

What's New	Section A	Intro
Rectangular Inductive Sensors Wide Selection of Sensing Ranges for All Metals, Part Number Key and Product Selection	Section B Selection Guide - B1-B2	Rectangular
Inductive Barrel Sensors Single Range Sensing for all Materials, General Information, Part Number Key and Product Selection	Section C Selection Guide - C1-C4	Barrels
Harsh Duty Sensors Low Temperature, High Temperature, Washdown, General Information, Part Number Key and Product Selection	Section D Selection Guide - D2	Harsh Duty
Specialty Sensors Rotational Speed, Ring, Slot, Magnetic Barrel Sensors, General Information, Part Number Key and Product Selection	Section E Selection Guide - E4	Specialty
Analog Sensors Material Detection Sensor, Linear Analog and Frequency Output, General Information, Part Number Key and Product Selection	Section F Selection Guide - F1-F2	Analog
Capacitive Sensors All Material Sensing, General Information, Part Number Key and Product Selection	Section G Selection Guide - G1-G2	Capacitive
Ultrasonic Sensors Transducers Calibrated for Use in Air and Other Gaseous Media Part Number Key and Product Selection	Section H Selection Guide - H2	Ultrasonics
Cylinder Position Sensors Inductive Magnet and Magneto Resistive Sensing General Information, Part Number Key and Product Selection	Section J Selection Guide - J1-J2	Cylinder
Mating Cordsets Mating Cordsets, Field Wireables	Section K Selection Guide - K1	Mating Cordsets
Accessories Sensor Accessories, Mounting Brackets, PTFE Caps and other Accessories	Section L Selection Guide - L1-L2	Accessories
General Specifications Introduction, Glossary, Wiring Instructions, Compliances, Enclosure Ratings and Materials	Section M Selection Guide - M1	General Specs
Index Conversions, Indexes, Warranty Terms and International Service and Consulting	Section N	Index

WHAT'S NEW?

Increased Sensing Ranges in *Uprox+* Section B - Retangular

- Extended sensing ranges and *Uprox+* embeddability in new product families.
- 8 mm sensing range for Bi 8U-Q08
- 75 mm sensing range for Ni75U-Q80



4 Way LED in AC Sensors Section C - Barrels

- Bright 4 way LED for 12, 18, and 30 mm diameter sensors
- *microfast*® connectors
- 1 piece metal barrel
- IP67



6 Amp Solid State Relay Output Section D - Harsh Duty

- 30 mm barrel
- 10 – 30 VDC power supply
- Complimentary or normally open versions
- Potted in cable
- IP67
- -40°C temperature

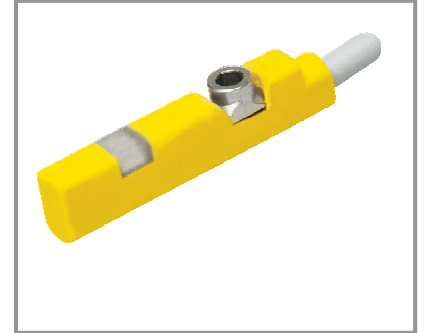


WHAT'S NEW?

Compact C-Groove Style Sensor

Section J - Cylinder

- Fits industry standard C-Groove pneumatic cylinders without accessories
- Short 18 mm long body
- 3/16" (1.3 mm) Allen wrench or a flat-bladed screwdriver for sensor installation
- Can be mounted to other cylinders with optional mounting accessories
- 3 wire DC versions with PNP or NPN outputs
- Rugged polypropylene construction



Dually Sensors

Section J - Cylinder

- Two into on M12 connection
- UNT or UNR styles
- Made to order lengths
- PUR cable
- IP67



Smart Plug - In-line Solution for Interface Problems

Section K - Accessories

- Convert 3 wire sensors from PNP to NPN or NPN to PNP
- Pulse stretcher
- Frequency monitor
- Counter module
- Field programmable via teach input



Inductive Rectangular Sensors

Rectangular Sensor Selection Guide



Rectangular Style Sensors					
Housing	5.5 mm	6 mm	6.5 mm	8 mm	9.5 mm
Sensing Range	2 - 3.5 mm	3 mm	1 - 2 mm	5 - 8 mm	2 mm
Pages	B13	B13	B13	B15 - B20	B21
Features					



Rectangular Style Sensors					
Housing	26 mm	30 mm	34 mm	40 mm	40 mm
Sensing Range	10 mm	15 mm	10 mm	20 mm	15 - 50 mm
Pages	B35	B35	B37	B39	B41 - B50
Features					

Rectangular Sensor Selection Guide



Rectangular Style Sensors

Housing	10 mm	11 mm	12 mm	14 mm	18 mm	20 mm
Sensing Range	2-5 mm	2 - 4 mm	2 - 5 mm	10 - 20 mm	5 - 10 mm	15 - 25 mm
Pages	B21-B24	B23	B25	B27	B29	B31 - B34
Features	<i>uprox</i> +		<i>uprox</i> +			

Rectangular



Rectangular Style Sensors

Housing	80 mm	80 mm	90 mm	90 mm
Sensing Range	40 - 75 mm	50 - 75 mm	60 mm	50-100 mm
Pages	B51	B53	B55	B57
Features		<i>uprox</i> +		<i>uprox</i> +

Inductive Rectangular Sensors

Inductive Sensor Part Number Key

B i 15				-		Q 20		-		A P 6 X2		Wiring Option*	Special Option Code*
Mounting												Number of LEDs	
B = embeddable N = nonembeddable												(blank) = no LED's X = 1 LED X2 = 2 LED's	
Principle of Operation												Voltage Range	
i = inductive												AC/DC: (No SCP)** 3 = 20-250VAC, 10-300 VDC 31 = 20-250VAC, 10-300 VDC, plastic barrel	
Rated Operating Distance (mm)												AC/DC: (Latched SCP) 30 = 20-250VAC, 10-300 VDC 32 = 20-250VAC, 10-300 VDC	
Sensing Characteristics												DC: 4 = 10-65 VDC, polarity protected, pulsed SCP** 6 = 10-30 VDC, polarity protected, pulsed SCP **SCP = short-circuit and overload protection	
F = front sensing on Q26 and Q34 sensor S = side sensing on Q26 sensor T = side sensing on Q34 sensor U = <i>uprox</i> ® Sensor												Output	
Housing Style												D = 2-wire DC (transistor output) DZ = 2-wire AC/DC, (power MOSFET output) N = NPN transistor (current sinking) P = PNP transistor (current sourcing) Z = 2-wire AC or 2-wire AC/DC	
Rectangular K = smooth Q = metal or plastic, various rectangular styles QV = plastic, variable position												Output Function	
Limit Switch CA = <i>stubby</i> ®, short aluminum housing, connector CK = <i>stubby</i> ®, short plastic housing, connector CP = <i>combiprox</i> ®, plastic housing, terminal chamber base with removable sensor												A = normally open (N.O.) F = connection programmable (N.O. or N.C.) V = complementary outputs: one N.O., one N.C. Y0 = NAMUR output, requires switching amplifier Y1 = NAMUR output, requires switching amplifier	
Housing Height (mm)												Secondary Housing Modifier	
												SR = straight terminal chamber	

NOTE: Part Number Keys are to assist in IDENTIFICATION ONLY.
Verify New Part Numbers with Factory; Some Configurations Are Not Possible.
* See next page Wiring Options and Special Option Codes

Wiring Options

A) Connectorized Sensor

Bi15-Q20-AN6X2- **H1 1 4 1**

Connector Family

- B1 = *minifast*®, Metal, Male
- B2 = *minifast*®, Plastic, Male
- B3 = *microfast*®, Metal, Male
- H1 = *eurofast*®, Metal or Plastic, Male
- V1 = *picofast*®, Metal, Male
- V2 = *picofast*®, Snap and M8x1, Male (Q08 Only)

Connector / Sensor Transition

1 = Straight

Wiring Configuration

Example:
1 = Standard
3 = N.C. DC Output on Pin 4 (for US)

Number of Pins

Rectangular

B) Potted Cable

Bi15-Q20-AN6X2- **7M**

Cable Length

Blank = 2 Meter cable
7M = 7 Meter cable

Special Option Codes

Bi 5-Q08-AN6XS- **/S34**

Option Code

Example:
/S34 = Weld Field Immune
/S97 = -40°C (-40°F) Operating Temperature
/S100 = +100°C (+212°F) Operating Temperature
/S1590 = CA40 sensors with *weldguard* laminate
/S1591 = CA40 sensors with *weldguard* and *armorguard*
/S1669 = CA40 sensors with *stoneface* cap

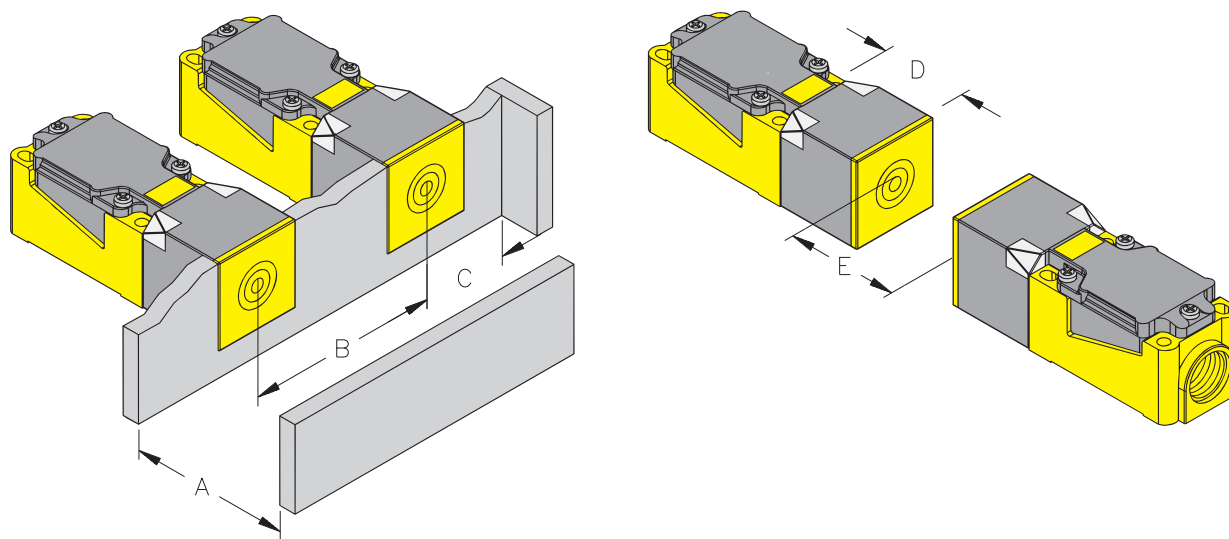
Inductive Rectangular Sensors

Mounting

TURCK inductive proximity sensors are manufactured with a shielded coil, designated by "Bi" in the part number, and a nonshielded coil, designated by "Ni" in the part number (See page C6). Embeddable (shielded) units may be safely flush-mounted in metal. Nonembeddable (nonshielded) units require a metal free area around the sensing face. Because of possible interference of the electromagnetic fields generated by the oscillators, minimum spacing is required between adjacent or opposing sensors.

It is good engineering practice to mount sensors horizontally or with the sensing face looking down. Avoid sensors that look up wherever possible, especially if metal filings and chips are present.

Embeddable Mounting Characteristics - Rectangular Housings

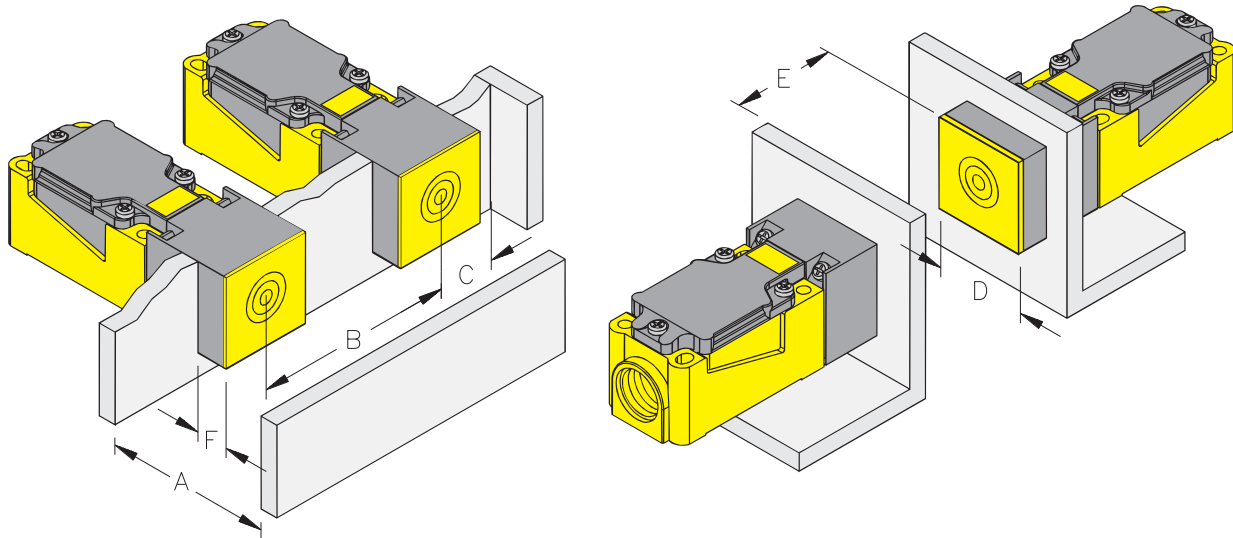


Flush Mountable - CA25, CK40 and CP40

Housing Type	Sensor Type	A	B	C	D	E
CA25	Bi10U	30.00	50.00	25.00	25.00	60.00
CP40/CK40	Bi15U	45.00	80.00	40.00	40.00	90.00
CP40/CK40	Bi15	45.00	80.00	40.00	40.00	90.00
CP40/CK40/CA40	Bi20U	60.00	80.00	40.00	40.00	120.00
CP40	Bi20	60.00	80.00	40.00	40.00	120.00
CP40/CK40	Bi30U	90.00	80.00	40.00	40.00	180.00

Dimensions are in mm.

Nonembeddable Mounting Characteristics - Rectangular Housings



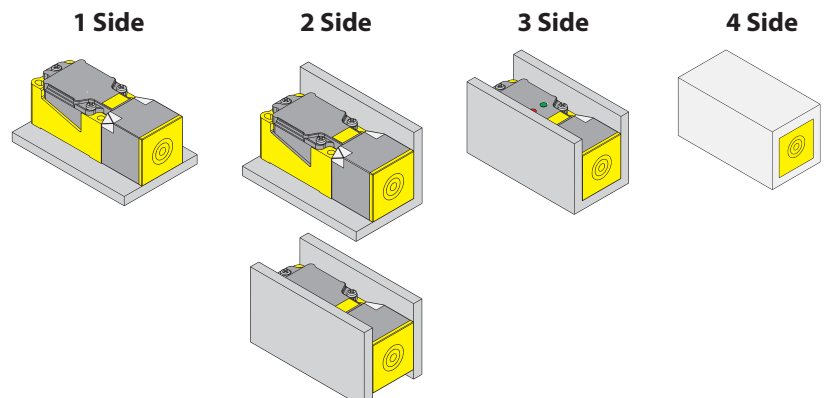
Rectangular

Non-Flush Mountable - CA25, CK40 and CP40

Housing Type	Sensor Type	A	B	C	D	E	F	1 Side	2 Side	3 Side
CP/CK40	Ni20	60.00	120.00	60.00	40.00	120.00	20.00			
CP/CK40	Ni25U	75.00	240.00	60.00	40.00	150.00	30.00	Sr=22 mm*	Sr=20 mm*	Sr=17 mm*
CP/CK40	Ni25	75.00	120.00	60.00	40.00	150.00	40.00			
CP/CK40	Ni35U	105.00	240.00	60.00	40.00	210.00	30.00	Sr=28 mm*	Sr=24 mm*	Sr=19 mm*
CP/CK40	Ni35	105.00	180.00	60.00	40.00	210.00	40.00			
CP/CK40	Ni40U	120.00	240.00	60.00	40.00	240.00	40.00			
CP/CK40	Ni40	120.00	180.00	60.00	40.00	240.00	40.00			
CP/CK40	Ni50U	150.00	240.00	60.00	40.00	300.00	40.00	Sr=35 mm*	Sr=25 mm*	Sr=20 mm*

Dimensions are in mm.

* Only DC versions



Non-Flush Mountable - CK40 and CP40

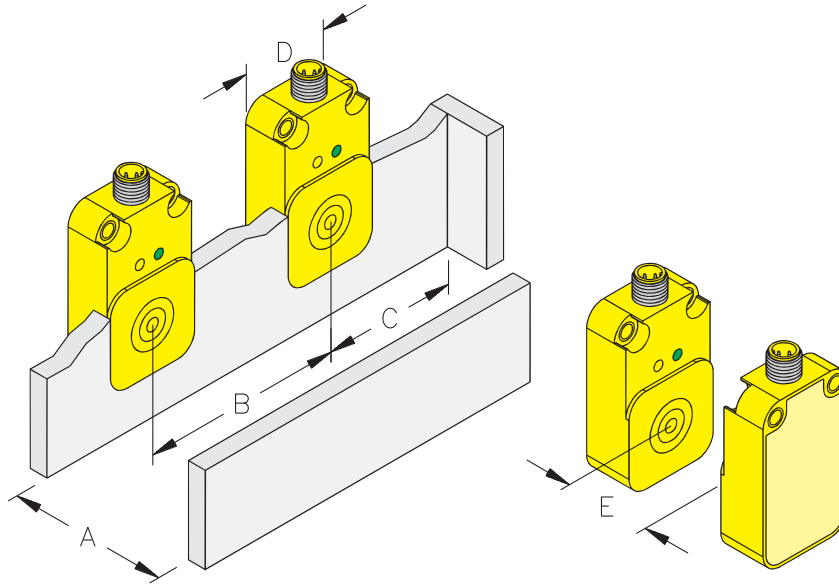
Housing	Sensor	A	B	C	D	E	F	1 Side	2 Side	3 Side	4 Side
CP/CK40	Ni50U	150.00	240.00	60.00	40.00	300.00	40.00	Sr=35mm*	Sr=25mm*	Sr=20mm*	Sr=17mm*

Dimensions are in mm.

* Only DC versions

Inductive Rectangular Sensors

Embeddable Mounting Characteristics - Rectangular Housings



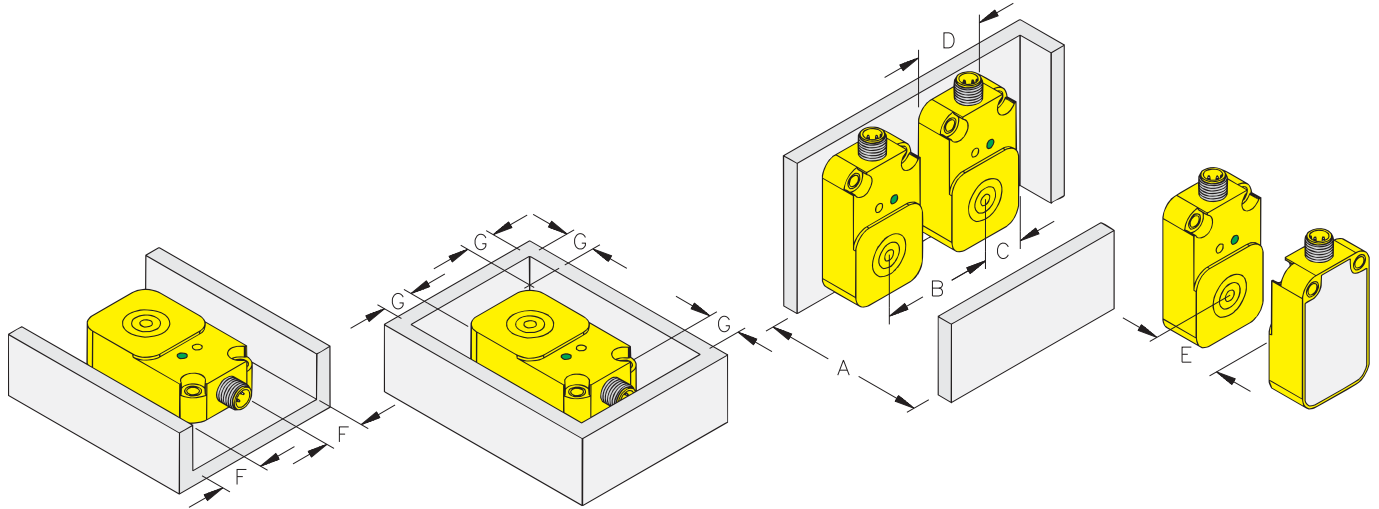
Flush Mountable

Housing Type	Sensor Type	A	B	C	D	E
Q5.5	Bi 2	6.00	16.00	8.00	8.00	12.00
Q06	Bi 3	9.00	35.00	17.00	17.30	18.00
Q08	Bi 5	15.00	40.00	20.00	20.00	30.00
Q08	Bi 5U	15.00	40.00	20.00	20.00	30.00
Q08	Bi 7	21.00	40.00	20.00	20.00	42.00
Q10	Bi 8	24.00	50.00	25.00	25.00	48.00
Q10	Bi 8U	24.00	50.00	25.00	25.00	48.00
Q14	Bi10	30.00	45.00	30.00	30.00	60.00
Q14	Bi10U	30.00	45.00	30.00	30.00	60.00
Q20	Bi15	45.00	60.00	40.00	40.00	90.00
Q20	Bi15U	45.00	60.00	40.00	40.00	90.00
CP80	Bi40	120.00	160.00	80.00	80.00	240.00
Q80	Bi50U	150.00	160.00	80.00	80.00	300.00

Dimensions are in mm.

Embeddable Mounting Characteristics - Rectangular Housings

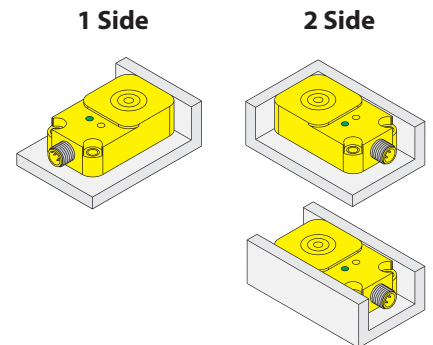
Rectangular



Non-flush Mountable - Minimum Distances - Q5.5, Q14, Q20, CP80, Q80 and K90

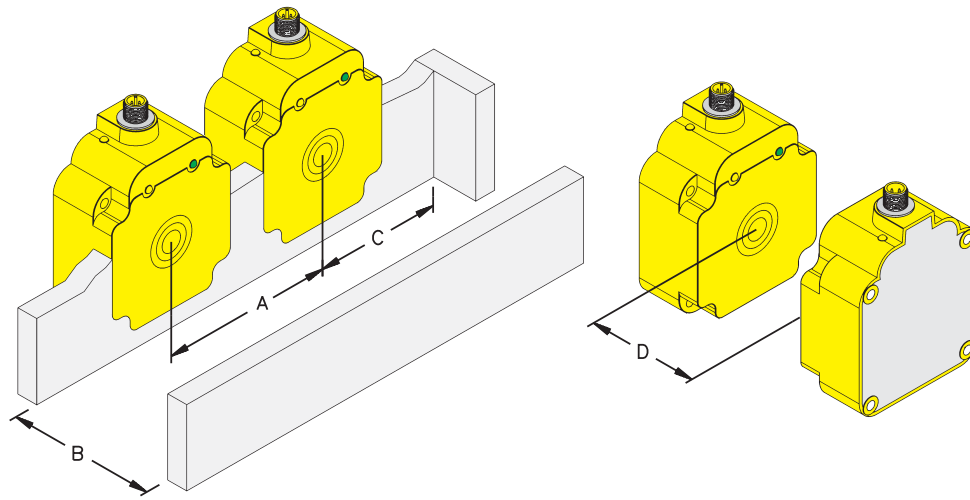
Housing Type	Sensor Type	A	B	C	D	E	F	G	1 Side	2 Side
Q5.5	Ni 3.5	11.00	24.00	12.00	8.00	21.00	4.00	8.00		
Q14	Ni20	60.00	90.00	45.00	30.00	120.00	202.00	30.00		
Q20	Ni25	75.00	120.00	60.00	40.00	150.00	25.00	40.00		
CP80	Ni40	120.00	240.00	120.00	80.00	240.00	40.00	80.00		
CP80	Ni50U	150.00	240.00	120.00	80.00	300.00	50.00	80.00		
Q80	Ni70U	210.00	240.00	120.00	80.00	420.00	70.00	80.00	Sr=50 mm	
CP80	Ni75U	225.00	240.00	120.00	80.00	450.00	60.00	80.00		
K90	Ni50U	150.00	270.00	135.00	90.00	300.00	50.00	90.00		
K90	Ni60	180.00	270.00	135.00	90.00	360.00	60.00	90.00		
K90	Ni100U	300.00	270.00	135.00	90.00	600.00	100.00	90.00	Sr=70 mm	

Dimensions are in mm.
* Only non-ferrous metals.



Inductive Rectangular Sensors

Embeddable Mounting Characteristics

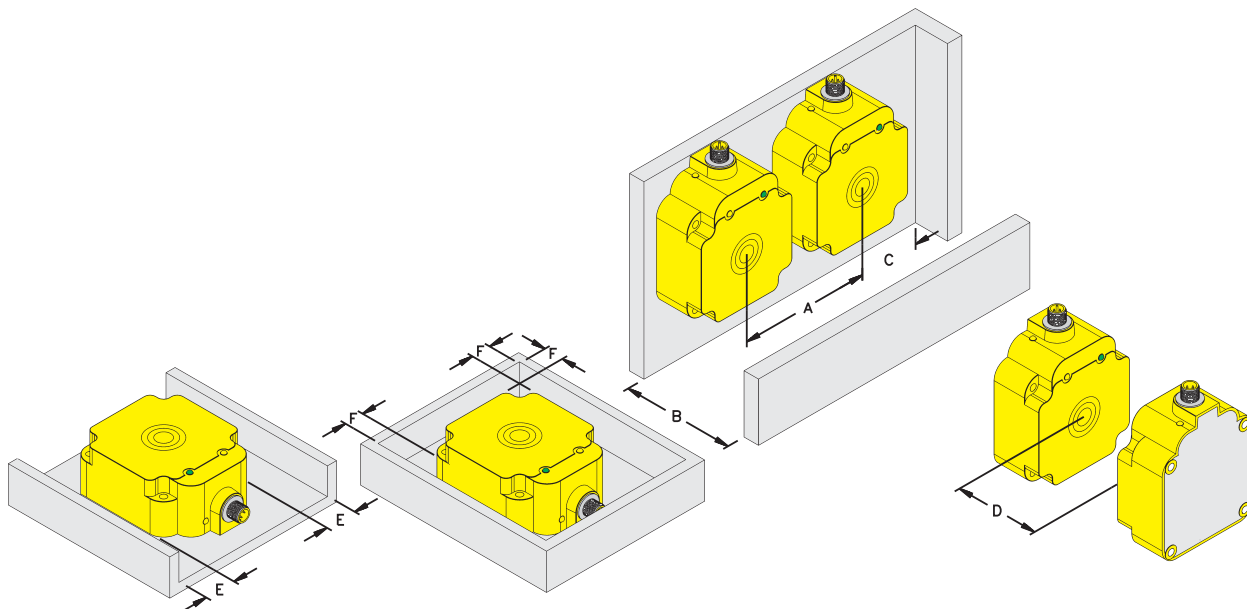


Embeddable, Square Sensors

Part Number	A	B	C	D
Bi50U-Q80 (80 mm)	180	150	80	300

Dimensions are in mm.

Nonembeddable Mounting Characteristics

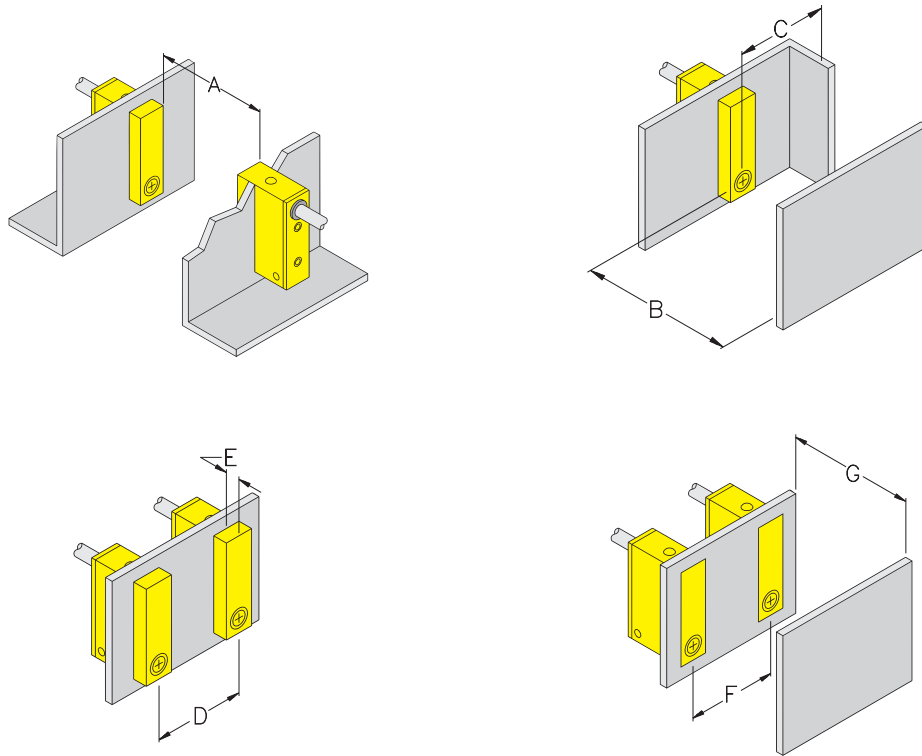


Nonembeddable, Square Sensors

Part Number	A	B	C	D	E	F
Ni70U-Q80 (80 mm)	180	210	80	420	70	140

Dimensions are in mm.

Embeddable Mounting Characteristics - Rectangular Housings



Rectangular

Flush Mountable

Housing Type	Sensor Type	Housing	A	G	C	F
Q6.5	Bi 1	6.50	6.00	3.00	7.00	13.00
Q10S	Bi 2	10.00	12.00	6.00	10.00	20.00
Q11S	Bi 2	11.00	12.00	6.00	11.00	22.00
Q12	Bi 2	12.00	12.00	6.00	12.00	24.00
Q26	Bi10	26.00	60.00	30.00	26.00	52.00
Q34	Bi15	34.00	90.00	45.00	34.00	68.00

Dimensions are in mm.

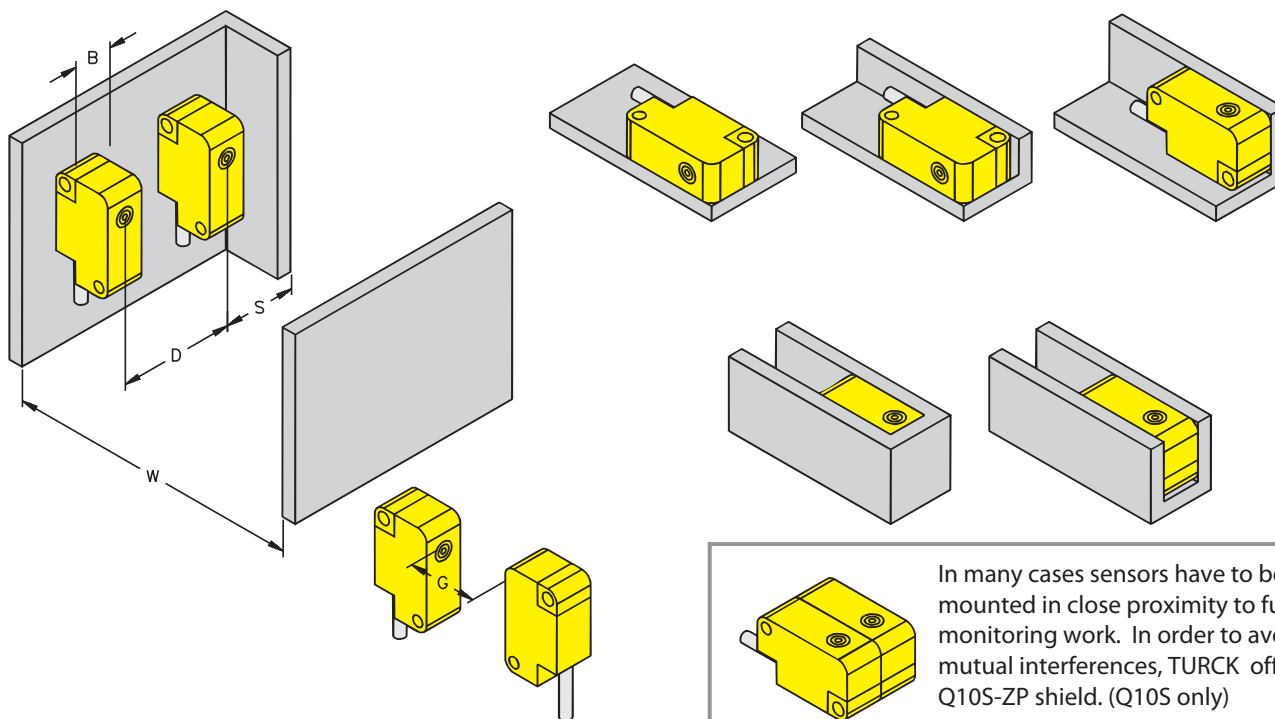
Non-Flush Mountable

Housing Type	Sensor Type	Housing	A	B	C	D	E
Q6.5	Ni 2	6.50	12.00	6.00	10.00	13.00	4.00
Q9.5	Ni 2	9.50	12.00	6.00	14.00	19.00	4.00
Q11S	Ni 4	11.0	24.00	12.00	10.50	22.00	8.00
Q12	Ni 4	12.00	24.00	12.00	18.00	24.00	8.00
Q25	Ni10	25.00	60.00	30.00	38.00	50.00	20.00
Q30	Ni15	30.00	90.00	45.00	45.00	60.00	30.00

Dimensions are in mm.

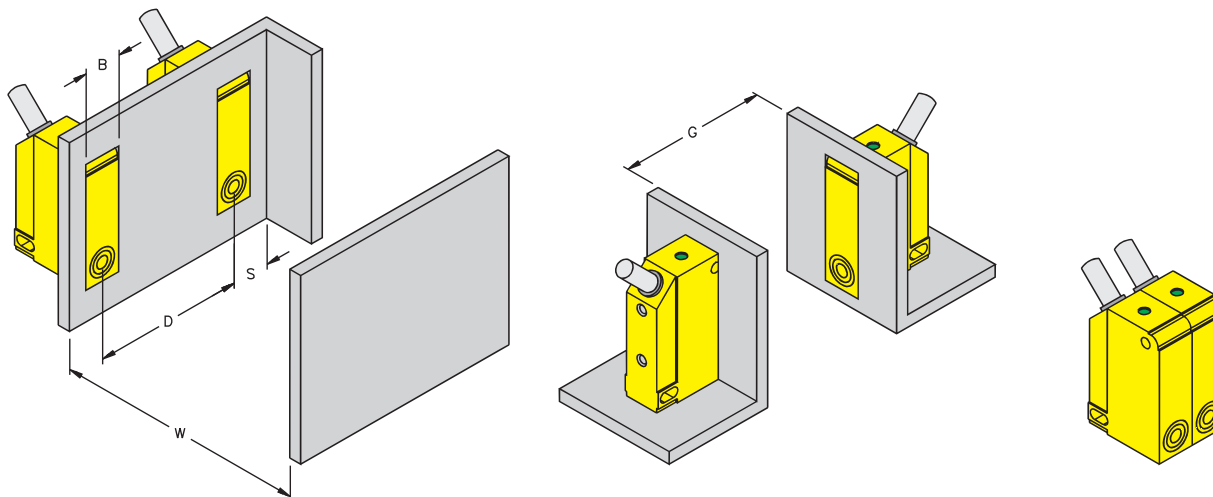
Inductive Rectangular Sensors

Embeddable Mounting Characteristics



Nonembeddable, Square Sensors

Part Number	D	W	S	G	B Width of Active Face
Ni5U-Q10S..	3xB	3xSn	1.5xB	6xSn	10.2



Embeddable, Square Sensors

Part Number	D	W	S	G
Bi5U-Q12..	48 mm	25 mm	12 mm	50 mm

Width of the active face B = 12 mm

Notes:

Rectangular

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
5.5 mm - Embeddable/Nonembeddable, Potted-In Cable 	Bi 2-Q5.5-AG6X	S1613108		•	2	2-Wire DC
	Bi 2-Q5.5-AN6X	S1613100		•	2	3-Wire DC NPN
	Bi 2-Q5.5-AN6X/S34	S1613101	<i>Weld-field Immune</i>	•	2	
	Ni 3.5-Q5.5-AN6X	S4613610			3.5	3-Wire DC PNP
	Bi 2-Q5.5-AP6X	S1613000		•	2	
	Bi 2-Q5.5-AP6X/S34	S1613001	<i>Weld-field Immune</i>	•	2	
	Bi 2-Q5.5K-AP6X	S1613015			3.5	
5.5 mm - Embeddable/Nonembeddable, Potted-In Cable 	Bi 2-Q5.5K-Y1X	S4055300		•	2	2-Wire DC NAMUR
	Bi 2-Q5.5K-AN6X	S1613016		•	2	3-Wire DC NPN
	Bi 2-Q5.5K-AP6X	S1613015		•	2	3-Wire DC PNP
6.0 mm - Embeddable, Potted-In Cable 	Bi 3-Q06-AN6X2	S1620150		•	3	3-Wire DC NPN
	Bi 3-Q06-AP6X2	S1620100		•	3	3-Wire DC PNP
6.5 mm - Embeddable/Nonembeddable, Potted-In Cable 	Bi 1-Q6.5-AN6	S4613420		•	1	3-Wire DC NPN
	Ni 2-Q6.5-AN6	S4613520			2	
	Bi 1-Q6.5-AP6/S34	S4613401	<i>Weld-field Immune</i>	•	1	3-Wire DC PNP
	Ni 2-Q6.5-AP6/S34	S1650023	<i>Weld-field Immune</i>	•	2	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤50	-25 to +85	IP 67	PP	PP	N/A	YE	2M/PUR	1	Diagram 1
10-30 VDC	2000	≤150	-25 to +85	IP 67	PP	PP	N/A	YE	2M/PUR	2	
	2000	≤150	-25 to +85	IP 67	PP	PP	N/A	YE	2M/PUR	2	
	2000	≤150	-25 to +85	IP 67	PP	PP	N/A	YE	2M/PUR	2	
10-30 VDC	2000	≤150	-25 to +85	IP 67	PP	PP	N/A	YE	2M/PUR	3	Diagram 2
	2000	≤150	-25 to +85	IP 67	PP	PP	N/A	YE	2M/PUR	3	
	2000	≤150	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	3	
	2000	≤150	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	3	
5-30 VDC	2000	Remote	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	4	Diagram 3
10-30 VDC	2000	≤150	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	2	Diagram 4
10-30 VDC	2000	≤150	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PBT	PA	GN	YE	2M/PUR	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PBT	PA	GN	YE	2M/PUR	3	
10-30 VDC	2000	≤150	-25 to +70	IP 67	PA 12	PA	N/A	N/A	2M/PUR	2	
	2000	≤150	-25 to +70	IP 67	PA 12	PA	N/A	N/A	2M/PUR	2	
10-30 VDC	30	≤150	-25 to +70	IP 67	PA 12	PA	N/A	N/A	2M/PUR	3	
	30	≤150	-25 to +70	IP 67	PA 12	PA	N/A	N/A	2M/PUR	3	

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
8.0 mm - Embeddable, Potted-In Cable 	Bi 8U-Q08-AN6X2	S1662007	<i>Uprox</i>		8	3-Wire DC NPN
	Bi 8U-Q08-AP6X2	S1662006	<i>Uprox</i>		8	3-Wire DC PNP
8.0 mm - Embeddable, Potted-In Cable 	Bi 5-Q08-AD4X/S34	S4414550	Weld-field Immune	•	5	2-Wire DC
	Bi 5U-Q08-AN6X2	S1608911	<i>Uprox</i>	•	5	3-Wire DC NPN
	Bi 7-Q08-AN6X2	S1601620	Ext. Range	•	7	
	Bi 5U-Q08-AP6X2	S1608901	<i>Uprox</i>	•	5	3-Wire DC PNP
	Bi 7-Q08-AP6X2	S1601600	Ext. Range	•	7	
	Bi 5-Q08-VN6X2	S1600200	Comp. Outputs	•	5	4-Wire DC NPN
	Bi 7-Q08-VN6X2	S1600920	Ext. Range	•	7	
	Bi 5-Q08-VP6X2	S1600100	Comp. Outputs	•	5	4-Wire DC PNP
	Bi 7-Q08-VP6X2	S1600900	Ext. Range	•	7	
	Bi 5-Q08-Y1X	S4054000			•	5

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-30 to +85	IP 68	Zinc	PA12	GN	YE	2M/PUR	2	<p>Diagram 1</p>
10-30 VDC	1000	≤200	-30 to +85	IP 68	Zinc	PA12	GN	YE	2M/PUR	3	<p>Diagram 2</p>
10-65 VDC	50	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PUR	1	<p>Diagram 3</p>
10-30 VDC	250	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	2M/PUR	2	<p>Diagram 4</p>
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PUR	2	
10-30 VDC	250	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	2M/PUR	3	<p>Diagram 5</p>
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PUR	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PUR	4	<p>Diagram 6</p>
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PUR	4	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PUR	5	<p>Diagram 6</p>
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PUR	5	
5-30 VDC	1000	Remote	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PUR	6	<p>Diagram 6</p>

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
8.0 mm - Embeddable, <i>picofast</i>® Connector 	Bi 8U-Q08-AN6X2-V1131	S1662008	<i>Uprox</i>		8	3-Wire DC NPN
	Bi 8U-Q08-AP6X2-V1131	S1662005	<i>Uprox</i>		8	3-Wire DC PNP
8.0 mm - Embeddable, <i>picofast</i> Connector 	Bi 5-Q08-AD4X-V1130	S4414551		•	5	2-Wire DC
	Bi 5U-Q08-AN6X2-V1131	S1608910	<i>Uprox</i>	•	5	3-Wire DC NPN
	Bi 5-Q08-AN6X2-V1131	S1600600		•	5	
	Bi 7-Q08-AN6X2-V1131	S1601622	<i>Ext. Range</i>	•	7	
	Bi 5U-Q08-AP6X2-V1131	S1608900	<i>Uprox</i>	•	5	3-Wire DC PNP
	Bi 5-Q08-AP6X2-V1131	S1600500		•	5	
Bi 7-Q08-AP6X2-V1131	S1601602	<i>Ext. Range</i>	•	7		
8.0 mm - Embeddable, <i>picofast</i> Connector 	Bi 5-Q08-VN6X2-V1141	S1600400	<i>Comp. Outputs</i>	•	5	4-Wire DC NPN
	Bi 7-Q08-VN6X2-V1141	S1600922	<i>Ext. Range</i>	•	7	
	Bi 5-Q08-VP6X2-V1141	S1600300	<i>Comp. Outputs</i>	•	5	4-Wire DC PNP
	Bi 7-Q08-VP6X2-V1141	S1600902	<i>Ext. Range</i>	•	7	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-30 to +85	IP 68	Zinc	PA 12	GN	YE	PKG 3Z-*	2	Diagram 1
10-30 VDC	1000	≤200	-30 to +85	IP 68	Zinc	PA 12	GN	YE	PKG 3Z-*	3	Diagram 2
10-65 VDC	1000	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 3
10-30 VDC	250	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	2	Diagram 4
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	2	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	2	
10-30 VDC	250	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	3	Diagram 5
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	3	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3Z-*	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 4Z-*	4	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 4Z-*	4	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 4Z-*	5	
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 4Z-*	5	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
8.0 mm - Embeddable, picofast® Connector 	Bi 5-Q08-AD4X-V2130	S4414553		•	5	2-Wire DC
	Bi 5-Q08-AN6X2-V2131	S1600602		•	5	3-Wire DC NPN
	Bi 5U-Q08-AN6X2-V2131	S1608904	Uprox	•	5	
	Bi 7-Q08-AN6X2-V2131	S1601623	Ext. Range	•	7	
	Bi 5-Q08-AP6X2-V2131	S1600502		•	5	3-Wire DC PNP
	Bi 5U-Q08-AP6X2-V2131	S1608905	Uprox	•	5	
Bi 7-Q08-AP6X2-V2131	S1601603	Ext. Range	•	7		
8.0 mm - Embeddable, Amphenol Connector 	Bi 3-Q08-ES/S1027-0.2	M1044691		•	3	N/A
8.0 mm - Nonembeddable, Potted-In Cable 	Ni 4U-Q8SE-AN6X	S4635809	Uprox+		4	3-Wire DC NPN
	Ni 4U-Q8SE-AP6X	S4635807	Uprox+		4	3-Wire DC PNP
8.0 mm - Nonembeddable, picofast Connector 	Ni 4U-Q8SE-AN6X-V1131	S4635810	Uprox+		4	3-Wire DC NPN
	Ni 4U-Q8SE-AP6X-V1131	S4635808	Uprox+		4	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3M-*	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3M-*	2	
	250	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	PKG 3M-*	2	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3M-*	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3M-*	3	
	250	≤200	-30 to +85	IP 67	Zinc	PA 12	GN	YE	PKG 3M-*	3	
	500	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	PKG 3M-*	3	
N/A	500	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	- - - -	*	Diagram 3
N/A	500	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	- - - -	*	Diagram 4
											Diagram 5
10-30 VDC	1000	≤150	-30 to +85	IP 68	PP	PP	N/A	YE	2M/PUR	4	Diagram 5
10-30 VDC	1000	≤150	-30 to +85	IP 68	PP	PP	N/A	YE	2M/PUR	5	
10-30 VDC	1000	≤150	-30 to +85	IP 68	PP	PP	N/A	YE	PKG 3Z-*	2	
10-30 VDC	1000	≤150	-30 to +85	IP 68	PP	PP	N/A	YE	PKG 3Z-*	3	

Rectangular

* For use with Weldtron Microprocessor.

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
9.5 mm - Nonembeddable, Potted-In Cable 	Ni 2-Q9.5-AP6/S34	S1650077	Weld-field Immune		2	3-Wire DC PNP
10 mm - Embeddable, Potted-In Cable 	Bi 8U-Q10-AN6X2	S1662003	Uprox	•	8	3-Wire DC NPN
	Bi 8-Q10-VN6X2	S4616410	Comp. Outputs	•	8	4-Wire DC NPN
	Bi 8U-Q10-AP6X2	S1662001	Uprox	•	8	3-Wire DC PNP
	Bi 8-Q10-VP6X2	S4616401	Comp. Outputs	•	8	4-Wire DC PNP
10 mm - Embeddable, picofast® Connector 	Bi 8U-Q10-AN6X2-V1131	S1662004	Uprox	•	8	3-Wire DC NPN
	Bi 8U-Q10-AP6X2-V1131	S1662002	Uprox	•	8	3-Wire DC PNP
	Bi 8-Q10-VP6X2-V1141	S4616402	Comp. Outputs	•	8	4-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.

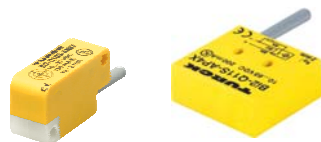


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	30	≤150	-25 to +70	IP 67	PA 12	PA 12	N/A	N/A	2M/PUR	2	<p>Diagram 1</p> <p>Diagram 2</p>
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	1	<p>Diagram 3</p>
10-30 VDC	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	6	<p>Diagram 4</p>
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	2	<p>Diagram 5</p>
10-30 VDC	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	7	<p>Diagram 6</p>
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	PKG 3M-*	3	<p>Diagram 7</p>
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	PKG 3M-*	4	
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	PKG 4M-*	5	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
10 mm - Embeddable/Nonembeddable, Potted-In Cable 	Bi 2-Q10S-AN6X	S1619310		•	2	3-Wire DC NPN
	Ni 5U-Q10S-AN6X	S1609365	<i>uprox+</i>		5	
	Bi 2-Q10S-AP6X	S1609360		•	2	3-Wire DC PNP
	Ni 5U-Q10S-AP6X	S1609364	<i>uprox+</i>			
	Bi 2-Q10S-VN6X	S1609341	Comp. Outputs	•	2	4-Wire DC NPN
	Bi 2-Q10S-VP6X	S1609340	Comp. Outputs	•	2	4-Wire DC PNP
	Bi 2-Q10S-AZ31X	S1309100		•	2	2-Wire AC/DC
	Bi 2-Q10S-Y0X	S4012130		•	2	2-Wire NAMUR
Bi 2-Q10S-Y1X	S4012130		•	2		
11 mm - Embeddable/Nonembeddable, Potted-In Cable 	Bi 2-Q11S-AD4X	M4405040		•	2	2-Wire DC
	Ni 4-Q11S-AZ31X	M4348000			4	2-Wire AC/DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤150	-25 to +70	IP 67	PP-GF20	N/A	YE	2M/PUR	1	1	Diagram 1
	1000	≤150	-30 to +85	IP 68	PP-GF20	N/A	YE	2M/PUR			
10-30 VDC	2000	≤150	-25 to +70	IP 67	PP-GF20	N/A	YE	2M/PUR	2	2	Diagram 2
	1000	≤150	-30 to +85	IP 68	PP-GF20	N/A	YE	2M/PUR			
10-30 VDC	2000	≤150	-25 to +70	IP 67	PP-GF20	N/A	YE	2M/PUR	3	3	Diagram 3
10-30 VDC	2000	≤150	-25 to +70	IP 67	PP-GF20	N/A	YE	2M/PUR	4	4	
20-250 VAC 10-300 VDC	60	≤100	-25 to +70	IP 67	PP-GF20	N/A	RD	2M/PUR	5	5	Diagram 4
5-30 VDC	1000	Remote	-25 to +70	IP 67	PP-GF20	N/A	YE	2M/PVC	6	6	Diagram 5
	1000	Remote	-25 to +70	IP 67	PP-GF20	N/A	YE	2M/PVC			
10-65 VDC	2000	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	7	Diagram 6
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	5	Diagram 7

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
12 mm - Embeddable/Nonembeddable, Potted-In Cable 	Ni 4-Q12-AD4X	M4405012			4	2-Wire DC
	Bi 2-Q12-AZ31X	M1310000		•	2	2-Wire AC/DC
	Ni 4-Q12-AZ31X	M1310200			4	
12 mm - Embeddable, Potted-In Cable 	Bi 5U-Q12-AN6X2	M1635523		•	5	3-Wire DC NPN
	Bi 5U-Q12-AP6X2	M1635522		•	5	3-Wire DC PNP
	Bi5U-Q12-VP6X2	M1635533		•	5	4-Wire DC PNP
12 mm - Embeddable, eurofast® Connection 	Bi 5U-Q12-AN6X2-H1141	M1635527		•	5	3-Wire DC NPN
	Bi 5U-Q12-AP6X2-H1141	M1635526		•	5	3-Wire DC PNP
12 mm - Embeddable, picofast® Connection 	Bi 5U-Q12-AN6X2-V1131	M1635525		•	5	3-Wire DC NPN
	Bi 5U-Q12-AP6X2-V1131	M1635524		•	5	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
20-250 VAC 10-65 VDC	20	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
	20	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	2	
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	2M/PUR		3	<p>Diagram 3</p>
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	2M/PUR		4	<p>Diagram 4</p>
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	2M/PUR		9	<p>Diagram 5</p>
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	RK 4T-*		5	<p>Diagram 6</p>
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	RK 4T-*		6	<p>Diagram 7</p>
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	PKG 3Z-*		7	<p>Diagram 8</p>
10-30 VDC	1000	≤200	-25 to +70	IP 68	PA 12-GF30	GN	YE	PKG 3Z-*		8	<p>Diagram 9</p>

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
14 mm - Embeddable/Nonembeddable, Potted-In Cable 	Ni20-Q14-AD4X	M4414557			20	2-Wire DC	
	Bi10U-Q14-AN6X2	M1608710	<i>Uprox</i>	•	10	3-Wire DC NPN	
	Bi10-Q14-AN6X2	M1608320		•	10		
	Ni20-Q14-AN6X2	M4690220			20		
	Bi10U-Q14-AP6X2	M1608700	<i>Uprox</i>	•	10	3-Wire DC PNP	
	Bi10-Q14-AP6X2	M1608720		•	10		
	Ni20-Q14-AP6X2	M4690205		•	20		
	Bi10-Q14-ADZ32X2	M4256220			•	10	2-Wire AC/DC Short-Circuit Protected
	Bi10-Q14-ADZ32X2/S34	M4256225	<i>Weld-field Immune</i>		•	10	
	Ni20-Q14-ADZ32X2	M4205410			•	20	
Bi10-Q14-Y0X	M1608730			•	10	2-Wire NAMUR	
14 mm - Embeddable/Nonembeddable, picofast® Connector 	Bi10-Q14-AN6X2-V1131	M1608325		•	10	3-Wire DC NPN	
	Bi10U-Q14-AN6X2-V1131	M1608510	<i>Uprox</i>	•	10		
	Ni20-Q14-AN6X2-V1131	M4690221			20		
	Bi10-Q14-AP6X2-V1131	M1608530			•	10	3-Wire DC PNP
	Bi10U-Q14-AP6X2-V1131	M1608500	<i>Uprox</i>	•	10		
	Ni20-Q14-AP6X2-V1131	M4690210			20		

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	150	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PUR	1	Diagram 1
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	2	Diagram 2
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	2	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	2	
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	3	Diagram 3
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	3	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	3	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PBT	PBT	GN	RD	2M/PUR	4	Diagram 4
	20	≤100	-25 to +70	IP 67	PBT	PBT	GN	RD	2M/PUR	4	
	20	≤100	-25 to +70	IP 67	PBT	PBT	GN	RD	2M/PUR	4	
5-30 VDC	1000	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PUR	5	Diagram 5
10-30 VDC	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	PKG 3M-*	6	Diagram 6
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	PKG 3M-*	6	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	PKG 3M-*	6	
10-30 VDC	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	PKG 3M-*	7	Diagram 7
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	PKG 3M-*	7	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	PKG 3M-*	7	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
18 mm - Nonembeddable, Potted-In Cable 	Ni 5-Q18-AN6X	M4614607			5	3-Wire DC NPN
	Ni 5-Q18-AP6X	M4614606			5	3-Wire DC PNP
	Ni10-Q18-AP6X	M4652210	Extended Range		10	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PVC	2	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
<p>20 mm - Embeddable/Nonembeddable, Potted-In Cable</p>	Bi15U-Q20-AN6X2	M1608810	<i>Uprox</i>	•	15	3-Wire DC NPN
	Bi15-Q20-AN6X2	M1608310		•	15	
	Ni25-Q20-AN6X2	M1602800			25	
	Bi15U-Q20-AP6X2	M1608800	<i>Uprox</i>	•	15	3-Wire DC PNP
	Bi15-Q20-AP6X2	M1608300		•	15	
	Ni25-Q20-AP6X2	M1602700			25	
	Bi15U-Q20-VP6X2 4M	M1608602	<i>Uprox</i>	•	15	4-Wire DC PNP
	Bi15-Q20-Y0X	M1080020		•	15	2-Wire NAMUR
	Bi15-Q20-ADZ32X2	M4256250		•	15	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	1	Diagram 1
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	1	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	1	
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	2	Diagram 2
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	2	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	2	
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	2M/PUR	3	Diagram 3
5-30 VDC	1000	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	2M/PUR	4	Diagram 4
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PBT	PBT	GN	YE	2M/PUR	5	Diagram 5

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
20 mm - Embeddable/Nonembeddable, eurofast® Connector 	Bi15U-Q20-AN6X2-H1141	M1608610	<i>Uprox</i>	•	15	3-Wire DC NPN	
	Bi15-Q20-AN6X2-H1141	M1608315		•	15		
	Ni25-Q20-AN6X2-H1141	M1602802			25		
	20 mm - Embeddable, microfast® Connector 	Bi15U-Q20-AP6X2-H1141	M1608600	<i>Uprox</i>	•	15	3-Wire DC PNP
		Bi15-Q20-AP6X2-H1141	M1608305		•	15	
		Ni25-Q20-AP6X2-H1141	M1602702			25	
		Bi15-Q20-Y0X-H1141	M1080025			15	2-Wire NAMUR
	20 mm - Embeddable, Potted-In Cable 	Bi22-Q20-RN6X2/S400-S946	M4690237		•	22	3-Wire DC NPN
		Bi22-Q20-RP6X2/S400-S946	M4690236		•	22	3-Wire DC PNP

/S400-S946 = LEDs on back side.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

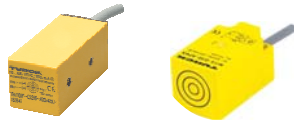


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	RK 4T-*	1	Diagram 1
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	1	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	1	
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	RK 4T-*	2	Diagram 2
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	2	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	2	
5-30 VDC	1000	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	RK 4.21T-*	3	Diagram 3
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	4	Diagram 4
10-30 VDC	250	≤200	-40 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	5	Diagram 5
10-30 VDC	250	≤200	-40 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	6	Diagram 6

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
26 mm - Embeddable, Potted-In Cable 	Bi 10F-Q26-AD4X/S34	M4470000	Weld-field Immune	•	10	2-Wire DC
	Bi 10S-Q26-AD4X/S34	M4470200	Weld-field Immune	•	10	
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-Q30-AN6X	M4659330			15	3-Wire DC - NPN
	Ni 15-Q30-AP6X	M4659325			15	3-Wire DC - PNP

Bi10F = Front sensing
 Bi10S = Side sensing

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	End Cap	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	30	≤100	-25 to +70	IP 67	PBT	PBT	PA 12	GN	YE	2M/PVC	1	<p>Diagram 1</p>
	30	≤100	-25 to +70	IP 67	PBT	PBT	PA 12	Gn	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-25 to +70	IP67	PBT	PBT	N/A	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	YE	2M/PVC	3	<p>Diagram 3</p>

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
Q34 - Embeddable, Potted-In Cable 	Bi10F-Q34-ADZ30X2/S34	T4202100	Front Sensing, WFI	•	10	2-Wire AC/DC Short-Circuit Protected
	Bi10T-Q34-ADZ30X2/S34	T4202200	Top Sensing, WFI	•	10	
Q34 - Embeddable, eurofast® Connector 	Bi10F-Q34-AP6X2-H1141	T4693190	Front Sensing	•	10	3-Wire DC PNP
	Bi10T-Q34-AP6X2-H1141	T4693390	Top Sensing	•	10	
Q34 - Embeddable, minifast® Connector 	Bi10F-Q34-AP6X2-B1141	T4693100	Front Sensing	•	10	3-Wire DC PNP
	Bi10T-Q34-AP6X2-B1141	T4693300	Top Sensing	•	10	
	Bi10F-Q34-ADZ30X2-B1131/S34	T4201100	Front Sensing, WFI	•	10	2-Wire AC/DC Short-Circuit Protected
	Bi10T-Q34-ADZ30X2-B1131/S34	T4201200	Top Sensing, WFI	•	10	
	Bi10F-Q34-AZ3X2-B1131	T1369200	Front Sensing	•	10	2-Wire AC/DC
	Bi10T-Q34-AZ3X2-B1131	T1369000	Top Sensing	•	10	
Q34 - Embeddable, microfast® Connector 	Bi10F-Q34-ADZ30X2-B3131/S34	T4217000	Front Sensing, WFI	•	10	2-Wire AC/DC Short-Circuit Protected
	Bi10T-Q34-ADZ30X2-B3131/S34	T4217100	Top Sensing, WFI	•	10	
	Bi10T-Q34-AZ3X2-B3131	T1369098	Top Sensing	•	10	2-Wire AC/DC

WFI = Weld-Field Immune Sensors.

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



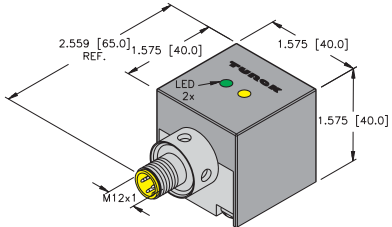
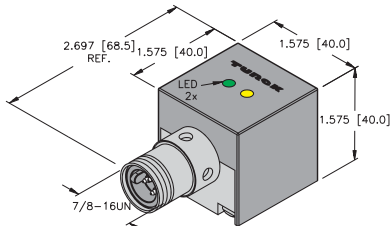
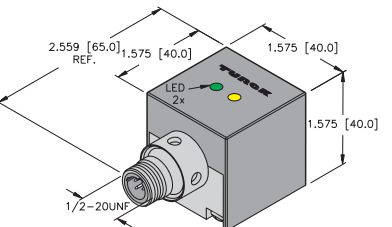
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-300 VDC 20-250 VAC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	2	
	500	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 40-*M	3	
	500	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 40-*M	3	
10-300 VDC 20-250 VAC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	RKM 30-*M	4	
	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	RKM 30-*M	4	
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	RKM 30-*M	4	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	RKM 30-*M	4	
10-300 VDC 20-250 VAC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	KB 3T-*	5	
	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	KB 3T-*	5	
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	RD	KB 3T-*	5	

Rectangular

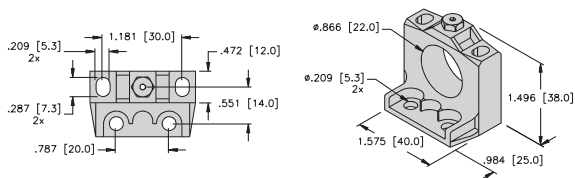
For material descriptions see page M36.

Inductive Rectangular Sensors

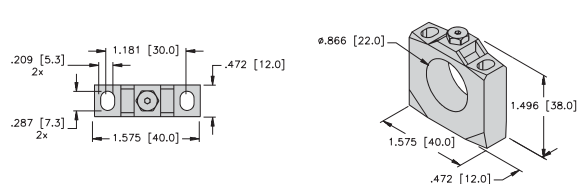


Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing	Output
CA40 - Embeddable, eurofast® Connector 	Bi20U-CA40-AN6X2-H1141 W/BS2.1	M1627390	Uprox	•	20	3-Wire DC NPN
	Bi20U-CA40-AP6X2-H1141 W/BS2.1	M1627290	Uprox	•	20	
	Bi20U-CA40-AP6X2-H1141/S1590 W/BS2.0	M1627297	weldguard®	•	20	
	Bi20U-CA40-AP6X2-H1141/S1591 W/BS2.0	M1627296	armorguard®	•	20	
	Bi20U-CA40-AP6X2-H1141/S1591 W/BS2.1	M1627294	armorguard	•	20	
CA40 - Embeddable, minifast® Connector 	Bi20U-CA40-ADZ30X2-B1131 W/BS2.1	M4283290	Uprox	•	20	2-Wire AC/DC Short-Circuit Protected
	Bi20-CA40-ADZ30X2-B1131/S34/S1591 W/BS2.1	M4283595	armorguard	•	20	
CA40 - Embeddable, microfast® Connector 	Bi20U-CA40-ADZ30X2-B3131 W/BS2.1	M4283292	Uprox	•	20	2-Wire AC/DC Short-Circuit Protected
	Bi20-CA40-ADZ30X2-B3131/S34/S1591 W/BS2.1	M4283596	armorguard	•	20	

Note: 1. BS2.1 is the standard mounting bracket for CA40 unless noted differently.



BS 2.1 Mounting Bracket



BS 2.0 Mounting Bracket

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	0 to +70	IP 67	AL	TP	GN	YE	RK 4T-*	1	<p>Diagram 1</p>
10-30 VDC	250	≤200	0 to +70	IP 67	AL	TP	GN	YE	RK 4T-*	2	<p>Diagram 2</p>
	250	≤200	0 to +70	IP 67	AL	WG	GN	YE	RK 4T-*	2	
	250	≤200	0 to +70	IP 67	AG	WG	GN	YE	RK 4T-*	2	
	250	≤200	0 to +70	IP 67	AG	WG	GN	YE	RK 4T-*	2	
10-300 VDC 20-250 VAC	20	≤400/300	-30 to +85	IP 67	AL	TP	GN	YE	RKM 30-*M	3	<p>Diagram 3</p>
	20	≤400/300	-25 to +70	IP 67	AG	WG	GN	YE	RKM 30-*M	3	
10-300 VDC 20-250 VAC	20	≤400/300	-30 to +85	IP 67	AL	TP	GN	YE	KB 3T-*	4	<p>Diagram 4</p>
	20	≤400/300	-25 to +70	IP 67	AG	WG	GN	YE	KB 3T-*	4	

Rectangular

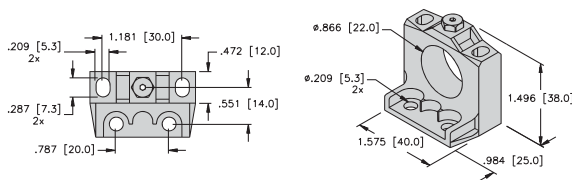
For material descriptions see page M36.

Inductive Rectangular Sensors



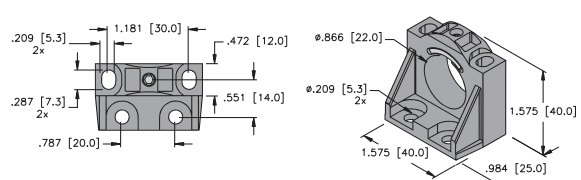
Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
CK40 - Embeddable/Nonembeddable, eurofast® Connector 	Bi 15U-CK40-AD4X-H1144	M4280032	<i>Uprox+</i>	•	15	2-Wire DC	
	Ni 35U-CK40-AD4X-H1144	M4280232	<i>Uprox+</i>		35		
	Bi 15-CK40-AD4X-H1141 W/Bs2.1	M4465090		•	15		
	Ni 20-CK40-AD4X-H1141 W/BS2.1	M4465290			20		
	Bi 15U-CK40-AN6X2-H1141 W/BS 2.1	M1625690	M1625690	<i>Uprox</i>	•	15	3-Wire DC NPN
	Bi 20U-CK40-AN6X2-H1141 W/BS 2.1	M1627231	M1627231	<i>Uprox+</i>	•	20	
	Bi 30U-CK40-AN6X2-H1141 W/BS 4	M1625820	M1625820	<i>Uprox+</i>	•	30	
	Bi 15-CK40-AN6X2-H1141 W/BS 2.1	M1625190	M1625190		•	15	
	Ni 20-CK40-AN6X2-H1141 W/BS 2.1	M1625390	M1625390			20	
	Ni 25U-CK40-AN6X2-H1141 W/BS 2.1	M1625789	M1625789	<i>Uprox</i>		25	
	Ni 35U-CK40-AN6X2-H1141 W/BS 4	M1625810	M1625810	<i>Uprox</i>		35	
	Ni 50U-CK40-AN6X2-H1141 W/BS 4	M1625823	M1625823	<i>Uprox+</i>		50	
	Bi 15U-CK40-AP6X2-H1141 W/BS 2.1	M1625689	M1625689	<i>Uprox</i>	•	15	3-Wire DC PNP
	Bi 20U-CK40-AP6X2-H1141 W/BS 2.1	M1627288	M1627288	<i>Uprox+</i>	•	20	
	Bi 30U-CK40-AP6X2-H1141 W/BS 4	M1625829	M1625829	<i>Uprox+</i>	•	30	
	Bi 15-CK40-AP6X2-H1141 W/BS 2.1	M1625090	M1625090		•	15	
	Ni 20-CK40-AP6X2-H1141 W/BS 2.1	M1625290	M1625290			20	
	Ni 25U-CK40-AP6X2-H1141 W/BS 2.1	M1625790	M1625790	<i>Uprox</i>		25	
	Ni 35U-CK40-AP6X2-H1141 W/BS 4	M1625800	M1625800	<i>Uprox</i>		35	
	Bi 15-CK40-VN4X2-H1141 W/BS 2.1	M1550190	M1550190	<i>Comp. Outputs</i>	•	15	4-Wire DC NPN
Ni 20-CK40-VN4X2-H1141 W/BS 2.1	M1550390	M1550390	<i>Comp. Outputs</i>		20		
Ni 50U-CK40-VN4X2-H1141 W/BS 2.1	M1625806	M1625806	<i>Uprox+</i> /Comp. Outputs		50		
Bi 15-CK40-VP4X2-H1141 W/BS 2.1	M1550091	M1550091	<i>Comp. Outputs</i>	•	15	4-Wire DC PNP	
Ni 20-CK40-VP4X2-H1141 W/BS 2.1	M1550290	M1550290	<i>Comp. Outputs</i>		20		
Ni 35U-CK40-VP6X2-H1141	M1625815	M1625815	<i>Uprox</i>		35		
Ni 50U-CK40-VP4X2-H1141 W/BS 2.1	M1538302	M1538302	<i>Uprox+</i> Comp. Outputs				
Bi 15-CK40-Y1X-H1141	M4065000	M4065000		•	15	2-Wire DC NAMUR	

Note: 1. BS2.1 is the standard mounting bracket for CK40 unless noted differently.



BS 2.1 Mounting Bracket

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



BS 4 Mounting Bracket

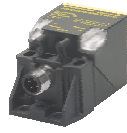


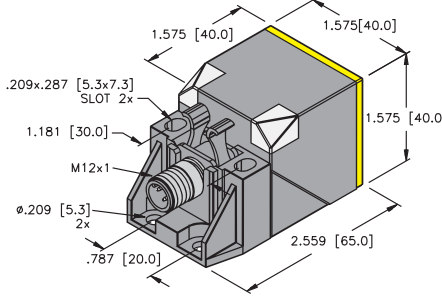


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4.23T-*	1	Diagram 1
	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4.23T-*	1	
	150	≤100	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.2T-*	2	
	200	≤100	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.2T-*	2	
10-30 VDC	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	RK 4T-*	3	Diagram 2 Diagram 3 Diagram 4 Diagram 5
	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	3	
	250	≤200	-10 to +60	IP 68	PBT	PBT	GN	YE	RK 4T-*	3	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	3	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	3	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	RK 4T-*	3	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	RK 4T-*	3	
10-30 VDC	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	RK 4T-*	4	Diagram 6 Diagram 7
	250	≤200	-20 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	4	
	250	≤200	-10 to +60	IP 68	PBT	PBT	GN	YE	RK 4T-*	4	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	4	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4T-*	4	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	RK 4T-*	4	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	RK 4T-*	4	
10-65 VDC	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	5	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	5	
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	5	
10-65 VDC	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	6	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	6	
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	6	
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	6	
5-30 VDC	150	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	RK 4.21T-*	7	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
QV40 - Embeddable/Nonembeddable, eurofast[®] Connection 	Bi20U-QV40-AP6X2-H1141	M1627245		20	3-Wire DC PNP
	Ni50U-QV40-AP6X2-H1141	M1625853		50	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



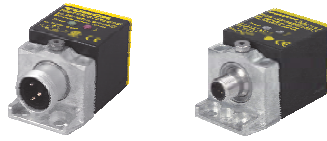
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	0 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	<p>Diagram 1</p>
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	

Rectangular

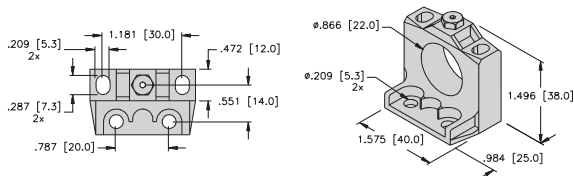
* Length in meters.

For material descriptions see page M36.

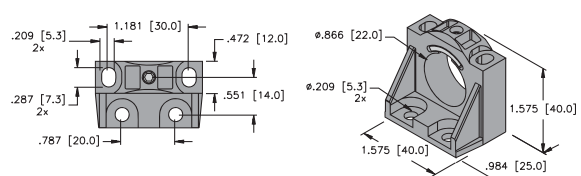
Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
CK40 - Embeddable/Nonembeddable, minifast® Connector 	Bi15U-CK40-ADZ30X2-B1131 W/BS 2.1	M4280090	<i>Uprox</i>	•	15	2-Wire AC/DC Short-Circuit Protected	
	Ni25U-CK40-ADZ30X2-B1131 W/BS 2.1	M4280290	<i>Uprox</i>		25		
	Ni35U-CK40-ADZ30X2-B1131 W/BS 4	M4280410	<i>Uprox</i>		35		
	CK40 - Embeddable/Nonembeddable, microfast® Connector 	Bi15-CK40-AZ3X2-B1131 W/BS 2.1	M1335091		•	15	2-Wire AC/DC
		Ni20-CK40-AZ3X2-B1131 W/BS 2.1	M1335291			20	
		Bi15-CK40-ADZ30X2-B3131/S34 W/BS 2.1	M4244290	WFI	•	15	2-Wire AC/DC Short-Circuit Protected
CK40 - Embeddable/Nonembeddable, microfast® Connector 	Bi15-CK40-AZ3X2-B3131 W/BS 2.1	M1335095		•	15	2-Wire AC/DC	
	Ni20-CK40-AZ3X2-B3131 W/BS 2.1	M1335290			20		



BS 2.1 Mounting Bracket



BS 4 Mounting Bracket

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams	
10-300 VDC 20-250 VAC	60	≤400/300	-30 to +85	IP 68	PBT	PBT	GN	YE	RKM 30-*M	1	Diagram 1 	
	60	≤400/300	-30 to +85	IP 67	PBT	PBT	GN	YE	RKM 30-*M	1		
	60	≤400/300	-30 to +85	IP 68	PBT	PBT	GN	YE	RKM 30-*M	1		
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 30-*M	1		Diagram 2
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 30-*M	1		
10-300 VDC 20-250 VAC	60	≤400/300	-30 to +85	IP 68	PBT	PBT	GN	YE	KB 3T-*	2		Diagram 1
	60	≤400/300	-30 to +85	IP 67	PBT	PBT	GN	YE	KB 3T-*	2		
10-300 VDC 20-250 VAC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	2		
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	2		
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	2		

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CP40 - Embeddable/Nonembeddable, Terminal Chamber 	Bi 15-CP40-AD4X	M4477000		•	15	2-Wire DC
	Ni 20-CP40-AD4X	M4477100			20	
	Bi 15U-CP40-AN6X2	M1623512	Uprox	•	15	3-Wire DC NPN
	Bi 15-CP40-AN6X2	M1623000		•	15	
	Bi 20U-CP40-AN6X2	M1625828	Uprox+	•	20	
	Bi 30U-CP40-AN6X2	M1625827	Uprox+	•	30	
	Ni 20-CP40-AN6X2	M1623100			20	
	Ni 25U-CP40-AN6X2	M1623711	Uprox		25	
	Ni 40U-CP40-AN6X2	M1623610	Uprox, Ext. Range		40	
	Bi 15-CP40-AN6X2/S97	M1623001	Low Temp. -40°C	•	15	
	Ni 50U-CP40-AN6X2	M1625824	Uprox+		50	
	Bi 15U-CP40-AP6X2	M1623502	Uprox	•	15	
	Bi 15-CP40-AP6X2	M1603000		•	15	
	Bi 20U-CP40-AP6X2	M1625826	Uprox+	•	20	
	Bi 30U-CP40-AP6X2	M1625825	Uprox+	•	30	
	Ni 20-CP40-AP6X2	M1603100			20	
	Ni 25U-CP40-AP6X2	M1623701	Uprox		25	
	Ni 40U-CP40-AP6X2	M1623602	Uprox		40	
	Ni 50U-CP40-AP6X2	M1625842	Uprox+		50	
			Ext. Range			
	Bi 15U-CP40-VN4X2	M1540511	Uprox	•	15	4-Wire NPN
	Bi 15-CP40-VN4X2	M1525000	Comp. Outputs	•	15	
	Bi 15-CP40-VN4X2/S100	M1514400	High Temp. 100°C	•	15	
	Bi 20-CP40-VN4X2	M1579221	Ext. Range	•	20	
	Ni 20-CP40-VN4X2	M1525100	Comp. Outputs		20	
	Ni 20-CP40-VN4X2/S100	M1527200	High Temp. 100°C		20	
	Ni 35-CP40-VN4X2	M1525400	Comp. Outputs		35	
	Ni 40U-CP40-VN4X2	M1540611	Uprox, Ext. Range		40	
	Ni 50U-CP40-VN4X2	M1625807	Uprox		50	
	Bi 15U-CP40-VP4X2	M1540501	Uprox	•	15	4-Wire PNP
	Bi 15-CP40-VP4X2	M1501000	Comp. Outputs	•	15	
	Bi 15-CP40-VP4X2/S100	M1501900	High Temp. 100°C	•	15	
	Bi 20-CP40-VP4X2	M1501200	Ext. Range	•	20	
	Ni 20-CP40-VP4X2	M1501100	Comp. Outputs		20	
	Ni 20-CP40-VP4X2/S100	M1502000	High Temp. 100°C		20	
	Ni 35-CP40-VP4X2	M1501400	Comp. Outputs		35	
	Ni 40U-CP40-VP4X2	M1540601	Uprox, Ext. Range		40	
	Ni 50U-CP40-VP4X2	M1538303	Uprox		50	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	150	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	- - - -	1	Diagram 1
	150	≤100	-25 to +70	IP 67	PBT	PBT	N/A	YE	- - - -	1	
10-30 VDC	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	2	Diagram 2
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	N/A	2	
	250	≤200	-10 to +60	IP 68	PBT	PBT	GN	YE	N/A	2	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	2	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	2	
	250	≤200	-40 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
10-30 VDC	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	N/A	5	Diagram 3
	250	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	N/A	3	
	250	≤200	-10 to +60	IP 68	PBT	PBT	GN	YE	N/A	3	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	3	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	3	
10-65 VDC	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	4	Diagram 4
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	
	150	≤200	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	4	
	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	
	150	≤200	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	4	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	4	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	4	
10-65 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	5	Diagram 5
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
	150	≤200	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	5	
	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
	150	≤200	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	5	
	150	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	5	
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	5	

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
	Ni30-CP40-VP4X2/S109	M1512521	<i>Time Delay</i>		30	4-Wire PNP
	Bi15-CP40-FDZ30X2	M4224100	Prog. Outputs	•	15	2-Wire AC/DC
	Bi15-CP40-FDZ30X2/S97	M4226600	<i>Low Temp -40°C</i>	•	15	
	Bi15U-CP40-FDZ30X2	M4280601	Uprox	•	15	
	Ni20-CP40-FDZ30X2	M4224200	Prog. Outputs		20	
	Ni35-CP40-FDZ30X2	M4224500	Prog. Outputs		35	
	Ni40U-CP40-FDZ30X2	M4280801	Uprox		40	
	Bi15-CP40-FZ3X2	M1341000	Prog. Outputs	•	15	2-Wire AC/DC
	Bi15-CP40-FZ3X2/S97	M1341010	<i>Low Temp. -40°C</i>	•	15	
	Bi15-CP40-FZ3X2/S100	M1377600	<i>High Temp. 100°C</i>	•	15	
	Ni20-CP40-FZ3X2	M1341100	Prog. Outputs		20	
	Ni20-CP40-FZ3X2/S100	M1377500	<i>High Temp. 100°C</i>		20	
	Ni35-CP40-FZ3X2	M1341300	Prog. Outputs		35	
	Ni40-CP40-FZ3X2/S100	M1374802	<i>High Temp. 100°C</i>		40	
	Bi15-CP40-FZ3X2/S109	M1373700	<i>Time Delay</i>	•	15	2-Wire AC
	Bi15-CP40-FZ3X2/S110	M1373500	<i>Time Delay</i>	•	15	
	Ni20-CP40-FZ3X2/S109	M1374500	<i>Time Delay</i>		20	
	Ni20-CP40-FZ3X2/S110	M1374600	<i>Time Delay</i>		20	
	Ni30-CP40-FZ3X2/S109	M1374700	<i>Time Delay</i>		30	
	Ni30-CP40-FZ3X2/S110	M1374400	<i>Time Delay</i>		30	
	Bi15-CP40-VDZ3X2	M4222700	Comp. Outputs	•	15	4-Wire AC/DC
	Bi15-CP40-Y1X	M1012000		•	15	NAMUR
	Ni20-CP40-Y1X	M1012100			20	
Ni35-CP40-Y1X/S100	M1011126	<i>High Temp. 100°C</i>		35		

WFI = Weld-Field Immune Sensors.

"/S109" Designates on Delay.

"/S110" Designates off Delay.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



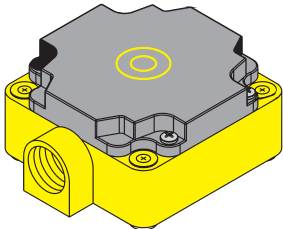
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	--	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	1	Diagram 1
10-300 VDC 20-250 VAC	60	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	Diagram 2
	60	≤400/300	-40 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	60	≤400/300	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	2	
	60	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	60	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	60	≤400/300	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	2	
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	Diagram 3
	20	≤400/300	-40 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	Diagram 4
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	
20-250 VAC 20-320 VDC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	
5-30 VDC	150	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	- - - -	4	
	150	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	- - - -	4	
	80	Remote	-25 to +100	IP 67	PBT	PBT	N/A	YE	- - - -	4	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CP80 - Embeddable/Nonembeddable, Terminal Chamber 	Ni75U-CP80-AN6X2	M1623811	Uprox		75	3-Wire DC NPN
	Ni75U-CP80-AP6X2	M1623801	Uprox		75	3-Wire DC PNP
	Bi40-CP80-VN4X2	M1579800	Comp. Outputs	•	40	4-Wire DC NPN
	Ni40-CP80-VN4X2	M1525500	Comp. Outputs		40	
	Ni50-CP80-VN4X2	M1525600	Comp. Outputs		50	
	Ni75U-CP80-VN4X2	M1540811	Uprox		75	
	Bi40-CP80-VP4X2	M1569800	Comp. Outputs	•	40	4-Wire DC PNP
	Ni40-CP80-VP4X2	M1501500	Comp. Outputs		40	
	Ni50-CP80-VP4X2	M1501600	Comp. Outputs		50	
	Ni75U-CP80-VP4X2	M1540801	Uprox		75	
	Bi40-CP80-FDZ30X2	M4230901	Prog. Outputs	•	40	2-Wire AC/DC Short-Circuit Protected
	Ni50-CP80-FDZ30X2	M4232100	Prog. Outputs		50	
	Ni50-CP80-FDZ30X2/S100	M4229000	High Temp. 100°C		50	
	Ni75U-CP80-FDZ30X2	M4280901	Uprox		75	
	Bi40-CP80-FZ3X2	M1340401	Prog. Outputs	•	40	2-Wire AC/DC
	Ni40-CP80-FZ3X2	M1341500	Prog. Outputs		40	
	Ni40-CP80-FZ3X2/S100	M1345300	High Temp. 100°C		40	
	Ni50-CP80-FZ3X2	M1341600	Prog. Outputs		50	
	Ni40-CP80-Y1	M1040000			40	2-Wire NAMUR
	Ni50-CP80-Y1	M1040100			50	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



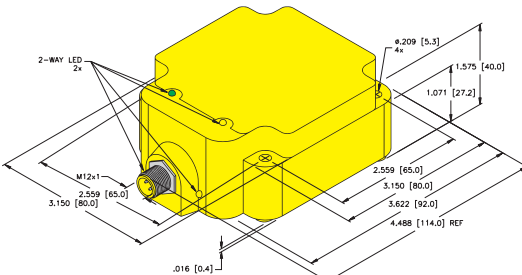
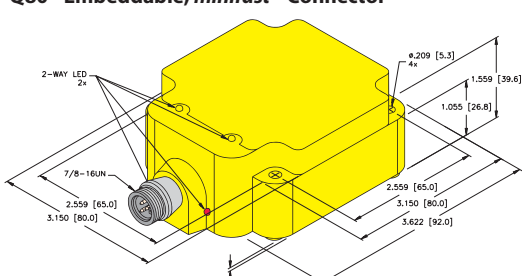
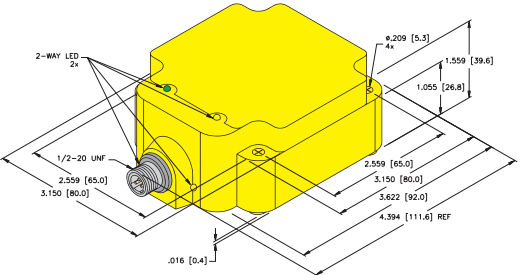
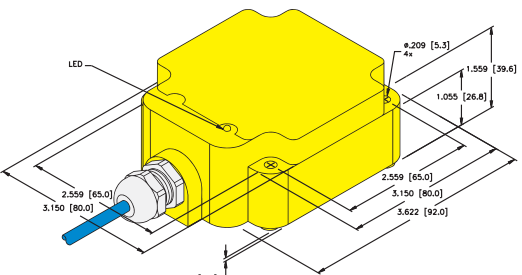
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	1	Diagram 1
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	2	Diagram 2
10-65 VDC	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	Diagram 3
	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	
	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	3	
10-65 VDC	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	Diagram 4
	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	
	100	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	4	
	250	≤200	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	4	
20-250 VAC 10-300 VDC	60	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	Diagram 5
	100	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
	20	≤400/300	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	5	
	25	≤400/300	-30 to +85	IP 67	PBT	PBT	GN	YE	- - - -	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	Diagram 6
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
	20	≤400/300	-25 to +100	IP 67	PBT	PBT	GN	YE	- - - -	5	
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	5	
5-30 VDC	100	Remote	-25 to +70	IP 67	PBT	PBT	N/A	N/A	- - - -	6	
	100	Remote	-25 to +70	IP 67	PBT	PBT	N/A	N/A	- - - -	6	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output		
Q80 - Embeddable/Nonembeddable, eurofast® Connector 	Bi50U-Q80-AN6X2-H1141	M1608944	<i>Uprox+</i>	•	50	3-Wire DC NPN		
	Ni75U-Q80-AN6X2-H1141	M1625856	<i>Uprox+</i>		75			
	Bi50U-Q80-AP6X2-H1141	M1608940	<i>Uprox+</i>	•	50	3-Wire DC PNP		
	Ni75U-Q80-AP6X2-H1141	M1625855	<i>Uprox+</i>		75			
	Bi50U-Q80-VN4X2-H1141	M1562001	<i>Uprox+</i>	•	50	4-Wire DC NPN		
	Ni75U-Q80-VN4X2-H1141	M1625858	<i>Uprox+</i>		75			
Q80 - Embeddable, minifast® Connector 	Bi50-Q80-ADZ30X2-B1131	M4200310		•	50	2-Wire AC/DC Short-Circuit Protected		
	Q80 - Embeddable, microfast® Connector 	Bi50-Q80-ADZ30X2-B3131	M4200311		•	50	2-Wire AC/DC Short-Circuit Protected	
		CP80 - Embeddable/Nonembeddable, Terminal Chamber 	Ni60-Q80-Y1X	M1008700			60	2-Wire NAMUR

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	Diagram 1
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	1	
10-30 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	2	Diagram 2
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4T-*	2	
10-65 VDC	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	3	Diagram 3
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	3	
10-65 VDC	250	250	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	4	Diagram 4
	250	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	4	
	250	250	-25 to +70	IP 68	PBT	PBT	GN	YE	RK 4.4T-*	4	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 30-*M	5	Diagram 5
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 30-*M	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	6	Diagram 6
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	6	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	6	Diagram 7
	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	KB 3T-*	6	
5-30 VDC	100	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	2 M/PVC	7	Diagram 7
	100	Remote	-25 to +70	IP 67	PBT	PBT	N/A	YE	2 M/PVC	7	

Rectangular

For material descriptions see page M36.

Inductive Rectangular Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
	Ni 60-K90-VN4X-B2141	M1520300	Comp. Outputs		60	4-Wire DC NPN
	Ni 60-K90-VP4X-B2141	M1510300	Comp. Outputs		60	4-Wire DC PNP
	Ni 60-K90-AZ3X-B2131	M1354200			60	2-Wire AC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-65 VDC	60	≤200	-25 to +70	IP 67	PUR	PUR	N/A	YE	RK 40-*M	1	<p>Diagram 1</p>
10-65 VDC	60	≤200	-25 to +70	IP 67	PUR	PUR	N/A	YE	RK 40-*M	2	<p>Diagram 2</p>
20-250 VAC	20	≤500	-25 to +70	IP 67	PBT	PBT	N/A	YE	RK 30-*M	3	<p>Diagram 3</p>

Rectangular

For material descriptions see page M36.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/ Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	60	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	1	<p>Diagram 1</p>
10-65 VDC	60	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	<p>Diagram 2</p>
	250	≤200	-30 to +85	IP 68	PBT	PBT	GN	YE	- - - -	2	<p>Diagram 3</p>
10-300 VDC 20-250 VAC	100	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	<p>Diagram 3</p> <p>-OR-</p>
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	<p>Diagram 3</p>
5-30 VDC	100	Remote	-25 to +70	IP 67	PBT	PBT	N/A	N/A	- - - -	4	<p>Diagram 4</p>

Rectangular

For material descriptions see page M36.

Inductive Sensors

Inductive Barrel Sensor Selection Guide



Embeddable/Nonembeddable Metal Barrel Quick Disconnect					
Housing	4 mm	5 mm	6.5 mm	8 mm	8 mm
Sensing Range	1 mm	1 mm	1.5 - 6 mm	1.5 - 6 mm	1.5 - 6 mm
Pages	C11	C11	C11 - C13	C13	C15 - C24
Features					



Embeddable/Nonembeddable Metal Barrel Potted-In Cable								
Housing	Side Sensing	3 mm	4 mm	5 mm	6.5 mm	8 mm	Side Sensing	8 mm
Sensing Range	1 - 1.5 mm	1 mm	1 mm	1 mm	1.5 - 6 mm	1.5 - 6 mm	1.5 mm	1.5 - 6 mm
Pages	C25	C27	C27	C27	C29 - C32	C33 - C35	C37	C37 - C46
Features								

Inductive Barrel Sensor Selection Guide



Embeddable/Nonembeddable Metal Barrel Quick Disconnect				
Housing	12 mm	18 mm	30 mm	47 mm
Sensing Range	2 - 10 mm	5 - 15 mm	10 - 30 mm	20 - 25 mm
Pages	C49 - C66	C89 - C114	C145 - C160	C187
Features				

Barrels



Embeddable/Nonembeddable Metal Barrel Potted-In Cable					
Housing	11 mm	12 mm	18 mm	30 mm	47 mm
Sensing Range	2 - 5 mm	2 - 10 mm	5 - 15 mm	10 - 30 mm	20 - 25 mm
Pages	C47	C67 - C80	C115 - C130	C161 - C172	C187
Features					

Inductive Sensors

Inductive Barrel Sensor Selection Guide



Embeddable/Nonembeddable Plastic Barrel Quick Disconnect				
Housing	12 mm	18 mm	30 mm	40 mm
Sensing Range	2 - 8 mm	5 - 12 mm	10 - 20 mm	30 mm
Pages	C81	C133 - C136	C175	C185



Embeddable/Nonembeddable Plastic Barrel Potted-In Cable					
Housing	12 mm	18 mm	20 mm	30 mm	40 mm
Sensing Range	2 - 8 mm	5 - 12 mm	10 mm	10 - 20 mm	20 mm
Pages	C83 - C86	C137 - C140	C143	C177 - C180	C183

Inductive Barrel Sensor Selection Guide



Embeddable/Nonembeddable Metal Terminal Chamber

Housing	12 mm	18 mm	30 mm	47 mm
Sensing Range	2 - 8 mm	5 - 12 mm	10 - 20 mm	25 - 40 mm
Pages	C79	C131	C173	C189



Embeddable/Nonembeddable Plastic Terminal Chamber

Housing	12 mm	18 mm	20 mm	30 mm	40 mm
Sensing Range	2 - 8 mm	5 - 12 mm	10 mm	10 - 20 mm	15 - 30 mm
Pages	C87	C141	C143	C181	C183

Barrels

Inductive Sensors

Inductive Sensor Part Number Key

B I 10 U				-			G T 30			-			A DZ 30 X2			Wiring Option*	Special Option Code*
Mounting													Load Dump				
B = embeddable N = nonembeddable													LD = load dump				
Principle of Operation													Number of LEDs				
I = inductive													(blank) = no LED's X = 1 LED X2 = 2 LED's				
Rated Operating Distance (mm)													Voltage Range				
													AC/DC: (No SCP)**				
Sensing Characteristics													3 = 20-250 VAC, 10-300 VDC 14 = 20-132 VAC, 10-140 VDC 31 = 20-250 VAC, 10-300 VDC, plastic barrel 33 = 35-250 VAC, grounded metal barrel				
FE = ferrous only NF = nonferrous only U = <i>uprox</i> ® Sensor													AC/DC: (Latched SCP)				
Housing Material Modifier													30 = 20-250 VAC, 10-300 VDC 32 = 20-250 VAC, 10-300 VDC 40 = 20-140 VAC/DC, high off-state current				
E = stainless steel													DC:				
Housing Style													4 = 10-65 VDC, polarity protected, pulsed SCP** 6 = 10-30 VDC, polarity protected, pulsed SCP 7 = 10-30 VDC, low voltage drop, no SCP 8 = 20-30 VDC, polarity protected, pulsed SCP 41 = 10-55 VDC, polarity protected, pulsed SCP 44 = 10-55 VDC 45 = 8.4-64 Volts 61 = 10-30 VDC, polarity protected, pulsed SCP				
Barrel - Metal													Output				
G = full threading, generally chrome plated brass GS = threaded side sensor H = smooth, chrome plated brass or stainless steel HS = smooth side sensor M = partial threading, chrome plated brass													D = 2-wire DC (transistor output) DZ = 2-wire AC/DC, (power MOSFET output) G = 2-wire DC, low voltage drop N = NPN transistor (current sinking) P = PNP transistor (current sourcing) R = relay output Z = 2-wire AC or 2-wire AC/DC				
Barrel - Plastic													Output Function				
K = smooth P = full threading PT = PVDF, full threading S = partial threading SK = side sensing / slot sensor, plastic housing T = right angle													A = normally open (N.O.) DA = dynamic output (ring sensor), normally open F = connection programmable (N.O. or N.C.) R = normally closed (N.C.) U = jumper programmable (N.O. or N.C.) V = complementary outputs: one N.O., one N.C. Y0 = NAMUR output, requires switching amplifier Y1 = NAMUR output, requires switching amplifier				
Primary Barrel Modifier																	
T = PTFE® coated																	
Housing Diameter or Height (mm)																	
Secondary Barrel Modifier																	
CA = conduit adaptor E = extended barrel length EE = extra long barrel length F = stainless steel face FE = stainless steel face, extended barrel length FM = stainless steel face, medium barrel length FEE = stainless steel face, extra long barrel length H = <i>stoneface</i> ® K = short barrel length M = medium barrel length S = Side sensing SE = extended length SK = right-angle terminal chamber SR = straight terminal chamber T = barb fitting at cable entry TC = terminal chamber WD = washdown IP 67/IP 68/IP 69K																	

NOTE: Part Number Keys are to assist in IDENTIFICATION ONLY.
Verify New Part Numbers with Factory; Some Configurations Are Not Possible.
* See next page for Wiring Options and Special Option Codes

A) Connectorized Sensor

Bi2-M12-AN6X - **H1 1 4 1**

Connector Family

- B1 = *minifast*®, 7/8"-16UN, metal, male
- B2 = *minifast*®, 7/8"-16UN, plastic, male
- B3 = *microfast*®, 1/2"-20UNF, metal, male
- H1 = *eurofast*®, M12x1, metal or plastic, male
- V1 = *picofast*®, snap and M8x1, metal, male (Q08 snap only)
- V2 = *picofast*®, snap and M8x1, male (Q08 only)

Connector/Sensor Transition

- 1 = straight
- 3 = straight with adapter
- 4 = right-angle with adapter

Factory Code

examples:

- 0 = non-standard wiring
- 1 = standard wiring
- 3 = N.C. DC output on pin 4 (for US)
- 4 = N.O. 2 wire DC output on pin 4

Number of Pins

- 3 = 3
- 4 = 4
- 5 = 5

B) Potted Cable

Bi2-G12-AN6X **7M**

Cable Length

- (blank) = 2 meter cable
- 7M = 7 meter cable
- *M = custom cable lengths available

C) Potted Cable with Molded Connector

Bi2-G12-Y0X - **0.2M** - **RS 4.21T**

Cable Length

examples:

- 0.2M = 0.2 meters (minimum)
- 2M = 2 meters
- *M = custom cable lengths available

Standard Cordset Connector

- AC:** RSM 30 = *minifast*, 7/8"-16UN, metal, male, 3-conductor
- SB 3T = *microfast*, 1/2"-20UNF, metal, male, 3-conductor
- DC:** RS 4T = *eurofast*, M12x1, metal or plastic, male, 3-conductor
- RS 4.2T = *eurofast*, M12x1, metal or plastic, male, 2-conductor
- RS 4.21T = *eurofast*, M12x1, metal or plastic, male, NAMUR, 2-conductor
- RS 4.4T = *eurofast*, M12x1, metal or plastic, male, 4-conductor
- RSM 40 = *minifast*, 7/8"-16UN, metal, male, 4-conductor
- PSG 3 = *picofast*, snap, plastic, male, 3-conductor
- PSG 3M = *picofast*, M8x1, metal, male, 3-conductor

Option Codes for Special or Custom-Built Sensors

Bi 2-S12-AN7X /S100 OR **Bi10R-W30-DAN6X-H1141 /F2**

examples:

- /S34 = weld field immune
- /S90 = PUR cable
- /S97 = -40°C (-40°F) operating temperature
- /S100 = +100°C (+212°F) operating temperature
- /S120 = +120°C (+248°F) operating temperature
- /S139 = submersible
- /S250 = without potentiometer (capacitive only)
- /S907 = +160°C (+320°F) operating temperature
- /S1589 = barrel sensors with *weldguard*® laminate
- /S1590 = CA40 sensor with *weldguard* laminate
- /S1610 = barrel sensors with *weldguard* sleeve and *weldguard* laminate

example:

- /F2 = alternate oscillator frequency

Inductive Sensors

Mounting

TURCK inductive proximity sensors are manufactured with a shielded coil, designated by “Bi” in the part number, and a nonshielded coil, designated by “Ni” in the part number. Embeddable (shielded) units may be safely flush-mounted in metal. Nonembeddable (nonshielded) units require a metal free area around the sensing face. Because of possible interference of the electromagnetic fields generated by the oscillators, minimum spacing is required between adjacent or opposing sensors.

It is good engineering practice to mount sensors horizontally or with the sensing face looking down. Avoid sensors that look up wherever possible, especially if metal filings and chips are present.

Maximum Locknut Torque Specifications

The locknut torque should be considered for all threaded sensors to prevent the housing from being over stressed. The values below pertain to the locknut provided with each sensor. Liquid thread sealants of an anaerobic base, such as Loctite, are recommended if strong vibrations are likely.

Caution: Sensor barrels are typically brass. Consider break torque when selecting grade of thread sealant.

Barrel Size	Metal Barrel	Plastic Barrel
5 mm	5 Nm (3.7 ft-lb)	----
8 mm	10 Nm (7.4 ft-lb)	----
12 mm	10 Nm (11 ft-lb)	1 Nm (0.7 ft-lb)
18 mm	25 Nm (18 ft-lb)	2 Nm (1.4 ft-lb)
30 mm	90 Nm (66 ft-lb)	5 Nm (3.7 ft-lb)
47 mm	90 Nm (66 ft-lb)	----

Drill Hole Sizes for Metric Threads

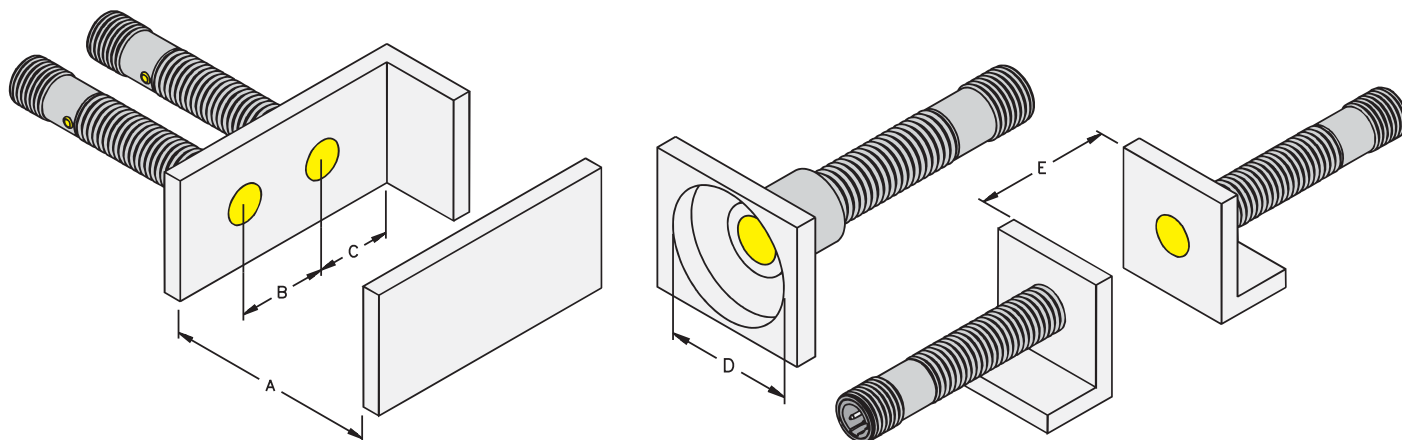
Thread Size	Pitch	Thru Hole (mm)	Tap Hole Dia. (mm)	Thru Hole (in)	Tap Hole Dia. (in)
M5 x 0.5	0.5	5.0	4.5	13/64	5/32
M8 x 1	1.0	8.0	7	21/64	1/4
M12 x 1	1.0	12.0	11	31/64	13/32
M18 x 1	1.0	18.0	17	23/32	41/64
M30 x 1.5	1.5	30.0	28	1-3/16	1-5/64
PG 9	1.41	15.2	14	5/8	1/2
PG 13.5	1.41	20.4	19	13/16	23/32
PG 36	1.59	47.0	45.5	1-7/8	1-47/64



Notes:

Inductive Sensors

Embeddable Mounting Considerations

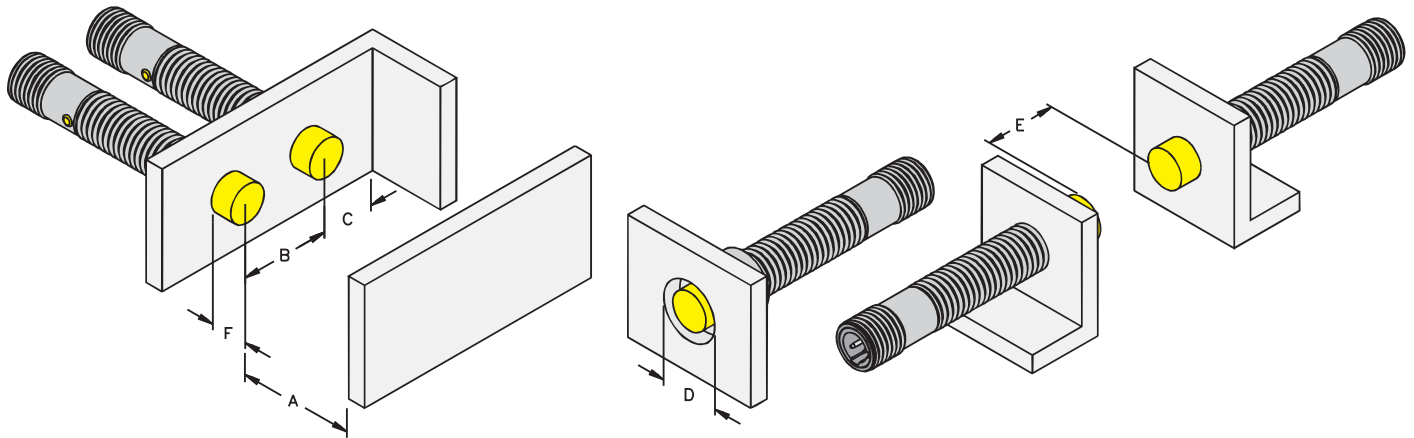


Flush Mountable

Sensor Type	Barrel Diameter	A	B	C	D	E
Bi 1	4.00	3.00	8.00	6.00	12.00	6.00
Bi 1	5.00	3.00	10.00	8.00	15.00	6.00
Bi 1.5U	6.50	5.00	13.00	10.00	20.00	9.00
Bi 1.5	6.50	5.00	13.00	10.00	20.00	9.00
Bi 2	6.50	6.00	13.00	10.00	20.00	12.00
Bi 1.5U	8.00	5.00	16.00	12.00	24.00	9.00
Bi 1.5	8.00	5.00	16.00	12.00	24.00	9.00
Bi 2	8.00	6.00	16.00	12.00	24.00	12.00
Bi 2	11.00	6.00	22.00	17.00	33.00	12.00
Bi 2	12.00	6.00	24.00	18.00	36.00	12.00
Bi 3U	12.00	9.00	24.00	18.00	36.00	18.00
Bi 3	12.00	9.00	24.00	18.00	36.00	18.00
Bi 4	12.00	12.00	24.00	18.00	36.00	24.00
Bi4U	12.00	12.00	24.00	18.00	36.00	24.00
Bi 5U	18.00	15.00	36.00	27.00	54.00	30.00
Bi 5	18.00	15.00	36.00	27.00	54.00	30.00
Bi 7	18.00	21.00	36.00	27.00	54.00	42.00
Bi 8U	18.00	24.00	36.00	27.00	54.00	48.00
Bi 8	18.00	24.00	36.00	27.00	54.00	48.00
Bi 10U	30.00	30.00	60.00	45.00	90.00	60.00
Bi 10	30.00	30.00	60.00	45.00	90.00	60.00
Bi 12	30.00	36.00	60.00	45.00	90.00	72.00
Bi 15	30.00	45.00	60.00	45.00	90.00	90.00
Bi15U	30.00	45.00	60.00	45.00	90.00	90.00
Bi 20	47.00	60.00	94.00	71.00	141.00	120.00
Bi 25	47.00	75.00	94.00	71.00	141.00	150.00

Dimensions are in mm.

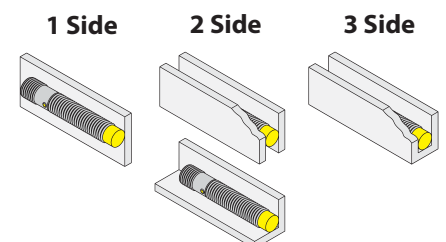
Nonembeddable Mounting Characteristics



Non-flush Mountable

Sensor Type	Barrel Diameter	A	B	C	D	E	F	1 Side	2 Side	3 Side
Ni 3	6.50	9.00	20.00	10.00	20.00	18.00	6.00			
Ni 3	8.00	9.00	24.00	12.00	24.00	18.00	6.00			
Ni 4U	8.00	12.00	24.00	12.00	24.00	24.00	8.00			
Ni 4	8.00	12.00	24.00	12.00	24.00	24.00	8.00			
Ni 5	11.00	15.00	33.00	17.00	33.00	30.00	10.00			
Ni 4	12.00	12.00	36.00	18.00	36.00	24.00	8.00			
Ni 5	12.00	15.00	36.00	18.00	36.00	30.00	10.00			
Ni 8U	12.00	24.00	36.00	18.00	36.00	48.00	16.00	Sr=6 mm*		
Ni 8	12.00	24.00	36.00	18.00	36.00	48.00	16.00			
Ni10U	12.00	30.00	1836.00	18.00	36.00	60.00	16.00			
Ni 8	18.00	24.00	54.00	27.00	54.00	48.00	16.00			
Ni 10	18.00	30.00	54.00	27.00	54.00	60.00	20.00			
Ni 12U	18.00	36.00	54.00	27.00	54.00	72.00	20.00	Sr=10 mm*	Sr=9 mm*	Sr=9 mm*
Ni 14	18.00	42.00	54.00	27.00	54.00	84.00	20.00			
Ni15U	18.00	45.00	54.00	27.00	54.00	90.00	20.00			
Ni 10	20.00	30.00	60.00	30.00	60.00	60.00	20.00			
Ni 15	30.00	45.00	90.00	45.00	90.00	90.00	20.00			
Ni 20U	30.00	60.00	90.00	45.00	90.00	120.00	25.00	Sr=15 mm*	Sr=12 mm*	Sr=11 mm*
Ni 20	30.00	60.00	90.00	45.00	90.00	120.00	20.00			
Ni30U	30.00	90.00	90.00	45.00	90.00	180.00	25.00			
Ni 20	40.00	60.00	120.00	60.00	120.00	120.00	40.00			
Ni 30	40.00	90.00	120.00	60.00	120.00	180.00	40.00			
Ni 25	47.00	75.00	141.00	71.00	141.00	150.00	40.00			
Ni 40	47.00	120.00	141.00	71.00	141.00	240.00	40.00			

Dimensions are in mm.
* Only DC sensors



Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
4 mm - Embeddable, Miniature Smooth, picofast® Quick Disconnect 	Bi 1-EH04-AN6X-V1331	S4608540		1	3-Wire DC NPN
	Bi 1-EH04-AP6X-V1331	S4608440		1	3-Wire DC PNP
	Bi 1-EH04-Y1-V1330	S1003044		1	2-Wire DC NAMUR
5 mm - Embeddable, Miniature Threaded, picofast Quick Disconnect 	Bi 1-EG05-AN6X-V1331	S4608740		1	3-Wire DC NPN
	Bi 1-EG05-AP6X-V1331	S4608640		1	3-Wire DC PNP
	Bi 1-EG05-Y1-V1331	S1003241		1	2-Wire DC NAMUR
6.5 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect 	Bi 1.5-EH6.5K-AN6X-V1131	S4610840	Short Barrel	1.5	3-Wire DC NPN
	Bi 2-EH6.5K-AN6X-V1131	S4610120	Short Barrel	2	
	Bi 1.5-EH6.5K-AP6X-V1131	S4610740	Short Barrel	1.5	3-Wire DC PNP
	Bi 1.5-EH6.5K-AP6X-V1131/S100	S4612003	High Temp. 100°C	1.5	
	Bi 2-EH6.5K-AP6X-V1131	S4610020	Short Barrel	2	
6.5 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect 	Bi 1.5-EH6.5-AN6X-V1131	S4612120		1.5	3-Wire DC NPN
	Bi 2-EH6.5-AN6X-V1131	S4612320		2	
	Bi 2U-EH6.5-AN6X-V1131	S4281180	Uprox	2	
	Bi 1.5-EH6.5-AP6X-V1131	S4612020		1.5	3-Wire DC PNP
	Bi 2-EH6.5-AP6X-V1131	S4612220		2	
	Bi 2U-EH6.5-AP6X-V1131	S4281160	Uprox	2	
	Bi 1.5-EH6.5-AP6X-V1131/S100	S4612002	High Temp. 100°C	1.5	
	Bi 1.5-EH6.5-Y1-V1130	S1004621		1.5	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 1
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	Diagram 2
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	Diagram 3
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +100	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	1000	≤150	-25 to +70	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	1000	≤150	-25 to +70	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +100	IP 67	SS	EPTR	N/A	YE	PKG 3Z-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	

Barrels

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
6.5 mm - Nonembeddable, Miniature Smooth, picofast® Quick Disconnect 	Ni 3-EH6.5K-AN6X-V1131	S4610320	<i>Short Barrel</i>	3	3-Wire DC NPN
	Ni 3-EH6.5K-AP6X-V1131	S4610220	<i>Short Barrel</i>	3	3-Wire DC PNP
6.5 mm - Nonembeddable, Miniature Smooth, picofast Quick Disconnect 	Ni 3-EH6.5-AN6X-V1131	S4612520		3	3-Wire DC NPN
	Ni 4U-EH6.5-AN6X-V1131	S4600683	<i>Uprox</i>	4	
	Ni 3-EH6.5-AP6X-V1131	S4612420		3	3-Wire DC PNP
	Ni 4U-EH6.5-AP6X-V1131	S4600681	<i>Uprox</i>	4	
Ni 6U-EH6.5-AP6X-V1131	S4631510	<i>Uprox+</i>	6		
8 mm - Nonembeddable, Miniature Smooth, picofast Quick Disconnect 	Ni 2-H08K-AN6X-V1131	S1614800	<i>Short Barrel</i>	2	3-Wire DC NPN
	Ni 2-H08K-AP6X-V1131	S1604800	<i>Short Barrel</i>	2	3-Wire DC PNP
8 mm - Embeddable, Miniature Smooth, picofast Quick Disconnect 	Bi 1.5-H08K-AN6X-V1131	S1604340	<i>Short Barrel</i>	1.5	3-Wire DC NPN
	Bi 1.5-H08K-AP6X-V1131	S1604330	<i>Short Barrel</i>	1.5	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



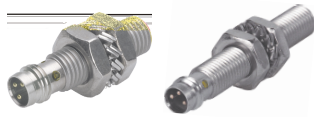
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	<p>Diagram 1</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	<p>Diagram 2</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	1000	≤150	0 to +70	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2	
10-30 VDC	5000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	5000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
10-30 VDC	5000	≤150	-25 to +70	IP 67	SS	PBT	N/A	YE	PKG 3Z-*	1	
10-30 VDC	5000	≤150	-25 to +70	IP 67	SS	PBT	N/A	YE	PKG 3Z-*	2	

Barrels

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, picofast® Quick Disconnect 	Bi 1.5-EG08K-AN6X-V1131	S4672540	Short Barrel	1.5	3-Wire DC NPN
	Bi 2-EG08K-AN6X-V1131	S4669550	Short Barrel	2	
	Bi 1.5-EG08K-AP6X-V1131	S4672440	Short Barrel	1.5	3-Wire DC PNP
	Bi 2-EG08K-AP6X-V1131	S4669450	Short Barrel	2	
	Bi 2-EG08K-AP6X-V1131/S957*	S4669452	Short Barrel	2	
Bi 1.5-EG08K-Y1-V1131	S1003630	Short Barrel	1.5	2-Wire DC NAMUR	
8 mm - Embeddable, Miniature Threaded, picofast Quick Disconnect 	Bi 1.5-EG08-AN6X-V1131	S4602350		1.5	3-Wire DC NPN
	Bi 1.5U-EG08-AN6X-V1131	S4600530	Uprox	1.5	
	Bi 2-EG08-AN6X-V1131	S4602150	Ext. Range	2	
	Bi 2U-EG08-AN6X-V1131	S4602036	Uprox	2	
	Bi 1.5-EG08-AP6X-V1131	S4602220		1.5	3-Wire DC PNP
	Bi 1.5U-EG08-AP6X-V1131	S4600520	Uprox	1.5	
	Bi 2-EG08-AP6X-V1131	S4602050	Ext. Range	2	
	Bi 2-EG08-AP6X-V1131/S1589	S4602050-1	weldguard®	2	
	Bi 2-EGT08-AP6X-V1131/S100	S4602263	SS, PTFE	2	
	Bi 2-EGT08-AP6X-V1131/S100/S1589	S4602072	SS PTFE, weldguard	2	
Bi 2U-EG08-AP6X-V1131	S4602033		2		
Bi 1.5-EG08-Y1-V1131	S1003530		1.5	2-Wire DC NAMUR	
8 mm - Embeddable, Miniature Threaded, picofast Quick Disconnect 	Bi 2-G08K-AP6X-V1131	S4672803	Ext. Range, Short Barrel	2	3-Wire DC PNP
8 mm - Embeddable, Miniature Threaded, picofast Quick Disconnect 	Bi 2-G08-AP6X-V1131	S4602002			3-Wire DC PNP

*Full flush mounting in steel without reducing 2 mm sensing range.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 1
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	Diagram 2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	Diagram 3
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	1000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	PKG 3M-*/S1587	2	
	3000	≤150	-25 to +100	IP 67	SS	TC	N/A	YE	PKG 3Z-*	2	
	3000	≤150	-25 to +100	IP 67	SS	WG	N/A	YE	PKG 3M-*/S1587	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PBT	N/A	YE	PKG 3Z-*	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS		N/A	YE	PKG 3Z-*	2	

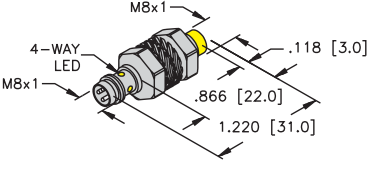
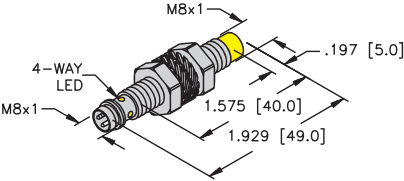
Barrels

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded, picofast® Quick Disconnect 	Ni 3-EG08K-AN6X-V1131	S4669750	<i>Short Barrel</i>	3	3-Wire DC NPN
	Ni 3-EG08K-AP6X-V1131	S4669650	<i>Short Barrel</i>	3	3-Wire DC PNP
	Ni 3-EG08K-Y1-V1130	S1003721	<i>Short Barrel</i>	3	2-Wire DC NAMUR
8 mm - Nonembeddable, Miniature Threaded, picofast Quick Disconnect 	Ni 3-EG08-AN6X-V1131	S4602850		3	3-Wire DC NPN
	Ni 4U-EG08-AN6X-V1131	S4600630	<i>Uprox</i>	4	
	Ni 6U-EG08-AN6X-V1131	S4635804	<i>Uprox+</i>	6	
	Ni 3-EG08-AP6X-V1131	S4602750		3	3-Wire DC PNP
	Ni 4U-EG08-AP6X-V1131	S4600620	<i>Uprox</i>	4	
	Ni 6U-EG08-AP6X-V1131	S4635801	<i>Uprox+</i>	6	
Ni 3-EG08-Y1-V1130	S1003732			3	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	Diagram 2
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 3
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	1	
	1000	≤150	0 to +70	IP 68	SS	LCP	N/A	YE	PKG 3M-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	PKG 3Z-*	2	
	1000	≤150	0 to +70	IP 68	SS	LCP	N/A	YE	PKG 3M-*	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	PKG 3Z-*	3	

*Length in meters.

For material descriptions see page M36.

Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, eurofast® Quick Disconnect	Bi 2-EG08K-AG41X-H1341	S4562011	<i>Short Barrel</i>	2	2-Wire DC
	Bi 2-EG08K-AG41X-H1341/S1589	S4562090	weldguard®	2	
	Bi 2-EGT08K-AG41X-H1341	S4602543	SS, PTFE Coated	2	
	Bi 2-EGT08K-AG41X-H1341/S1589	S4602599	SS, PTFE, weldguard	2	
	Bi 1.5-EG08K-AN6X-H1341	S4669150	<i>Short Barrel</i>	1.5	3-Wire DC NPN
	Bi 2-EG08K-AN6X-H1341	S4669560	<i>Short Barrel</i>	2	
	Bi 1.5-EG08K-AP6X-H1341	S4669050	<i>Short Barrel</i>	1.5	3-Wire DC PNP
	Bi 2-EG08K-AP6X-H1341	S4669460	<i>Short Barrel</i>	2	
	Bi 2-EG08K-AP6X-H1341/S1589	S4669486	weldguard	2	
	Bi 1.5-EG08K-Y1-H1341	S1003620	<i>Short Barrel</i>	1.5	2-Wire DC NAMUR
Bi 1.5-EG08K-Y1X-H1341	S1003640	<i>Short Barrel</i>	1.5		
8 mm - Embeddable, Miniature Threaded, eurofast Quick Disconnect	Bi 2-EG08-AG41X-H1341	S4562001	<i>Ext. Range</i>	2	2-Wire DC
	Bi 2-EG08-AG41X-H1341/S1589	S4562095	weldguard	2	
	Bi 1.5-EG08-AD6X-H1341	S4600203		1.5	
	Bi 2-EGT08-AG41X-H1341/S100	S4602542	SS, PTFE Coated	2	
	Bi 1.5-EG08-AN6X-H1341	S4602360		1.5	3-Wire DC NPN
	Bi 1.5-EG08-AN7X-H1341	S4602361	TTL Compatible	1.5	
	Bi 1.5U-EG08-AN6X-H1341	S4600550	Uprox	1.5	
	Bi 2-EG08-AN6X-H1341	S4602160	<i>Ext. Range</i>	2	
	Bi 2-EG08-AN6X-H1341/S1589	S4602182	weldguard	2	
	Bi 2U-EG08-AN6X-H1341	S4602037	Uprox	2	
	Bi 2-EGT08-AN6X-H1341/S100	S4602161	SS, PTFE Coated	2	
	Bi 1.5-EG08-AP6X-H1341	S4602260		1.5	
	Bi 1.5U-EG08-AP6X-H1341	S4600540	Uprox	1.5	3-Wire DC PNP
	Bi 2-EG08-AP6X-H1341	S4602060	<i>Ext. Range</i>	2	
	Bi 2-EG08-AP6X-H1341/S1589	S4602086	weldguard	2	
	Bi 2U-EG08-AP6X-H1341	S4602034	Uprox	2	
	Bi 1.5U-EG08-AP6X-H1341/S1589	S4600540-1	Uprox/weldguard	1.5	
	Bi 1.5U-EGT08-AP6X-H1341	S4600555	Uprox, SS, PTFE	1.5	
	Bi 2-EGT08-AP6X-H1341/S100	S4602257	SS, PTFE Coated	2	
	Bi 2-EGT08-AP6X-H1341/S100/S1589	S4602079	SS, PTFE, weldguard	2	
	Bi 2-EG08-VN6X-H1341	S4602521	<i>Comp. Outputs</i>	2	4-Wire DC NPN
	Bi 2-EGT08-VN6X-H1341	S4602264	SS, PTFE Coated	2	
	Bi 2-EGT08-VN6X-H1341/S1589	S4602589	SS, PTFE, weldguard	2	
	Bi 2-EG08-VP6X-H1341	S4602522	<i>Comp. Outputs</i>	2	4-Wire DC PNP
	Bi 1.5-EG08-Y1-H1341	S1003502		1.5	2-Wire DC NAMUR



For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.23T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4.23T-*	1	
	1000	≤100	-25 to +70	IP 67	SS	TC	N/A	YE	RK 4.23T-*		
	1000	≤100	-25 to +70	IP 67	SS	TC	N/A	YE	RK 4.23T-*		
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4	Diagram 3
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4	
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	4	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	5	
	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.21T-*	5	
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.23T-*	1	Diagram 4
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4.23T-*	1	
	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.23T-*	2	
	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.23T-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	Diagram 5
	2000	≤150	-25 to +70	IP 68	SS	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤150	-30 to +85	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*/S1587	3	
	1000	≤150	-35 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤150	-25 to +100	IP 67	TC	TC	N/A	YE	RK 4T-*	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4	Diagram 6
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	4	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4	
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RKG 4T-*/S1587	4	
	1000	≤150	-35 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤150	-30 to +85	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	4	
	2000	≤150	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	
	3000	≤150	-25 to +100	IP 67	TC	TC	N/A	YE	RK 4T-*	4	
	3000	≤150	-25 to +100	IP 67	TC	TC	N/A	YE	RK 4T-*/S1587	4	
10-30 VDC	3000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	6	Diagram 7
	3000	≤200	-25 to +70	IP 67	SS	TC	N/A	YE	RK 4.4T-*	6	
	3000	≤200	-25 to +70	IP 67	SS	TC	N/A	YE	RK 4.4T-*/S1587	6	
10-30 VDC	3000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	7	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	5	

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, eurofast® Quick Disconnect 	Bi 1.5-G08-AN6X-H1341	S4603700		1.5	3-Wire DC NPN
	Bi 1.5-G08-AN7X-H1341	S4701126	TTL Compatible	1.5	
	Bi 2-G08-AN6X-H1341	S4602600	Ext. Range	2	
	Bi 1.5-G08-AP6X-H1341	S4603600		1.5	3-Wire DC PNP
	Bi 2-G08-AP6X-H1341	S4602500	Ext. Range	2	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	<p>Diagram 2</p>
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded, eurofast® Quick Disconnect 	Ni 4-EG08K-AG41X-H1341	S4561011	<i>Short Barrel</i>	4	2-Wire DC
	Ni 4-EG08K-AG41X-H1341/S1589	S4561090	<i>weldguard®</i>	4	
	Ni 3-EG08K-AN6X-H1341	S4669760	<i>Short Barrel</i>	3	3-Wire DC NPN
	Ni 3-EG08K-AP6X-H1341	S4669660	<i>Short Barrel</i>	3	3-Wire DC PNP
	Ni 3-EG08K-Y1-H1341	S1003720	<i>Short Barrel</i>	3	2-Wire DC NAMUR
	Ni 3-EG08K-Y1X-H1341	S1003704		3	
8 mm - Nonembeddable, Miniature Threaded, eurofast Quick Disconnect 	Ni 4-EG08-AG41X-H1341	S4561001		4	2-Wire DC
	Ni 4-EG08-AG41X-H1341/S1589	S4561091	<i>weldguard</i>	4	
	Ni 3-EG08-AN6X-H1341	S4602860		3	3-Wire DC NPN
	Ni 3-EG08-AN6X-H1341/S1589	S4602889	<i>weldguard</i>	3	
	Ni 4U-EG08-AN6X-H1341	S4600650	<i>Uprox</i>	4	
	Ni 6U-EG08-AN6X-H1341	S4635805		6	
	Ni 3-EG08-AN7X-H1341	S4669761	TTL Compatible	3	
	Ni 3-EG08-AP6X-H1341	S4602760		3	3-Wire DC PNP
	Ni 3-EG08-AP6X-H1341/S1589	S4602799	<i>weldguard</i>	3	
	Ni 4U-EG08-AP6X-H1341	S4600640	<i>Uprox</i>	4	
	Ni 4U-EG08-AP6X-H1341/S1589	S4600640-1	<i>Uprox/weldguard</i>	4	
	Ni 6U-EG08-AP6X-H1341	S4635802		6	
	Ni 3-EG08-Y1-H1341	S1003730		3	2-Wire DC NAMUR
8 mm - Nonembeddable, Miniature Threaded, eurofast Quick Disconnect 	Ni 2-G08-AN6X-H1341	S4603300		2	3-Wire DC NPN
	Ni 3-G08-AN6X-H1341	S4602704		3	
	Ni 2-G08-AP6X-H1341	S4603200		2	3-Wire DC PNP
	Ni 3-G08-AP6X-H1341	S4602705		3	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.23T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4.23T-*/S1587	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	Diagram 2
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	4	Diagram 3
	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	4	
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 3
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	2	
	1000	≤150	0 to +70	IP 68	SS	LCP	N/A	YE	RK 4T-*	2	
	2000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	3	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤150	-30 to +85	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	3	
	1000	≤150	0 to +70	IP 68	SS	LCP	N/A	YE	RK 4T-*	3	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	N/A	RK 4.21T-*	4	Diagram 4
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	

Barrels

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
5 mm - Embeddable, Side Sensing, Miniature Smooth Barrel, Potted-In Cable 	Bi 1-HS540-AN6X	S4604101	<i>Side Sensing</i>	1	3-Wire DC NPN
	Bi 1-HS540-AP6X	S4604001	<i>Side Sensing</i>	1	3-Wire DC PNP
	Bi 1-HS540-Y1	S1004001	<i>Side Sensing</i>	1	2-Wire DC NAMUR
8 mm - Embeddable, Side Sensing, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-HS865-AN6X	S4604301	<i>Side Sensing</i>	1.5	3-Wire DC NPN
	Bi 1.5-HS865-AP6X	S4604201	<i>Side Sensing</i>	1.5	3-Wire DC PNP
	Bi 1.5-HS865-Y1	S1004201	<i>Side Sensing</i>	1.5	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p>
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p>Diagram 2</p>
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
3 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1-EH03-AN7X*	M1619323	<i>TTL Compatible</i>	1	3-Wire DC NPN
	Bi 1-EH03-AP7X*	M1619322	<i>TTL Compatible</i>	1	3-Wire DC PNP
4 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1-EH04-AN6X	S4609640		1	3-Wire DC NPN
	Bi 1-EH04-AP6X	S4609540		1	3-Wire DC PNP
4 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1-EH04-Y1	S1003040		1	2-Wire DC NAMUR
5 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 1-EG05-AN6X	S4609840		1	3-Wire DC NPN
	Bi 1-EG05-AP6X	S4609740		1	3-Wire DC PNP
	Bi 1-EG05-Y1	S1003240		1	2-Wire DC NAMUR

* Flush mountable only in non-ferrous metals.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	5000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 1
10-30 VDC	5000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 2
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 3
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
6.5 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-EH6.5K-AN6X	S4610640	<i>Short Barrel</i>	1.5	3-Wire DC NPN
	Bi 2-EH6.5K-AN6X	S4610100	<i>Short Barrel</i>	2	
	Bi 1.5-EH6.5K-AP6X	S4610540	<i>Short Barrel</i>	1.5	3-Wire DC PNP
	Bi 2-EH6.5K-AP6X	S4610000	<i>Short Barrel</i>	2	
	Bi 1.5-EH6.5K-Y1	S1004600	<i>Short Barrel</i>	1.5	2-Wire DC NAMUR
	6.5 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-EH6.5-AN6X	S4612100		1.5
Bi 2-EH6.5-AN6X		S4612300	<i>Ext. Range</i>	2	
Bi 2U-EH6.5-AN6X		S4281170	<i>Uprox</i>	2	
Bi 1.5-EH6.5-AP6X		S4612000		1.5	3-Wire DC PNP
Bi 2-EH6.5-AP6X		S4612200	<i>Ext. Range</i>	2	
Bi 2U-EH6.5-AP6X		S4281150	<i>Uprox</i>	2	
Bi 1.5-EH6.5-AP6X/S100		S4612001	<i>High Temp. 100°C</i>	1.5	
Bi 1.5-H6.5-Y1X	S4004810		1.5	2-Wire DC NAMUR	
6.5 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-H6.5M-AN7	S4708100	<i>TTL Compatible</i>	1.5	3-Wire DC NPN

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.

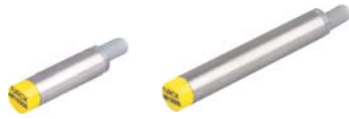


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	1000	≤150	-25 to +70	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	1000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	Remote	-25 to +100	IP 67	CPB	EPTR	TROG	N/A	YE	2M/PVC	3	
5-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	3	
10-30 VDC	2000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
6.5 mm - Nonembeddable, Miniature Smooth Barrel, Potted-In Cable 	Ni 3-EH6.5K-AN6X	S4610300	<i>Short Barrel</i>	3	3-Wire DC NPN
	Ni 3-EH6.5K-AP6X	S4610200	<i>Short Barrel</i>	3	3-Wire DC PNP
	Ni 3-EH6.5K-Y1	S1004700	<i>Short Barrel</i>	3	2-Wire DC NAMUR
6.5 mm - Nonembeddable, Miniature Smooth Barrel, Potted-In Cable 	Ni 3-EH6.5-AN6X	S4612500		3	3-Wire DC NPN
	Ni 4U-EH6.5-AN6X	S4600682	<i>Uprox</i>	4	
	Ni 3-EH6.5-AP6X	S4612400		3	3-Wire DC PNP
	Ni 4U-EH6.5-AP6X	S4600680	<i>Uprox</i>	4	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p>Diagram 2</p>
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-H08K-AN6X	S1604341	<i>Short Barrel</i>	1.5	3-Wire DC NPN
	Bi 1.5-H08K-AP6X	S1604331	<i>Short Barrel</i>	1.5	3-Wire DC PNP
	Bi 1.5-H08K-AP6/S100	S1604303	High Temp. 100°C	1.5	
	Bi 1.5-H08-Y1	S1021800		1.5	2-Wire DC NAMUR
8 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-H08M-AP6X	S1604301		1.5	3-Wire DC PNP
8 mm - Embeddable, Miniature Smooth Barrel, Potted-In Cable 	Bi 1.5-H08-AN6X	S1614300		1.5	3-Wire DC NPN
	Bi 1.5-H08-AP6X	S1604300		1.5	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p>Diagram 2</p>
	3000	≤150	-25 to +100	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	2000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
10-30 VDC	2000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	2000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Smooth Barrel, Potted-In Cable 	Ni 2-H08K-AN6X	S1614700	<i>Short Barrel</i>	2	3-Wire DC NPN
	Ni 2-H08K-AP6X	S1604700	<i>Short Barrel</i>	2	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p>
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	<p>Diagram 2</p>

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded Barrel, Side Sensing, Potted-In Cable 	Bi 1.5-GS880-AN6X	S4604501	<i>Side Sensing</i>	1.5	3-Wire DC NPN
	Bi 1.5-GS880-AP6X	S4604401	<i>Side Sensing</i>	1.5	3-Wire DC PNP
	Bi 1.5-GS880-Y0	S1004401	<i>Side Sensing</i>	1.5	2-Wire DC NAMUR
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 2-EG08K-AG41X	S4562010		2	2-Wire DC
	Bi 2-EG08K-AG41X/S1589	S4562091	<i>weldguard®</i>	2	
	Bi 2-EG08K-AG41X/S1610	S4562096	<i>armorguard</i>	2	
	Bi 1.5-EG08K-AN6X	S4669140	<i>Short Barrel</i>	1.5	3-Wire DC NPN
	Bi 2-EG08K-AN6X	S4669500	<i>Short Barrel</i>	2	
	Bi 2-EG08K-AN6X/S1589	S4669587	<i>weldguard</i>	2	
	Bi 2-EG08K-AN6X/S957*	S4669503	<i>Flush Mount</i>	2	
	Bi 1.5-EG08K-AP6X	S4669040	<i>Short Barrel</i>	1.5	3-Wire DC PNP
	Bi 2-EG08K-AP6X	S4669400	<i>Short Barrel</i>	2	
	Bi 2-EG08K-AP6X/S957*	S4669453	<i>Flush Mount</i>	2	
	Bi 2-EG08K-AP6X/S97	S4669413	<i>Low Temp.</i>	2	
	Bi 1.5-EG08K-AP6/S100	S4669016	High Temp. 100°C	1.5	
	Bi 2-EGT08K-AP6X	S4602541		2	
Bi 2-EGT08K-AP6X/S100	S4602544	High Temp. 100°C	2		
Bi 2-EGT08K-AP6X/S1589	S4602543	SS, PTFE, weldguard	2		
Bi 1.5-EG08K-Y1	S1003600	<i>Short Barrel</i>	1.5	2-Wire DC NAMUR	

* Full flush mounting in steel without reducing 2 mm sensing range.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 2
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	Diagram 3
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	4	Diagram 4
	1000	≤100	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	4	
	1000	≤100	-25 to +70	IP 67	AG	WG	TROG	N/A	YE	2M/PUR	4	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 5
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	1	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 6
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-40 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +100	IP 67	SS	EPTR	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +100	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	Diagram 7

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 1.5-EG08-Y1	S1003500		1.5	2-Wire DC NAMUR
	Bi 2-EG08-AG41X	S4562000		2	2-Wire DC
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 2-EG08-AG41X/S1589	S4562088	weldguard®	2	2-Wire DC
	Bi 1.5-EG08-AN6X	S4602340		1.5	3-Wire DC NPN
	Bi 1.5U-EG08-AN6X	S4600510	Uprox	1.5	
	Bi 2-EG08-AN6X	S4602140	Ext. Range	2	
	Bi 2-EG08-AN6X/S1589	S4602181	weldguard	2	
	Bi 2U-EG08-AN6X	S4602035	Uprox	2	
	Bi 1.5-EG08-AN7X	S1766110	TTL Compatible	1.5	
	Bi 1.5-EG08-AP6X	S4602240		1.5	3-Wire DC PNP
	Bi 1.5U-EG08-AP6X	S4600500	Uprox	1.5	
	Bi 2-EG08-AP6X	S4602040	Ext. Range	2	
	Bi 2-EG08-AP6X/S100	S4602047	High Temp. 100°C	2	
	Bi 2-EG08-AP6X/S957	S4602008	Flush Mount	2	
	Bi 2-EG08-AP6X/S1589	S4602085	weldguard	2	
	Bi 2U-EG08-AP6X	S4602032	Uprox	2	
	Bi 2-EG08-AZ14X	S4100001			2
Bi 2-EG08-VP6X	S1604610		Comp. Outputs	2	4-Wire DC PNP
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 2-EG08-AP6X/S1610	S4602086-1	armorguard	2	3-Wire DC PNP
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable, PTFE Coated 	Bi 2-EGT08K-AG41X	S4602545	SS, PTFE, Short Barrel	2	2-Wire DC
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable, PTFE Coated 	Bi 2-EGT08-AG41X	S4602540		2	2-Wire DC
	Bi 2-EGT08-AG41X/S1589	S46020003	SS, PTFE, weldguard	2	
	Bi 2U-EGT08-AN6X	S4602170	Stainless Steel, PTFE	2	3-Wire DC NPN
	Bi 1.5-EGT08-AP6/S100	S4602256	High Temp. 100°C	1.5	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PUR	3	Diagram 1
	1000	≤100	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	4	Diagram 2
10-30 VDC	1000	≤100	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	4	Diagram 2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 3
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 3
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	1	Diagram 3
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 3
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 3
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 4
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 4
	3000	≤150	-25 to +100	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	2	Diagram 5
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 5
20-132 VAC 10-140 VDC	20	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	5	Diagram 5
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	6	Diagram 6
10-30 VDC	3000	£150	-25 to +70	IP 67	AG	WG	TROG	N/A	YE	2M/PUR	2	Diagram 6
10-55 VDC	1000	£100	-25 to +70	IP 67	TC	PA 12	TC	N/A	YE	2M/PUR	4	Diagram 6
10-55 VDC	1000	≤100	-25 to +70	IP 67	TC	PA 12	TC	N/A	YE	2M/PUR	4	Diagram 6
	1000	≤100	-25 to +70	IP 67	SS	WG	TC	N/A	YE	2M/PUR	4	Diagram 6
10-30 VDC	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 6
10-30 VDC	2000	≤150	-25 to +100	IP 67	TC	PA 12	TC	N/A	YE	2M/PUR	2	Diagram 6

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 1.5-G08-AN6X	S4602300		1.5	3-Wire DC NPN
	Bi 2-G08-AN6X	S4602100	<i>Ext. Range</i>	2	
	Bi 1.5-G08-AP6X	S4602200		1.5	3-Wire DC PNP
	Bi 2-G08-AP6X	S4602000	<i>Ext. Range</i>	2	
8 mm - Embeddable, Miniature Threaded Barrel, Potted-In Cable 	Bi 1.5-G08-Y1	S1005224		1.5	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded Barrel, Potted-In Cable 	Ni 4-EG08K-AG41X	S4561010	<i>Short Barrel</i>	4	2-Wire DC
	Ni 3-EG08K-AN6X	S4669700	<i>Short Barrel</i>	3	3-Wire DC NPN
	Ni 3-EG08K-AP6X	S4669600	<i>Short Barrel</i>	3	3-Wire DC PNP
	Ni 3-EG08K-Y1	S1003700	<i>Short Barrel</i>	3	2-Wire DC NAMUR
8 mm - Nonembeddable, Miniature Threaded Barrel, Potted-In Cable 	Ni 4-EG08-AG41X	S4561000		4	2-Wire DC
	Ni 3-EG08-AN6X	S4602840		3	3-Wire DC NPN
	Ni 3-EG08-AN6X/S1589	S4602888	weldguard®	3	
	Ni 3-EG08-AN7X	S4669759	TTL Compatible	3	
	Ni 4U-EG08-AN6X	S4600610	Uprox	4	
	Ni 6U-EG08-AN6X	S4635803		6	
	Ni 3-EG08-AP6X	S4602740		3	3-Wire DC PNP
	Ni 3-EG08-AP6X/S1589	S4602789	weldguard	3	
	Ni 4U-EG08-AP6X	S4600600	Uprox	4	
	Ni 6U-EG08-AP6X	S4635800		6	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	3	Diagram 2
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	3	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	4	Diagram 3
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 4
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	2	
	2000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
10-30 VDC	1000	≤150	0 to +70	IP 68	SS	LCP	TROG	N/A	YE	2M/PUR	2	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	3	
	3000	≤150	-25 to +70	IP 67	SS	WG	TROG	N/A	YE	2M/PUR	3	
	2000	≤150	-30 to +85	IP 68	SS	PA 12	TROG	N/A	YE	2M/PUR	3	
	1000	≤150	0 to +70	IP 68	SS	LCP	TROG	N/A	YE	2M/PUR	3	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded Barrel, Potted-In Cable 	Ni 2-G08-AN6X	S4601300		2	3-Wire DC NPN
	Ni 3-G08-AN6X	S4602800		3	
	Ni 2-G08-AP6X	S4601200		2	3-Wire DC PNP
	Ni 3-G08-AP6X	S4602700		3	
8 mm - Nonembeddable, Miniature Threaded Barrel, Potted-In Cable 	Ni 2-G08-Y1	S1005300		2	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



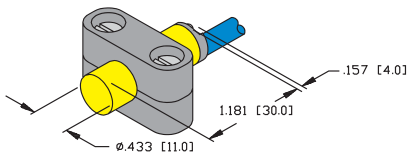
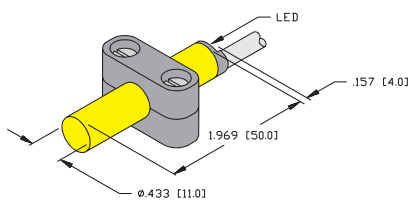
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	Diagram 1
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	1	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	Diagram 2
	3000	≤150	-25 to +70	IP 67	SS	PA 12	TROG	N/A	YE	2M/PUR	2	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	TROG	N/A	N/A	2M/PVC	3	Diagram 3

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
11 mm - Embeddable/Nonembeddable, Smooth Barrel, Potted-In Cable 	Bi 2-K11-Y1	M1007000		•	2	2-Wire DC NAMUR
	Ni 5-K11-Y0	T1007100			5	
11 mm - Embeddable/Nonembeddable, Smooth Barrel, Potted-In Cable 	Bi 2-K11-AN6	T4660600		•	2	3-Wire DC NPN
	Ni 5-K11-AN6	T4660800			5	
	Bi 2-K11-AP6	T4660500		•	2	3-Wire DC PNP
	Ni 5-K11-AP6	T4660700			5	
	Ni 5-K11-AP6X	T1668295			5	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	5000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	Diagram 1
	2000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	2	Diagram 2
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	3	Diagram 3
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	3	
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	YE	N/A	2M/PVC	3	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing	Output
12 mm - Embeddable, picofast® Connection 	Bi 4U-M12-AP6X-V1131	M1634780		4	3-Wire DC PNP
12 mm - Embeddable, eurofast® Connection 	Bi 4-M12K-AN6X-H1141	T4607101	Short Barrel	4	3-Wire DC NPN
	Bi 4-M12K-AP6X-H1141	T4607082	Short Barrel	4	3-Wire DC PNP
12 mm - Embeddable, eurofast Connection 	Bi 2-M12-AD4X-H1141	T4406500		2	2-Wire DC
	Bi 3-M12-AD4X-H1141	T4405041	Ext. Range	3	
	Bi 2-EM12-AN6X-H1141	T4606601		2	3-Wire DC NPN
	Bi 2-M12-AN6X-H1141	T4606600		2	
	Bi 3U-EM12-AN6X-H1141	M1634350	Uprox	3	
	Bi 3U-M12-AN6X-H1141	M1634150	Uprox	3	
	Bi 3U-M12-AN6X2-H1141	M1634155	Uprox	3	
	Bi 4-M12-AN6X-H1141	T4607100	Extended Range	4	
	Bi 4U-EM12-AN6X-H1141	M1634827		4	
	Bi 4U-M12-AN6X-H1141	M1634824		4	
	Bi 2-EM12-AP6X-H1141	T4606501		2	3-Wire DC PNP
	Bi 2-M12-AP6X-H1141	T4606500		2	
	Bi 3U-EM12-AP6X-H1141	M1634340	Uprox	3	
	Bi 3U-EM12H-AP6X-H1141	M1634312	Uprox, Stoneface	3	
	Bi 3U-M12-AP6X-H1141	M1634140	Uprox	3	
	Bi 3U-M12-AP6X2-H1141	M1634145	Uprox	3	
	Bi 4-M12-AP6X-H1141	T4607000	Extended Range	4	
	Bi 4U-EM12-AP6X-H1141	M1634807		4	
	Bi 4U-EM12-AP6X-H1141/S1589	M1634897-1	weldguard	4	
	Bi 4U-M12-AP6X-H1141	M1634804		4	
	Bi 2-M12-VN6X-H1141	T1643000	Comp. Outputs	2	4-Wire DC NPN
	Bi 4-M12-VN6X-H1141	T1643200	Ext. Range, Comp.Outputs	4	
	Bi 2-M12-VP6X-H1141	T1633000	Comp. Outputs	2	4-Wire DC PNP
Bi 4-M12-VP6X-H1141	T1633200	Ext. Range, Comp.Outputs	4		
Bi 4-EM12-VP6X-H1141	T1633201	Ext. Range, Comp.Outputs	4		
Bi 2-EM12-Y0X-H1141	T4010098		2	2-Wire DC NAMUR	
Bi 2-M12-Y1X-H1141	M4010200		2		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	PKM 3Z-*	1	Diagram 1
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	Diagram 3
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	3	Diagram 4
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	3	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	4	Diagram 6
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	3000	≤200	-30 to +85	IP 68	SS	SF	N/A	YE	RKV 4T-*	4	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RKC 4T-*/S1587	4	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 7
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	Diagram 7
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	6	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.21T-*	7	Diagram 7
	5000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Embeddable, eurofast® Connection, PTFE Coated Sensors 	Bi 3-MT12H-AD4X-H1141/S1589	T4405082	weldguard	3	2-Wire DC	
	Bi 3-MT12H-AD4X-H1144/S1589	T4405084	weldguard	3		
	Bi 3U-MT12-AN6X-H1141	M1634250	<i>Uprox</i>	3	3-Wire DC NPN	
	Bi 4-MT12H-AN6X-H1141	T4607194	<i>Ext. Range, Stoneface</i>	4		
	Bi 4-MT12H-AN6X-H1141/S1589	T4607188	<i>Ext. Range, weldguard</i>	4		
	Bi 4U-MT12-AN6X-H1141	M1634829	<i>Uprox</i> + PTFE	4		
	Bi 4U-MT12-AN6X-H1141/S1589	M16348290	<i>Uprox</i> + weldguard	4		
	Bi 3U-MT12-AP6X-H1141	M1634240	<i>Uprox</i>	3		3-Wire DC PNP
	Bi 3U-MT12-AP6X2-H1141	M1634245	<i>Uprox, Dual-Color LED</i>	3		
	Bi 3U-MT12H-AP6X-H1141	M1634212	<i>Uprox, Stoneface</i>	3		
	Bi 3U-MT12H-AP6X-H1141/S1589	M1634294	<i>Ext. Range, weldguard</i>	3		
	Bi 3U-MT12H-AP6X2-H1141/S1589	M1634293	<i>weldguard</i>	3		
	Bi 4-MT12H-AP6X-H1141	T4607093	<i>Ext. Range, Stoneface</i>	4		
	Bi 4-MT12H-AP6X-H1141/S1589	T4607099	<i>Ext. Range, weldguard</i>	4		
	Bi 4U-MT12-AP6X-H1141	M1634809	<i>Uprox</i> + PTFE	4		
	Bi 4U-MT12-AP6X-H1141/S1589	M1634809-1	<i>Uprox</i> + weldguard	4		
	Bi 2-MT12-Y0X-H1141	T4010093		2	2-Wire DC NAMUR	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.2T-*/S1587	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	2	
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	Diagram 2
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	Diagram 3
	3000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4	
	3000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	
	3000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKG 4T-*/S1587	4	
	3000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKG 4T-*/S1587	4	
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKG 4T-*/S600	4	
	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	4	
	2000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	LCP	GN	YE	RKC 4T-*/S1587	4	
5-30 VDC	5000	Remote	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4.21T-*	5	Diagram 5

Barrels

* Length in meters

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Embeddable, Extended Length eurofast® Connection 	Bi 2U-M12E-AD4X-H1144	M4405060	Uprox	2	2-Wire DC	
	Bi 3-M12E-AD4X-H1141	T4405080	Ext. Range	3		
	Bi 2-M12E-AN6X-H1141	T4606602		2	3-Wire DC NPN	
	Bi 3U-EM12E-AN6X-H1141	M1634351	Uprox	3		
	Bi 3U-EM12HE-AN6X2-H1141	M1634311	Stoneface, Uprox	3		
	Bi 3U-EM12HE-AN6X2-H1141/S1589	M1634397	weldguard	3		
	Bi 3U-M12E-AN6X-H1141	M1634151	Uprox	3		
	Bi 4-M12E-AN6X-H1141	T4607193	Ext. Range	4		
	Bi 4-EM12HE-AN6X-H1141/S1589	T4607185	Ext. Range, weldguard	4		
	Bi 3U-EM12E-AP6X-H1141	M1634343	Uprox	3	3-Wire DC PNP	
	Bi 3U-M12E-AP6X-H1141	M1634148	Uprox	3		
	Bi 3U-EM12HE-AP6X2-H1141	M1634310	Stoneface, Uprox	3		
	Bi 3U-EM12HE-AP6X2-H1141/S1589	M1634398	Uprox, weldguard	3		
	Bi 4-M12E-AP6X-H1141	T4608030	Ext. Range	4		
	Bi 4-EM12HE-AP6X-H1141/S1589	T4607184	Ext. Range, weldguard	4		
	Bi 2-M12E-VN6X-H1141	T1643080	Comp. Output	2	4-Wire DC NPN	
	Bi 3U-M12E-VN4X-H1141	M1580354	Uprox	3		
	Bi 4-M12E-VN6X-H1141	T1643201	Ext. Range	4		
	Bi 2-M12E-VP6X-H1141	T1633080	Comp. Output	2	4-Wire DC PNP	
	Bi 3U-M12E-VP4X-H1141	M1580252	Uprox	3		
	Bi 4-M12E-VP6X-H1141	T4608092	Ext. Range	4		
	Bi 2-M12E-Y0X-H1141	T4606490			2	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4.23T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 2 Diagram 3 Diagram 4 Diagram 5
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	2	
	3000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	Diagram 4 Diagram 5
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKV 4T-*	3	
	3000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 5
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 5
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
5-30 VDC	5000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	Diagram 6

*Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Embeddable, eurofast® Connection, Extended Barrel Length, PTFE Coated Sensors 	Bi 2U-MT12E-AD4X-H1144	M4405061	uprox+ PTFE	2	2-Wire DC	
	Bi 2U-MT12HE-AD4X-H1144/S1589	M4405094	uprox+ PTFE, weldguard	2		
	Bi 3-MT12E-AD4X-H1141	T4405088-2	Stoneface	3		
	Bi 3-MT12HE-AD4X-H1141	T4405088	weldguard*	3		
	Bi 3-MT12HE-AD4X-H1141/S1589	T4405086	weldguard	3		
	Bi 3-MT12HE-AD4X-H1144/S1589	T4405087		3		
		Bi 3U-MT12HE-AN6X2-H1141	M1634230	Stoneface, Uprox	3	3-Wire DC NPN
		Bi 3U-MT12HE-AN6X2-H1141/S1589	M1634290	Uprox, weldguard	3	
		Bi 4-MT12HE-AN6X-H1141	T4607197	Ext. Range	4	
		Bi 4-MT12HE-AN6X-H1141/S1589	T4607187	Ext. Range, weldguard	4	
12 mm - Embeddable, eurofast Connection, Extended Barrel Length, PTFE Coated Sensors 	Bi 3U-MT12HE-AN6X2-H1141/S1610	M1634230-1	weldguard	3	3-Wire DC NPN	
12 mm - Embeddable, eurofast Connection, Extended Barrel Length, PTFE Coated Sensors 	Bi 3U-MT12HE-AP6X2-H1141	M1634220	Stoneface, Uprox	3	3-Wire DC PNP	
	Bi 3U-MT12HE-AP6X2-H1141/S1589	M1634291	Uprox, weldguard	3		
	Bi 4-MT12HE-AP6X-H1141	T4608093	Stoneface, Ext. Range	4		
	Bi 4-MT12HE-AP6X-H1141/S1589	T4608094	Ext. Range, weldguard	4		
	Bi 4-MT12E-AP6X-H1141	T4608093-2	Ext. Range	4		
	Bi 4-MT12HE-AP6X-H1141/S1610	T4608093-1	armorguard	4		
	Bi 4U-MT12E-AP6X2-H1141	M1644742	uprox+ Dual LED's	4		
	Bi 4U-MT12E-AP6X2-H1141/S1589	M1644797	uprox+ PTFE, weldguard	4		
Bi 4U-MT12E-VN44X-H1141/S1589	M1644799	uprox+ PTFE, weldguard	4	3-Wire DC NPN		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4.23T-*	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>
	1000	≤100	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4.23T-*/S1587	1	
	1000	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4.2T-*	1	
	1000	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4.2T-*	1	
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.2T-*/S1587	1	
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	1	
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	2	<p>Diagram 3</p> <p>Diagram 4</p>
	3000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	2000	≤200	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	3000	≤200	-25 to +70	IP 67	AG	WG	N/A	YE	RKC 4T-*/S1587	2	<p>Diagram 4</p>
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RKG 4T-*	3	
	3000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	3	
	2000	≤200	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	3	
	2000	≤200	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	AG	WG	N/A	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	3	
10-55 VDC	1000	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	4	

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Nonembeddable, eurofast® Connection 	Ni 4-M12-AD4X-H1141	T4406700		4	2-Wire DC	
	Ni 4-M12-AD4X-H1144	M4406701		4		
	Ni 8-M12-AD4X-H1141	T4411241	Ext. Range	8		
	Ni 8-M12-AD4X-H1144	T4411289	Ext. Range	8		
	Ni 4-EM12-AN7X-H1141	T4606893	TTL Compatible	4	3-Wire DC NPN	
	Ni 4-M12-AN6X-H1141	T4606800		4		
	Ni 5-M12-AN6X-H1141	T4671390		5		
	Ni 8-M12-AN6X-H1141	T4611315	Ext. Range	8		
	Ni 8U-EM12-AN6X-H1141	M1644350	Uprox	8		
	Ni 8U-M12-AN6X-H1141	M1644150	Uprox	8		
	Ni 8U-M12-AN6X2-H1141	M1644155	Uprox, Dual LED	8		
	Ni 10U-EM12-AN6X-H1141	M1634828	Uprox Stainless Steel	10		
	Ni 10U-M12-AN6X-H1141	M1634826	Uprox Stainless Steel	10		
	Ni 4-M12-AP6X-H1141	T4606700		4	3-Wire DC PNP	
	Ni 5-M12-AP6X-H1141	T4653400		5		
	Ni 8-M12-AP6X-H1141	T4611310	Ext. Range	8		
	Ni 8U-EM12-AP6X-H1141	M1644340	Uprox	8		
	Ni 8U-M12-AP6X-H1141	M1644140	Uprox	8		
	Ni 8U-M12-AP6X2-H1141	M1644145	Uprox, Dual LED	8		
	Ni 10U-EM12-AP6X-H1141	M1634808	Uprox Stainless Steel	10		
	Ni 10U-M12-AP6X-H1141	M1634806	Uprox Stainless Steel	10		
	Ni 4-M12-VN6X-H1141	T1643100	Comp. Output	4	4-Wire DC NPN	
	Ni 8-M12-VN6X-H1141	T4611323	Ext. Range, Comp. Output	8		
	Ni 4-EM12-VP6X-H1141	M1633101	Comp. Output	4	4-Wire DC PNP	
	Ni 4-M12-VP6X-H1141	T1633100	Comp. Output	4		
	Ni 8-M12-VP6X-H1141	T4611324	Ext. Range, Comp. Output	8		
	Ni 5-M12-Y1X-H1141	M4010300			5	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.23T-*	2	
	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.23T-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKV 4T-*	3	Diagram 2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	3	
10-30 VDC	1000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	4	
	1000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 4
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	6	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	6	Diagram 6
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	6	Diagram 7
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
5-30 VDC	2000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, eurofast® Connection, PTFE Coated 	Ni 8-MT12H-AD4X-H1141/S1589	T4411291	weldguard®	8	2-Wire DC
	Ni 8U-MT12-AN6X-H1141	M1644250	Uprox	8	3-Wire DC NPN
	Ni 10U-MT12-AN6X-H1141	M1634830	Uprox+ PTFE	10	
	Ni 10U-MT12-AN6X-H1141/S1589	M16134996	Uprox+ PTFE, weldguard	10	
	Ni 8U-MT12-AP6X-H1141	M1644240	Uprox	8	3-Wire DC PNP
	Ni 8U-MT12-AP6X2-H1141	M1644245	Uprox	8	
	Ni 8U-MT12H-AP6X2-H1141/S1589	M1644292	Uprox, weldguard	8	
	Ni 10U-MT12-AP6X-H1141	M1634810	Uprox+ PTFE	10	
	Ni 10U-MT12-AP6X-H1141/S1589	M1634810-1	Uprox+ PTFE, weldguard	10	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	2000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4.2T-*/S1587	1	<p>Diagram 1</p>
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	2	<p>Diagram 2</p> <p>Diagram 3</p>
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	1000	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	<p>Diagram 3</p>
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	3	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	3	

* Length in meters.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, Extended Barrel Length, eurofast® Connection 	Ni 4-M12E-AD4X-H1144	T4406792		4	2-Wire DC
	Ni 8-M12E-AN6X-H1141	T4611325	Ext. Range	8	3-Wire DC NPN
	Ni 8-EM12HE-AN6X-H1141/S1589	T4611395	Ext. Range, weldguard	8	
	Ni 8U-EM12E-AN6X-H1141	M1644351	Uprox	8	
	Ni 8U-EM12E-AN6X2-H1141	M1644315	Uprox	8	
	Ni 8U-EM12HE-AN6X2-H1141/S1589	M1644391	Uprox, weldguard	8	
	Ni 8U-M12E-AN6X-H1141	M1644151	Uprox	8	
	Ni 8-M12E-AP6X-H1141	T4611398-1	Ext. Range	8	3-Wire DC PNP
	Ni 8-EM12HE-AP6X-H1141/S1589	T4611396	weldguard	8	
	Ni 8U-EM12E-AP6X-H1141	M1644342	Uprox	8	
	Ni 8U-EM12E-AP6X2-H1141	M1644314	Uprox	8	
	Ni 8U-EM12HE-AP6X2-H1141/S1589	M1644392	Uprox, weldguard	8	
	Ni 8U-M12E-AP6X-H1141	M1644144	Uprox	8	
	Ni 8U-M12E-VN4X-H1141	M1580552	Comp. Output	8	4-Wire DC NPN
	Ni 8U-EM12E-VP4X-H1141	M1580463	Uprox	8	4-Wire DC PNP
	Ni 8U-M12E-VP4X-H1141	M1580454	Uprox	8	
	Ni 4-M12E-VN6X-H1141	T1643190	Comp. Output	4	4-Wire DC NPN
	Ni 4-EM12E-VP6X-H1141	T1633191	Comp. Output	4	4-Wire DC PNP
	Ni 4-M12E-VP6X-H1141	T1633190	Comp. Output	4	
Ni 8-M12E-VP6X-H1141	T4611389	Ext. Range, Comp. Output	8		
12 mm - Nonembeddable, Extended Barrel Length, eurofast Connection, PTFE Coated 	Ni 5U-MT12E-AD4X-H1144	M4405065	Uprox		2-Wire DC
	Ni 8-MT12HE-AN6X-H1141/S1589	T4611397	Ext. Range, weldguard	8	3-Wire DC NPN
	Ni 8U-MT12E-AN6X2-H1141	M1644248	Uprox	8	
	Ni 8U-MT12HE-AN6X2-H1141/S1589	M1644290	Uprox, weldguard	8	
	Ni 8-MT12HE-AP6X-H1141/S1589	T4611398	Ext. Range, weldguard	8	3-Wire DC PNP
	Ni 8U-MT12E-AP6X2-H1141	M1644247	Uprox	8	
	Ni 8U-MT12HE-AP6X2-H1141/S1589	M1644291	Uprox, weldguard	8	
	Ni 10U-MT12E-AP6X2-H1141	M1634844	Uprox	10	
Ni 10U-MT12E-AP6X2-H1141/S1589	M1634994	Dual LED's Uprox PTFE, weldguard	10		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	2000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.23T-*	1	Diagram 1
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 2
	2000	≤200	-25 to +70	IP 67	WG	WG	N/A	YE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	2	
	2000	≤200	-30 to +85	IP 68	WG	WG	GN	YE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	WG	WG	N/A	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	WG	WG	GN	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-65 VDC	2000	≤200	-30 to +85	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 4
10-65 VDC	2000	≤200	-30 to +85	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	5	
10-65 VDC	2000	≤200	-30 to +85	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 5
	2000	≤200	-30 to +85	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	5	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 5
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	1000	≤100	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4.23T-*	1	Diagram 5
10-30 VDC	2000	≤200	-25 to +70	IP 67	WG	WG	N/A	YE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	2	
	2000	≤200	-30 to +85	IP 67	WG	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	WG	WG	N/A	YE	RKC 4T-*/S1587	3	Diagram 5
	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	WG	WG	GN	YE	RKC 4T-*/S1587	3	
	1000	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	3	

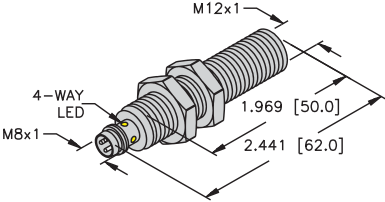
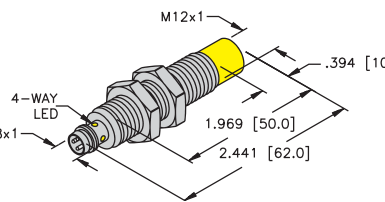
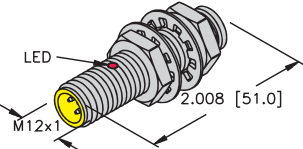
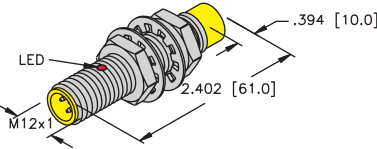
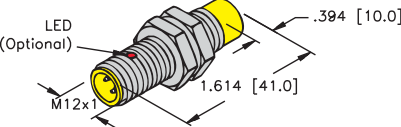
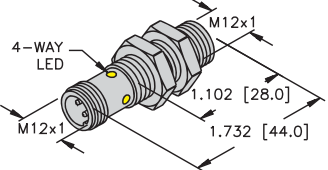
Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, <i>picofast</i>® Connection 	Bi 2-G12-AN6X-V1131	T4635583		2	3-Wire DC NPN
	Bi 4-G12-AN6X-V1131	T1690707	Extended Range	4	
	Bi 2-G12-AP6X-V1131	T4606597		2	3-Wire DC PNP
	Bi 4-G12-AP6X-V1131	T1690703	Extended Range	4	
12 mm - Nonembeddable, <i>picofast</i> Connection 	Ni 5-G12-AN6X-V1131	T4635721		5	3-Wire DC NPN
	Ni 5-G12-AP6X-V1131	T4635690		5	3-Wire DC PNP
12 mm - Embeddable, <i>eurofast</i>® Connection 	Bi 2-G12-AN6X-H1141	T4606693		2	3-Wire DC NPN
	Bi 2-G12-AP6X-H1141	T4606595		2	3-Wire DC PNP
	Bi 4-EG12-AP6X-H1141	T4607091	Extended Range	4	
12 mm - Nonembeddable, <i>eurofast</i> Connection 	Ni 5-G12-AN6X-H1141	T4635793		5	3-Wire DC NPN
	Ni 5-G12-AN7X-H1141	T1714593		5	
	Ni 8-G12-AN6X-H1141	T4611383	Extended Range	8	
	Ni 5-G12-AP6X-H1141	T4635692		5	3-Wire DC PNP
12 mm - Nonembeddable, <i>eurofast</i> Connection 	Ni 5-G12-Y0-H1141	T1005594		5	2-Wire DC NAMUR
12 mm - Embeddable, <i>eurofast</i> Connection 	Bi 2-G12K-AP6X-H1141	M4670260		2	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 1
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	2	Diagram 2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	PKG 3Z-*	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RK 4T-*	3	Diagram 4
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RK 4T-*	4	
	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	RD	RKV 4T-*	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RK 4T-*	3	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RK 4T-*	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RK 4T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RK 4T-*	4	
5-30 VDC	2000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	RK 4.21T-*	5	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	RK 4T-*	4	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, microfast® Connection 	Bi 2-G12-ADZ32X-B3131	T4205001		2	2-Wire AC/DC Short-circuit Protected
	Bi 2U-G12-ADZ32X-B3131	M4281005	Uprox	2	
	Bi 4-G12-ADZ32X-B3131	T4205031	Ext. Range	4	
		Bi 2-G12-AZ33X-B3131	T1304032		2
12 mm - Embeddable, microfast Connection, PTFE Coated 	Bi 2-GT12H-ADZ32X-B3131/S34	T4205093	WFI	2	2-Wire AC/DC Short-circuit Protected
	Bi 2-GT12H-ADZ32X-B3131/S34/S1589	T4205096	WFI/weldguard®	2	
	Bi 2-GT12-ADZ32X-B3131/S34	T4205005	WFI	2	
	Bi 2U-GT12-ADZ32X-B3131	M4281015	Uprox	2	
	Bi 4-GT12H-ADZ32X-B3131	T4205097	Stoneface	4	
	Bi 4-GT12H-ADZ32X-B3131/S1589	T4205087	weldguard	4	
	Bi 2-GT12-AZ33X-B3131/S34	T1304082		2	2-Wire AC/DC
12 mm - Nonembeddable, microfast Connection 	Ni 4-G12-ADZ32X-B3131	T4205201		4	2-Wire AC/DC Short-circuit Protected
	Ni 8U-G12-ADZ32X-B3131	M4281105	Ext. Range, Uprox	8	
		Ni 4-G12-AZ33X-B3131	T1304232		4
12 mm - Nonembeddable, microfast Connection, PTFE Coated 	Ni 4-GT12-ADZ32X-B3131/S34	T4205205	WFI	4	2-Wire AC/DC
	Ni 4-GT12-AZ33X-B3131/S34	T1304292	WFI	4	
	Ni 4-GT12H-ADZ32X-B3131/S34/S1589	T4205293	weldguard	4	
	Ni 8-GT12H-ADZ32X-B3131/S1589	T4205480-1	weldguard	8	
	Ni 8U-GT12-ADZ32X-B3131	M4281115	Uprox	8	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	<p>Diagram 1</p>
	20	≤100	-30 to +85	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-30 to +85	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-30 to +85	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	PA 12	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KB 3T-*	1	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KB 3T-*	1	
	20	≤100	-30 to +85	IP 67	TC	PA 12	N/A	YE	KB 3T-*	1	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable 	Bi 2-M12-AD4X	T4405000		2	2-Wire DC
	Bi 3-M12-AD4X	T4405035	<i>Ext. Range</i>	3	
	Bi 3U-EM12-AN6X	M1634320	Uprox	3	3-Wire DC NPN
	Bi 3U-M12-AN6X	M1634120	Uprox	3	
	Bi 4-M12-AN6X	T4607130	<i>Ext. Range</i>	4	
	Bi 4U-M12-AN6X	M1634823		4	
	Bi 2-M12-AP6X	T4605000		2	3-Wire DC PNP
	Bi 2-M12-AP6X/S100	M4605003	High Temp. 100°C	2	
	Bi 3U-EM12-AP6X	M1634300	Uprox	3	
	Bi 3U-M12-AP6X	M1634100	Uprox	3	
	Bi 4-M12-AP6X	T4607006	<i>Ext. Range</i>	4	
	Bi 4U-M12-AP6X	M1634803		4	
	Bi 2-M12-VN6X	T1640200	Comp. Output	2	4-Wire DC NPN
	Bi 4-M12-VN6X	T1643300	Ext. Range, Comp. Output	4	
	Bi 2-M12-VP6X	T1630200	Comp. Output	2	4-Wire DC PNP
Bi 4-M12-VP6X	T1633300	Ext. Range, Comp. Output	4		
12 mm - Embeddable, Potted-In Cable 	Bi 2-EM12-ADZ32X	T4205092		2	2-Wire AC/DC Short-circuit Protected
12 mm - Embeddable, Potted-In Cable, PTFE Coated 	Bi 2U-MT12-ADZ32X	M4205100	Uprox	2	2-Wire AC/DC Short-circuit Protected

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

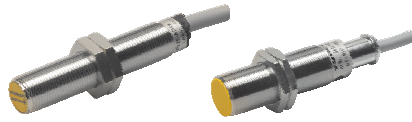


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
3-Wire DC NPN	3000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	2000	≤200	-25 to +100	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	3000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	6	Diagram 6
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	6	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Extended Length Barrel, Potted-in Cable 	Bi 2U-M12E-AD4X	M4405062	Uprox	2	2-Wire DC
	Bi 3U-M12E-AP6X	M1634108	Uprox	3	3-Wire DC PNP
	Bi 2-M12E-VN6X	T1640290	Comp. Output	2	4-Wire DC NPN
	Bi 4-M12E-VN6X	T1643290	Ext. Range, Comp. Output	4	
	Bi 4-M12E-VP6X	T1633391	Ext. Range, Comp. Output	4	4-Wire DC PNP
12 mm - Embeddable, Potted-In Cable 	Bi 2-M12T-AN6X	T4606100		2	3-Wire DC NPN
	Bi 2-M12T-AP6X	T4606000		2	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	5	Diagram 1
10-30 VDC	3000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 3
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	1	Diagram 4
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	2	Diagram 5

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
12 mm - Embeddable, Potted-In Cable 	Bi 3-GT12K-AD4X/S1610	T4405083-2	armorguard	3	2-Wire DC	
	Bi 2-EG12HK-AN6X/S1589	T4605192	weldguard	2	3-Wire DC NPN	
	Bi 2-G12K-AN6X	T4671200	Short Barrel	2		
	Bi 4-G12K-AN6X	T4670251	Short Barrel	4	3-Wire DC PNP	
	Bi 2-G12K-AP6X	T4670200	Short Barrel	2		
	Bi 4-G12K-AP6X	T4670250	Short Barrel	4	2-Wire DC NAMUR	
	Bi 2-EG12-Y0X	T4012000		2		
	Bi 2-G12-Y0	T1005400		2		
		Bi 2-G12-Y0X	T4010000		2	
	12 mm - Embeddable, Potted-In Cable 	Bi 2-EG12-AN6X	T4605101		2	3-Wire DC NPN
Bi 2-G12-AN6X		T4635500		2		
Bi 2-G12-AN7X		T4730500	TTL Compatible	2		
Bi 4-G12-AN6X		T1690706	Extended Range	4	3-Wire DC PNP	
Bi 2-EG12-AP6X		T4605001		2		
Bi 2-G12-AP6X		T4635400		2		
12 mm - Embeddable, Potted-In Cable 	Bi 2-G12-ADZ32X	T4205000		2	2-Wire AC/DC Short-circuit Protected	
	Bi 4-G12-ADZ32X	T4205030	Extended Range	4		
	Bi 2-G12-AZ33X	T1304002		2	2-Wire AC	
12 mm - Embeddable, Potted-In Cable, PTFE Coated 	Bi 2-GT12-ADZ32X/S34	T4205210	WFI	2	2-Wire AC/DC Short-circuit Protected	
	Bi 2-GT12-AZ33X/S34	T1304052	WFI	2	2-Wire AC/DC	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	AG	WG	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	2000	≤200	-25 to +70	IP 67	WG	WG	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
5-30 VDC	5000	Remote	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	5000	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	4	
	5000	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤150	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
35-250 VAC	20	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	5	
35-250 VAC	20	≤200	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	5	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Non-Embeddable, Potted-In Cable 	Ni 4-M12-AD4X	T4405200		4	2-Wire DC
	Ni 8-M12-AD4X	T4411235	Extended Range	8	
	Ni 4-M12-AN6X	T4606380		4	3-Wire DC NPN
	Ni 8-M12-AN6X	T4611318	Extended Range	8	
	Ni 8U-EM12-AN6X	M1644320	Ext. Range, Uprox	8	
	Ni 8U-M12-AN6X	M1644120	Ext. Range, Uprox	8	
	Ni 10U-M12-AN6X	M1634825		10	
	Ni 4-M12-AP6X	T4605200		4	3-Wire DC PNP
	Ni 8-M12-AP6X	T4611319	Extended Range	8	
	Ni 8U-EM12-AP6X	M1644300	Uprox	8	
	Ni 8U-M12-AP6X	M1644100	Uprox	8	
	Ni 10U-M12-AP6X	M1634805		10	
	Ni 4-M12-VN6X	T1640400	Ext. Range, Comp. Output	4	4-Wire DC NPN
	Ni 8-M12-VN6X	T4611321	Ext. Range, Comp. Output	8	
	Ni 4-M12-VP6X	T1630400	Ext. Range	4	4-Wire DC PNP
	Ni 8-M12-VP6X	T4611322	Ext. Range, Comp. Output	8	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, Potted-In Cable, Extended Barrel Length 	Ni 4-M12E-AD4X	T4405298		4	2-Wire DC
	Ni 8-M12E-AN6X	T4611326		8	3-Wire DC NPN
	Ni 8U-EM12E-AP6X	M1644303	Uprox	8	3-Wire DC PNP
	Ni 8U-M12E-AP6X	M1644102	Uprox	8	
	Ni 4-M12E-VN6X	T1643190	Comp. Output	4	4-Wire DC NPN

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



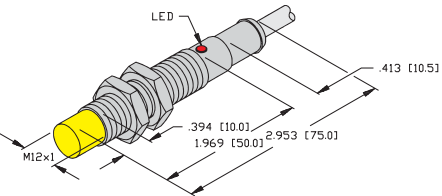
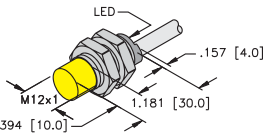
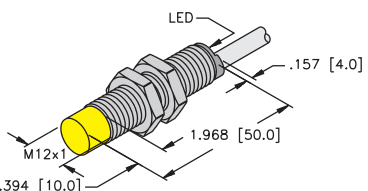
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	<p>Diagram 4</p>

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, Potted-In Cable 	Ni 4-M12T-AN6X	T4606300		4	3-Wire DC NPN
	Ni 4-M12T-AP6X	T4606200		4	3-Wire DC PNP
12 mm - Nonembeddable, Potted-In Cable 	Ni 8-G12K-AD4X	T4411230	<i>Short Barrel</i>	8	2-Wire DC
	Ni 5-G12K-AN6X	T4671300	<i>Short Barrel</i>	5	3-Wire DC NPN
	Ni 5-G12K-AP6X	T4670300	<i>Short Barrel</i>	5	3-Wire DC PNP
	Ni 5-G12-Y0	T1005500		5	2-Wire NAMUR
	Ni 5-G12-Y0X	T4010100		5	
12 mm - Nonembeddable, Potted-In Cable 	Ni 5-G12-AN6X	T4635700		5	3-Wire DC NPN
	Ni 5-G12-AN7X	T1714500	<i>TTL Compatible</i>	5	
	Ni 8-G12-AN6X	T4611327	<i>Extended Range</i>	8	
	Ni 5-G12-AP6X	T4635600		5	3-Wire DC PNP

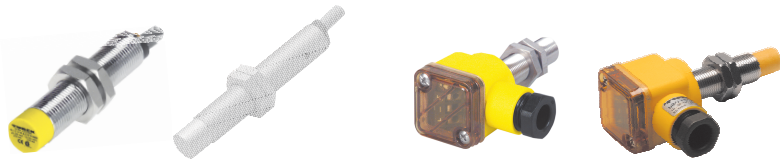
For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	2	Diagram 1
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	3	Diagram 2
10-65 VDC	2000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 3
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 4
5-30 VDC	2000	N/A	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	1	
	2000	N/A	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤150	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	

For material descriptions see page M36.

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Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, Potted-In Cable 	Ni 4-G12-AZ33X	T1304202		4	2-Wire AC/DC
	Ni 4-G12-ADZ32X	T4205200		4	2-Wire AC/DC
	Ni 8-G12-ADZ32X	T4205400	Extended Range	8	
12 mm - Nonembeddable, Potted-In Cable, PTFE Coated 	Ni 4-GT12-ADZ32X/S34	T4205210	Weld-field Immune	4	2-Wire AC/DC
	Ni 4-GT12-AZ33X/S34	T1304294	Weld-field Immune	4	2-Wire AC/DC
12 mm - Embeddable, Terminal Chamber 	Bi 2-G12SK-AN6X2	T4636500		2	3-Wire DC NPN
	Bi 3U-EG12SK-AN6X	M1634420	Uprox	3	
	Bi 2-G12SK-AP6X2	T4636400		2	3-Wire DC PNP
	Bi 3U-EG12SK-AP6X	M1634400	Uprox	3	
12 mm - Nonembeddable, Terminal Chamber 	Ni 5-G12SK-AN6X2	T4636700		5	3-Wire DC NPN
	Ni 8U-EG12SK-AN6X	M1644420	Uprox	8	
	Ni 5-G12SK-AP6X2	T4636600		5	3-Wire DC PNP
	Ni 8U-EG12SK-AP6X	M1644400	Uprox	8	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
35-250 VAC	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 2
	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	Diagram 3
	20	≤100	-25 to +70	IP 67	TC	TC	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	3	
	3000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	3	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	
10-30 VDC	1500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	3	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
12 mm - Embeddable/Nonembeddable, Plastic, eurofast Quick Disconnect 	Bi 2-S12-AD4X-H1141	T4453094		•	2	2-Wire DC
	Bi 2-S12-AN6X-H1141	T4652100		•	2	3-Wire DC NPN
	Ni 4-S12-AN6X-H1141	T4652300			4	
	Bi 2-S12-AP6X-H1141	T4652000		•	2	3-Wire DC PNP
	Ni 4-S12-AP6X-H1141	T4652200			4	
	Bi 2-S12-Y0X-H1141	T4030090		•	2	2-Wire DC NAMUR
	Ni 5-S12-Y0X-H1141	T4030300			5	
	12 mm - Embeddable/Nonembeddable, Plastic, eurofast Quick Disconnect 	Bi 3U-S12-AN6X-H1141	M1634620	<i>Uprox</i>	•	3
Ni 8U-S12-AN6X-H1141		M1644620	<i>Uprox</i>		8	
Bi 3U-S12-AP6X-H1141		M1634600	<i>Uprox</i>	•	3	3-Wire DC PNP
Ni 8U-S12-AP6X-H1141		M1644600	<i>Uprox</i>		8	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RKK 4.2T-*	1	Diagram 1
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RKK 4T-*	2	Diagram 2
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RKK 4T-*	2	
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RKK 4T-*	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RKK 4T-*	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RKK 4T-*	3	
5-30 VDC	5000	Remote	-25 to +70	IP 67	PA	PA	N/A	RD	RKK 4T-*	4	Diagram 3
	2000	Remote	-25 to +70	IP 67	PA	PA	N/A	RD	RKK 4T-*	4	
10-30 VDC	3000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	2	Diagram 4
	2000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	2	
10-30 VDC	3000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	3	Diagram 4
	2000	≤200	-30 to +85	IP 68	PBT	PBT	N/A	YE	RKK 4T-*	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
12 mm - Embeddable/Nonembeddable, Plastic Potted-In Cable 	Bi 2-P12-Y0	T1009300		•	2	2-Wire DC NAMUR
	Bi 2-P12-Y0/S100	T1030200	High Temp. 100°C	•	2	
	Bi 2-P12-Y0X	T4030000		•	2	
	Bi 2-P12-Y1X/S97	T4030021	Low Temp. -40°C	•	2	
	Ni 5-P12-Y0/S100	T1024200	High Temp. 100°C		5	2-Wire DC NAMUR
	Ni 5-P12-Y0X	T4030100			5	
	Ni 5-P12-Y1	M1009400			5	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	5000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	Diagram 1
	5000	Remote	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	N/A	2M/PVC	1	
	5000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
	5000	Remote	-40 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/Silicon	1	
5-30 VDC	2000	Remote	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	N/A	2M/PVC	1	
	2000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
	2000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
12 mm - Embeddable/Nonembeddable, Plastic, Potted-In Cable 	Bi 3U-S12-AN6X	M1634520	<i>Uprox</i>	•	3	3-Wire DC NPN
	Ni 8U-S12-AN6X	M1644520	<i>Uprox</i>		8	
	Bi 3U-S12-AP6X	M1634500	<i>Uprox</i>	•	3	3-Wire DC PNP
	Ni 8U-S12-AP6X	M1644500	<i>Uprox</i>		8	
12 mm - Embeddable/Nonembeddable, Plastic, Potted-In Cable 	Bi 2-S12-AD4X	T4453000		•	2	2-Wire DC
	Ni 4-S12-AD4X	T4453200			4	
	Bi 2-S12-AN6X	T4653100		•	2	3-Wire DC NPN
	Bi 2-S12-AN7X	T1713800	<i>TTL Compatible</i>	•	2	
	Bi 2-S12-AN7X/S100	T1773100	<i>High Temp. 100°C</i>	•	2	
	Ni 4-S12-AN6X	T4653300			4	
	Ni 4-S12-AN7X	T1713900	<i>TTL Compatible</i>		4	
	Ni 4-S12-AN7X/S100	T1773000	<i>High Temp. 100°C</i>		4	
	Bi 2-S12-AP6X	T4653000		•	2	3-Wire DC PNP
	Bi 2-S12-AP6X/S97	M1664500	<i>Low Temp. -40°C</i>	•	2	
	Bi 2-S12-AP7X/S100	T1755500	<i>High Temp. 100°C</i>	•	2	
	Ni 4-S12-AP6X	T4653200			4	
	Ni 4-S12-AP6X/S97	M4653221	<i>Low Temp. -40°C</i>		4	
	Ni 4-S12-AP7X/S100	T1768100	<i>High Temp. 100°C</i>		4	
	Bi 2-S12-AZ31X	T1302000		•	2	2-Wire AC/DC
	Bi 2-S12-AZ31X/S100	M1302001	<i>High Temp. 100°C</i>	•	2	
Ni 4-S12-AZ31X	T1302200			4		
Ni 4-S12-AZ31X/S100	T1302201	<i>High Temp. 100°C</i>		4		
Bi 2-S12-ADZ32X	T4453091			•	2	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤200	-30 to +85	IP 68	PBT	PBT	EPTR	N/A	YE	2M/PVC	2	Diagram 1
	2000	≤200	-30 to +85	IP 68	PBT	PBT	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	3000	≤200	-30 to +85	IP 68	PBT	PBT	EPTR	N/A	YE	2M/PVC	3	Diagram 2
	2000	≤200	-30 to +85	IP 68	PBT	PBT	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 3
	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 4
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-25 to +100	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-40 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/Silicon	3	
	2000	≤200	-25 to +100	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-40 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/Silicon	3	
	1500	≤200	-25 to +100	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	
	20	≤100	-25 to +100	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	
	20	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	
	20	≤100	-25 to +100	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
12 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi 2-P12SK-Y1X	M4031000		•	2	2-Wire DC NAMUR
	Ni 5-P12SK-Y0X	T4031100			5	2-Wire DC NAMUR
12 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi 2-P12SK-AD4X	T4453050		•	2	2-Wire DC
	Bi 2-P12SK-AN6X2	T4654000		•	2	3-Wire DC NPN
	Bi 2-P12SK-AP6X2	T4653900		•	2	3-Wire DC PNP
	Bi 3U-P12SK-AP6X	M1634700	<i>Uprox</i>	•	3	
	Ni 5-P12SK-AP6X2	T4654100			5	
Bi 2-P12SK-AZ31X	M1339500			•	2	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/	Wiring Diagram #	Wiring Diagrams
5-30 VDC	5000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	1	<p>Diagram 1</p>
5-30 VDC	2000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	1	<p>Diagram 2</p>
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	2	<p>Diagram 3</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	3	<p>Diagram 4</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	4	<p>Diagram 5</p>
	3000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	- - - -	4	
	1500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	4	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	- - - -	5	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable eurofast® Connection 	Bi 5-M18-AD4X-H1141	T4414500		5	2-Wire DC
	Bi 7-M18-AD4X-H1141	T4414541	Extended Range	7	
	Bi 5-EM18-AN6X-H1141	T4614601		5	3-Wire DC NPN
	Bi 5-M18-AN6X-H1141	T4614600		5	
	Bi 5U-EM18-AN6X-H1141	M1635350	Uprox	5	
	Bi 5U-M18-AN6X-H1141	M1635150	Uprox	5	
	Bi 8-M18-AN6X-H1141	T4615100	Extended Range	8	
	Bi 8U-EM18-AN6X-H1141	M1644738	Uprox	8	
	Bi 8U-M18-AN6X-H1141	M1644737	Uprox	8	
	Bi 5-EM18-AP6X-H1141	T4614501		5	3-Wire DC PNP
	Bi 5-M18-AP6X-H1141	T4614500		5	
	Bi 5U-EM18-AP6X-H1141	M1635340	Uprox	5	
	Bi 5U-M18-AP6X-H1141	M1635140	Uprox	5	
	Bi 8-M18-AP6X-H1141	T4615000	Ext. Range	8	
	Bi 8-EM18H-AP6X-H1141	T4615094	Ext. Range	8	
	Bi 8-EM18H-AP6X-H1141/S1589	T4615099	weldguard®	8	
	Bi 8U-EM18-AP6X-H1141	M1644734	Uprox	8	
	Bi 8U-M18-AP6X-H1141	M1644731	Stainless steel Uprox	8	
	Bi 5-EM18-VN4X-H1141	T4614699	Comp. Output	5	4-Wire DC NPN
	Bi 5-M18-VN4X-H1141	T1571800	Comp. Output	5	
	Bi 8-M18-VN4X-H1141	T4590702	Ext. Range	8	
	Bi 5-M18-VP4X-H1141	T1561800	Comp. Output	5	4-Wire DC PNP
	Bi 8-M18-VP4X-H1141	T4590701	Ext. Range	8	
	Bi 5-M18-Y1X-H1141	M4015200		5	2-Wire NAMUR

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	2500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	2	
	1500	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	3	Diagram 3
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKV 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	3	
	1500	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	3	
10-65 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4.4T-*	4	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 5
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 6
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	5	
5-30 VDC	1000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	6	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection, PTFE Coated 	Bi 7-MT18H-AD4X-H1141	T4414580-1	Extended Range	7	2-Wire DC
	Bi 5U-MT18-AN6X-H1141	M1635250	Uprox	5	3-Wire DC NPN
	Bi 5U-MT18-AN6X2-H1141	M1635255	Uprox	5	
	Bi 8U-MT18-AN6X-H1141	M1644739	Uprox+ PTFE	8	
	Bi 8U-MT18-AN6X-H1141/S1589	M1644791	Uprox+ PTFE, weldguard	8	
	Bi 5U-MT18-AP6X-H1141	M1635240	Uprox	5	3-Wire DC PNP
	Bi 5U-MT18-AP6X2-H1141	M1635245	Uprox	5	
	Bi 8U-MT18-AP6X-H1141	M1644730	Uprox+ PTFE	8	
	Bi 8U-MT18-AP6X-H1141/S1589	M1644730-1	Uprox+ PTFE, weldguard	8	
	18 mm - Embeddable, eurofast Connection, Short Barrel 	Bi 8-M18K-AP6X-H1141	T4615050	Ext. Range, Short Barrel	8

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	TC	N/A	YE	RK 4,2T-*	1	Diagram 1
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	PA 12	N/A	YE	RK 4T-*	2	Diagram 2 Diagram 3
	2500	≤200	-30 to +85	IP 67	TC	PA 12	GN	YE	RK 4T-*	2	
	1500	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	1500	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	PA 12	N/A	YE	RK 4T-*	3	
	2500	≤200	-30 to +85	IP 67	TC	PA 12	GN	YE	RK 4T-*	3	
	1500	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	3	
	1500	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	400	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection 	Bi 5U-M18M-AD4X-H1144	M4405066	Uprox+	5	2-Wire DC
	Bi 5U-MT18HM-AD4X-H1144/S1589	M4405093	Uprox+	5	
	Bi 5U-MT18M-AD4X-H1144	M4405068	PTFE, weldguard Uprox+ PTFE	5	
	Bi 5U-EM18H-AN6X2-H1141/S395	M1635146	Stoneface, Uprox	5	3-Wire DC NPN
	Bi 5U-EM18H-AN6X2-H1141/S395/S1589	M1635196	weldguard®, Uprox	5	
	Bi 5U-M18-AN6X-H1141/S395	M1635154	Uprox	5	
	Bi 5U-EM18-AP6X-H1141/S395	M1635342	Uprox	5	3-Wire DC PNP
	Bi 5U-EM18H-AP6X2-H1141/S395	M1635158	Stoneface, Uprox	5	
	Bi 5U-EM18H-AP6X2-H1141/S395/S1589	M1635197	weldguard, Uprox	5	
	Bi 5U-EM18M-AP6X2-H1141	M1635349	Uprox	5	
Bi 5U-M18-AP6X-H1141/S395	M1635141	Stoneface, Uprox	5		
Bi 8-M18M-AP6X-H1141	T4615083	Extended Range	8		
18 mm - Embeddable, eurofast Connection 	Bi 5U-M18M-VN4X-H1141	M1581311	Comp. Output	5	4-Wire DC NPN
	Bi 5U-M18M-VP4X-H1141	M1581255	Comp. Output	5	4-Wire DC PNP
	Bi 5U-EM18M-VP4X-H1141	M1581268	Uprox	5	
18 mm - Embeddable, eurofast Connection, PTFE Coated 	Bi 5U-MT18H-AN6X2-H1141/S395	M1635225	Stoneface, Uprox	5	3-Wire DC NPN
	Bi 5U-MT18H-AN6X2-H1141/S395/S1589	M1635290	weldguard, Uprox	5	
	Bi 5U-MT18-AP6X-H1141/S395	M1635231	Stoneface, Uprox	5	3-Wire DC PNP
	Bi 5U-MT18H-AP6X2-H1141/S395	M1635220	Uprox, Stoneface	5	
	Bi 5U-MT18H-AP6X2-H1141/S395/S1589	M1635291	weldguard, Uprox	5	
	Bi 5U-MT18M-AP6X2-H1141	M1635252	Uprox	5	
	Bi 8U-MT18M-AP6X2-H1141	M1644740	Uprox+ Dual LED's	8	
Bi 8U-MT18M-AP6X2-H1141/S1589	M1644741	Uprox+ PTFE, weldguard	8		
18 mm - Embeddable, eurofast® Connection 	Bi 5U-EM18H-AP6X2-H1141/S395/S1610	M1635198	armorguard	5	3-Wire DC PNP
	Bi 5U-MT18H-AP6X2-H1141/S395/S1610	M1635293	armorguard	5	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4T-*/S1587	5	Diagram 1
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4.23T-*/S1587	5	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4T-*/S1587	5	
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKV 4T-*	1	Diagram 2
	2500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	1	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	1	
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	Diagram 3
	2500	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKV 4T-*	2	
	2500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
	2500	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	2	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
10-65 VDC	2500	≤200	-30 to +85	IP 97	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 4
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	3	
10-65 VDC	2500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 4
	2500	≤200	-30 to +85	IP 67	SS	PA 12	N/A	YE	RK 4.4T-*	4	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RK 4T-*	1	Diagram 5
	2500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	2	
	2500	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RK 4T-*	2	
	2500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	2500	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	2	
	1500	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	2	
10-30 VDC	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4T-*/S1587	2	
	2500	≤200	-30 to +85	IP 68	AG	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP 68	AG	WG	GN	YE	RK 4T-*/S600	2	
	2500	≤200	-30 to +85	IP 68	AG	WG	GN	YE	RK 4T-*/S600	2	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Ext. Barrel Length, eurofast® Connection 	Bi 5-M18E-AD4X-H1141	T4414591		5	2-Wire DC
	Bi 7-M18E-AD4X-H1141	T4414580	Ext. Range	7	
	Bi 5-M18E-AN6X-H1141	T4614697		5	3-Wire DC NPN
	Bi 5U-M18E-AN6X-H1141	M1635122	Uprox	5	
	Bi 8-EM18HE-AN6X-H1141/S1589	T4615193	weldguard®, Ext. Range	8	
	Bi 8-EM18HE-AN6X-H1141	T4615194	Stoneface, Ext. Range	8	
	Bi 8-M18E-AN6X-H1141	T4615190	Ext. Range	8	
	Bi 5-M18E-AP6X-H1141	T4614589		5	3-Wire DC PNP
	Bi 5U-M18E-AP6X-H1141	M1635103	Uprox	5	
	Bi 8-EM18HE-AP6X-H1141	T4615095	Stoneface	8	
	Bi 8-EM18HE-AP6X-H1141/S1589	T4615096	weldguard, Ext. Range	8	
	Bi 8-M18E-AP6X-H1141	T4615090	Ext. Range	8	
	Bi 8-EM18E-AP6X-H1141	T4615095-2	Ext. Range	8	
	Bi 8U-EM18E-AP6X-H1141	M1634865	Stainless steel	8	
	Bi 8U-EM18M-AP6X2-H1141/S1589	M1644771	Stainless steel, weldguard	8	
	Bi 5-M18E-VN4X-H1141	T1571890	Comp. Output		4-Wire DC NPN
	Bi 5-M18E-VP4X-H1141	T1561890	Comp. Output	5	4-Wire DC PNP
	Bi 8U-M18M-VP44X-H1141	M1634877		8	
18 mm - Embeddable, Ext. Barrel Length, eurofast Connection, PTFE Coated 	Bi 7-MT18HE-AD4X-H1141	T4414597	Stoneface	7	2-Wire DC
	Bi 7-MT18HE-AD4X-H1144	T4414598	Stoneface	7	
	Bi 7-MT18HE-AD4X-H1141/S1589	T4414588	weldguard	7	
	Bi 7-MT18HE-AD4X-H1144/S1589	T4414599	weldguard	7	
	Bi 5U-MT18E-AP6X2-H1141	M1635247		Uprox	5

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



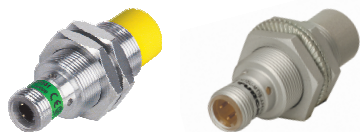
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
	2500	≤200	-30 to +85	IP 68	CPB	PA 12	N/A	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	3	
	500	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKV 4T-*	3	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	Diagram 3
	2500	≤200	-30 to +85	IP 68	AG	WG	N/A	YE	RK 4T-*	4	
	500	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKV 4T-*	4	
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	4	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	4	
	500	≤200	-25 to +70	IP 67	SS	PA 12	N/A	YE	RKV 4T-*	4	
	1000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	Diagram 5
	1500	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4.4T-*	6	
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.2T-*	1	Diagram 6
	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.23T-*/S674	2	
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4.2T-*/S1587	1	
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4.23T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP 68	TC	TC	GN	YE	RK 4T-*	4	

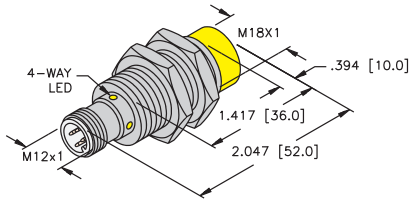
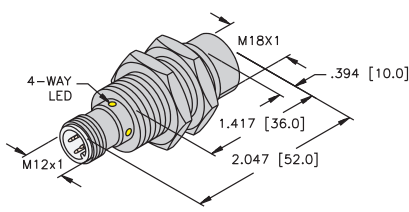
Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
18 mm - Nonembeddable, eurofast® Connection 	Ni 8-M18-AD4X-H1141	T4414700		8	2-Wire DC	
	Ni 8-M18-AD4X-H1144	T4411288		8		
	Ni 14-M18-AD4X-H1141	T4417241	Ext. Range	14		
	Ni 14-M18-AD4X-H1144	T4417290	Ext. Range	14		
	Ni 8-M18-AN6X-H1141	T4614800			8	3-Wire DC NPN
	Ni 10-M18-AN6X-H1141	T4614892		10		
	Ni 12U-EM18-AN6X-H1141	M1645350	Uprox	12		
	Ni 12U-EM18-AN6X2-H1141	M1645355	Uprox	12		
	Ni 12U-M18-AN6X-H1141	M1645150	Uprox	12		
	Ni 14-M18-AN6X-H1141	T4611410	Ext. Range	14		
	Ni 15U-EM18-AN6X-H1141	M1635336	Uprox+ Stainless steel	15		
	Ni 15U-M18-AN6X-H1141	M1635335	Uprox+	15		
	Ni 8-M18-AP6X-H1141	T4614700			8	3-Wire DC PNP
	Ni 10-M18-AP6X-H1141	T4641291		10		
	Ni 12U-EM18-AP6X-H1141	M1645340	Uprox	12		
	Ni 12U-EM18-AP6X2-H1141	M1645345	Uprox	12		
	Ni 12U-M18-AP6X-H1141	M1645140	Uprox	12		
	Ni 12U-M18-AP6X2-H1141	M1645145	Uprox	12		
	Ni 14-M18-AP6X-H1141	T4611400	Ext. Range	14		
	Ni 15U-EM18-AP6X-H1141	M1635332	Uprox+ Stainless steel	15		
	Ni 15U-M18-AP6X-H1141	M1635331	Uprox+	15		
	Ni 8-M18-VN4X-H1141	T1571900	Comp. Outputs		8	4-Wire DC NPN
	Ni 14-M18-VN4X-H1141	T4590603	Ext. Range	14		
	Ni 8-M18-VP4X-H1141	T1561900	Comp. Outputs		8	4-Wire DC PNP
	Ni 14-M18-VP4X-H1141	T4590602	Ext. Range	14		
	Ni 10-M18-Y1X-H1141	M4015300			10	2-Wire NAMUR
	18 mm - Nonembeddable, eurofast Connection, PTFE Coated 	Ni 12U-MT18-AN6X-H1141	M1645250	Uprox	12	3-Wire DC NPN
		Ni 15U-MT18-AN6X-H1141	M1635337	Uprox+ PTFE	15	
		Ni 15U-MT18-AN6X-H1141/S1589	M16353370	Uprox+ PTFE, weldguard	15	
		Ni 12U-MT18-AP6X-H1141	M1645240	Uprox	12	3-Wire DC PNP
		Ni 12U-MT18-AP6X2-H1141	M1645245	Uprox	12	
		Ni 12U-MT18H-AP6X-H1141/S1589	M1645292	weldguard Uprox	12	
Ni 12U-MT18H-AP6X2-H1141/S1589		M1645293	weldguard Uprox	12		
Ni 15U-MT18-AP6X-H1141		M1635333	Uprox+ PTFE	15		
Ni 15U-MT18-AP6X-H1141/S1589		M1635333-1	Uprox+ PTFE, weldguard	15		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



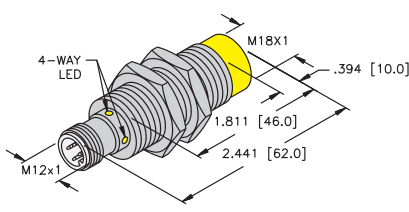
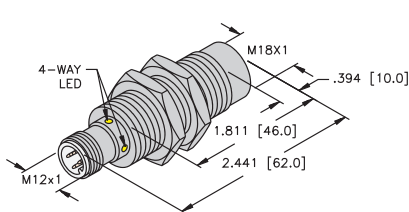
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.23T-*	2	
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.23T-*	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	3	
10-30 VDC	1000	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	3	Diagram 3
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	4	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	Diagram 5
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
5-30 VDC	500	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7	Diagram 6
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	Diagram 7
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	4	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	4	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	4	
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	4	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, eurofast® Connection 	Ni 12U-EM18-AN6X-H1141/S395	M1645351	Uprox	12	3-Wire DC NPN
	Ni 12U-EM18H-AN6X2-H1141/S395/S1589	M1645490	weldguard® Uprox	12	
	Ni 12U-M18-AN6X-H1141/S395	M1645151	Uprox	12	
	Ni 12U-EM18-AP6X-H1141/S395	M1645342	Uprox	12	3-Wire DC PNP
	Ni 12U-EM18-AP6X2-H1141/S395	M1645304	Uprox	12	
	Ni 12U-EM18H-AP6X2-H1141/S395/S1589	M1645491	weldguard Uprox	12	
	Ni 12U-M18-AP6X-H1141/S395	M1645142	Uprox	12	
	Ni 15U-MT18M-AP6X2-H1141	M1635338	Uprox Dual LED's	15	
	Ni 15U-MT18M-AP6X2-H1141/S1589	M16352920	Uprox Dual LED's, weldguard	15	
	Ni 10U-M18M-AD4X-H1144	M4405069	Uprox	15	2-Wire DC
	Ni 10U-MT18M-AD4X-H1144	M4405071	Uprox PTFE	15	
	Ni 12U-M18M-VN4X-H1141	M1581552	Comp. Output	12	4-Wire DC NPN
	Ni 12U-M18M-VP4X-H1141	M1581458	Comp. Output	12	4-Wire DC PNP
	18 mm - Nonembeddable, eurofast Connection, PTFE Coated 	Ni 12U-MT18-AN6X-H1141/S395	M1645251	Uprox	12
Ni 12U-MT18H-AN6X2-H1141/S395/S1589		M1645290	weldguard Uprox	12	
Ni 12U-MT18-AP6X-H1141/S395		M1645242	Uprox	12	3-Wire DC PNP
Ni 12U-MT18-AP6X2-H1141/S395		M1645246	Uprox	12	
Ni 12U-MT18H-AP6X2-H1141/S395/S1589		M1645291	weldguard Uprox	12	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	2	Diagram 1
	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	Diagram 2
	2000	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1000	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	3	
10-30 VDC	1000	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RKC 4T-*/S1587	3	Diagram 3
	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4.23T-*/S1587	1	
10-65 VDC	1000	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RKC 4.23T-*/S1587	1	Diagram 4
10-65 VDC	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	
10-65 VDC	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 5
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	2	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	Diagram 5
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, Ext. Barrel Length eurofast® Connection 	Ni 8-M18E-AD4X-H1141	T4411210		8	2-Wire DC
	Ni14-M18E-AD4X-H1141	T4417292	Ext. Range	14	
	Ni10-M18E-AN6X-H1141	T4614894		10	3-Wire DC NPN
	Ni14-EM18HE-AN6X-H1141/S1589	T4611494	weldguard	14	
	Ni14-M18E-AN6X-H1141	T4611483	Ext. Range	14	
	Ni 8-M18E-AP6X-H1141	T4614794		8	3-Wire DC PNP
	Ni10-M18E-AP6X-H1141	T4641294		10	
	Ni12U-M18E-AP6X-H1141	M1645143	Uprox	12	
	Ni14-EM18HE-AP6X-H1141/S1589	T4611495	weldguard	14	
	Ni14-M18E-AP6X-H1141	T4611489	Ext. Range	14	
Ni 8-M18E-VN4X-H1141	T1571990		Comp. Output	8	4-Wire DC NPN
Ni 8-M18E-VP4X-H1141	T1561990		Comp. Output	8	4-Wire DC PNP
18 mm - Nonembeddable, Ext. Barrel Length eurofast Connection, PTFE Coated 	Ni14-MT18HE-AN6X-H1141/S1589	T4611496	weldguard	14	3-Wire DC NPN
	Ni14-MT18HE-AP6X-H1141/S1589	T4611497	weldguard	14	3-Wire DC PNP
18 mm - Embeddable, eurofast® Connection 	Bi 5-G18KK-AP6-H1141	M4670410	Short Barrel	5	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



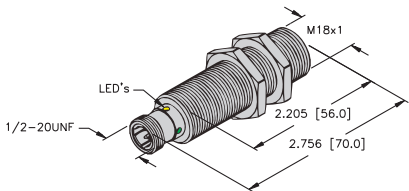
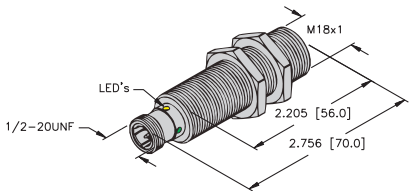
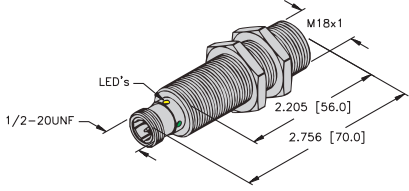
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 3
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	3	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 4
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 5
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	RK 4T-*	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	RK 4T-*	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, <i>microfast</i>® Connection 	Bi 5U-G18-ADZ30X2-B3331	M4281213	Uprox	5	2-Wire AC/DC Short-Circuit Protected
	Bi 5-G18-ADZ30X2-B3331	T4208092		5	
	Bi 8-G18-ADZ30X2-B3331	T4209301	Ext. Range	8	
18 mm - Embeddable, <i>microfast</i> Connection, PTFE Coated 	Bi 5-GT18-ADZ30X2-B3331	T4255491		5	2-Wire AC/DC Short-Circuit Protected
	Bi 5-GT18-ADZ30X2-B3331/S34	T4255400	WFI	5	
	Bi 5-GT18H-ADZ30X2-B3331/S34	T4255289	WFI	5	
	Bi 5-GT18H-ADZ30X2-B3331/S34/S1589	T4255283	weldguard ®	5	
	Bi 5U-GT18-ADZ30X2-B3331	M4281223	Uprox	5	
18 mm - Embeddable, <i>microfast</i> Connection 	Bi 5-G18-AZ3X-B3331	T4372098		5	2-Wire AC/DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

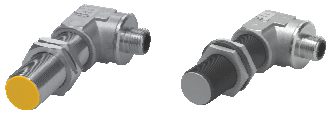


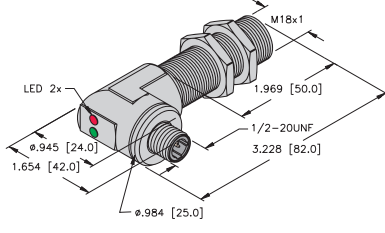
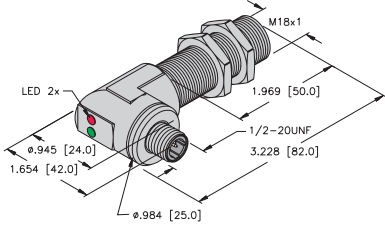
Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	KB 3T-*	1	<p>Diagram 1</p>
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	SS	PA 12	GN	RD	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	TC	SF	GN	RD	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	KBE 3T-*/S600	1	
	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	KB 3T-*	1	

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, <i>microfast</i>® Connection 	Bi 5-G18-AZ3X-B3431	T4372090		5	2-Wire AC/DC
18 mm - Embeddable, <i>microfast</i> Right Angle Connection, PTFE Coated 	Bi 5-GT18-ADZ30X2-B3431/S34	T4255605	<i>WFI</i>	5	2-Wire AC/DC Short-Circuit Protected
	Bi 5-GT18H-ADZ30X2-B3431/S34/S1589	T4255282	weldguard®	5	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

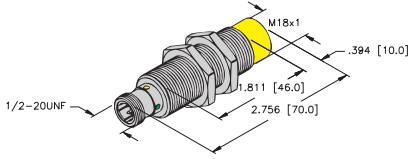
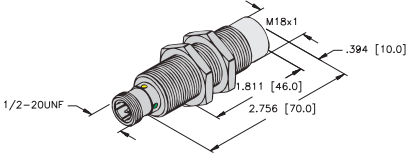
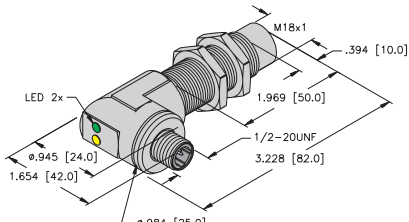


Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	KB 3T-*	1	<p>Diagram 1</p>
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	KBE 3T-*/S600	1	

* Length in meters.

For material descriptions see page M36.

Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, microfast® connection 	Ni 8-G18-ADZ30X2-B3331/S34	T4209100	WFI	8	2-Wire AC/DC Short-Circuit Protected
	Ni12U-G18-ADZ30X2-B3331	M4281413	Uprox	12	
	Ni14-G18-ADZ30X2-B3331	T4205403	Ext. Range	14	
	Ni10-G18-AZ3X-B3331	T4372192		10	2-Wire AC/DC
	Ni 8-G18-AZ3X-B3331	T4350588		8	
18 mm - Nonembeddable, microfast connection, PTFE Coated 	Ni 8-GT18-ADZ30X2-B3331/S34	T4209101	WFI	8	2-Wire AC/DC Short-Circuit Protected
	Ni12U-GT18-ADZ30X2-B3331	M4281423	Uprox	12	
18 mm - Nonembeddable, PTFE Coated, microfast Right Angle Connection 	Ni 8-GT18-ADZ30X2-B3431/S34	T4209201	WFI	8	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	KB 3T-*	1	<p>Diagram 1</p>
	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	KB 3T-*	1	
20-250 VAC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	
	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, minifast® Connection 	Bi 5-G18-AN6X-B1341	T4695200		5	3-Wire DC NPN
	Bi 5-G18-AP6X-B1341	T4696300		5	3-Wire DC PNP
	Bi 5-G18-AP6X-B1341/S34	M4691800	WFI	5	
18 mm - Embeddable, Right Angle, minifast Connection 	Bi 5-G18-AN6X-B1441	T4695600		5	3-Wire DC NPN
	Bi 5-G18-AP6X-B1441	T4696700		5	3-Wire DC PNP
	Bi 5-G18-AP6X-B1441/S34	M4691900	WFI	5	
18 mm - Embeddable, minifast Connection 	Bi 5-G18-ADZ30X2-B1331	T4208000		5	2-Wire AC/DC Short-Circuit Protected
	Bi 5U-G18-ADZ30X2-B1331	M4281212	Uprox	5	
	Bi 5-G18-AZ3X-B1331	T4372000		5	2-Wire AC/DC
18 mm - Embeddable, minifast Connection, PTFE Coated 	Bi 5-GT18-ADZ30X2-B1331	T4255290		5	2-Wire AC/DC Short-Circuit Protected
	Bi 5-GT18-ADZ30X2-B1331/S34	T4255200	WFI	5	
	Bi 5-GT18H-ADZ30X2-B1331/S34/S1589	T4255284	weldguard®, WFI	5	
	Bi 5U-GT18-ADZ30X2-B1331	M4281222	Uprox	5	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	1	Diagram 1
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	1	Diagram 3
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	RKM 30-*M	3	
	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	RKM 30-*M	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RKM 30-*M	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	3	
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	3	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	3	
	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	RKM 30-*M	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, minifast® Right Angle Connection 	Bi 5-G18-AZ3X-B1431	T4372400		5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, minifast Right Angle Connection, PTFE Coated 	Bi 5-GT18-ADZ30X2-B1431	T4255690		5	2-Wire AC/DC Short-Circuit Protected
	Bi 5-GT18-ADZ30X2-B1431/S34	T4255600	WFI	5	
	Bi 5-GT18H-ADZ30X2-B1431/S34/S1589	T4255285	weldguard®	5	
18 mm - Nonembeddable, minifast Connection 	Ni10-G18-AN6X-B1341	T4695300		10	3-Wire DC NPN
	Ni10-G18-AP6X-B1341	T4696400		10	3-Wire DC PNP
18 mm - Nonembeddable, minifast Right Angle Connection 	Ni10-G18-AN6X-B1441	T4695700		10	3-Wire DC NPN
	Ni10-G18-AP6X-B1441	T4696800		10	3-Wire DC PNP
	Ni10-G18-VN6X-B1441	T4699100	Comp. Output	10	4-Wire DC NPN
	Ni10-G18-VP6X-B1441	T4699190	Comp. Output	10	4-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RKM 30-*M	1	<p>Diagram 1</p>
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	1	<p>Diagram 2</p>
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	<p>Diagram 3</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	<p>Diagram 4</p>
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	3	<p>Diagram 5</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	4	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	5	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable minifast® Connection 	Ni 12U-G18-ADZ30X2-B1331	M4281412	Uprox	12	2-Wire AC/DC Short-Circuit Protected
	Ni 14-G18-ADZ30X2-B1331	T4205407	Extended Range	14	
	Ni 10-G18-AZ3X-B1331	T4372100			10
18 mm - Nonembeddable minifast Connection, PTFE Coated 	Ni 8-GT18-ADZ30X2-B1331/S34	T4208801	WFI	8	2-Wire AC/DC Short-Circuit Protected
	Ni 8-GT18H-ADZ30X2-B1331/S34/S1589	T4208890	weldguard®	8	
	Ni 12U-GT18-ADZ30X2-B1331	M4281422	Uprox	12	
	Ni 14-GT18H-ADZ30X2-B1331/S1589	T4205484	weldguard	14	
18 mm - Nonembeddable, PTFE Coated minifast Right Angle Connection 	Ni 8-GT18-ADZ30X2-B1431/S34	T4208901	WFI	8	2-Wire AC/DC Short-Circuit Protected
	Ni 8-GT18H-ADZ30X2-B1431/S34/S1589	T4208990	weldguard	8	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	RKM 30-*M	1	<p>Diagram 1</p>
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	RKM 30-*M	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RKM 30-*M	1	
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 311-*M/S600	1	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	
	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	RKM 30-*M	1	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	1	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
18 mm - Embeddable, Potted-In Cable, Partial Threading 	Bi 5U-EM18-AN6X	M1635320	Uprox	5	3-Wire DC NPN	
	Bi 5U-M18-AN6X	M1635120	Uprox	5		
	Bi 8-M18-AN6X	T4615130	Ext. Range	8		
	Bi 8U-M18-AN6X	M1644736	Uprox+	8		
	Bi 8U-MT18-AN6X	M1634907	Uprox+ PTFE Coated	8		
		Bi 5U-EM18-AP6X	M1635300	Uprox	5	3-Wire DC PNP
		Bi 5U-M18-AP6X	M1635100	Uprox	5	
		Bi 8-M18-AP6X	T4615030	Ext. Range	8	
		Bi 8U-M18-AP6X	M1644733	Uprox+	8	
		Bi 8U-MT18-AP6X	M1644754	Uprox+ PTFE Coated	8	
Bi 8-M18-VN4X		T4590703	Comp. Outputs	8	4-Wire DC NPN	
Bi 8-M18-VP4X	T4590704	Comp. Outputs	8	4-Wire DC PNP		
18 mm - Embeddable, Potted-in Cable, Extended Barrel Length 	Bi 5U-EM18M-AD4X	M4405205	Uprox+ Stainless Steel	5	2-Wire DC	
	Bi 5U-M18M-AD4X	M4405067	Uprox+	5		
18 mm - Embeddable, Potted-In Cable, Partial Threading, PTFE Coated 	Bi 5U-MT18-ADZ30X2	M4209410	Uprox	5	2-Wire AC/DC	
18 mm - Nonembeddable, Potted-in Cable 	Ni 15U-M18-AN6X	M1635334	Uprox+	15	3-Wire DC NPN	
	Ni 15U-M18-AP6X	M1635330	Uprox+	15	3-Wire DC PNP	
18 mm - Nonembeddable, Potted-in Cable, Extended Length Barrel 	Ni 10U-M18M-AD4X	M4405070	Uprox+	10	2-Wire DC	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.

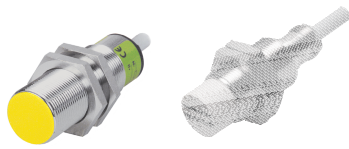


Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p> <p>Diagram 6</p>
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	
	1500	≤200	-30 to +85	IP 68	CPB	LCP	?	N/A	YE	2M/PVC	1	
	1500	≤200	-30 to +85	IP 68	CPB	LCP	?	N/A	YE	2M/PVC	1	
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	2	
10-65 VDC	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
4-Wire DC PNP	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	1000	≤100	-30 to +85	IP 68	SS	LCP	EPTR	N/A	YE	2M/PVC	5	
	1000	≤100	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	TC	TC	EPTR	GN	YE	2M/PVC	6	
	1000	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	YE		2M/PVC	1	
10-30 VDC	1000	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	YE		2M/PVC	2	
10-65 VDC	1000	≤100	-30 to +85	IP 68	CPB	LCP	EPTR	YE		2M/PVC	5	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Potted-In Cable, Extended Length Barrel, Partial Threading 	Bi 5-M18E-AD4X	T4411091		5	2-Wire DC
	Bi 5U-M18E-AP6X	M1635101	<i>Uprox</i>	5	3-Wire DC PNP
	Bi 5-M18E-VP4X	T1561190	<i>Comp. Outputs</i>	5	4-Wire DC PNP
18 mm - Embeddable, Potted-In Cable, Extended Length Barrel, Partial Threading, PTFE Coated 	Bi 7-MT18HE-AD4X/S1589	T4414583	<i>weldguard*</i>	7	2-Wire DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	2500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	<p>Diagram 2</p>
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	WG	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 3</p>

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 5-M18T-AN6X	T4614100		5	3-Wire DC NPN
	Bi 8-M18T-AN6X	T4616100	<i>Extended Range</i>	8	
	Bi 5-M18T-AP6X	T4614000		5	3-Wire DC PNP
	Bi 8-M18T-AP6X	T4616000	<i>Extended Range</i>	8	
18 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 5-M18T-AZ3X 60MM	T4312000		5	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
20-250 AC 10-300 VDC	20	≤500	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	3	Diagram 3

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Full Threading, Potted-In Cable 	Bi 5-G18K-AN6X	T4671400	Short Barrel	5	3-Wire DC NPN
	Bi 5-G18K-AP6X	T4670400		5	3-Wire DC PNP
	Bi 5-EG18-Y0	T1006001		5	2-Wire NAMUR
	Bi 5-G18-Y0	T1006000		5	
	Bi 5-G18-Y0X	T4015000		5	
18 mm - Embeddable, Full Threading, Potted-In Cable 	Bi 5-EG18-AN6X	T4611101		5	3-Wire DC NPN
	Bi 5-G18-AN6X	T4641500		5	
	Bi 5-G18-AN7X	T4740500	TTL Compatible	5	
	Bi 8-G18-AN6X	T4616101	Ext. Range	8	
	Bi 5-EG18-AP6X	T4611001		5	3-Wire DC PNP
	Bi 5-G18-AP6X	T4641400		5	
	Bi 8-G18-AP6X	T4615088		8	
18 mm - Embeddable, Full Threading, Potted-In Cable 	Bi 5-G18-ADZ30X2	T4212000		5	2-Wire AC/DC Short-Circuit Protected
	Bi 8-G18-ADZ30X2	T4209320	Extended Range	8	
	Bi 5-EG18-AZ3X	T4611190		5	2-Wire AC/DC
	Bi 5-G18-AZ3X	T4330400		5	
	Bi 5-G18-AZ3X2	T1374195		5	

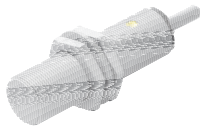
For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
5-30 VDC	1000	Remote	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	N/A	2M/PVC	3	Diagram 3
	1000	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	3	
	1000	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
	1000	≤150	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	GN	RD	2M/PVC	4	Diagram 4
	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	GN	RD	2M/PVC	4	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	RD	2M/PVC	4	Diagram 4
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	4	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	4	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Full Threading, Potted-In Cable, PTFE Coated 	Bi 5-GT18-ADZ30X2	T4255090		5	2-Wire AC/DC
	Bi 5-GT18-ADZ30X2/S34 70 mm	T4255091	WFI	5	2-Wire AC/DC

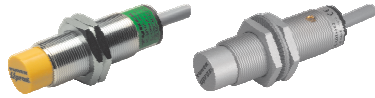
For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.

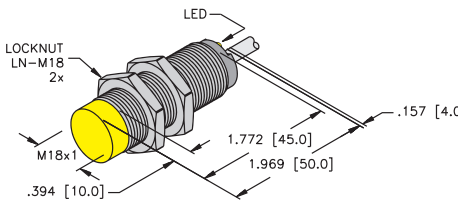
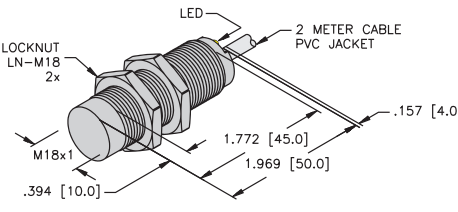


Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	EPTR	GN	RD	2M/PVC	1	<p>Diagram 1</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	EPTR	GN	RD	2M/PVC	1	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, Partial Threading, Potted-In Cable 	Ni 8-M18-AD4X	T4411200		8	2-Wire DC
	Ni 14-M18-AD4X	T4417235	Extended Range	14	
	Ni 12U-M18-AN6X	M1645120	Uprox	12	3-Wire DC NPN
	Ni 12U-EM18-AN6X	M1645320	Uprox	12	
	Ni 14-M18-AN6X	T4611411	Extended Range	14	
	Ni 12U-EM18-AP6X	M1645300	Uprox	12	3-Wire DC PNP
	Ni 12U-M18-AP6X	M1645100	Uprox	12	
	Ni 14-M18-AP6X	T4611401	Extended Range	14	
	Ni 8-M18-VN4X	T1571200	Comp. Output	8	4-Wire DC NPN
	Ni 14-M18-VN4X	T4590600	Extended Range	14	
	Ni 8-M18-VP4X	T1561200	Comp. Output	8	4-Wire DC PNP
	Ni 14-M18-VP4X	T4590601	Extended Range	14	
		Ni 12U-M18-ADZ30X2	M4282410	Uprox	12
18 mm - Nonembeddable, Partial Threading, Potted-In Cable, PTFE Coated 	Ni 12U-MT18-ADZ30X2	M4209420	Uprox	12	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	2000	≤200	-30 to +85	IP 67	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	EPTR	YE	RD	2M/PVC	6	Diagram 6
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	TC	TC	EPTR	YE	RD	2M/PVC	6	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, Extended Barrel Length, Partial Threading, Potted-In Cable 	Ni 12U-M18E-AN6X	M1645110	Uprox	12	3-Wire DC NPN
	Ni 12U-EM18E-AP6X	M1645301	Uprox	12	3-Wire DC PNP
	Ni 12U-M18E-AP6X	M1645106	Uprox	12	
18 mm - Nonembeddable, Partial Threading Potted-In Cable 	Ni 8-M18T-AN6X	T4614300		8	3-Wire DC NPN
	Ni 8-M18T-AP6X	T4614200		8	3-Wire DC PNP
18 mm - Nonembeddable, Partial Threading Potted-In Cable 	Ni 8-M18T-AZ3X	T4312100		8	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



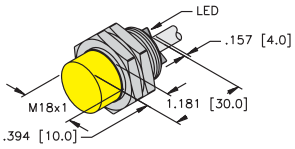
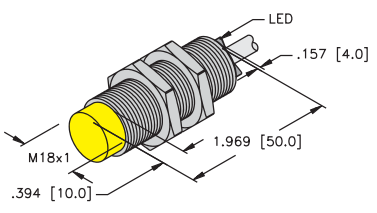
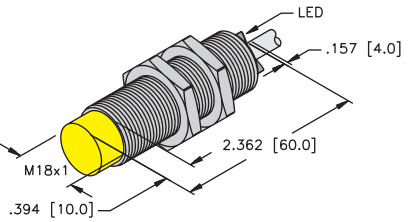
Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	CPB	N/A	YE	2M/PVC	1	<p>Diagram 3</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	CPB	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	CPB	N/A	RD	2M/PVC	3	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, Full Threading, Potted-In Cable 	Ni10-G18K-AN6X	T4671500	<i>Short Barrel</i>	10	3-Wire DC NPN
	Ni10-G18K-AP6X	T4670500	<i>Short Barrel</i>	10	3-Wire DC PNP
	Ni10-G18-Y0	T1006100		10	2-Wire NAMUR
	Ni10-G18-Y0X	T4015100		10	
18 mm - Nonembeddable, Full Threading, Potted-In Cable 	Ni10-G18-AN6X	T4641700		10	3-Wire DC NPN
	Ni10-G18-AN7X	T4740700	<i>TTL Compatible</i>	10	
	Ni10-G18-AP6X	T4641600		10	3-Wire DC PNP
18 mm - Nonembeddable, Full Threading, Potted-In Cable 	Ni14-G18-ADZ30X2	T4205402	<i>Extended Range</i>	14	2-Wire AC/DC Short-Circuit Protected
	Ni10-G18-AZ3X	T4330500		10	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
5-30 VDC	500	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	3	Diagram 3
	500	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 4
	1000	≤150	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	4	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	4	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Terminal Chamber 	Bi 5-G18SK-AN6X2	T4642500		5	3-Wire DC NPN
	Bi 5U-EG18SK-AP6X	M1635400	Uprox	5	3-Wire DC PNP
	Bi 5-G18SK-AP6X2	T4642400		5	
18 mm - Embeddable, Terminal Chamber 	Bi 5-G18SK-AZ3X2	T4331400		5	2-Wire AC/DC
18 mm - Nonembeddable, Terminal Chamber 	Ni 8-G18SK-AD4X	T4442200		8	2-Wire DC
	Ni 10-G18SK-AN6X2	T4642700		10	3-Wire DC NPN
	Ni 12U-EG18SK-AN6X	M1645420	Uprox	12	
	Ni 10-G18SK-AP6X2	T4642600		10	3-Wire DC PNP
18 mm - Nonembeddable, Terminal Chamber 	Ni 10-G18SK-AZ3X2	T4331500		10	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



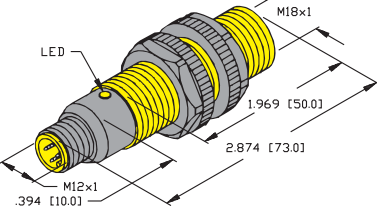
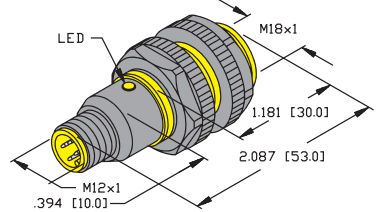
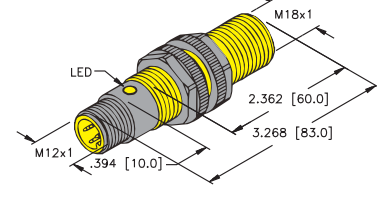
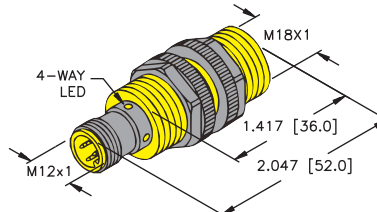
Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	1	<p>Diagram 1</p>
	2500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	<p>Diagram 2</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	<p>Diagram 2</p>
	20	≤500	-25 to +70	IP 67	CPB	PA 12	N/A	GN	RD	- - - -	3	<p>Diagram 3</p>
20-250 VAC 10-300 VDC	20	≤500	-25 to +70	IP 67	CPB	PA 12	N/A	GN	RD	- - - -	3	<p>Diagram 3</p>
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	GN	RD	- - - -	3	<p>Diagram 4</p>
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	N/A	YE	- - - -	4	<p>Diagram 4</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	1	<p>Diagram 1</p>
	2000	≤200	-25 to +70	IP 67	SS	PA 12	N/A	N/A	YE	- - - -	1	<p>Diagram 1</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	GN	RD	- - - -	3	<p>Diagram 3</p>

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast® Connection 	Bi 5-S18-AD4X-H1141	T4452400		•	5	2-Wire DC
	Ni 8-S18-AD4X-H1141	T4452600			8	
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast Connection 	Bi 5-S18-AN6X-H1141	T4652500		•	5	3-Wire DC NPN
	Ni 8-S18-AN6X-H1141	T4652700			8	
	Bi 5-S18-AP6X-H1141	T4652400		•	5	3-Wire DC PNP
	Ni 8-S18-AP6X-H1141	T4652600			8	
Bi 5-S18-Y0X-H1141	T4036095			•	5	2-Wire NAMUR
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast Connection 	Bi 5-S18-VP4X-H1141	T1513401	Comp. Output	•	5	4-Wire DC PNP
18 mm - Embeddable and Nonembeddable, Partial Threading, eurofast Connection 	Bi 5U-S18-AN6X-H1141	M1635620	Uprox	•	5	3-Wire DC NPN
	Ni 12U-S18-AN6X-H1141	M1645620	Uprox		12	
	Bi 5U-S18-AP6X-H1141	M1635600	Uprox	•	5	3-Wire DC PNP
	Ni 12U-S18-AP6X-H1141	M1645600	Uprox		12	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	Diagram 1
	500	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	Diagram 3
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.21T-*	5	Diagram 4
10-30 VDC	1000	£200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.4T-*	4	Diagram 5
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
10-30 VDC	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	2	Diagram 5
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
10-30 VDC	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	Diagram 5
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
18 mm - Embeddable and Nonembeddable, Full Threading, <i>minifast</i>[®] Connection 	Bi 5-P18-AN6X-B2341	T4697200		•	5	3-Wire DC NPN
	Ni10-P18-AN6X-B2341	T4697800			10	
	Bi 5-P18-AP6X-B2341	T4697300		•	5	3-Wire DC PNP
	Ni10-P18-AP6X-B2341	T4697900			10	
18 mm - Embeddable and Nonembeddable, Full Threading, <i>minifast</i> Connection 	Bi 5-P18-AZ3X-B2331	T4374800		•	5	2-Wire AC/DC
	Bi 5-P18-AZ3X-B2331/S100	T4374801	High Temp. 100°C	•	5	
	Ni10-P18-AZ3X-B2331	T4375200			10	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	1	Diagram 1
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	2	Diagram 2
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RK 30-*M	3	Diagram 3
	20	≤400/300	-25 to +100	IP 67	PA 12	IRPA	N/A	YE	RK 30-*M	3	
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RK 30-*M	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
18 mm - Embeddable and Nonembeddable, Partial Threading, Potted-In Cable 	Bi 5-S18-AD4X	T4456000		•	5	2-Wire DC	
	Ni 8-S18-AD4X	T4456200			8		
	Bi 5-S18-AN6X	T4656100		•	5	3-Wire DC NPN	
	Bi 5-S18-AN7X	T1714000		•	5		
	Bi 5-S18-AN7X/S100	T1773400	High Temp. 100°C	•	5		
	Bi 5U-S18-AN6X	M1635520	Uprox	•	5		
	Ni 8-S18-AN6X	T4656300			8		
	Ni 8-S18-AN7X	T1714100			8		
	Ni 8-S18-AN7X/S100	T1773250	High Temp. 100°C		8		
	Ni12U-S18-AN6X	M1645520	Uprox		12		
	Bi 5-S18-AP6X	T4656000		•	5	3-Wire DC PNP	
	Bi 5-S18-AP7X/S100	T1754200	High Temp. 100°C	•	5		
	Bi 5U-S18-AP6X	M1635500	Uprox	•	5		
	Ni 8-S18-AP6X	T4656200			8		
	Ni 8-S18-AP7X/S100	T1749850	High Temp. 100°C		8		
	Ni12U-S18-AP6X	M1645500	Uprox		12		
	Bi 5-S18-VP4X	T1513400		•	5	4-Wire DC PNP	
	Ni 8-S18-VP4X	T1513500			8		
	Bi 5-S18-AZ3X	T4350400			•	5	2-Wire AC/DC
	Ni 8-S18-AZ3X	T4350500				8	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	500	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	1000	≤150	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1000	≤150	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	2	
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1000	≤150	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1000	≤150	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	1000	≤150	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	3	
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1000	≤150	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	RD	2M/PVC	5	Diagram 5
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	RD	2M/PVC	5	

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
18 mm - Embeddable and Nonembeddable, Full Threading, Potted-In Cable 	Bi 5-P18-Y0	T1009500		•	5	2-Wire NAMUR
	Bi 5-P18-Y0X	T4035000		•	5	
	Bi 5-P18-Y0/S100	T1024500	High Temp. 100°C	•	5	
	Ni10-P18-Y0X	T4035100			10	
	Ni10-P18-Y1	M1009600			10	
	Ni10-P18-Y0/S100	M1031700	High Temp. 100°C		10	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current VAC/VDC (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	<p>Diagram 1</p>
	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
	1000	Remote	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	N/A	2M/PVC	1	
	500	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
	500	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	
	500	Remote	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	N/A	2M/PVC	1	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
18 mm - Embeddable and Nonembeddable, Full Threading, Terminal Chamber 	Bi 5-P18SK-Y1X	M4036000		•	5	2-Wire NAMUR	
	Ni10-P18SK-Y1X	M4036100			10		
18 mm - Embeddable and Nonembeddable, Full Threading, Terminal Chamber 	Bi 5-P18SK-AN6X2	T4657000		•	5	3-Wire DC NPN	
	Ni10-P18SK-AN6X2	T4657200			10		
	Bi 5-P18SK-AP6X2	T4656900			•	5	3-Wire DC PNP
	Bi 5U-P18SK-AP6X	M1635700	<i>Uprox</i>	•	5		
	Ni10-P18SK-AP6X2	T4657100			10		
Ni12U-P18SK-AP6X	M1645700	<i>Uprox</i>			12		
18 mm - Embeddable and Nonembeddable, Full Threading, Terminal Chamber 	Bi 5-P18SK-AZ3X2	T4351400		•	5	2-Wire AC/DC	
	Ni10-P18SK-AZ3X2	T4351500			10		

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



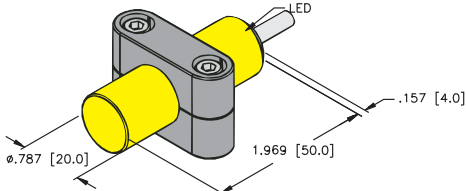
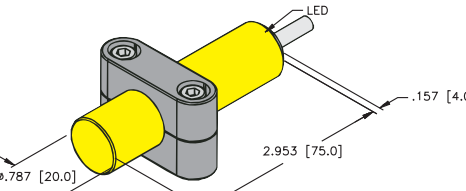
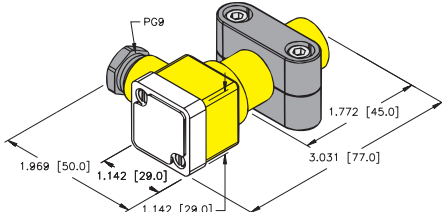
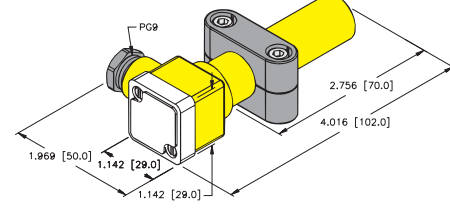
Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	N/A	YE	- - - -	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>
	500	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	N/A	YE	- - - -	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	2	<p>Diagram 3</p>
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	3	<p>Diagram 4</p>
	2500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	N/A	YE	- - - -	3	
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	YE	- - - -	3	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	N/A	YE	- - - -	3	
20-250 VAC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	RD	- - - -	4	
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	GN	RD	- - - -	4	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
20 mm - Nonembeddable, Smooth Barrel, Potted-In Cable 	Ni 10-K20-AN6X	M4664100		10	3-Wire DC NPN
	Ni 10-K20-AP6X	M4664000		10	3-Wire DC PNP
	Ni 10-K20-Y1	M1007200		10	2-Wire DC NAMUR
20 mm - Nonembeddable, Smooth Barrel, Potted-In Cable 	Ni 10-K20-AZ3X	M4358500		10	2-Wire AC/DC
20 mm - Nonembeddable, Smooth Barrel, Terminal Chamber 	Ni 10-K20SK-AP6X2	T4664693		10	3-Wire DC PNP
20 mm - Nonembeddable, Smooth Barrel, Terminal Chamber 	Ni 10-K20SK-AZ3X2	T4359200		10	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Output	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
5-30 VDC	500	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	<p>Diagram 4</p>
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	YE	- - - -	5	<p>Diagram 5</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	GN	RD	- - - -	6	<p>Diagram 6</p>

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast⁺ Connection 	Bi 10-M30-AD4X-H1141	T4417500		10	2-Wire DC
	Bi 12-M30-AD4X-H1141	T4417041	Extended Range	12	
	Bi 10U-M30-AD4X-H1144	M4405072	Uprox+	10	
	Bi 10-M30-AN6X-H1141	T4617600		10	3-Wire DC NPN
	Bi 10U-EM30-AN6X-H1141	M1636350	Uprox	10	
	Bi 10U-EM30H-AN6X2-H1141	M1636407	Uprox, Stoneface	10	
	Bi 10U-EM30H-AN6X2-H1141/S1589	M1636490	weldguard⁺, Uprox	10	
	Bi 10U-M30-AN6X-H1141	M1636150	Uprox	10	
	Bi 15-M30-AN6X-H1141	T4618600	Extended Range	15	
	Bi 15-EM30H-AN6X-H1141	T4618692	Stoneface, Ext. Range	15	
	Bi 15U-M30-AN6X-H1141	M1636736	Uprox+	15	
	Bi 10-M30-AP6X-H1141	T4617500		10	3-Wire DC PNP
	Bi 10U-EM30-AP6X-H1141	M1636340	Uprox	10	
	Bi 10U-EM30H-AP6X2-H1141/S1589	M1636491	weldguard, Uprox	10	
	Bi 10U-M30-AP6X-H1141	M1636140	Uprox	10	
	Bi 10U-M30-AP6X2-H1141	M1636145	Uprox	10	
	Bi 15-M30-AP6X-H1141	T4618500	Extended Range	15	
	Bi 15-EM30H-AP6X-H1141	T4618592	Stoneface, Ext. Range	15	
	Bi 15-EM30H-AP6X-H1141/S1589	T4618593	weldguard	15	
	Bi 15U-EM30-AP6X-H1141	M1636733	Uprox+	15	
Bi 15U-M30-AP6X-H1141	M1636732	Stainless steel Uprox+	15		
30 mm - Embeddable, eurofast⁺ Connection 	Bi 15-EM30H-AP6X-H1141/S1610	T4618589	Weld/armorguard	15	3-Wire DC PNP
30 mm - Embeddable, eurofast⁺ Connection 	Bi 10-M30-VN4X-H1141	T1571600	Comp. Outputs	10	4-Wire DC NPN
	Bi 10U-M30-VN4X-H1141	M1582352	Uprox, Comp. Outputs	10	
	Bi 15-M30-VN4X-H1141	T4570711	Comp. Outputs	15	
	Bi 10-M30-VP4X-H1141	T1561600	Comp. Outputs	10	4-Wire DC PNP
	Bi 10U-M30-VP4X-H1141	M1582253	Uprox, Comp. Outputs	10	
	Bi 15-M30-VP4X-H1141	T4570710	Comp. Outputs	15	
	Bi 10-M30-Y1X-H1141	M4020200			10

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
	1000	≤100	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKV 4T-*	3	
	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	300	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	3	
750	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	3		
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	Diagram 3
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	4	
	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	300	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKV 4T-*	4	
	300	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	4	
	750	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	4	
10-30 VDC	300	≤200	-25 to +70	IP 67	AG	WG	N/A	YE	RKC 4T-*/S1587	4	Diagram 4
	750	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	4	
10-30 VDC	300	≤200	-25 to +70	IP 67	AG	WG	N/A	YE	RKC 4T-*/S1587	4	Diagram 5
	750	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 6
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	Diagram 7
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
5-30 VDC	2000	Remote	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.21T-*	7	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast[®] Connection, PTFE Coated 	Bi10U-MT30-AD4X-H1144	M4405074	PTFE	10	2-Wire DC
	Bi10U-MT30H-AD4X-H1144/S1589	M4405096	PTFE, weldguard	10	
	Bi12-MT30H-AD4X-H1141	T4417094	Stoneface	12	
	Bi12-MT30H-AD4X-H1141/S1589	T4417097	weldguard [®]	12	
	Bi12-MT30H-AD4X-H1144	T4417095	Stoneface	12	
	Bi12-MT30H-AD4X-H1144/S1589	T4417098	weldguard	12	
	Bi10U-MT30-AN6X-H1141	M1636250	Uprox	10	3-Wire DC NPN
	Bi10U-MT30-AP6X-H1141	M1636240	Uprox	10	3-Wire DC PNP
	Bi10U-MT30-AP6X2-H1141	M1636245	Uprox	10	
	Bi10U-MT30H-AP6X2-H1141	M1636220	Stoneface, Uprox	10	
	Bi10U-MT30H-AP6X2-H1141/S1589	M1636291	weldguard, Uprox	10	
	Bi15U-MT30-AP6X-H1141	M1636734	PTFE	15	
	Bi15U-MT30-AP6X2-H1141	M1644741	Dual LED's	15	
	Bi15U-MT30-AP6X-H1141/S1589	M16367341	PTFE, weldguard	15	
30 mm - Embeddable, eurofast[®] Connection, PTFE Coated 	Bi10U-MT30H-AP6X2-H1141/S1610	M1636292	weldguard, Uprox,	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection, Extended Barrel Length 	Bi10-M30E-AD4X-H1141	T4417501		10	2-Wire DC
	Bi15-M30E-AN6X-H1141	T4618690	Extended Range	15	3-Wire DC NPN
	Bi10U-EM30E-AP6X-H1141	M1636322	Uprox	10	3-Wire DC PNP
	Bi10U-EM30HE-AP6X2-H1141	M1636415	Stoneface, Uprox	10	
	Bi15-M30E-AP6X-H1141	T4618590	Extended Range	15	
	Bi10-M30E-VN4X-H1141	T1571690	Comp. Outputs	10	4-Wire DC NPN
Bi10-M30E-VP4X-H1141	T1561690	Comp. Outputs	10	4-Wire DC PNP	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	Diagram 1
	1000	≤100	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
	500	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.2T-*	1	Diagram 2
	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4.2T-*/S1587	1	
	500	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.23T-*/S674	2	
	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4.23T-*/S1587	2	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	3	Diagram 3
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	4	Diagram 4
	2000	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RK 4T-*	4	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	4	
	750	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	4	
	750	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	4	
10-30 VDC	2000	≤200	-30 to +85	IP 67	AG	WG	GN	YE	RKC 4T-*/S1587	4	Diagram 5
	2000	≤200	-30 to +85	IP 67	AG	WG	GN	YE	RKC 4T-*/S1587	4	
10-30 VDC	2000	≤200	-30 to +85	IP 67	AG	WG	GN	YE	RKC 4T-*/S1587	4	Diagram 6
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
10-30 VDC	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	2000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKV 4T-*	4	
	300	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, eurofast® Connection 	Ni 15-M30-AD4X-H1141	T4417700		15	2-Wire DC
	Ni 20-M30-AD4X-H1141	T4466141	Extended Range	20	
	Ni 15U-MT30-AD4X-H1144	M4405077	Uprox+ PTFE	15	
	Ni 20-M30-AD4X-H1144	T4466192	Extended Range	20	
	Ni 15-M30-AN6X-H1141	T4617800		15	3-Wire DC NPN
	Ni 20-EM30H-AN6X-H1141/S1589	T4670599	weldguard®	20	
	Ni 20-M30-AN6X-H1141	T4670515	Extended Range	20	
	Ni 20U-EM30-AN6X-H1141	M1646350	Uprox	20	
	Ni 20U-EM30H-AN6X2-H1141/S1589	M1646191	weldguard, Uprox	20	
	Ni 20U-M30-AN6X-H1141	M1646150	Uprox	20	
	Ni 20U-M30-AN6X2-H1141	M1646155	Uprox	20	
	Ni 30U-EM30-AN6X-H1141	M1644636	Uprox+ Stainless steel	30	
	Ni 30U-M30-AN6X-H1141	M1644635	Uprox+ Stainless steel	30	
	Ni 15-M30-AP6X-H1141	T4617700		15	3-Wire DC PNP
	Ni 20-EM30H-AP6X-H1141/S1589	T4670590	weldguard	20	
	Ni 20-M30-AP6X-H1141	T4670510	Extended Range	20	
	Ni 20U-EM30-AP6X-H1141	M1646340	Uprox	20	
	Ni 20U-EM30-AP6X2-H1141	M1646345	Uprox	20	
	Ni 20U-EM30H-AP6X2-H1141/S1589	M1646490	weldguard, Uprox	20	
	Ni 20U-M30-AP6X-H1141	M1646140	Uprox	20	
	Ni 30U-EM30-AP6X-H1141	M1646632	Uprox+ Stainless steel	30	
	Ni 30U-M30-AP6X-H1141	M1646631	Uprox+ Stainless steel	30	
	Ni 15-M30-VN4X-H1141	T1571510	Comp. Outputs	15	4-Wire DC NPN
	Ni 20-M30-VN4X-H1141	T4590606	Extended Range	20	
	Ni 20U-M30-VN4X-H1141	M1582552	Uprox	20	
	Ni 15-M30-VP4X-H1141	T1561700	Comp. Outputs	15	4-Wire DC PNP
	Ni 20-M30-VP4X-H1141	T4590607	Extended Range	20	
	Ni 20U-M30-VP4X-H1141	M1582457	Uprox	20	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	200	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
	200	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	1	
	1000	≤100	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4.23T-*	2	
	200	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.23T-*/S674	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	Diagram 2
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	3	
	1500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	3	
	1500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	3	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	3	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	GN	YE	RK 4T-*	3	
	500	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	3	
10-30 VDC	500	≤200	-30 to +85	IP 68	CPB	LCP	N/A	YE	RK 4T-*	3	Diagram 3
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	4	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	1500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	YE	RKV 4T-*	4	
	1500	≤200	-30 to +85	IP 68	SS	PA 12	GN	YE	RKV 4T-*	4	
	1500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	4	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4T-*	4	
	500	≤200	-30 to +85	IP 68	SS	LCP	N/A	YE	RK 4T-*	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	Diagram 4
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	Diagram 5
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	6	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
30 mm - Nonembeddable, eurofast Connection, PTFE Coated 	Ni20-MT30H-AN6X-H1141/S1589	T4670589	weldguard	20	3-Wire DC NPN	
	Ni20U-MT30-AN6X-H1141	M1646250	Uprox	20		
	Ni30U-MT30-AN6X-H1141	M1644637	Uprox+	30		
	Ni30U-MT30-AN6X-H1141/S1589	M16446370	Uprox+, PTFE, weldguard	30		
	Ni20-MT30H-AP6X-H1141/S1589	T4670588	weldguard	20	3-Wire DC PNP	
	Ni20U-MT30-AP6X-H1141	M1646240	Uprox	20		
	Ni20U-MT30-AP6X2-H1141	M1646245	Uprox	20		
	Ni20U-MT30H-AP6X2-H1141/S1589	M1646291	weldguard, Uprox	20		
	Ni30U-MT30-AP6X-H1141	M1646633	Uprox+, PTFE	30		
	Ni30U-MT30-AP6X2-H1141	M1646635	Uprox+, Dual LED's	30		
	Ni30U-MT30-AP6X-H1141/S1589	M16466331	Uprox+, PTFE, weldguard	30		
	Ni30U-MT30-AP6X2-H1141/S1589	M16466351	Uprox+, PTFE, weldguard	30		
	30 mm - Nonembeddable, eurofast Connection, Extended Barrel Length 	Ni15-M30E-AD4X-H1141	T4417790		15	2-Wire DC
		Ni15-M30E-VN4X-H1141	T1571590	Comp. Outputs	15	4-Wire DC NPN
Ni15-M30E-VP4X-H1141		T1561790	Comp. Outputs	15	4-Wire DC PNP	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



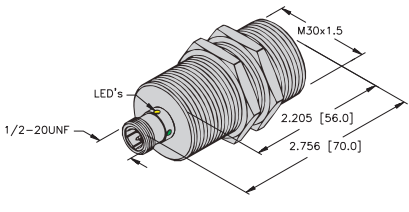
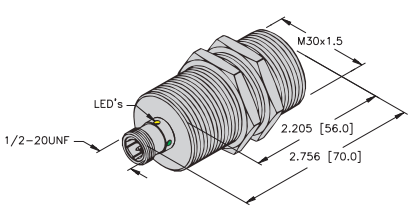
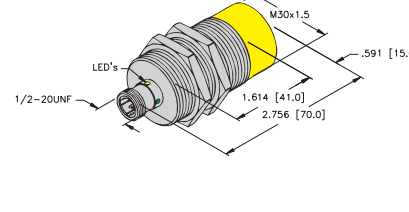
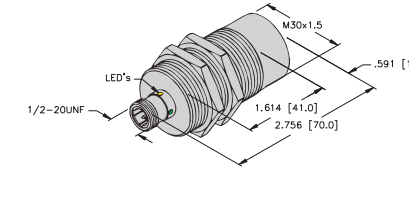
Voltage	Switching Freq. (Hz)	Operating Current AC/DC (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	1500	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	1	
	500	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	1	
	500	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
	1500	≤200	-30 to +85	IP 67	TC	TC	N/A	YE	RK 4T-*	2	
	1500	≤200	-30 to +85	IP 67	TC	TC	GN	YE	RK 4T-*	2	
	1500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	500	≤200	-30 to +85	IP 68	TC	LCP	N/A	YE	RK 4T-*	2	
	500	≤200	-30 to +85	IP 68	TC	LCP	GN	YE	RK 4T-*	2	
	500	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	2	
10-65 VDC	200	≤100	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.2T-*	3	Diagram 3
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	4	Diagram 5
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RK 4.4T-*	5	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, <i>microfast</i>® Connection 	Bi 10-G30-ADZ30X2-B3131	T4207591		10	2-Wire AC/DC Short-Circuit Protected
	Bi 10U-G30-ADZ30X2-B3131	M4281613	Uprox	10	
	Bi 15-EG30H-ADZ30X2-B3131	T4207284	Stoneface	15	
	Bi 15-G30-ADZ30X2-B3131	T4207201		15	
	Bi 10-G30-AZ3X-B3131	T4372298			10
30 mm - Embeddable, <i>microfast</i> Connection, PTFE Coated 	Bi 10-GT30-ADZ30X2-B3131/S34	T4256203	WFI	10	2-Wire AC/DC Short-Circuit Protected
	Bi 10-GT30H-ADZ30X2-B3131/S34	T4256094	Stoneface, WFI	10	
	Bi 10-GT30H-ADZ30X2-B3131/S34/S1589	T4255281	weldguard®, WFI	10	
	Bi 10U-GT30-ADZ30X2-B3131	M4281623	Uprox	10	
30 mm - Nonembeddable, <i>microfast</i> Connection 	Ni 15-G30-AZ3X-B3131	T1306090		15	2-Wire AC
	Ni 20-G30-ADZ30X2-B3131	T4205406		20	2-Wire AC/DC Short-Circuit Protected
	Ni 20U-G30-ADZ30X2-B3131	M4281813	Uprox	20	
30 mm - Nonembeddable, <i>microfast</i> Connection, PTFE Coated 	Ni 20U-GT30-ADZ30X2-B3131	M4281823	Uprox	20	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



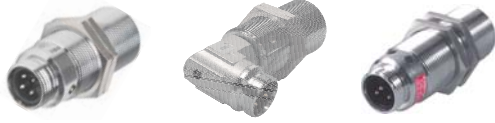
Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	KB 3T-*	1	<p>Diagram 1</p>
	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	SS	SF	GN	RD	KBE 3T-*/S600	1	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	KB 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	TC	SF	GN	RD	KBE 3T-*	1	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	KBE 3T-*/S600	1	
	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	KB 3T-*	1	
	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	KB 3T-*	1	
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	KB 3T-*	1	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, <i>minifast</i> Connection 	Bi10-G30-AN6X-B1141	T4695400		10	3-Wire DC NPN
	Bi10-G30-AP6X-B1141	T4696500		10	3-Wire DC PNP
30 mm - Embeddable, <i>minifast</i> Right Angle Connection 	Bi10-G30-AN6X-B1441	T4695800		10	3-Wire DC NPN
	Bi10-G30-AP6X-B1441	T4696900		10	3-Wire DC PNP
30 mm - Embeddable, <i>minifast</i> Connection 	Bi10-G30-ADZ30X2-B1131	T4207500		10	2-Wire AC/DC Short-Circuit Protected
	Bi10U-G30-ADZ30X2-B1131	M4281612	Uprox	10	
	Bi15-EG30H-ADZ30X2-B1131	T4207292	Extended Range	15	
	Bi15-G30-ADZ30X2-B1131	T4207202	Extended Range	15	
	Bi10-G30-AZ3X-B1131	T4372200			10

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	1	<p>Diagram 1</p>
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	<p>Diagram 2</p>
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	1	<p>Diagram 3</p>
	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	RKM 30-*M	3	
	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	RKM 30-*M	3	
	20	≤400/300	-25 to +70	IP 67	SS	SF	GN	RD	RKV 30-*M	3	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	RKM 30-*M	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RKM 30-*M	3	

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, minifast® Right Angle Connection 	Bi 10-G30-AZ3X-B1431	T4372600		10	2-Wire AC/DC
30 mm - Embeddable, minifast Connection, PTFE Coated 	Bi 10-GT30-ADZ30X2-B1131/S34	T4256200	<i>WFI</i>	10	2-Wire AC/DC Short-Circuit Protected
	Bi10-GT30-ADZ30X2-B1131	T4256290		10	
	Bi 10-GT30H-ADZ30X2-B1131/S34/S1589	T4255280	<i>weldguard®, WFI</i>	10	
	Bi10U-GT30-ADZ30X2-B1131	M4281622	<i>Uprox</i>	10	
30 mm - Embeddable, minifast Connection, PTFE Coated 	Bi 10-GT30H-ADZ30X2-B1131/S34/S1610	T4207287	armorguard	10	2-Wire AC/DC Short-Circuit Protected
30 mm - Nonembeddable, minifast Connection 	Ni 15-G30-AN6X-B1141	T4695500		15	3-Wire DC NPN
	Ni 15-G30-AP6X-B1141	T4696600		15	3-Wire DC PNP
30 mm - Nonembeddable, minifast Connection 	Ni 15-G30-AZ3X-B1131	T4372300		15	2-Wire AC/DC
	Ni 20-G30-ADZ30X2-B1131	T4205405		20	2-Wire AC/DC Short-Circuit Protected
	Ni 20U-G30-ADZ30X2-B1131	M4281812	<i>Uprox</i>	20	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A		RKM 30-*M	3	<p>Diagram 1</p>
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	3	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	3	<p>Diagram 3</p>
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	3	
	20	≤400/300	-25 to +70	IP 67	TC	TC	GN	RD	RKM 30-*M	3	
	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	RKM 30-*M	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	AG	WG	GN	YE	RKM 311-*M/S600	3	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RKM 30-*M	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	GN	RD	RKM 30-*M	3	
	20	≤400/300	-30 to +85	IP 67	CPB	PA 12	GN	YE	RKM 30-*M	3	

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, minifast® Connection, PTFE Coated 	Ni20U-GT30-ADZ30X2-B1131	M4281822	Uprox	20	2-Wire AC/DC Short-Circuit Protected
30 mm - Nonembeddable, Right Angle minifast Connection 	Ni15-G30-AN6X-B1441	T4695590		15	3-Wire DC NPN
	Ni15-G30-AP6X-B1441	T4697000		15	3-Wire DC PNP
30 mm - Nonembeddable, minifast Right Angle Connection 	Ni15-G30-AZ3X-B1431	T4372700		15	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤400/300	-30 to +85	IP 67	TC	TC	GN	YE	RKM 30-*M	3	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	1	<p>Diagram 1</p> <p>Diagram 3</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	RKM 40-*M	2	<p>Diagram 3</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	RD	RKM 30-*M	3	

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	Bi 10-M30-AD4X	T4417000		10	2-Wire DC
	Bi 10U-M30-AD4X	M4405073	Uprox+	10	
	Bi 12-M30-AD4X	T4417035	Extended Range	12	
	Bi 10U-EM30-AN6X	M1636320	Uprox	10	3-Wire DC NPN
	Bi 10U-M30-AN6X	M1636120	Uprox	10	
	Bi 15-M30-AN6X	T4618620	Extended Range	15	
	Bi 15U-M30-AN6X	M1636735	Uprox+	15	
	Bi 10U-EM30-AP6X	M1636300	Uprox	10	3-Wire DC PNP
	Bi 10U-M30-AP6X	M1636100	Uprox	10	
	Bi 15-M30-AP6X	T4618530	Extended Range	15	
	Bi 15U-EM30-AP6X	M1636741	Uprox+	15	
	Bi 15U-M30-AP6X	M1636731	Uprox+	15	
	Bi 10-M30-VN4X	T1571400	Comp. Outputs	10	4-Wire DC NPN
	Bi 15-M30-VN4X	T4570712	Extended Range	15	
	Bi 10-M30-VP4X	T1561400	Comp. Outputs	10	4-Wire DC PNP
	Bi 15-M30-VP4X	T4570713	Extended Range	15	
	Bi 10U-MT30-ADZ30X2	M4209430	Uprox	10	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.

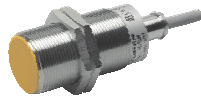


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p> <p>Diagram 6</p>
	1000	≤200	-30 to +85	IP 68	TC	LCP	EPTR	GN	YE	2M/PVC	1	
	400	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	750	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	52	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	2000	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	750	≤200	-30 to +85	IP 68	SS	LCP	EPTR	N/A	YE	2M/PUR	3	
	750	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC		GN	RD	2M/PUR	6	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	Bi10-M30T-AN6X	T4619100		10	3-Wire DC NPN
	Bi15-M30T-AN6X	T4618100	<i>Extended Range</i>	15	
	Bi10-M30T-AP6X	T4619000		10	3-Wire DC PNP
	Bi15-M30T-AP6X	T4618000	<i>Extended Range</i>	15	
30 mm - Embeddable, Potted-In Cable 	Bi10-M30T-AZ3X	T4317000		10	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	300	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	300	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	3	Diagram 3

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, Potted-In Cable 	Ni15-M30-AD4X	T4417200		15	2-Wire DC
	Ni20-M30-AD4X	T4466135	Extended Range	20	
	Ni20-M30-AN6X	T4670516	Extended Range	20	3-Wire DC NPN
	Ni20U-EM30-AN6X	M1646320	Uprox	20	
	Ni20U-M30-AN6X	M1646120	Uprox	20	
	Ni30U-M30-AN6X	M1644634	Uprox+	30	
	Ni20-M30-AP6X	T4670511	Extended Range	20	3-Wire DC PNP
	Ni20U-EM30-AP6X	M1646300	Uprox	20	
	Ni20U-M30-AP6X	M1646100	Uprox	20	
	Ni30U-M30-AP6X	M1646630	Uprox+	30	
	Ni15-M30-VN4X	T1571500	Comp. Outputs	15	4-Wire DC NPN
	Ni20-M30-VN4X	T4590604	Extended Range	20	
	Ni15-M30-VP4X	T1561500	Comp. Outputs	15	4-Wire DC PNP
	Ni20-M30-VP4X	T4590605	Extended Range	20	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	200	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	200	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	1500	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	1500	≤200	-30 to +85	IP 68	SS	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1500	≤200	-30 to +85	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
	500	≤200	-30 to +85	IP 68	CPB	LCP	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	Diagram 5
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-M30T-AN6X	T4619300		15	3-Wire DC NPN
	Ni 15-M30T-AP6X	T4619200		15	3-Wire DC PNP
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-M30T-AZ3X	T4317100		15	2-Wire AC/DC

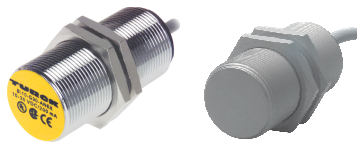
For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	3	<p>Diagram 3</p>

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	Bi10-G30K-AD4X	T4670695	<i>Short Barrel</i>	10	2-Wire DC
	Bi10-G30K-AN6X	T4671600	<i>Short Barrel</i>	10	3-Wire DC NPN
	Bi10-G30K-AP6X	T4670600	<i>Short Barrel</i>	10	3-Wire DC PNP
	Bi15-G30K-AP6X	T4207300	<i>Short Barrel</i>	15	
	Bi10-G30-Y0	T1006200	<i>Short Barrel</i>	10	2-Wire DC NAMUR
	Bi10-G30-Y0X	T4020000	<i>Short Barrel</i>	10	
	Bi10-G30-Y0X/S90	T4617691		10	
30 mm - Embeddable, Potted-In Cable 	Bi10-G30-AN6X	T4647500		10	3-Wire DC NPN
	Bi10-G30-AN7X	T1714800		10	
	Bi10-G30-AP6X	T4647400		10	3-Wire DC PNP
	Bi10-EG30-ADZ30X2	T4256095		10	2-Wire AC/DC Short-Circuit Protection
	Bi10-G30-ADZ30X2	T4207000		10	
	Bi15-G30-ADZ30X2	T4207200		15	
	Bi10-EG30-AZ3X	T4345699		10	2-Wire AC/DC
Bi10-G30-AZ3X	T4345400		10		
30 mm - Embeddable, Potted-In Cable, PTFE Coated 	Bi10-GT30-ADZ30X2/S34	T4256000	<i>WFI</i>	10	2-Wire AC/DC Short-Circuit Protection

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 2
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
5-30 VDC	200	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	4	Diagram 3
	200	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	
	200	Remote	-25 to +70	IP 67	CPB	EPTR	EPTR	N/A	YE	2M/PUR	4	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 3
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 4
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	GN	RD	2M/PVC	5	Diagram 4
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	GN	RD	2M/PVC	5	
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	GN	RD	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	SS	PA 12	EPTR	N/A	RD	2M/PVC	5	Diagram 5
	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	TC	EPTR	GN	RD	2M/PVC	5	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-G30K-AN6X	T4671700	Short Barrel	15	3-Wire DC NPN
	Ni 15-G30K-AP6X	T4670700	Short Barrel	15	3-Wire DC PNP
	Ni 30-G30K-AP6X	T4670711	Short Barrel	30	
	Ni 15-G30-Y0	T1006300		15	2-Wire DC NAMUR
	Ni 15-G30-Y0X	T4020100		15	
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-G30-AN6X	T4647700		15	3-Wire DC NPN
	Ni 15-G30-AN7X	T1714900		15	3-Wire DC NPN
	Ni 15-G30-AP6X	T4647600		15	3-Wire DC PNP
	Ni 20-G30-ADZ30X2	T4205404		20	2-Wire AC/DC Short-Circuit Protected

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
5-30 VDC	200	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	N/A	2M/PVC	3	Diagram 3
	200	Remote	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 4
	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	GN	RD	2M/PVC	4	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Terminal Chamber 	Bi10-G30SK-AN6X2	T4648500		10	3-Wire DC NPN
	Bi10U-EG30SK-AN6X	M1636420	<i>Uprox</i>	10	
	Bi10-G30SK-AP6X2	T4648400		10	3-Wire DC PNP
	Bi10U-EG30SK-AP6X	M1636400	<i>Uprox</i>	10	
	Bi10-G30SK-AZ3X2	T4346400		10	2-Wire AC/DC
	30 mm - Nonembeddable, Terminal Chamber 	Ni15-G30SK-AN6X2	T4648700		15
Ni20U-EG30SK-AN6X		M1646420	<i>Uprox</i>	20	
Ni15-G30SK-AP6X2		T4648600		15	3-Wire DC PNP
Ni20U-EG30SK-AP6X		M1646400	<i>Uprox</i>	20	
Ni15-G30SK-AZ3X2		T4346500		15	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	1	Diagram 1
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	
	2000	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	GN	RD	- - - -	3	Diagram 3
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	1	
	1500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	GN	YE	- - - -	2	
	1500	≤200	-30 to +85	IP 68	SS	PA 12	N/A	N/A	YE	- - - -	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	N/A	GN	RD	- - - -	3	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
30 mm - Embeddable/Nonembeddable, Partial Threading, eurofast® Connection 	Bi 10-S30-AD4X-H1141	T4458000		•	10	2-Wire DC	
	Ni 15-S30-AD4X-H1141	T4458200			15		
	Bi 10-S30-AN6X-H1141	T4658100		•	10	3-Wire DC NPN	
	Bi 10U-S30-AN6X-H1141	M1636620	<i>Uprox</i>	•	10		
	Ni 15-S30-AN6X-H1141	T4658300			15		
	Ni 20U-S30-AN6X-H1141	M1646620	<i>Uprox</i>		20		
	Bi 10-S30-AP6X-H1141	T4658000		•	10	3-Wire DC PNP	
	Bi 10U-S30-AP6X-H1141	M1636600	<i>Uprox</i>	•	10		
	Ni 15-S30-AP6X-H1141	T4658200			15		
	Ni 20U-S30-AP6X-H1141	M1646600	<i>Uprox</i>		20		
	30 mm - Embeddable/Nonembeddable, Full Threading, minifast® Connection 	Bi 10-P30-AN6X-B2141	T4697400		•	10	3-Wire DC NPN
		Ni 15-P30-AN6X-B2141	T4697600			15	
Bi 10-P30-AP6X-B2141		T4697500		•	10	3-Wire DC PNP	
Ni 15-P30-AP6X-B2141		T4697700			15		
30 mm - Embeddable/Nonembeddable, Full Threading, minifast Connection 	Bi 10-P30-AZ3X-B2131	T4374900		•	10	2-Wire AC/DC	
	Ni 15-P30-AZ3X-B2131	T4375400			15		

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	Diagram 1
	500	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4.2T-*	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	Diagram 2
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	Diagram 3
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	N/A	YE	RKK 4T-*	3	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	4	Diagram 4
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	4	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	5	Diagram 5
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 40-*M	5	
20-250 AC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RK 30-*M	6	Diagram 6
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	N/A	RD	RK 30-*M	6	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
30 mm - Embeddable/Nonembeddable, Full Threading, Potted-In Cable 	Bi10-P30-Y0X	T4040000		•	10	2-Wire DC NAMUR
	Bi10-P30-Y1	M1009700		•	10	
	Ni15-P30-Y0X	T4040100			15	
	Ni15-P30-Y1	M1009800			15	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
5-30 VDC	500	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
	500	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	
	200	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
	200	Remote	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	N/A	2M/PVC	1	

For material descriptions see page M36.

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Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
30 mm - Embeddable/Nonembeddable, Partial Threading, Potted-In Cable 	Bi10-S30-AD4X	T4459000		•	10	2-Wire DC	
	Ni15-S30-AD4X	T4459200			15		
	Bi10-S30-AN6X	T4659100		•	10	3-Wire DC NPN	
	Bi10-S30-AN7X	T1720100	TTL Compatible	•	10		
	Bi10-S30-AN7X/S100	T1777700	High Temp. 100°C	•	10		
	Bi10U-S30-AN6X	M1636520	Uprox	•	10		
	Ni15-S30-AN6X	T4659300			15		
	Ni15-S30-AN6X/S100	T4659321	High Temp. 100°C		15		
	Ni15-S30-AN7X/S100	T1777600	High Temp. 100°C		15		
	Ni20U-S30-AN6X	M1646520	Uprox		20		
	Bi10-S30-AP6X	T4659000		•	10	3-Wire DC PNP	
	Bi10U-S30-AP6X	M1636500	Uprox	•	10		
	Ni15-S30-AP6X	T4659200			15		
	Ni20U-S30-AP6X	M1646500	Uprox		20		
	Ni15-S30-VN4X	T1522400	Comp. Output			15	4-Wire DC NPN
	Bi10-S30-VP4X	T1512200	Comp. Output	•	10	4-Wire DC PNP	
	Ni15-S30-VP4X	T1563000	Comp. Output		15		
	Bi10-S30-AZ3X	T4355400		•	10	2-Wire AC/DC	
	Ni15-S30-AZ3X	T4355500			15		
	Ni15-S30-AZ3X/S100	T1375800	High Temp. 100°C		15		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	500	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	Diagram 1
	200	≤100	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	Diagram 2
	500	≤200	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	2	
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	2	
	500	≤200	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	YE	2M/PVC	2	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	Diagram 3
	2000	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	4	Diagram 4
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	5	
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	YE	2M/PVC	5	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	RD	2M/PVC	6	
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	EPTR	N/A	RD	2M/PVC	6	
	20	≤400/300	-25 to +100	IP 67	PA 12	IRPA	EPTR	N/A	RD	2M/PVC	6	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output	
30 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi 10-P30SK-AN6X2	T4660000		•	10	3-Wire DC NPN	
	Ni 15-P30SK-AN6X2	T4660200			15		
	Bi 10-P30SK-AP6X2	T4659900		•	10	3-Wire DC PNP	
	Ni 15-P30SK-AP6X2	T4660100			15		
	Ni 20U-P30SK-AP6X	M1646700	Uprox		20		
	Bi 10-P30SK-AZ3X2	T4356400		•	10	2-Wire AC/DC Normally Open	
	Ni 15-P30SK-AZ3X2	T4356500			15		
	30 mm - Embeddable/Nonembeddable, Plastic, Terminal Chamber 	Bi 10-P30SR-FZ3X2	M1342000		•	10	2-Wire AC
		Ni 15-P30SR-FZ3X2	M1342100			15	
Bi 10-P30SR-VN4X2		M1575200	Comp. Outputs	•	10	4-Wire DC NPN	
Ni 15-P30SR-VN4X2		M1575300	Comp. Outputs		15		
Bi 10-P30SR-VP4X2		M1565200	Comp. Outputs	•	10	4-Wire DC PNP	
Ni 15-P30SR-VP4X2		M1565300	Comp. Outputs		15		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	1	Diagram 1
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	2	Diagram 2
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	2	
	1500	≤200	-30 to +85	IP 68	PA 12	PA 12	----	N/A	YE	- - - -	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	- - - -	3	Diagram 3
	20	≤400/300	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	- - - -	3	
20-250 VAC	20	≤500	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	- - - -	3	Diagram 4
	20	≤500	-25 to +70	IP 67	PA 12	PA 12	----	GN	RD	- - - -	3	
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	4	Diagram 5
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	4	
10-65 VDC	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	5	Diagram 5
	500	≤200	-25 to +70	IP 67	PA 12	PA 12	----	GN	YE	- - - -	5	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
40 mm - Nonembeddable, Smooth Plastic Barrel, minifast® Connection 	Ni30-K40-VN4X-B2141	M4590400	Comp. Outputs	30	4-Wire DC NPN
	Ni30-K40-VP4X-B2141	M4590500	Comp. Outputs	30	4-Wire DC PNP
	Ni30-K40-AZ3X-B2131	M4375800		30	2-Wire AC/DC
40 mm - Nonembeddable, Smooth Plastic Barrel, Potted-In Cable 	Ni20-K40-AN6X	M1676900		20	3-Wire DC NPN
	Ni20-K40-AP6X	M1655900		20	3-Wire DC PNP
	Ni20-K40-Y1	M1007300		20	2-Wire DC NAMUR
40 mm - Nonembeddable, Smooth Plastic Barrel, Potted-In Cable 	Ni20-K40-AZ3X	M1306500		20	2-Wire AC/DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	----	N/A	YE	RK 40-*M	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	----	N/A	YE	RK 40-*M	2	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	N/A	RD	RK 30-*M	3	<p>Diagram 3</p>
10-30 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	EPTR	N/A	YE	2M/PVC	4	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	EPTR	N/A	YE	2M/PVC	5	<p>Diagram 5</p>
5-30 VDC	100	Remote	-25 to +70	IP 67	ABS	ABS	EPTR	N/A	N/A	2M/PVC	6	<p>Diagram 6</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	ABS	ABS	EPTR	N/A	RD	2M/PVC	7	<p>Diagram 7</p>

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
40 mm - Smooth Plastic, Terminal Chamber <p>M5x0.8x5.0 SOCKET HEAD CAP. SCREW 2x</p> <p>2.559 [65.0]</p> <p>1.870 [47.5]</p> <p>0.630 [16.0]</p> <p>1.969 [50.0]</p> <p>LED 2x</p> <p>Ø1.575 [40.0]</p> <p>2.165 [55.0]</p> <p>3.543 [90.0]</p> <p>M16x1.5</p>	Ni20-K40SR-VN4X2	M1575600	Comp. Outputs		20	4-Wire DC NPN
	Ni30-K40SR-VN4X2	M1575800	Comp. Outputs		30	
	Bi15-K40SR-VP4X2	M1565500	Comp. Outputs	•	15	4-Wire DC PNP
	Ni20-K40SR-VP4X2	M1565600	Comp. Outputs		20	
	Ni30-K40SR-VP4X2	M1565800	Comp. Outputs		30	
	Bi15-K40SR-FZ3X2	M1342300	Programmable Output	•	15	2-Wire AC/DC
	Ni20-K40SR-FZ3X2	M1342400	Programmable Output		20	
	Ni30-K40SR-FZ3X2	M1342500	Programmable Output		30	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length / Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	1	<div style="border: 1px solid black; padding: 5px;"> <p>Diagram 1</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Diagram 2</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Diagram 3</p> </div>
	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	1	
10-65 VDC	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	2	
	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	2	
	100	≤200	-25 to +70	IP 67	ABS	ABS	----	GN	YE	- - - -	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	GN	RD	- - - -	3	
	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	GN	RD	- - - -	3	
	20	≤400/300	-25 to +70	IP 67	ABS	ABS	----	GN	RD	- - - -	3	

Barrels

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
47 mm - Embeddable, minifast® Connection 	Bi25-G47-VN4X-B2141	M4590300	Comp. Outputs	25	4-Wire DC NPN
	Bi25-G47-VP4X-B2141	M4590200	Comp. Outputs	25	4-Wire DC PNP
	Bi20-G47-AZ3X-B2131	M4375900		20	2-Wire AC/DC
47 mm - Embeddable, Potted-In Cable 	Bi20-G47-AN4X	M1574500		20	3-Wire DC NPN
	Bi20-G47-AP4X	M1564500		20	3-Wire DC PNP
	Bi20-G47-AZ3X	M1308800		20	2-Wire AC/DC
47 mm - Nonembeddable, Potted-In Cable 	Ni25-G47-AN4X	M1574600		25	3-Wire DC NPN
	Ni25-G47-AP4X	M1564600		25	3-Wire DC PNP
	Ni25-G47-AZ3X	M1308900		25	2-Wire AC/DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



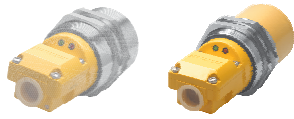
Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	----	N/A	YE	RKM 40-*M	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	----	N/A	YE	RKM 40-*M	2	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	----	N/A	RD	RKM 30-*M	3	<p>Diagram 3</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	<p>Diagram 4</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	<p>Diagram 5</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	6	<p>Diagram 6</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	4	<p>Diagram 7</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	YE	2M/PVC	5	<p>Diagram 8</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	EPTR	N/A	RD	2M/PVC	6	<p>Diagram 9</p>

Barrels

* Length in meters.

For material descriptions see page M36.

Inductive Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
47 mm - Embeddable, Terminal Chamber 	Bi25-G47SR-VN4X2	M1574800	Comp. Outputs	25	4-Wire DC NPN
	Bi25-G47SR-VP4X2	M1564800	Comp. Outputs	25	4-Wire DC PNP
	Bi25-G47SR-FZ3X2	M1342700	Programmable Output	25	2-Wire AC/DC
47 mm - Nonembeddable, Terminal Chamber 	Ni40-G47SR-VN4X2	M1575000	Comp. Outputs	40	4-Wire DC NPN
	Ni40-G47SR-VP4X2	M1565000	Comp. Outputs	40	4-Wire DC PNP
	Ni40-G47SR-FZ3X2	M1342800	Programmable Outputs	40	2-Wire AC/DC

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	----	GN	YE	- - - -	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	----	GN	YE	- - - -	2	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	----	GN	RD	- - - -	3	<p>Diagram 3</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	----	GN	YE	- - - -	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP 67	CPB	PA 12	----	GN	YE	- - - -	2	<p>Diagram 2</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	CPB	PA 12	----	GN	RD	- - - -	3	<p>Diagram 3</p>

For material descriptions see page M36.

Inductive Sensors

Harsh Duty Section

Sensors with extended temperature range

TURCK offers sensors for applications that withstand extreme temperatures of -60 °C to +250 °C. Typically, these sensors are used in extreme climatic areas, e.g. In deep freezing systems, outdoors and in metal foundries, as well as in painting shops in the automotive industry or the glass industry.



Sensors for extreme environmental conditions

TURCK extensive family of products for washdown environments include uprox+ factor 1 sensors that are IP69K rated with temperature ratings from -40 to 100 C. These sensors incorporate durable 316 stainless steel barrel with a liquid crystal polymer front cap that resists moisture ingress, making it highly resilient to high-pressure cleaning agents, like those found in the food and beverage industry.

For underwater applications, TURCK offers an inductive sensor with a seawater resistant plastic M18 barrel that can be used at a depth up to 500 meters.

A complete line of 2 and 3-wire ArmorGuard stainless steel sensors from TURCK are made from a single piece of steel that makes it impossible for ingress within the front cap of the sensor – all while maintaining a sensing distance up to 10 millimeters. These sensors are rated for IP68 and IP69K ingress protection.



Inductive sensors for underwater application

TURCK provides sensors in a fully pressure and seawater resistant housing for sub-sea applications. These sensors are ideally adapted to continuous use under water. The devices in a plastic M18 threaded barrel can be used at a water depth of up to 500 m. Also in the TURCK range, are 40 mm rectangular style that are mounted in the protective housing and are fully encapsulated. The result is a sensor with a large switching distance, is IP 68 protection and can be used in a water depth up to 5 m. They can be used in applications such as locks, piers and offshore areas.



Mobile Equipment Sensors

TURCK sensors designed specifically for mobile equipment applications include features that make them ideally suited to these demanding environments, such as: load dump protection, resistance to shock and vibration, EMC immunity, extended temperature range, broader operating voltage and longer sensing range. The sealing and ingress protection in these sensors to make them rated for IP68 and IP69K.

In addition, TURCK offers IP67-rated high pressure sensors for up to 5,000 psi for use in cylinders, as well as 30 millimeter inductive sensors with high current solid state switch outputs for switching electrical loads up to 6 Amps.





Harsh Duty Sensing Selection Guide



Low and High Temperature Sensors

Housing	12, 18 mm Low Temp. -60°C	12, 18, 30 & 100 mm High Temp. 120°C	18 & 30 mm High Temp. 160°C	35 mm High Temp. 200°C	40 & 80 mm High Temp. 250°C
Sensing Range	2-7 mm	2-100 mm	5 mm	20 mm	25 mm
Pages	D5	D7-D12	D11	D13	D15

Harsh Duty



Washdown, Submersible and Stainless Steel Sensors

Housing	8 - 30 mm Washdown -40 to +100°C	18 mm Submersible	8 - 30 mm Stainless Steel
Sensing Range	1.5 - 30 mm	5 - 12 mm	1.5 - 10 mm
Pages	D17-D34	D31	D33-D40



Mobile Equipment, High Pressure and High Current Sensors

Housing	Mobile Equipment Sensors -40 to +100°C	18 mm High Pressure Sensors	30 mm High Current Sensors
Sensing Range	4 - 20 mm	2 mm	12 mm
Pages	D41 - D46	D47	D49

Inductive Sensors

Harsh Duty and Specialty Sensor Part Number Key

B I 10 U				G T 30			A DZ 30 X2				Wiring Option*	Special Option Code*
Mounting											Load Dump	
B = embeddable BI2 = high pressure sensor N = nonembeddable S = slot											LD = load dump	
Principle of Operation											Number of LEDs	
I = inductive IM = inductive magnet operated											(blank) = no LED's X = 1 LED X2 = 2 LED's	
Rated Operating Distance (mm)											Voltage Range	
											AC/DC: (No SCP**) 3 = 20-250VAC, 10-300 VDC AC/DC: (Latched SCP) 30 = 20-250VAC, 10-300 VDC	
Sensing Characteristics											DC:	
FE = ferrous only R = ring sensor U = <i>uprox</i> ® Sensor											4 = 10-65 VDC, polarity protected, pulsed SCP** 6 = 10-30 VDC, polarity protected, pulsed SCP 6 = (M)6 10-30 VDC, No SCP 44 = 10-55 VDC 45 = 8.4-65 Volts	
Housing Material Modifier											Output	
E = stainless steel											D = 2-wire DC (transistor output) DZ = 2-wire AC/DC, (power MOSFET output) LF = frequency output G = 2-wire DC, low voltage drop LI(LU) = linear analog output current (LI, 15-30 VDC) or voltage (LU, 18-30 VDC) M = MOSFET high current output N = NPN transistor (current sinking) P = PNP transistor (current sourcing)	
Housing Style											Output Function	
Barrel - Metal G = full threading, generally chrome plated brass H = smooth, chrome plated brass or stainless steel M = partial threading, chrome plated brass											A = normally open (N.O.) DA = dynamic output (ring sensor), normally open R = normally closed (N.C.) U = jumper programmable (N.O. or N.C.) V = complementary outputs: one N.O., one N.C. Y0 = NAMUR output, requires switching amplifier Y1 = NAMUR output, requires switching amplifier	
Barrel - Plastic K = smooth P = full threading S = partial threading											Secondary Barrel Modifier	
Rectangular Q = metal or plastic, various rectangular styles CQ =											E = extended barrel length EE = extra long barrel length FE = stainless steel face, extended barrel length FM = stainless steel face, medium barrel length FEE = stainless steel face, extra long barrel length M = medium barrel length TC = terminal chamber WD = washdown IP 67/IP 68/IP 69K	
Limit Switch CA = <i>stubby</i> ®, short aluminum housing, connector CK = <i>stubby</i> ®, short plastic housing, connector												
Slot K = slot sensor, plastic housing												
Ring 32SR = large plastic housing, static or dynamic output Q = small rectangular plastic housing, static output W = small plastic housing, dynamic output												
Primary Barrel Modifier T = PTFE® coated												
Housing Diameter or Height (mm)												

NOTE: Part Number Keys are to assist in IDENTIFICATION ONLY.
Verify New Part Numbers with Factory; Some Configurations Are Not Possible.
* See next page for Wiring Options and Special Option Codes



Wiring Options

A) Connectorized Sensor

Bi2-M12-AN6X - **H1 1 4 1**

Connector Family

- B1 = *minifast*®, 7/8"-16UN, metal, male
- B2 = *minifast*®, 7/8"-16UN, plastic, male
- B3 = *microfast*®, 1/2"-20UNF, metal, male
- H1 = *eurofast*®, M12x1, metal or plastic, male
- V1 = *picofast*®, snap and M8x1, metal, male (Q08 snap only)
- V2 = *picofast*®, snap and M8x1, male (Q08 only)

Connector/Sensor Transition

- 1 = straight
- 3 = straight with adapter
- 4 = right-angle with adapter

Factory Code

- examples:**
- 0 = non-standard wiring
 - 1 = standard wiring
 - 3 = N.C. DC output on pin 4 (for US)
 - 4 = N.O. 2 wire DC output on pin 4

Number of Pins

- 3 = 3
- 4 = 4
- 5 = 5

B) Potted Cable

Bi2-G12-AN6X **7M**

Cable Length

- (blank) = 2 meter cable
- 7M = 7 meter cable
- *M = custom cable lengths available

C) Potted Cable with Molded Connector

Bi2-G12-Y0X - **0.2M** - **RS 4.21T**

Cable Length

- examples:**
- 0.2M = 0.2 meters (minimum)
 - 2M = 2 meters
 - *M = custom cable lengths available

Standard Cordset Connector

- AC:** RSM 30 = *minifast*, 7/8"-16UN, metal, male, 3-conductor
- SB 3T = *microfast*, 1/2"-20UNF, metal, male, 3-conductor
- DC:** RS 4T = *eurofast*, M12x1, metal or plastic, male, 3-conductor
- RS 4.2T = *eurofast*, M12x1, metal or plastic, male, 2-conductor
- RS 4.21T = *eurofast*, M12x1, metal or plastic, male, NAMUR, 2-conductor
- RS 4.4T = *eurofast*, M12x1, metal or plastic, male, 4-conductor
- RSM 40 = *minifast*, 7/8"-16UN, metal, male, 4-conductor
- PSG 3 = *picofast*, snap, plastic, male, 3-conductor
- PSG 3M = *picofast*, M8x1, metal, male, 3-conductor

Harsh Duty

Special Option Codes

Option Codes for Special or Custom-Built Sensors

Bi 2-S12-AN7X /S100 OR **Bi10R-W30-DAN6X-H1141 /F2**

examples:

- /S34 = weld field immune
- /S90 = PUR cable
- /S97 = -40°C (-40°F) operating temperature
- /S100 = +100°C (+212°F) operating temperature
- /S120 = +120°C (+248°F) operating temperature
- /S139 = submersible
- /S250 = without potentiometer (capacitive only)
- /S907 = +160°C (+320°F) operating temperature
- /S1589 = barrel sensors with *weldguard*® laminate
- /S1590 = CA40 sensor with *weldguard* laminate
- /S1610 = barrel sensors with *armorguard* sleeve and *weldguard* laminate

example:

- /F2 = alternate oscillator frequency

Inductive Low Temperature Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-in Cable 	Bi 2-EM12WD-AP6/S929	M4614515	Washdown, -60°C	2	3-Wire DC PNP
18 mm - Nonembeddable, Potted-in Cable 	Ni 7-EM18WD-AP6X/S929	M4632001	Washdown, -60°C	7	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-60 to +60	IP 68, 69K	SS	PTFE	N/A	N/A	2M/FEP(TFE)	1	<p>Diagram 1</p>
10-30 VDC	1000	≤200	-60 to +60	IP 68, 69K	SS	PTFE	N/A	RD	2M/FEP(TFE)	1	

Low Temp.

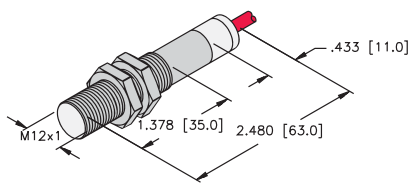
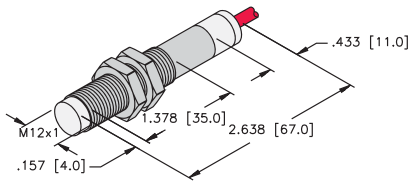
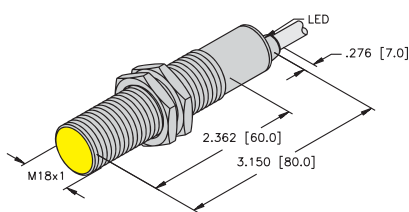
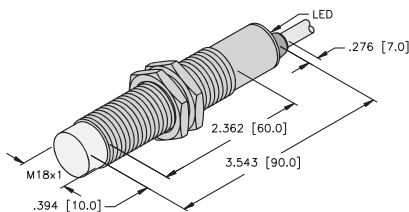
Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive High Temperature Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable 	Bi 2-EM12D-AP6/S120	M4614512	<i>High Temp. 120°C</i>	2	3-Wire DC PNP
12 mm - Nonembeddable, Potted-In Cable 	Ni 4-EM12D-AP6/S120	M1633110	<i>High Temp. 120°C</i>	4	3-Wire DC PNP
18 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 5-M18-AP6X/S120	M4611030	<i>High Temp. 120°C</i>	5	3-Wire DC PNP
	Bi 5-M18-AZ3X/S120	M4310410	<i>High Temp. 120°C</i>	5	2-Wire AC
18 mm - Nonembeddable, Partial Threading, Potted-In Cable 	Ni 8-M18-AZ3X/S120	M4310530	<i>High Temp. 120°C</i>	8	2-Wire AC
	Ni 8-M18-AP6X/S120	M4611230	<i>High Temp. 120°C</i>	8	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	N/A	2M/PTFE	1	<p>Diagram 1</p> <p>Diagram 2</p>
10-30 VDC	100	≤200	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	N/A	2M/PTFE	1	
10-30 VDC	100	≤200	-25 to +120	IP 67	CPB	PTFE	EPTR	N/A	YE	2M/PTFE	1	
20-250 VAC	1000	≤100	-25 to +120	IP 67	CPB	PTFE	EPTR	N/A	YE	2M/PTFE	2	
20-250 VAC	2000	≤200	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	YE	2M/PTFE	2	
10-30 VDC	100	≤200	-25 to +120	IP 67	CPB	PTFE	PTFE	N/A	YE	2M/PTFE	1	

High Temp.

Harsh Duty

For material descriptions see page M36.

Inductive High Temperature Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 5-EM18D-VP6X/S120	M4614900	High Temp. 120°C	5	4-Wire DC PNP
18 mm - Nonembeddable, Partial Threading, Potted-In Cable 	Ni 7-EM18D-VP6X/S120	M4632100	High Temp. 120°C	7	4-Wire DC PNP
30 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 10-M30-AP6X/S120	M4617010	High Temp. 120°C	10	3-Wire DC PNP
	Bi 10-M30-AZ3X/S120	M4316410	High Temp. 120°C	10	2-Wire AC
30 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 10-EM30D-VP6X/S120	M4617035	High Temp. 120°C	10	4-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +120	IP 68, 69K	SS	PTFE	PTFE	N/A	YE	2M/PTFE	2	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
10-30 VDC	2000	≤200	-25 to +120	IP 68, 69K	SS	PTFE	PTFE	N/A	YE	2M/PTFE	2	
10-30 VDC	200		-25 to +120	IP 67	CPB	PTFE	PTFE	N/A	YE	2M/SiHSi	1	
20-250 VAC	200		-25 to +120	IP 67	CPB	PTFE	PTFE	N/A	YE	2M/SiHSi	3	
10-30 VDC	100	≤200	-25 to +120	IP 68, 69K	SS	PTFE	PTFE	N/A	YE	2M/PTFE	2	

High Temp.

Harsh Duty

For material descriptions see page M36.

Inductive High Temperature Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-M30-AP6X/S120	M4617210	High Temp. 120°C	15	3-Wire DC PNP
	Ni 15-M30-AZ3X/S120	M4316506	High Temp. 120°C	15	2-Wire AC
30 mm - Nonembeddable, Potted-In Cable 	Ni 15-EM30D-VP6X/S120	M4617410	High Temp. 120°C	15	4-Wire DC PNP
18 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 5-EM18-AP6/S907	M4617425	High Temp. 160°C	5	3-Wire DC PNP
30 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 10-EM30-AP6/S907	M4614513	High Temp. 160°C	10	3-Wire DC PNP
30 mm - Non-embeddable, Partial Threading, Potted-In Cable 	Ni 15-EM30-AP6/S907	M4617412	High Temp. 160°C	15	3-Wire DC PNP

**For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.**



Output	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	YE	2M/PTFE	1	<p>Diagram 1</p>
20-250 VAC	20	≤400	-25 to +120	IP 67	SS	PTFE	PTFE	N/A	YE	2M/PTFE	2	<p>Diagram 2</p>
10-30 VDC	100	≤200	-25 to +120	IP 68, 69K	SS	PTFE	PTFE	N/A	YE	2M/PTFE	3	<p>Diagram 3</p>
10-30 VDC	20	≤200	-25 to +160	IP 67	SS	PTFE	EPTR	N/A	N/A	2M/PTFE	1	
10-30 VDC	200	≤200	-25 to +160	IP 67	SS	PTFE	EPTR	N/A	N/A	2M/PTFE	1	
10-30 VDC	200	≤200	-25 to +160	IP 67	SS	PTFE	EPTR	N/A	N/A	2M/PTFE	1	

High Temp.

Harsh Duty

For material descriptions see page M36.

Inductive High Temperature Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
160 mm -Nonembeddable 	Ni100-Q160-AP44X/S120	M1440012		100	3-Wire DC PNP
35 mm -Embeddable 	Bi20-K35/S200 10M	M4614518	High Temp. +200°C Functions only with Signal processor listed below	20	Remote
Rectangular-Signal Processor 	MK96-11VP/24VDC	M7525015	Functions only with Sensor listed above	N/A	4-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

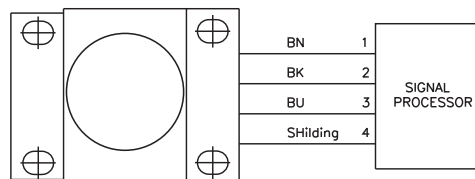


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagram
10-55 VDC	50	≤400	-25 to +120	IP67	PPO	PPO	-	-YE	NA	PTFE	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>See below.</p>
Remote	1000	Remote	-25 to +200	IP 40	PTFE	PTFE	N/A	N/A	N/A	10M/PTFE	2	
19.2-28.8 VDC	Sensor	≤100	-20 to +60	IP 20	ABS	N/A	N/A	GN	YE	N/A	2	

High Temp.

Harsh Duty

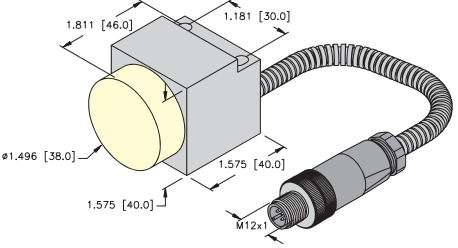
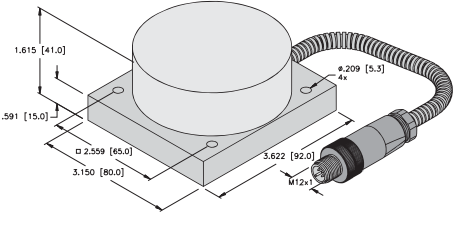
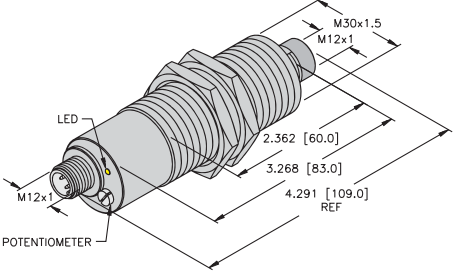
Diagram 2



For material descriptions see page M36.

Inductive High Temperature Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
CQ40 - Nonembeddable 	Ni25-CQ40/S1102 5M Ni25-CQ40/S1102 10M	M1602410 M1602403	High Temp. +250°C Functions only with Signal processor listed below	25 25	Remote
CQ80 - Nonembeddable 	Ni 40-CQ80/S1102 5M	M1602404	High Temp. +250°C Functions only with Signal processor listed below	40	Remote
30 mm - Signal Processor 	EM30-AP6X2-H1141/S1102	M1602411	Functions only with Sensor listed above	N/A	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

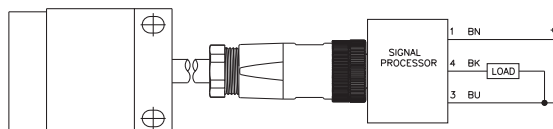


Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacketlet	Wiring Diagram #	Wiring Diagrams
Remote	40	Remote	0 to +250	IP 60	AL	PEEK	PEEK	N/A	N/A	30M/AL	1	<div style="background-color: #c8e6c9; padding: 5px; text-align: center;">Diagram 1</div> See below.
	40	Remote	0 to +250	IP 60	AL	PEEK	PEEK	N/A	N/A	30M/AL	1	
Remote	40	Remote	0 to +250	IP60	AL	PEEK	PEEK	N/A	N/A	30M/AL	1	
10-30 VDC	40	≤200	-20 to +70	IP 67	SS	SS	N/A	GN	YE	N/A	1	

High Temp.

Harsh Duty

Diagram 1



For material descriptions see page M36.

Inductive Washdown Sensors *Uprox+*



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection 	Bi 4U-EM12WD-AN6X-H1141	M1634841	<i>Uprox+</i> , Washdown	4	3-Wire DC NPN
	Bi 4U-EM12WD-AP6X-H1141	M1634812	<i>Uprox+</i> , Washdown	4	3-Wire DC PNP
12 mm - Nonembeddable, eurofast Connection 	Ni 10U-EM12WD-AN6X-H1141	M1634837	<i>Uprox+</i> , Washdown	10	3-Wire DC NPN
	Ni 10U-EM12WD-AP6X-H1141	M1634814	<i>Uprox+</i> , Washdown	10	3-Wire DC PNP
12 mm - Embeddable, Potted-in Cable 	Bi 4U-EM12WD-AN6X	M1634842	<i>Uprox+</i> , Washdown	4	3-Wire DC NPN
	Bi 4U-EM12WD-AP6X	M1634811	<i>Uprox+</i> , Washdown	4	3-Wire DC PNP
12 mm - Nonembeddable, Potted-in Cable 	Ni 10U-EM12WD-AN6X	M1634838	<i>Uprox+</i> , Washdown	10	3-Wire DC NPN
	Ni 10U-EM12WD-AP6X	M1634813	<i>Uprox+</i> , Washdown	10	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	1	Diagram 1
10-30 VDC	2000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	2	Diagram 2
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	1	Diagram 3
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	2	Diagram 4
10-30 VDC	2000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	3	
10-30 VDC	2000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	4	
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	3	
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	4	

Washdown Uprox+

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Washdown Sensors *Uprox+*



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Terminal Chamber 	Bi 4U-EM12WDTC-AP6X	M1634760	Washdown, <i>Uprox+</i>	4	3-Wire DC PNP
12 mm - Non-embeddable, Terminal Chamber 	Ni 10U-EM12WDTC-AP6X	M1634761	Washdown, <i>Uprox+</i>	10	3-Wire DC PNP

*Cable gland not supplied.
 Cable gland A9348, M16 x 1.5.

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-40 to +100	IP 69K	SS/LCP	LCP	N/A	YE	N/A	1	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Diagram 1</p> </div>
10-30 VDC	2000	≤200	-40 to +100	IP 69K	SS/LCP	LCP	N/A	YE	N/A	1	

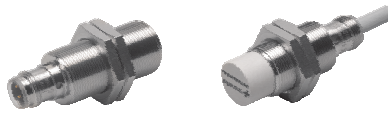
Washdown Uprox+

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Washdown Sensors *Uprox+*



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection 	Bi 8U-EM18WD-AN6X-H1141	M1634839	Uprox+, Washdown	8	3-Wire DC NPN
	Bi 8U-EM18WD-AP6X-H1141	M1634816	Uprox+, Washdown	8	3-Wire DC PNP
18 mm - Nonembeddable, eurofast Connection 	Ni 15U-EM18WD-AN6X-H1141	M1634835	Uprox+, Washdown	15	3-Wire DC NPN
	Ni 15U-EM18WD-AP6X-H1141	M1634818	Uprox+, Washdown	15	3-Wire DC PNP
18 mm - Embeddable, Potted-in Cable 	Bi 8U-EM18WD-AN6X	M1634840	Uprox+, Washdown	8	3-Wire DC NPN
	Bi 8U-EM18WD-AP6X	M1634815	Uprox+, Washdown	8	3-Wire DC PNP
18 mm - Nonembeddable, Potted-in Cable 	Ni 15U-EM18WD-AN6X	M1634836	Uprox+, Washdown	15	3-Wire DC NPN
	Ni 15U-EM18WD-AP6X	M1634817	Uprox+, Washdown	15	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	1	<p>Diagram 1</p>
10-30 VDC	1500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	2	<p>Diagram 2</p>
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	1	<p>Diagram 3</p>
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	2	<p>Diagram 4</p>
10-30 VDC	1500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	3	
10-30 VDC	1500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	4	
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	3	
10-30 VDC	1000	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	4	

Washdown Uprox+

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Washdown Sensors *Uprox+*



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Terminal Chamber 	Bi 8U-EM18WDTC-AP6X	M1634762	Washdown, <i>Uprox+</i>	8	3-Wire DC PNP
18 mm - Non-embeddable, Terminal Chamber 	Ni 15U-EM18WDTC-AP6X	M1634763	Washdown, <i>Uprox+</i>	15	3-Wire DC PNP

*Cable gland not supplied.

Cable gland A9348, M16 x 1.5.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1500	≤200	-40 to +100	IP 69K	SS/LCP	LCP	N/A	YE	N/A	1	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Diagram 1</p> </div>
10-30 VDC	1500	≤200	-40 to +100	IP 69K	SS/LCP	LCP	N/A	YE	N/A	1	

Washdown Uprox+

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Washdown Sensors *Uprox+*



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection 	Bi 15U-EM30WD-AN6X-H1141	M1634834	Uprox+, Washdown	15	3-Wire DC NPN
	Bi 15U-EM30WD-AP6X-H1141	M1634820	Uprox+, Washdown	15	3-Wire DC PNP
30 mm - Nonembeddable, eurofast® Connection 	Ni 30U-EM30WD-AN6X-H1141	M1634832	Uprox+, Washdown	30	3-Wire DC NPN
	Ni 30U-EM30WD-AP6X-H1141	M1634822	Uprox+, Washdown	30	3-Wire DC PNP
30 mm - Embeddable, Potted-in Cable 	Bi 15U-EM30WD-AN6X	M1634843	Uprox+, Washdown	15	3-Wire DC NPN
	Bi 15U-EM30WD-AP6X	M1634819	Uprox+, Washdown	15	3-Wire DC PNP
30 mm - Nonembeddable, Potted-in Cable 	Ni 30U-EM30WD-AN6X	M1634833	Uprox+, Washdown	30	3-Wire DC NPN
	Ni 30U-EM30WD-AP6X	M1634821	Uprox+, Washdown	30	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	750	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	1	<p>Diagram 1</p>
10-30 VDC	750	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	2	<p>Diagram 2</p>
10-30 VDC	500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	1	<p>Diagram 3</p>
10-30 VDC	500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	RKV 4T-*/S90	2	<p>Diagram 4</p>
10-30 VDC	750	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	3	
10-30 VDC	750	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	4	
10-30 VDC	500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	3	
10-30 VDC	500	≤200	-40 to +100	IP 68, 69K	SS	LCP	N/A	YE	2M/PP	4	

Washdown Uprox+

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Washdown Sensors *Uprox+*



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Terminal Chamber 	Bi 15U-EM30WDTC-AP6X	M1634764	Washdown, <i>Uprox+</i>	15	3-Wire DC PNP
30 mm - Non-embeddable, Terminal Chamber 	Ni 30U-EM30WDTC-AP6X	M1634765	Washdown, <i>Uprox+</i>	30	3-Wire DC PNP

*Cable gland not supplied.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	750	≤200	-40 to +100	IP 69K	SS/LCP	LCP	N/A	YE	N/A	1	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; margin: 0;">Diagram 1</p> </div>
10-30 VDC	750	≤200	-40 to +100	IP 69K	SS/LCP	LCP	N/A	YE	N/A	1	

Washdown Uprox+

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Washdown Sensors Ferrite Core



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Quick Disconnect 	Bi 1.5-EG08WD-AN6X-H1341	S4602211	Washdown	1.5	3-Wire DC NPN
	Bi 1.5-EG08WD-AP6X-H1341	S4602210	Washdown	1.5	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Output LED	Mating Cordset, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤150	-10 to +85	IP 68,69K	SS	PA 12	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>
10-30 VDC	3000	≤150	-10 to +85	IP 68,69K	SS	PA 12	N/A	YE	RK 4T-*	2	<p>Diagram 2</p>

* Length in meters.

Washdown Ferrite Core

Harsh Duty

For material descriptions see page M36.

Inductive Submersible Sensors



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
18 mm - Embeddable and Nonembeddable, Full Threading, Potted-In Cable 	Bi 5-P18-AN6/S139-S90	M1660351	<i>Submersible</i>	•	5	3-Wire DC NPN
	Bi 5-P18-AP6/S139-S90	M1660350	<i>Submersible</i>	•	5	3-Wire DC PNP
	Bi 8U-P18-AP6/S139-S90	M1650202	<i>Submersible, Uprox</i>	•	8	
	Ni 12U-P18-AP6/S139-S90 30M	M1650201	<i>Submersible, Uprox</i>		12	
	Bi 5-P18-AZ3/S139-S90	M1384300	<i>Submersible</i>	•	5	2-Wire AC/DC
	Ni 8-P18-AZ3/S139-S90 10M	M1350003	<i>Submersible</i>		8	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 68	POM	PA 12	EPTR	N/A	N/A	2M/PUR	1	Diagram 1
	1000	≤200	-25 to +70	IP 68	POM	PA 12	EPTR	N/A	N/A	2M/PUR	2	Diagram 2
10-30 VDC	1000	≤200	-25 to +70	IP 68	POM	PA 12	EPTR	N/A	N/A	2M/PUR	2	
	20	≤400/300	-25 to +70	IP 68	POM	PA 12	EPTR	N/A	N/A	2M/PUR	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 68	POM	PA 12	EPTR	N/A	N/A	10M/PUR	3	Diagram 3
	20	≤400/300	-25 to +70	IP 68	POM	PA 12	EPTR	N/A	N/A	10M/PUR	3	

Submersible

Harsh Duty

For material descriptions see page M36.

Inductive Stainless Steel Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Stainless Steel Barrel, Potted-In Cable 	Bi 1.5-EG08F-AG6X	M4614628	Full Stainless Steel Housing	1.5	2-Wire DC
	Bi 1.5-EG08F-AN6X	M4614627	Full Stainless Steel Housing	1.5	3-Wire DC NPN
	Bi 1.5-EG08F-AP6X	M4614626	Full Stainless Steel Housing	1.5	3-Wire DC PNP
8 mm - Embeddable, Stainless Steel Barrel, eurofast® Quick Disconnect 	Bi 1.5-EG08F-AN6X-H1341	M4614630	Full Stainless Steel Housing	1.5	3-Wire DC NPN
	Bi 1.5-EG08F-AP6X-H1341	M4614629	Full Stainless Steel Housing	1.5	3-Wire DC PNP
8 mm - Embeddable, Stainless Steel Barrel, eurofast® Quick Disconnect 	Bi 1.5-EG08F-AG6X-0.3M-RS 4.23T	M4614684	Full Stainless Steel Housing	1.5	2-Wire DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	200	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	GN	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	200	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	200	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	200	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4T-*	5	<p>Diagram 4</p>
10-30 VDC	200	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4T-*	6	<p>Diagram 5</p>
10-30 VDC	200	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4.23T-*	4	<p>Diagram 6</p>

* Length in meters.

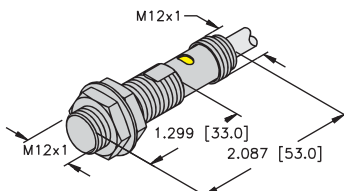
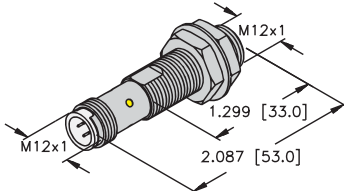
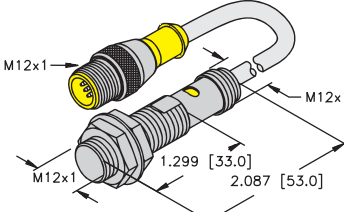
Stainless Steel

Harsh Duty

For material descriptions see page M36.

Inductive Stainless Steel Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Stainless Steel Barrel, Potted-In Cable 	Bi 2-EG12F-AG6X	M4614634	Full Stainless Steel Housing	2	2-Wire DC
	Bi 2-EG12F-AN6X	M4614633	Full Stainless Steel Housing	2	3-Wire DC NPN
	Bi 2-EG12F-AP6X	M4614632	Full Stainless Steel Housing	2	3-Wire DC PNP
12 mm - Embeddable, Stainless Steel Barrel, eurofast® Quick Disconnect 	Bi 2-EG12F-AG6X-H1141	M4614637	Full Stainless Steel Housing	2	2-Wire DC
	Bi 2-EG12F-AN6X-H1141	M4614636	Full Stainless Steel Housing	2	3-Wire DC NPN
	Bi 2-EG12F-AP6X-H1141	M4614635	Full Stainless Steel Housing	2	3-Wire DC PNP
12 mm - Embeddable, Stainless Steel Barrel, eurofast® Quick Disconnect 	Bi 2-EG12F-AG6X-0.3M-RS 4.23T	M4614693	Full Stainless Steel Housing	2	2-Wire DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	GN	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	100	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	GN	RKV 4.23T-*	4	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4T-*	5	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4T-*	6	<p>Diagram 5</p>
10-30 VDC	100	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4.23T-*	4	<p>Diagram 6</p>

* Length in meters.

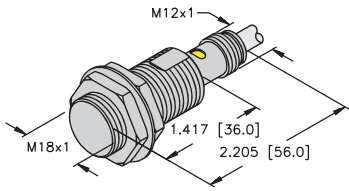
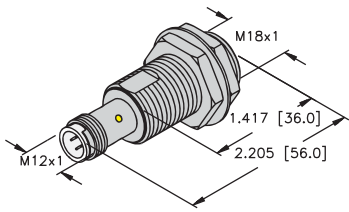
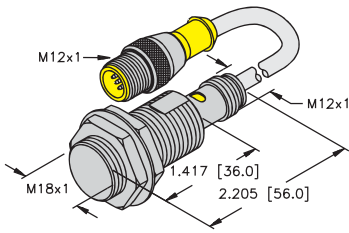
Stainless Steel

Harsh Duty

For material descriptions see page M36.

Inductive Stainless Steel Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Stainless Steel Barrel, Potted-In Cable 	Bi 5-EG18F-AG6X	M4614640	Full Stainless Steel Housing	5	2-Wire DC
	Bi 5-EG18F-AN6X	M4614639	Full Stainless Steel Housing	5	3-Wire NPN
	Bi 5-EG18F-AP6X	M4614638	Full Stainless Steel Housing	5	3-Wire PNP
18 mm - Embeddable, Stainless Steel Barrel, eurofast® Quick Disconnect 	Bi 5-EG18F-AG6X-H1141	M4614643	Full Stainless Steel Housing	5	2-Wire DC
	Bi 5-EG18F-AN6X-H1141	M4614642	Full Stainless Steel Housing	5	3-Wire NPN
	Bi 5-EG18F-AP6X-H1141	M4614641	Full Stainless Steel Housing	5	3-Wire PNP
18 mm - Embeddable, Stainless Steel Barrel, eurofast® Quick Disconnect 	Bi 5-EG18F-AG6X-0.3M-RS 4.23T	M4614694	Full Stainless Steel Housing	5	2-Wire DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	GN	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	100	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	GN	RKV 4.23T-*	4	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4T-*	5	<p>Diagram 4</p>
10-30 VDC	100	≤200	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4T-*	6	<p>Diagram 5</p>
10-30 VDC	100	≤100	-25 to +70	IP 68/69K	SS	SS	N/A	YE	RKV 4.23T-*	4	<p>Diagram 6</p>

* Length in meters.

Stainless Steel

Harsh Duty

For material descriptions see page M36.

Inductive Stainless Steel Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection, Stainless Steel 	Bi 10-EG30F-AG6X-H1141	N4614649	Stainless Steel PTFE Coated	10	2-Wire DC
30 mm - Embeddable, eurofast Connection, Stainless Steel 	Bi 10-EM30F-AN6X-H1141	M4614576	Full Stainless Steel Body	10	3-Wire DC NPN
	Bi 10-EM30F-AP6X-H1141	M4614537	Full Stainless Steel Body	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection 	Bi 10-EMT30F-AN6X-H1141	M4614577	Teflon Coated	10	3-Wire DC NPN
	Bi 10-EMT30F-AP6X-H1141	M4614563	Teflon Coated	10	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	50	≤100	-25 to +70	IP 68, 69K	SS	SS	GN	RD	RKV 4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
10-30 VDC	180	≤200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	2	
10-30 VDC	180	≤200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	3	
10-30 VDC	180	£200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	2	
10-30 VDC	180	£200	-25 to +80	IP 68, 69K	SS	SS	N/A	YE	RKV 4T-*	3	

Stainless Steel

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Mobile Equipment Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection 	Bi 4-EM12E-AN45XLD-H1141	T1584003	<ul style="list-style-type: none"> • Load Dump Protection • Shock Resistant • EMC Immunity • Extended Temperature Range • Broader Operating Voltage • Improved Sealing and Environmental Protection • Longer Sensing Range 	4	DC 3-Wire NPN
	Bi 4-EM12E-AP45XLD-H1141	T1585000		4	DC 3-Wire PNP
12 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 4-EM12E-AN45XLD	T1584004		4	DC 3-Wire NPN
	Bi 4-EM12E-AP45XLD	T1584001		4	DC 3-Wire PNP
18 mm - Embeddable, eurofast® Connection 	Bi 8-EM18-AN45XLD-H1141	T1584017		8	DC 3-Wire NPN
	Bi 8-EM18-AP45XLD-H1141	T1584010		8	DC 3-Wire PNP
18 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi 8-EM18-AN45XLD	T1584014		8	DC 3-Wire NPN
	Bi 8-EM18-AP45XLD	T1584011		8	DC 3-Wire PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
8.4-65 VDC	2000	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	RK 4T-*/S90	1	<p>Diagram 1</p>
8.4-65 VDC	2000	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	RK 4T-*/S90	2	<p>Diagram 2</p>
8.4-65 VDC	2000	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	2M/TPE	3	<p>Diagram 3</p>
8.4-65 VDC	2000	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	2M/TPE	4	<p>Diagram 4</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	RK 4T-*/S90	1	<p>Diagram 3</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	RK 4T-*/S90	2	<p>Diagram 4</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	2M/TPE	3	
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	2M/TPE	4	

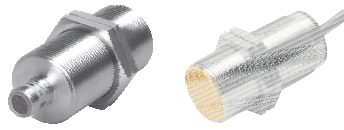
Mobile Equipment

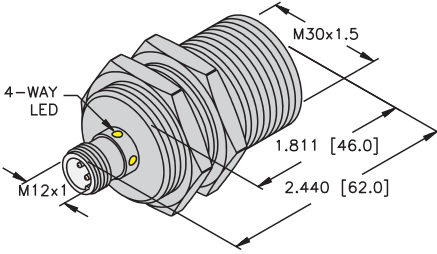
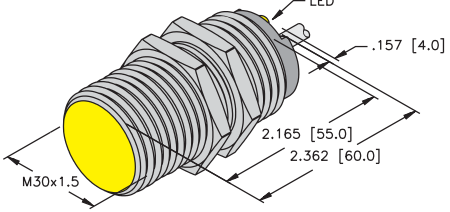
Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Mobile Equipment Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection 	Bi15-EM30-AN45XLD-H1141	T1584024	<ul style="list-style-type: none"> • Load Dump Protection • Shock Resistant • EMC Immunity • Extended Temperature Range • Broader Operating Voltage • Improved Sealing and Environmental Protection • Longer Sensing Range 	15	DC 3-Wire NPN
	Bi15-EM30-AP45XLD-H1141	T1584020		15	DC 3-Wire PNP
30 mm - Embeddable, Partial Threading, Potted-In Cable 	Bi15-EM30-AN45XLD	T1584022		15	DC 3-Wire NPN
	Bi15-EM30-AP45XLD	T1584021		15	DC 3-Wire PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	RK 4T-*/S90	3	<p>Diagram 1</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	RK 4T-*/S90	4	<p>Diagram 2</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	2M/TPE	1	<p>Diagram 3</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	SS	PA12	N/A	YE	2M/TPE	2	<p>Diagram 4</p>

Mobile Equipment

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive Mobile Equipment Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
14 mm - Embeddable, Potted-In Cable 	Bi10-Q14-AN45X2LD	T1584032	Load Dump Protection <ul style="list-style-type: none"> • Shock Resistant • EMC Immunity • Extended Temperature Range • Broader Operating Voltage Improved Sealing and Environmental	10	DC 3-Wire NPN
	Bi10-Q14-AP45X2LD	T1584031		10	DC 3-Wire PNP
20 mm - Embeddable, eurofast® Connection 	Bi20-Q20-AN45X2LD-H1141	M1584042		20	DC 3-Wire NPN
	Bi20-Q20-AP45X2LD-H1141	M1584040		20	DC 3-Wire PNP
20 mm - Embeddable, Potted-In Cable 	Bi20-Q20-AN45X2LD	M1584043		20	DC 3-Wire NPN
	Bi20-Q20-AP45X2LD	M1584041		20	DC 3-Wire PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	PBT	PBT	GN	YE	RK 4T-*/S90	3	<p>Diagram 1</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	PBT	PBT	GN	YE	RK 4T-*/S90	4	<p>Diagram 2</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	PBT	PBT	GN	YE	RK 4T-*/S90	3	<p>Diagram 3</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	PBT	PBT	GN	YE	RK 4T-*/S90	4	<p>Diagram 4</p>
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	PBT	PBT	GN	YE	2M/TPE	1	
8.4-65 VDC	500	≤200	-40 to +85	IP 68, IP 69K	PBT	PBT	GN	YE	2M/TPE	2	

Mobile Equipment

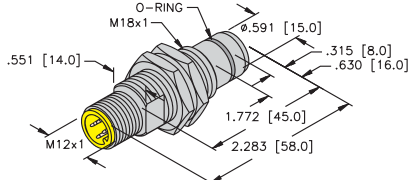
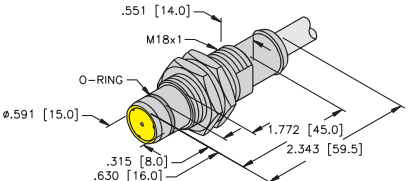
Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive High Pressure Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast Connection, Pressure Resistant Barrel Sensor 	BID 2-G180-AP6-H1141/S212	M1688500	5000 psi	2	3-Wire DC PNP
	BID 2-G180-Y0-H1141/S212	M1088500	5000 psi	2	2-Wire NAMUR
18 mm - Embeddable, Potted-In Cable, Pressure Resistant Barrel Sensor 	BID 2-G180-AP6/S212	M1688003	5000 psi	2	3-Wire DC PNP

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length/Jacke	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	PA 12	N/A	N/A	RKV 4T-*	1	<p>Diagram 1</p>
5-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	PA 12	N/A	N/A	RKV 4.21T-*	2	<p>Diagram 2</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	PA 12	N/A	N/A	2M/PVC	3	<p>Diagram 3</p>

High Pressure

Harsh Duty

* Length in meters.

For material descriptions see page M36.

Inductive High Current Solid State Relay



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	Bi12-G30-AM6/37X/S97	T1711200	High current solid state relay	12	4-Wire DC
	Bi12-G30-VM6/37X/S97	T1711290	High current solid state relay	12	5-Wire DC
30 mm - Nonembeddable, Potted-In Cable 	Ni20-G30-VM6/37X/S97	T4205472		20	5-Wire DC

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) AC/DC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	20	≤6000	-40 to 70	IP 67	CPB	PA12	PA12		YE	2M/PVC	1	<p>Diagram 1</p>
10-30 VDC	20	≤6000	-40 to 70	IP 67	CPB	PA12	PA12		YE	2M/PVC	2	<p>Diagram 2</p>
10-30 VDC	20	≤6000	-40 to 70	IP 67	CPB	PA12	PA12		YE	2M/PVC	2	

High Current Solid State Relay

Harsh Duty

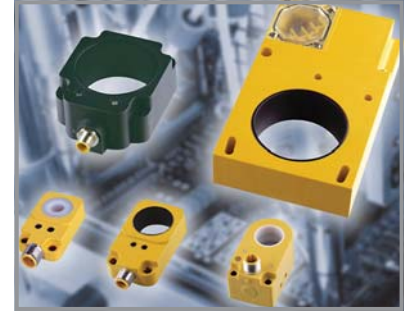
For material descriptions see page M36.

Inductive Specialty Sensors

Specialty Sensor Section

Inductive Ring Sensor

TURCK's compact ring sensors include integral electronics and may be applied in a wide variety of applications, including automated assembly and parts feeding systems. The new TS12 *uprox*[®]+ ring sensor incorporates TURCK's patented factor 1 technology so that the sensor can detect a wide variety of metals at the same rated sensing distance, eliminating the need for stocking multiple different ring-style sensors.



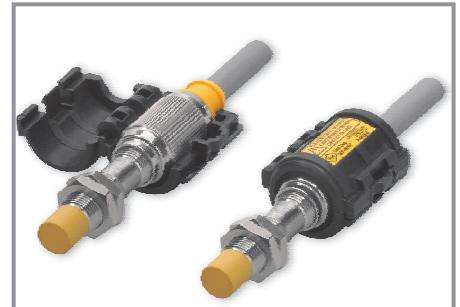
Inductive Slot Sensors

TURCK's slot sensors are U-shaped with the active sensing face between the two arms. If the object being detected moves into the U-shaped area, the sensor is actuated. Slot sensors are capable of securely detecting targets whose distance from the active face is not clearly defined upon side approach.



FM Class I Div 2

The new FM approval standard permits the use of quick disconnect with a lock fast accessory equipped sensor being used in a Class 1 Div 2, Groups A, B, C, D, as well as sensors with traditional conduit. The ability to use quick disconnect will enable customer to install sensors faster and at a lower installed cost than traditional conduit methods. We also now offer approved cordsets with eurofast or minifast connectors (when used with a lokfast guard). Sensors can also have a potted in cable. All cables used now have the ITC-ER rating. In addition, all TURCK sensors that are part of this certification will now carry a sealing rating of IP68, rather than just IP67.



Rotational Speed Monitors

TURCK's rotational speed sensors operate by detecting a periodic damping of the integrated inductive sensor. This is accomplished via metal targets or teeth of the monitored shaft. The pulse sequence generated is compared to a reference value and if the rotational speed is below the reference value, the output is open (0). If the reference value is exceeded, the output closes.





Specialty Sensor Section

Can and Edge Detection Sensor

TURCK also has the CK4080 and CK40130 & Q130 inductive proximity edge detection sensors. These sensors have an exceptional sensing range that makes them ideal for edge sheet detection, stamping processes and can sensing applications. In automotive transfer presses and stamping press applications, it is necessary to detect the edge of a metal sheet. By properly detecting the position of the sheet in the press, damage to tooling because of incorrect positioning can be eliminated. The long sensing face and range of these sensors (20 mm); and the reliability of TURCK automation products create an ideal, efficient application for manufactures in these industries.



Weld Nut Sensors

TURCK's magnetic-inductive weld nut sensors provide efficient and economical detection of weld nuts in automotive applications. The sensors detect ferromagnetic components, such as nuts, bushings and spacer sleeves, to ensure these components are present before robotic welding occurs. These sensors are less complex than existing devices that require additional software or electronics to detect the target.



Specialty

Magnetic-Inductive Proximity Sensors

Since magnet-inductive sensors are actuated by external magnetic fields, they are capable of providing large operating distances despite a compact housing design. In combination with the actuation magnet DMR31-15-5, the M12 sensor series features a nominal switching distance of 90 mm.



Selective Metal Sensors

Unlike other TURCK proximity sensors, Selective Metal sensors are designed to pick up only non-ferrous or ferrous metals only. The selective metal capability is can be used in applications where it is important to determine whether the target it is a made from a ferrous or non-ferrous metal. Typically a second sensor is used to determine whether the part is in place and the output from the selective metal is used in the PLC logic to determine which metal is in place. TURCK does offer an analog metal distinction sensor in section F that could be used to determine the actual metal.



Ring Sensor Mounting

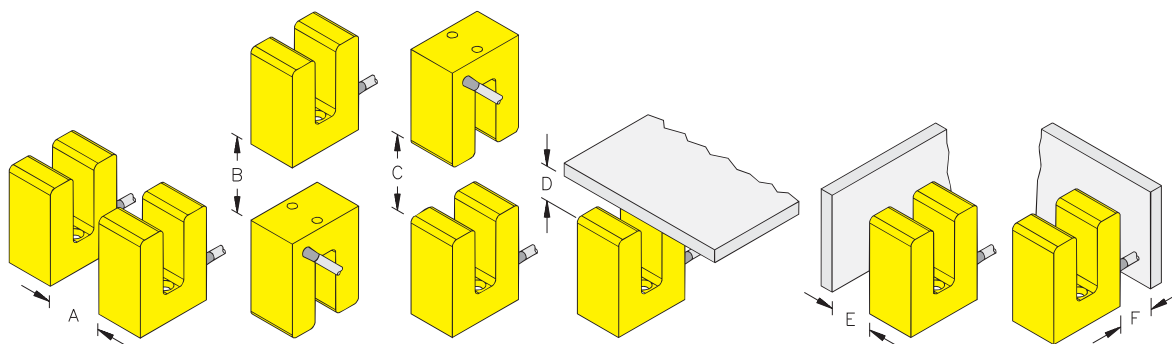
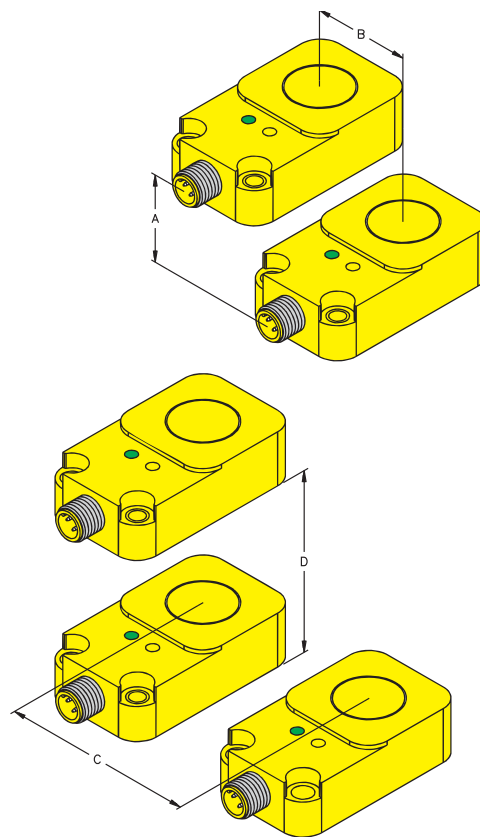
Sensor Type	G	S	D	W
Bi 6R-Q14	45	14	45	45
Bi 6R-W30	120	6	120	120
Bi10R-Q14	30	14	45	45
Bi10R-W30	120	10	120	120
Bi15R-Q14	30	14	45	45
Bi15R-W30	120	15	120	120
Bi20R-Q14	30	14	45	45
Bi20R-W30	120	20	120	120
Ni20R-S32SR	150	150	150	150
Bi30R-Q20	40	20	55	55
Bi30R-W30	120	30	120	120
Ni40R-S32SR	150	150	150	150
Bi50R-Q80*	90	50	140	120
Ni65R-Q80*	90	65	140	150
Ni65R-S32SR	150	150	150	150
Ni100R-S32XL**	Consult factory	Consult factory	290	240
Ni20U-TS12***	Consult factory	Consult factory	50	42

Dimensions are in mm.

* Do not use a metal mounting bracket.

** Sensitivity adjustment does affect the recommended mounting spacing, consult factory for assistance when using multiple sensors.

*** Spacing of multiple sensors depends on the actual number and orientation, please contact factory for assistance.



Slot Sensors Minimum Distances

Sensor Type	A	B	C	D	E	F
Si 2	15.00	5.00	15.00	0	0	0
Si 3.5	15.00	5.00	15.00	0	0	0
Si 5	10.00	0	5.00	0	0	0
Si15	30.00	10.00	30.00	5.00	5.00	5.00
Si30	30.00	0	30.00	10.00	10.00	10.00

Dimensions are in mm.



Specialty Sensor Selection Guide



Feature	Specialty Sensors, Ring Slot, FM1 and Rotational Speed Monitors			
Housing	Ring	Slot	12, 18 and 30 mm	Rotational Speed Monitor
Sensing Range	6 - 100 mm	2 - 15 mm	4 - 20 mm	5 - 20 mm
Pages	E5 - E8	E9- E12	E13-	E15-



Feature	Edge Detection Sensors, Can Sensors and Nut Sensors		
Housing	Edge Detection	Can Sensor 40 mm	Nut Detection Sensor
Sensing Range	20 mm	30 mm	N/A
Pages	E17 - E20	E21	E23



Feature	Magnetic Barrel Sensors	Ferrous Sensors	Nonferrous Sensors
Housing	8-18 mm	12 and 18 mm	12, 18 mm and Rectangular
Sensing Range	Up to 90 mm	2.5 - 4.5 mm	2.5 - 4.5 mm
Pages	E25 - E30	E31 - E34	E31 - E34

Specialty

Inductive Ring Sensors



Housing Style	Part Number	ID Number	Minimum Target Diameter	Ring Dia. (mm)	Output
14 mm - Rectangular, Ring Sensor, eurofast® Quick Disconnect 	Bi 6R-Q14-AN6X2-H1141	M1407020	≥ 2 mm	6	Static 3-Wire DC NPN
	Bi10R-Q14-AN6X2-H1141	M1407120	≥ 2 mm	10	
	Bi15R-Q14-AN6X2-H1141	M1407220	≥ 3 mm	15	
	Bi20R-Q14-AN6X2-H1141	M1407320	≥ 4 mm	20	
	Bi 6R-Q14-AP6X2-H1141	M1407000	≥ 2 mm	6	Static 3-Wire DC PNP
	Bi10R-Q14-AP6X2-H1141	M1407100	≥ 2 mm	10	
	Bi15R-Q14-AP6X2-H1141	M1407200	≥ 3 mm	15	
	Bi20R-Q14-AP6X2-H1141	M1407300	≥ 4 mm	20	
14 mm - Rectangular, Ring Sensor, Potted-In Cable 	Bi 6R-Q14-AN6X2	M1406020	≥ 2 mm	6	Static 3-Wire DC NPN
	Bi10R-Q14-AN6X2	M1406120	≥ 2 mm	10	
	Bi15R-Q14-AN6X2	M1406220	≥ 3 mm	15	
	Bi20R-Q14-AN6X2	M1406320	≥ 4 mm	20	
	Bi 6R-Q14-AP6X2	M1406000	≥ 2 mm	6	Static 3-Wire DC PNP
	Bi10R-Q14-AP6X2	M1406100	≥ 2 mm	10	
	Bi15R-Q14-AP6X2	M1406200	≥ 3 mm	15	
	Bi20R-Q14-AP6X2	M1406300	≥ 4 mm	20	
20 mm - Rectangular, Ring Sensor, eurofast Quick Disconnect 	Bi30R-Q20-AN6X2-H1141	M1407520	≥ 6 mm	30	Static 3-Wire DC NPN
	Bi30R-Q20-AP6X2-H1141	M1407500	≥ 6 mm	30	Static 3-Wire DC PNP
30 mm - Rectangular, Ring Sensor, eurofast Quick Disconnect 	Bi 6R-W30-DAN6X-H1141	M1403700	≥ 0.6 mm	6	Dynamic 3-Wire DC NPN
	Bi 10R-W30-DAN6X-H1141	M1403900	≥ 1 mm	10	
	Bi 15R-W30-DAN6X-H1141	M1404100	≥ 1.5 mm	15	
	Bi 20R-W30-DAN6X-H1141	M1404300	≥ 2 mm	20	
	Bi 30R-W30-DAN6X-H1141	M1404501	≥ 3 mm	30	
	Bi 6R-W30-DAP6X-H1141	M1403600	≥ 0.6 mm	6	Dynamic 3-Wire DC PNP
	Bi 10R-W30-DAP6X-H1141	M1403800	≥ 1 mm	10	
	Bi 15R-W30-DAP6X-H1141	M1404000	≥ 1.5 mm	15	
	Bi 20R-W30-DAP6X-H1141	M1404200	≥ 2 mm	20	
	Bi 30R-W30-DAP6X-H1141	M1404500	≥ 3 mm	30	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	1	Diagram 1
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	1	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	1	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	1	
10-30 VDC	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	2	Diagram 2
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	2	
10-30 VDC	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	3	Diagram 3
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	3	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	3	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	3	
10-30 VDC	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	4	Diagram 4
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	4	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	4	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	2M/PVC	4	
10-30 VDC	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	1	
10-30 VDC	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PBT	POM	N/A	GN	YE	RK 4T-*	2	
10-30 VDC	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	1	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	1	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	1	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	1	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	1	
10-30 VDC	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	2	
	8	200	-25 to +70	IP 67	PA 12	POM	N/A	N/A	YE	RK 4T-*	2	

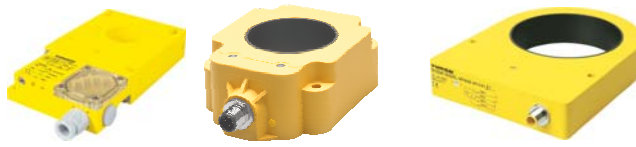
Ring Sensors

Specialty

* Length in meters.

For material descriptions see page M36.

Inductive Ring Sensors



Housing Style	Part Number	ID Number	Minimum Target Diameter	Ring Dia. (mm)	Output
30 mm - Rectangular, Ring Sensor 	Ni20R-S32SR-VP44X	M1440001	≥ 0.4 mm	20	Static 4-Wire DC PNP
	Ni40R-S32SR-VP44X	M1440005	≥ 1 mm	40	
	Ni65R-S32SR-VP44X	M1440008	≥ 12 mm	65	
80 mm - Rectangular, Ring Sensor 	Bi50R-Q80-AP6X2-H1141*	M1407530	≥ 8 mm	50	Static 3-Wire DC PNP
	Bi65R-Q80-AP6X2-H1141*	M1407531	≥ 10 mm	65	
100 mm - Rectangular, Ring Sensor 	Ni100R-S32XL-VP44X-H1141	M1510301	≥ 10mm	100	Static 4-Wire DC PNP

* Unit should not be mounted on metal.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



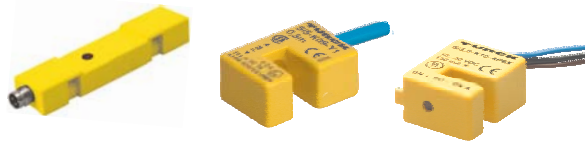
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-55 VDC	8	≤200	-25 to +70	IP 67	ABS	ABS	N/A	N/A	YE	N/A	1	<p>Diagram 1</p> <p>Diagram 2</p>
	8	≤200	-25 to +70	IP 67	ABS	ABS	N/A	N/A	YE	N/A	1	
	8	≤200	-25 to +70	IP 67	ABS	ABS	N/A	N/A	YE	N/A	1	
10-30 VDC	10	≤200	-25 to +70	IP 67	PBT	PA 66	N/A	GN	YE	RK 4T-*	2	
	10	≤200	-25 to +70	IP 67	PBT	PA 66	N/A	GN	YE	RK 4T-*	2	
10-55 VDC	8	≤200	-25 to +70	IP 67	POM	POM	N/A	N/A	YE	RK 4.4T-*	1	

Ring Sensors

Specialty

For material descriptions see page M36.

Inductive Slot Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
Tube Sensing Nonembeddable, picofast Connection 	Ni20U-TS12-AN6X2-V1131	M1625822	Uprox+	20*	Static 3-Wire DC NPN
	Ni20U-TS12-AP6X2-V1131	M1646640	Uprox+	20*	Static 3-Wire DC PNP
9 mm - Slot Sensor, Potted-In Cable 	Si 5-K09-Y1 0.5M	S1024000		5	2-Wire DC NAMUR
10 mm - Slot Sensor, Potted-In Cable 	Si 3.5-K10-AN7	S1719000		3.5	3-Wire DC NPN
	Si 3.5-K10-AP6X	S1650001		3.5	3-Wire DC PNP
	Si 3.5-K10-Y1	S1036500		3.5	2-Wire DC NAMUR

* Length of target should not exceed 20 mm.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



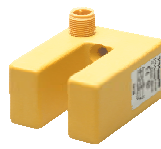
Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	8	≤200	-25 to +70	IP 68	PBT	PBT	GN	YE		PKG 3M-*	1	<p>Diagram 1</p>
10-30 VDC	8	≤200	-25 to +70	IP 68	PBT	PBT	N/A	GN	YE	PKG 3M-*	2	<p>Diagram 2</p>
5-30 VDC	5000	Remote	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	4	<p>Diagram 4</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	PBT	PBT	N/A	YE		2M/PVC	5	<p>Diagram 5</p>
5-30 VDC	3000	Remote	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	3	

Slot Sensors

Specialty

For material descriptions see page M36.

Inductive Slot Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Slot Sensor, eurofast® Connector 	Si15-K30-AN6X-H1141	M1605107		15	3-Wire DC NPN
	Si15-K30-AP6X-H1141	M1605007		15	3-Wire DC PNP
30 mm - Slot Sensor, Potted-In Cable 	Si15-K30-AN6	M1605002		15	3-Wire DC NPN
	Si15-K30-AN6X	M1605003		15	
	Si15-K30-AP6	M1605000		15	3-Wire DC PNP
	Si15-K30-AP6X	M1605001		15	
	Si15-K30-VP6	M1605030	Comp. Outputs	15	4-Wire DC PNP
	Si15-K30-AZ3	M1306900		15	2-Wire AC/DC
Si15-K30-Y1	M1007600		15	2-Wire DC NAMUR	

For detailed sensor specifications see Section M.
 Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cord, Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	YE	RK 4T-*	2	<p>Diagram 2</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	3	<p>Diagram 3</p>
	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	YE	2M/PVC	3	
10-30 VDC	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	4	<p>Diagram 4</p>
	500	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	YE	2M/PVC	4	
10-30 VDC	350	≤200	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	5	<p>Diagram 5</p>
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	7	<p>Diagram 6</p>
5-30 VDC	500	Remote	-25 to +70	IP 67	PBT	PBT	N/A	N/A	N/A	2M/PVC	6	<p>Diagram 7</p>
												<p>Diagram 7</p>

Slot Sensors

Specialty

For material descriptions see page M36.

Inductive FM Approved Sensors



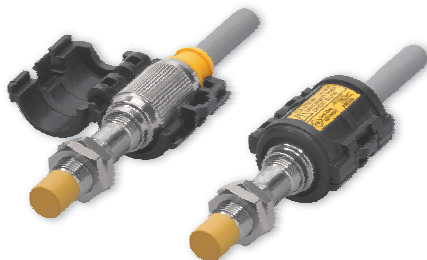
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connector 	Bi 4-M12-AN6X-H1141/S1751	T4607178	FM Approved	4	3-Wire DC NPN
	Bi 4-M12-AP6X-H1141/S1751	T4607075	FM Approved	4	3-Wire DC PNP
18 mm - Embeddable, eurofast® Connector 	Bi 8-M18-AP6X-H1141/S1751	T4615078	FM Approved	8	3-Wire DC PNP
30 mm - Nonembeddable, eurofast® Connector 	Ni20-M30-AP6X-H1141/S1751	T4670579	FM Approved	20	3-Wire DC PNP
30 mm - Embeddable, minifast® Connector 	Bi15-M30-AP6X-B1441/S97/S1751	T4618576	FM Approved	15	3-Wire DC PNP

Required Lokfast guards:

A9625 Lock-mini 10 mm B1141

A9401 Lock-euro G H1141

*Others available upon request.





Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagram
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	P-RKGV-4.43T-1699*	1	<p>Diagram 1</p>
10-30 VDC	2000	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	P-RKGV-4.43T-1699*	2	<p>Diagram 2</p>
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	P-RKGV-4.43T-1699*	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	P-RKGV-4.43T-1699*	2	
10-30 VDC	500	£200	-25 to +70	IP 67	CPB	PA 12	N/A	YE	P-RKV 443-1699-*	2	

FM Approved Sensors

Specialty

Inductive Rotational Speed Monitor



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable Rotational Speed Monitor, Potted-In Cable 	DB1 5U-M18E-AP4X3	M1582236	Rotational Speed	5	3-Wire DC PNP
30 mm - Embeddable Rotational Speed Monitor, Potted-In Cable 	DB110U-M30-AP4X2	M1582231	Rotational Speed Monitor	10	3-Wire DC PNP
18 mm - Nonembeddable Rotational Speed Monitor, Potted-In Cable 	DNI12U-M18E-AP4X3	M1582235	Rotational Speed Monitor	12	3-Wire DC PNP
30 mm - Nonembeddable Rotational Speed Monitor, Potted-In Cable 	DNI20U-M30-AP4X3	M1582233	Rotational Speed Monitor	20	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length /Jacket	Wiring Diagram #	Wiring Diagram
10-65 VDC	0.05-50	≤200	-30 to +85	IP 67	CPB	PBT	PUR	GN	YE/RD	2M/PVC	1	<p>Diagram 1</p>
10-65 VDC	0.05-50	≤200	-30 to +85	IP 67	CPB	PBT	PA 66	N/A	YE/RD	2M/PVC	1	
10-65 VDC	0.05-50	≤200	-30 to +85	IP 67	CPB	PBT	EPTR	GN	YE/BU	2M/PVC	1	
10-65 VDC	0.05-50	≤200	-30 to +85	IP 67	CPB	PBT	EPTR	GN	YE/BU	2M/PVC	1	

Rotational Speed Monitor

Harsh Duty

For material descriptions see page M36.

Inductive Edge Detection Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CA4080 - Embeddable, minifast® Connector 	Bi20-CA4080-ADZ30X2-B1131	T4283400	Metal Edge Det.	•	20	2-Wire AC/DC Short-Circuit Protected
CA4080 - Embeddable, eurofast® Connector 	Bi20-CA4080-VP4X2-H1141	T1625591	Metal Edge Det.	•	20	4-Wire DC PNP
CA40130 - Embeddable, minifast Connector 	Bi20-CA40130-ADZ30X2-B1131	T4283503	Metal Edge Det.	•	20	2-Wire AC/DC Short-Circuit Protected
CA40130 - Embeddable, eurofast Connector 	Bi20-CA40130-VP4X2-H1141	T4283599	Metal Edge Det.	•	20	4-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-300 VDC 20-250 VAC	30/100	≤400/300	-25 to +70	IP 67	TS	SF	GN	YE	RKM 30-*M	1	<p>Diagram 1</p> <p>Diagram 2</p>
10-65 VDC	100	≤400	-25 to +70	IP 67	TS	SF	GN	YE	RK 4.4T-*	2	
10-300 VDC 20-250 VAC	30/100	≤400/300	-25 to +70	IP 67	TS	SF	GN	YE	RKM 30-*M	1	
10-65 VDC	100	≤400	-25 to +70	IP 67	TS	SF	GN	YE	RK 4.4T-*	2	

Edge Detection
Sensors

Specialty

For material descriptions see page M36.

Inductive Edge Detection Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CK4080 - Embeddable, minifast® Connector 	Bi20-CK4080-ADZ30X2-B1131	T4283493	Metal Edge Det.	•	20	2-Wire AC/DC Short-Circuit Protected
CK4080 - Embeddable, eurofast® Connector 	Bi20-CK4080-VP4X2-H1141	T4283491	Metal Edge Det.	•	20	4-Wire DC PNP
CK40130 - Embeddable, minifast Connector 	Bi20-CK40130-ADZ30X2-B1131	T4283589	Metal Edge Det.	•	20	2-Wire AC/DC Short-Circuit Protected
CK40130 - Embeddable, eurofast Connector 	Bi20-CK40130-VP4X2-H1141	T4283591-1	Metal Edge Det.	•	20	4-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-300 VDC 20-250 VAC	30/100	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 30-*M	1	<p>Diagram 1</p> <p>Diagram 2</p>
10-65 VDC	100	≤400	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	2	
10-300 VDC 20-250 VAC	30/100	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RKM 30-*M	1	
10-65 VDC	100	≤400	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 4.4T-*	2	

Edge Detection
Sensors

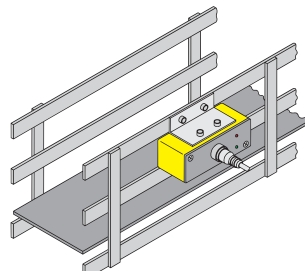
Specialty

For material descriptions see page M36.

Inductive Can Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
	Ni30-Q130-VN4X2	M1517800	Comp. Output		30	4-Wire DC NPN
	Ni30-Q130-VP4X2	M1517900	Comp. Output		30	4-Wire DC PNP
	Ni30-Q130-ADZ30X2	M4209500			30	2-Wire AC/DC
	Ni30-Q130-VN4X2-B2141	M1518000	Comp. Output		30	4-Wire DC NPN
	Ni30-Q130-VP4X2-B2141	M1518001	Comp. Output		30	4-Wire DC PNP
	Ni30-Q130-ADZ30X2-B1131	M4210000			30	2-Wire AC/DC



For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	60	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	1	<p>Diagram 1</p>
10-65 VDC	60	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	2	<p>Diagram 2</p>
10-300 VDC 20-250 VAC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	- - - -	3	<p>Diagram 3</p>
10-65 VDC	60	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 40-*M	4	<p>Diagram 4</p>
10-65 VDC	60	≤200	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 40-*M	5	<p>Diagram 5</p>
10-300 VDC 20-250 VAC	30	≤400/300	-25 to +70	IP 67	PBT	PBT	GN	YE	RK 30-*M	6	<p>Diagram 6</p>

For material descriptions see page M36.

Inductive Nut Sensors



Housing Style - Rectangular	Part Number	ID Number	Nut Diameter	Features	Output
<p>Nut Sensor, 6-12 mm Diameter Nut</p> <p>S* = 9 mm M** = 13 D*** = 4.6</p>	NIMFE-M12/4.6L88-UN6X-H1141	M1600610	6-12 mm		3-Wire DC NPN
	NIMFE-EMT12/4.6L88-UN6X-H1141	M1600618	6-12 mm	PTFE Coated	
	NIMFE-EM12/4.6L88-UN6X-H1141/S1182	M1600617	6-12 mm	Titanium Nitride	
	NIMFE-M12/4.6L88-UP6X-H1141	M1600608	6-12 mm		3-Wire DC PNP
	NIMFE-EMT12/4.6L88-UP6X-H1141	M1600619	6-12 mm	PTFE Coated	
	NIMFE-EM12/4.6L88-UP6X-H1141/S1182	M1600620	6-12 mm	Titanium Nitride	
<p>Nut Sensor, 6-12 mm Diameter Nut</p> <p>S* = 9 mm M** = 13 D*** = 4.9</p>	NIMFE-EM12/4.9L88-UP6X-H1141/S1182	M1600616		Titanium Nitride	3-Wire DC PNP
<p>Nut Sensor, 10-20 mm Diameter Nut</p> <p>S* = 11 mm M** = 14 mm</p>	NIMFE-M12/6.2L101-UN6X-H1141	M1600611	10-20 mm		3-Wire DC NPN
	NIMFE-EMT12/6.2L101-UN6X-H1141	M1600615	10-20 mm	PTFE Coated	
	NIMFE-EM12/6.2L101-UN6X-H1141/S1182	M1600614	10-20 mm	Titanium Nitride	
	NIMFE-M12/6.2L101-UP6X-H1141	M1600609	10-20 mm		3-Wire DC PNP
	NIMFE-EMT12/6.2L101-UP6X-H1141	M1600613	10-20 mm	PTFE Coated	
	NIMFE-EM12/6.2L101-UP6X-H1141/S1182	M1600612	10-20 mm	Titanium Nitride	

Note:

- * Sensitive area: Within this area the sensor signal changes when assembly parts are changed.
- ** Maximum area: The maximum signal intensity is reached if the sensitive area is completely covered.
- *** Probe diameter.

Optional teach adapter available, part number: VB2-SP1.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	N/A	≤200	-25 to +70	IP 67	CPB	GN	YE	RK 4.4T-*	1	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; background-color: #e0e0e0; margin: 0;">Diagram 1</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; background-color: #e0e0e0; margin: 0;">Diagram 2</p> </div>
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	1	
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	1	
10-30 VDC	N/A	≤200	-25 to +70	IP 67	CPB	GN	YE	RK 4.4T-*	2	
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	2	
	N/A	N/A	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	2	
10-30 VDC	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	2	
10-30 VDC	N/A	≤200	-25 to +70	IP 67	CPB	GN	YE	RK 4.4T-*	1	
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	1	
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	1	
10-30 VDC	N/A	≤200	-25 to +70	IP 67	CPB	GN	YE	RK 4.4T-*	2	
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	2	
	N/A	≤200	-25 to +70	IP 67	SS	GN	YE	RK 4.4T-*	2	

Nut Sensors

Specialty

For material descriptions see page M36.

Inductive Magnetic Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
8 mm - Barrel, picofast® Connector 	BIM-EG08-AN6X-V1131	S4621303	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	3-Wire DC NPN
	BIM-EG08-AP6X-V1131	S4621314	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	3-Wire DC PNP
8 mm - Barrel, eurofast® Connector 	BIM-EG08-AN6X-H1341	S4621301	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	3-Wire DC NPN
	BIM-EG08-AP6X-H1341	S4621311	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	3-Wire DC PNP
	BIM-EG08-Y1X-H1341	S1074001	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	2-Wire DC NAMUR
8 mm - Barrel, Potted-In Cable 	BIM-EG08-AN6X	S4621300	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	3-Wire DC NPN
	BIM-EG08-AP6X	S4621310	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	3-Wire DC PNP
	BIM-EG08-Y1X	S1074000	Up to 78 mm Range w/DMR31-15-5 magnet	7.5 Typical	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord/Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	4	Diagram 1
10-30 VDC	1000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	PKG 3Z-*	5	Diagram 2
10-30 VDC	1000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	6	Diagram 3
10-30 VDC	1000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4T-*	7	Diagram 4
5-30 VDC	1000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	RK 4.21T-*	8	Diagram 5
10-30 VDC	1000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	2M/PUR	1	Diagram 6
10-30 VDC	1000	≤150	-25 to +70	IP 67	SS	PA 12	N/A	YE	2M/PUR	2	Diagram 7
5-30 VDC	1000	Remote	-25 to +70	IP 67	SS	PA 12	N/A	YE	2M/PUR	3	Diagram 8

Magnetic Sensors

Specialty

* Length in meters.

For material descriptions see page M36.

Inductive Magnetic Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
12 mm - eurofast® Connector 	BIM-M12E-AG4X-H1144	M1579910	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	2-Wire DC
	BIM-M12E-AN4X-H1141	M1579914	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	3-Wire DC NPN
	BIM-EM12E-AP4X-H1141	M1579915	Up to 90 mm Range	5 Typical	3-Wire DC PNP
	BIM-M12E-AP4X-H1141	M1579913	Up to 90 mm Range	5 Typical	
	BIM-EM18M-AP4X-H1141	M1579933	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	
	BIM-M12E-Y1X-H1141	M1074003	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	2-Wire DC NAMUR
12 mm - Potted-In Cable 	BIM-M12E-AG4X	M4430200	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	2-Wire DC
	BIM-EM12E-AN4X	M1579922	Up to 90 mm Range	5 Typical	3-Wire DC NPN
	BIM-M12E-AN4X	M1579912	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	
	BIM-EM12E-AP4X	M1579918	Up to 90 mm Range	5 Typical	3-Wire DC PNP
	BIM-M12E-AP4X/S90	M1579911	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	
	BIM-EM12E-Y1X	M1070036	Up to 90 mm Range	5 Typical	2-Wire DC NAMUR
	BIM-M12E-Y1X	M1074002	Up to 90 mm Range w/DMR31-15-5 magnet	5 Typical	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord/ Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	300	≤200	-25 to +70	IP 67	CPB	POM	N/A	YE	RK 4.23T-	8	Diagram 1
	1000	≤200	-25 to +70	IP 67	CPB	POM	N/A	YE	RK 4T-*	1	Diagram 2
10-65 VDC	1000	≤200	-25 to +70	IP 67	SS	POM	N/A	YE	RK 4T-*	2	Diagram 3
	1000	≤200	-25 to +70	IP 67	CPB	POM	N/A	YE	RK 4T-*	2	
	1000	≤200	-25 to +70	IP 67	CPB	POM	N/A	YE	RK 4T-*	2	
5-30 VDC	1000	Remote	-25 to +70	IP 67	CPB	POM	N/A	YE	RK 4.21T-*	3	Diagram 4
10-65 VDC	1000	≤100	-25 to +70	IP 67	CPB	POM	N/A	YE	2M/PUR	4	Diagram 5
10-65 VDC	1000	≤200	-25 to +70	IP 67	SS	POM	N/A	YE	2M/PVC	5	Diagram 6
	1000	≤200	-25 to +70	IP 67	CPB	POM	N/A	YE	2M/PUR	5	
10-65 VDC	1000	≤200	-25 to +70	IP 67	SS	POM	N/A	YE	2M/PVC	6	Diagram 7
	1000	≤200	-25 to +70	IP 67	CPB	POM	N/A	YE	2M/PUR	6	
5-30 VDC	1000	Remote	-25 to +70	IP 67	SS	POM	N/A	YE	2M/PUR	7	Diagram 8
	1000	Remote	-25 to +70	IP 67	CPB	POM	N/A	YE	2M/PUR	7	

Magnetic Sensors

Specialty

* Length in meters.

For material descriptions see page M36.

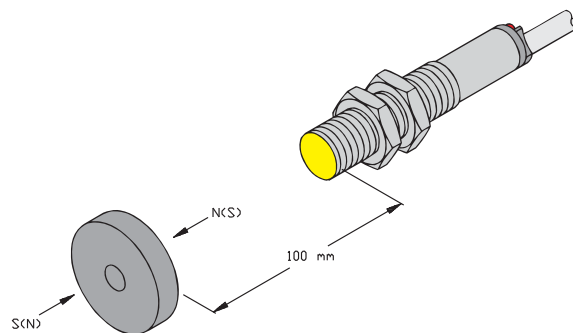
Inductive Magnetic Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
18 mm - eurofast® Connector 	BIM-EM18M-AP4X-H1141	M1579933	Up to 88 mm Sen. Range w/DMR31-15-5 magnet	20	3-Wire DC PNP

M12 and EG08 Barrel Housing

When using magnet part number DMR31-15-5, sensing ranges up to 90 mm with BIM-M12 and 78 mm with BIM-EG08 can be achieved. See Accessories section for magnet part numbers.



For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤200	-25 to +70	IP 67	SS	POM	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>

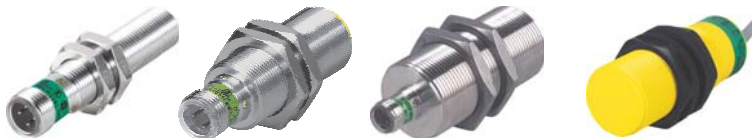
* Length in meters.

Magnetic Sensors

Specialty

For material descriptions see page M36.

Inductive Nonferrous/Ferrous Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Quick Disconnect 	Bi 3NF-EM12HE-AN6X2-H1141	M1615003	Non-Ferrous	3	3-Wire DC NPN
	Bi 3NF-EM12HE-AP6X2-H1141	M1615001	Non-Ferrous	3	3-Wire DC PNP
18 mm - Embeddable, eurofast® Quick Disconnect 	Bi 5NF-EM18HE-AN6X2-H1141	M1615004	Nonferrous	5	3-Wire DC NPN
	Bi 5NF-EM18HE-AP6X2-H1141	M1615000	Nonferrous	5	3-Wire DC PNP
30 mm - Embeddable, eurofast® Quick Disconnect 	Bi 10NF-EM30HE-AN6X2-H1141	M1615005	Stoneface	10	3-Wire DC NPN
	Bi 10NF-EM30HE-AP6X2-H1141	M1615002	Stoneface	10	3-Wire DC PNP
30 mm - Embeddable, Potted-In Cable 	Bi 10NF-M30-AN6X	M1616100	Nonferrous	10	3-Wire DC NPN
	Bi 10NF-M30-AP6X	M1606100	Nonferrous	10	3-Wire DC PNP
30 mm - Embeddable, Potted-In Cable, Partial Threading 	Bi 10NF-S30-AN6X	M1621500	Nonferrous	10	3-Wire DC NPN
	Bi 10NF-S30-AP6X	M1611500	Nonferrous	10	3-Wire DC PNP

For detailed sensor specifications see Section M.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset, Cable Length/ Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤200	0 to +60	IP 67	SS	SF	GN	YE	RKV 4T-*	1	<p>Diagram 1</p>
10-30 VDC	3000	≤200	0 to +60	IP 67	SS	PA 12	GN	YE	RKV 4T-*	2	<p>Diagram 2</p>
10-30 VDC	2500	≤200	0 to +60	IP 67	SS	SF	GN	YE	RKV 4T-*	1	<p>Diagram 3</p>
10-30 VDC	2500	≤200	0 to +60	IP 67	SF	PA 12	GN	YE	RKV 4T-*	2	<p>Diagram 3</p>
10-30 VDC	2000	≤200	0 to +60	IP 67	SS	SF	GN	YE	RKV 4T-*	1	<p>Diagram 4</p>
10-30 VDC	2000	≤200	0 to +60	IP 67	SS	SF	GN	YE	RKV 4T-*	2	<p>Diagram 4</p>
10-30 VDC	500	≤200	0 to +60	IP 67	CPB	PA 12	N/A	YE	2M/PVC	3	<p>Diagram 3</p>
10-30 VDC	500	≤200	0 to +60	IP 67	CPB	PA 12	N/A	YE	2M/PVC	4	<p>Diagram 4</p>
10-30 VDC	2000	≤200	0 to +60	IP 67	CPB	PA 12	N/A	YE	PVC	3	<p>Diagram 3</p>
10-30 VDC	2000	≤200	0 to +60	IP 67	CPB	PA 12	N/A	YE	PVC	4	<p>Diagram 4</p>

* Length in meters.

For material descriptions see page M36.

Nonferrous/Ferrous Sensors

Specialty

Inductive Nonferrous/Ferrous Sensors



Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CP40 - Nonembeddable, Terminal Chamber 	Ni20NF-CP40-VN4X2	M1528200	Nonferrous		20	4-Wire DC NPN
	Ni20NF-CP40-VP4X2	M1508200	Nonferrous		20	4-Wire DC PNP
Q20 - Nonembeddable 	Ni25NF-Q20-AN6X2-H1141	M1602710	Nonferrous		25	3-Wire DC NPN
12 mm - Embeddable, eurofast® Quick Disconnect 	Bi 2.5FE-EM12FE-AP6X-H1141	M1615011	Ferrous Only	•	2.5	3-Wire DC PNP
18 mm - Embeddable, eurofast Quick Disconnect 	Bi5FE-M18FE-AP6X-H1141	M1615009	Ferrous Only	•	5	3-Wire DC PNP

For detailed sensor specifications see Section M.



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	0 to +60	IP 67	PBT	PBT	GN	YE	- - - -	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>
10-65 VDC	100	≤200	0 to +60	IP 67	PBT	PBT	GN	YE	- - - -	2	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>
10-30 VDC	25	≤200	0 to +60	IP 67	PBT	PBT	GN	YE	RK 4T-*	3	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>
10-30 VDC	1000	≤100	-25 to +70	IP 67	SS	SS	N/A	YE	RK 4T-*	4	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>
10-30 VDC	250	≤200	0 to +60	IP 67	CuZn	SS	N/A	YE	RK 4T-*	4	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p>

For material descriptions see page M36.

Inductive - analog+ Sensors

Analog Sensor Selection Guide



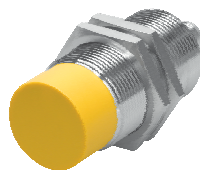
Embeddable/Nonembeddable Rectangular

Housing	8 mm	14 mm	20 mm
Sensing Range	7 mm	10 mm	15 mm
Pages	F7	F7	F9



Embeddable/Nonembeddable Barrels

Housing	4 mm	5 mm	6.5 mm	8 mm
Sensing Range	1.5 mm	1.5 mm	1.5 mm	1.5 mm
Pages	F13	F13	F13	F13



Embeddable/Nonembeddable Barrels / Ring and Probe Style Analog

Housing	18 mm	30 mm	14 mm	18 mm
Sensing Range	5 - 10 mm	10 - 15 mm	20 mm	40 - 70 mm
Pages	F19	F21	F23	F23

Analog Sensor Selection Guide



Embeddable/Nonembeddable Rectangular

Housing	40 mm	40 mm	80 mm
Sensing Range	15 - 25 mm	15 - 25 mm	50 mm
Pages	F11	F11	F11



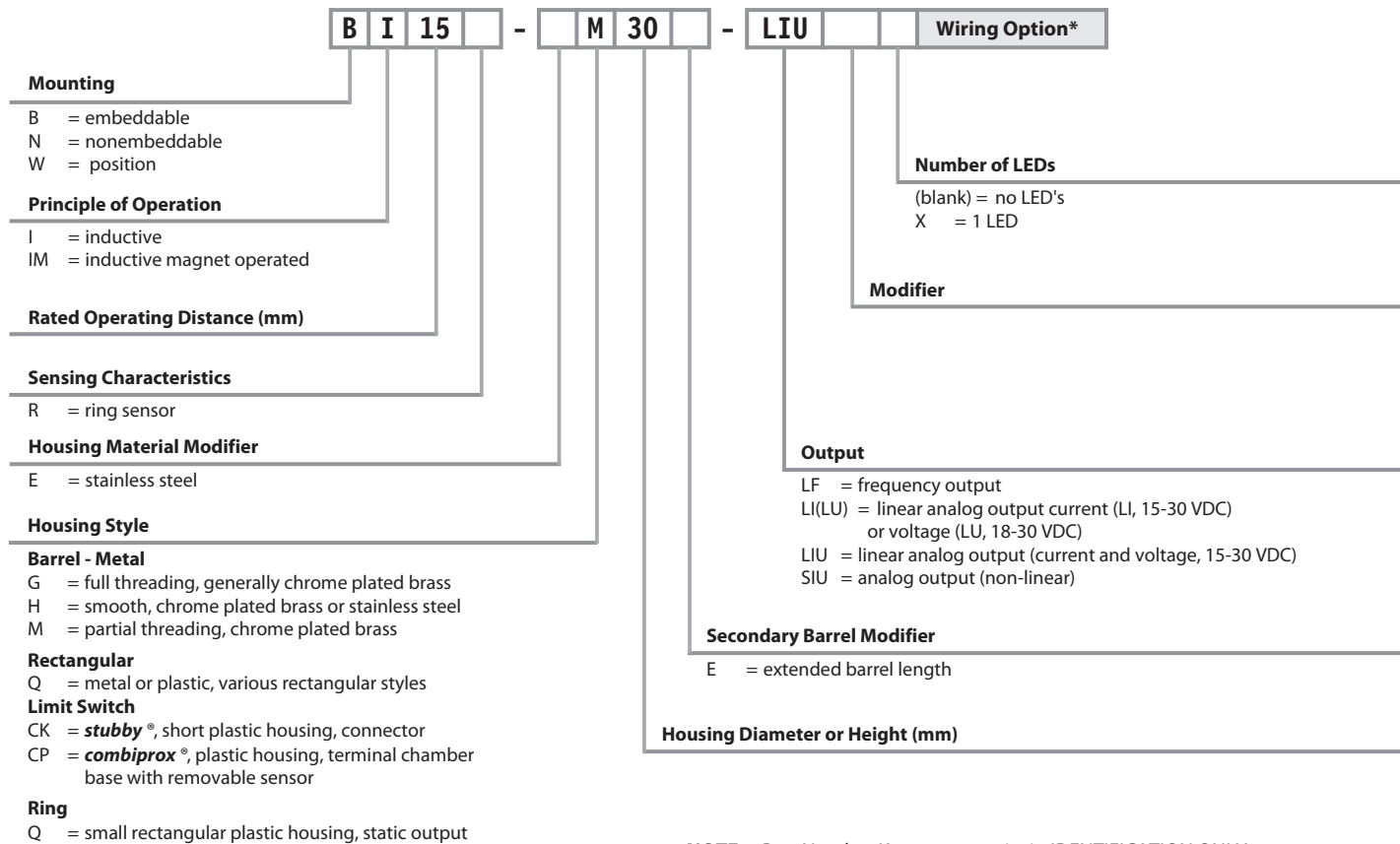
Embeddable/Nonembeddable Barrels

Housing	12 mm	18 mm	30 mm	12 mm
Sensing Range	2 - 5 mm	5 - 10 mm	10 - 15 mm	2 - 5 mm
Pages	F15	F15	F17	F19

Analog

Inductive - analog+ Sensors

Analog Sensor Part Number Key



NOTE: Part Number Keys are to assist in IDENTIFICATION ONLY. Verify New Part Numbers with Factory; Some Configurations Are Not Possible.

* See below for Wiring Options

Wiring Options

A) Connectorized Sensor

BI15-M30-LIU-H1141

Connector Family

H1 = *eurofast*®, Metal or Plastic, Male
 V1 = *picofast*®, Metal, Male

Factory Code

Example:
 1 = Standard

Connector / Sensor Transition

1 = Straight

Number of Pins

B) Potted Cable

Bi 5-M18-LIU-7M

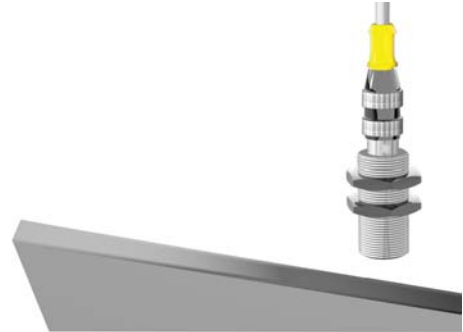
Cable Length

Blank = 2 Meter cable
 7M = 7 Meter cable

Common Applications for Linear Analog Sensors

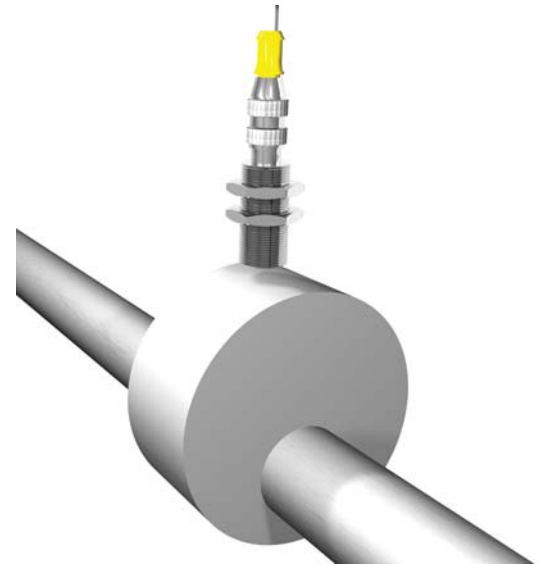
Position Feeding Over an Angled Target

- **Actuation Over an Angled Surface**
Provide a 4-20 mA and/or 0-10 V output based upon target position.



Eccentricity Sensing or Absolute Angle Positioning

- **Sense Pieces of Different Shape and Size (of ferritic or nonferritic materials)**
Provide analog feedback on rotary cam position applications.



Analog

Direct Actuation

- **Direct Actuation**
The highest accuracy is achieved if the sensor is directly actuated by the target. In order to utilize the full measuring range, it is important to work with an appropriately sized target. This may also be a moving part of the machine.

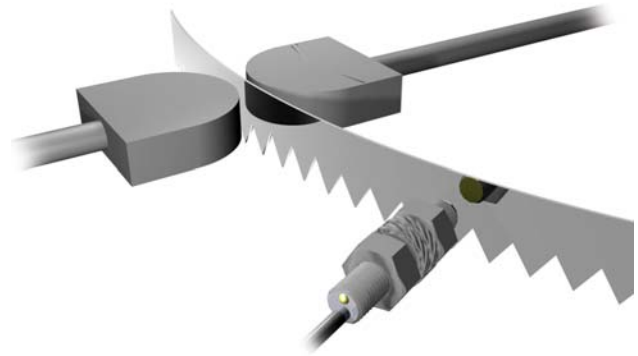


Common Applications for Linear Analog Sensors

Part Deflection

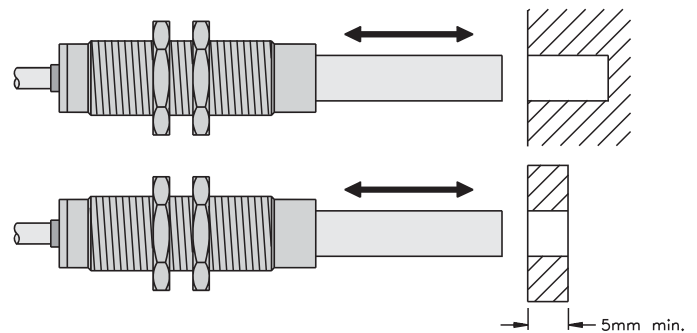
- **Tensile Stress Control Applications**

Measure the deflection of a metal target by using a guide mechanism and an analog sensor.



- **Probe Style Analog+ Proximity Sensor**

These sensors can be used to detect the depth of a blind hole or be used with a ring attached to a control arm that moves the ring over the probe.



Identification and Sorting of Small Parts

- **Identification of Small Parts**

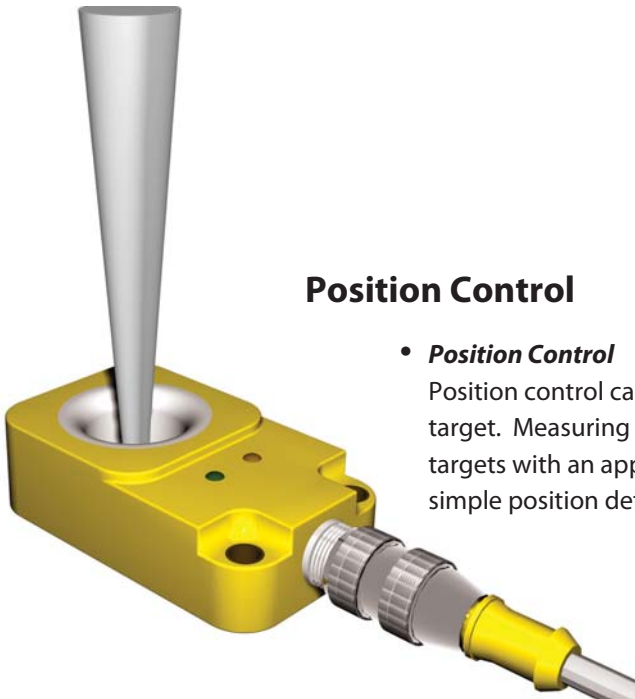
When parts fall through a ring style sensor; screws, rivets, or other small parts of different size generate a characteristic output signal so that the target can be easily identified.



Position Control

- **Position Control**

Position control can be easily accomplished by means of a cone shaped target. Measuring ranges can be adapted to specific sensing needs by using targets with an appropriate conical shape. These sensors enable precise and simple position detection, even if the targets feature a slight offset.

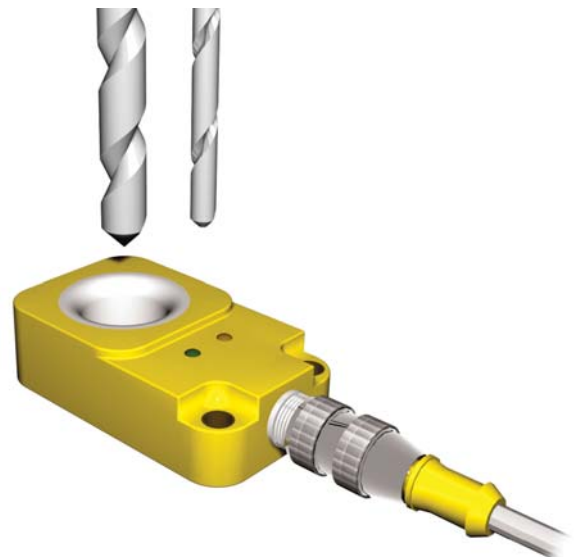


Analog

Thickness Measurement

- **Thickness Measurement**

Detection and measurement of tools (drill bits, taps, etc.) can be accomplished to ensure proper size.



Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
8 mm - Embeddable, Potted-In Cable 	Bi 7-Q08-LIU	S1534605		1-4	200	4-Wire DC Current and Voltage
14 mm - Embeddable, picofast® Quick Disconnect 	Bi10-Q14-LIU-V1141	M1534603		3-8	140	4-Wire DC Current and Voltage
14 mm - Embeddable, Potted-In Cable 	Bi10-Q14-LIU	M1534602		3-8	140	4-Wire DC Current and Voltage

For detailed sensor specifications see Section M.



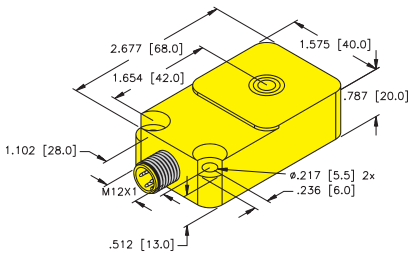
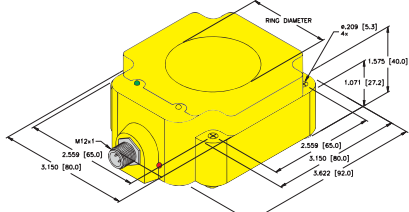
Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms; mA/ms	Housing	Face	Mating Cord; Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	Zinc	PA 12	2M/PUR	1	<p>Diagram 1</p> <p>Diagram 2</p>
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.8, 5.6	PBT	PBT	PKG 4M-*	2	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.8, 5.6	PBT	PBT	2M/PUR	1	

* Length in meters.

For material descriptions see page M36.

Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
20 mm - Embeddable, eurofast® Quick Disconnect 	Bi15-Q20-LIU-H1141	M1534601		4-11	110	4-Wire DC Current and Voltage
	Bi15-Q20-2LU-H1141/S950	M1534611	Material Detection	4-11	110	4-Wire DC Voltage
80 mm - Embeddable, eurofast Quick Disconnect 	Bi50R-Q80-2LU-H1141/S950	M1534609	Material Detection	N/A	80	4-Wire DC Voltage

For detailed sensor specifications see Section M.



Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.2, 4.4	PBT	PBT	RK 4.4T-*	1	<p>Diagram 1</p>
15-30 VDC	0-10 VDC Amplitude 0-10 VDC Phase	-25 to +70	IP 67	2.2	PBT	PBT	RK 4.4T	2	<p>Diagram 2</p>
15-30 VDC	0-10 VDC Amplitude 1-10 VDC Phase	-25 to +70	IP 67	1.6	PBT	PBT	RK 4.4T	2	

* Length in meters.

For material descriptions see page M36.

Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
40 mm - Embeddable and Non-embeddable, eurofast® Quick Disconnect 	Bi 15-CK40-LIU-H1141	M1537890	4-11	110	4-Wire DC Current and Voltage
	Ni25-CK40-LIU-H1141	M1537891	5-25	30	
	Ni25-CK40-LIU2-H1141	M1537892	5-25	30	4-Wire DC Current and Voltage
40 mm - Embeddable and Nonembeddable, Terminal Chamber 	Bi 15-CP40-LIU	M1535700	4-11	110	4-Wire DC Current and Voltage
	Ni25-CP40-LIU	M1535547	5-25	30	
80 mm - Nonembeddable, eurofast Connector 	Ni50-Q80-LIU-H1141	M1535545	10-50	30	4-Wire DC Current and Voltage

For detailed sensor specifications see Section M.



Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.2, 4.4	PBT	PBT	RK 4.4T-*	1	<p>Diagram 1</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	0.6, 1.2	PBT	PBT	RK 4.4T-*	1	
15-30 VDC	2-10 V/4-20 mA	-10 to +70	IP 67	0.6, 0.96	PBT	PA 66	RK 4.4T-*	1	<p>Diagram 2</p>
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.2, 4.4	PBT	PBT	- - - -	2	<p>Diagram 2</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	0.6, 1.2	PBT	PBT	- - - -	2	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	0.6, 1.2	PBT	PBT	RK 4.4T-*	1	

* Length in meters.

For material descriptions see page M36.

Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
4 mm - Embeddable eurofast® connection 	Bi 1.5-EH04-0.3M-M12-SIU-H1141*	M1533001		0.1-1.5	200	4-Wire DC Current and Voltage
5 mm - Embeddable eurofast connection 	Bi 1.5-EG05-0.3M-M12-SIU-H1141*	M1533005		0.1-1.5	200	4-Wire DC Current and Voltage
6.5 mm - Embeddable, Potted-In Cable 	Bi 1.5-EH6.5-LU	S1533002		0.25-1.25	200	3-Wire DC Voltage
8 mm - Embeddable, Potted-In Cable 	Bi 1.5-EG08-LU	S1533003		0.25-1.25	200	3-Wire DC Voltage
8 mm - Embeddable, eurofast Quick Disconnect 	Bi 1.5-EG08-LU-H1341	S1533004		0.25-1.25	200	3-Wire DC Voltage

* SIU indicates non-linear measuring range.

For detailed sensor specifications see Section M.



Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	SS	PA 12	RK 4.4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	SS	PA 12	RK 4.4T-*	1	<p>Diagram 2</p> <p>Diagram 3</p>
15-30 VDC	0-10 V	-10 to +70	IP 67	4, N/A	SS	PA 12	2M/PUR	2	
15-30 VDC	0-10 V	-10 to +70	IP 67	4, N/A	SS	PA 12	2M/PUR	2	
15-30 VDC	0-10 V	-10 to +70	IP 67	4, N/A	SS	PA 12	RK 4T-*	3	

Analogue

For material descriptions see page M36.

Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
12 mm - Embeddable eurofast® Connection 	Bi 2-M12-LIU-H1141	M1535533		1-2.5	200	4-Wire DC Current and Voltage
	Bi 4-M12-LIU-H1141	M1535531	<i>Ext. Range</i>	0.5-3	200	
12 mm - Nonembeddable eurofast Connection 	Ni 5-M12-LIU-H1141	M1535535		0.5-4	100	4-Wire DC Current and Voltage
18 mm - Embeddable eurofast Connection 	Bi 5-M18E-LIU-H1141	M1536205		2-4	200	4-Wire DC Current and Voltage
	Bi 8-M18E-LIU-H1141	M1535561	<i>Ext. Range</i>	1-5	200	
	Bi 5-M18E-LI2-H1141	M1536204		2-4	200	3-Wire DC Current
18 mm - Nonembeddable eurofast Connection 	Ni 8-M18E-LIU-H1141	M1536302		1-5	100	4-Wire DC Current and Voltage
	Ni10-M18E-LIU-H1141	M1535562	<i>Ext. Range</i>	1-7	100	

For detailed sensor specifications see Section M.

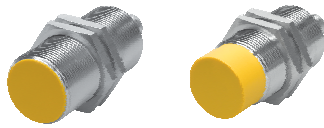


Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	RK 4.4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	RK 4.4T-*	1	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2, 4	CPB	PA 12	RK 4.4T-*	1	<p>Diagram 2</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	RK 4.4T-*	1	
15-30 VDC	4-20 mA	-10 to +70	IP 67	N/A, 6,4	CPB	PA 12	RK 4T-*	2	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2, 4	CPB	PA 12	RK 4.4T-*	1	
	0-10 V/0-20 mA	-10 to +70	IP 67	2, 4	CPB	PA 12	RK 4.4T-*	1	

Analogue

For material descriptions see page M36.

Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
30 mm - Embeddable, eurofast® Connection 	Bi10-M30E-LIU-H1141	M1537003		3-8	140	4-Wire DC Current and Voltage
	Bi15-M30E-LIU-H1141	M1535563	<i>Ext. Range</i>	2-10	140	
	Bi10-M30E-LI2-H1141	M1537002			3-8	140
30 mm - Nonembeddable, eurofast Connection 	Ni15-M30E-LIU-H1141	M1535564		2-12	60	4-Wire DC Current and Voltage

For detailed sensor specifications see Section M.



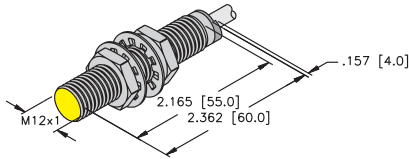
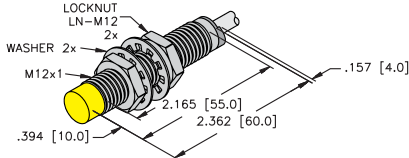
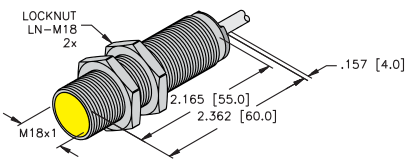
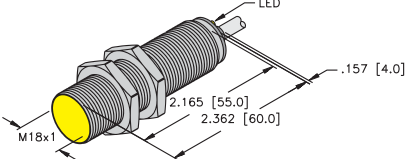
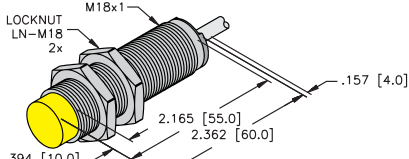
Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.8, 5.6	CPB	PA 12	RK 4.4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	2.8, 5.6	CPB	PA 12	RK 4.4T-*	1	
15-30 VDC	4-20 mA	-10 to +70	IP 67	N/A, 4.48	CPB	PA 12	RK 4T-*	2	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	1.2, 2.4	CPB	PA 12	RK 4.4T-*	1	

* Length in meters.

For material descriptions see page M36.

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Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
12 mm - Embeddable, Potted-In Cable 	Bi 2-M12-LIU	M1535534		1-2.5	200	4-Wire DC Current and Voltage
	Bi 4-M12-LIU	M1535532	<i>Ext. Range</i>	0.5-3	200	
12 mm - Nonembeddable, Potted-In Cable 	Ni 5-M12-LIU	M1535536		0.5-4	100	4-Wire DC Current and Voltage
18 mm - Embeddable, Potted-In Cable 	Bi 5-M18-LIU	M1536000		2-4	200	4-Wire DC Current and Voltage
	Bi 8-M18-LIU	M1535538	<i>Ext. Range</i>	1-5	200	2-Wire DC 4-20 mA Current
	Bi 8-M18-LI-EXI	M1535528	<i>Ext. Range</i> Use Barriers IM33-11EX-HI IM43-13-SR	1-5	200	
18 mm - Embeddable, Potted-In Cable 	Bi 8-M18-LUAP6X	M4615010	<i>Switch Point Adj.</i>	1-5	200	4-Wire DC Voltage
18 mm - Nonembeddable, Potted-In Cable 	Ni 8-M18-LIU	M1536100	<i>Ext. Range</i>	1-5	100	4-Wire DC Current and Voltage
	Ni10-M18-LIU	M1535540	<i>Ext. Range</i>	1-7	100	

For detailed sensor specifications see Section M.



Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	2M/PVC	1	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2, 4	CPB	PA 12	2M/PVC	1	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	2M/PVC	1	
	0-10 V/0-20 mA	-10 to +70	IP 67	4, 8	CPB	PA 12	2M/PVC	1	
14-30 VDC	4-20 mA	-10 to +70	IP 67	N/A, 8	CPB	PA 12	2M/PVC	3	
15-30 VDC	0-10 V	-10 to +70	IP 67	N/A, 8	CPB	PA 12	2M/PVC	2	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2, 4	CPB	PA 12	2M/PVC	1	
	0-10 V/0-20 mA	-10 to +70	IP 67	2, 4	CPB	PA 12	2M/PVC	1	

Analogue

For material descriptions see page M36.

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Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
30 mm - Embeddable, Potted-In Cable 	Bi10-M30-LIU	M1535500		3-8	140	4-Wire DC Current and Voltage
	Bi15-M30-LIU	M1535543	Ext. Range	2-10	140	
	Bi15-M30-LI-EXI	M1535554	Ext. Range Use Barriers IM33-11EX-HI IM43-13-SR	2-10	140	2-Wire DC NAMUR Current
30 mm - Embeddable, Potted-In Cable 	Bi15-M30-LUAP6X	M4618510	Switch Point Adj.	2-10	140	4-Wire DC Voltage
30 mm - Nonembeddable, Potted-In Cable 	Ni15-M30-LIU	M1535300	Ext. Range	2-12	60	4-Wire DC Current and Voltage

For detailed sensor specifications see Section M.



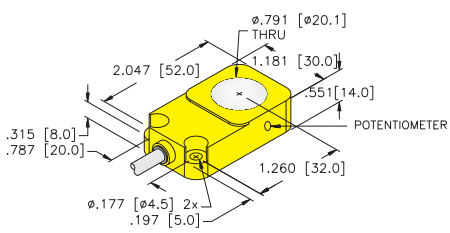
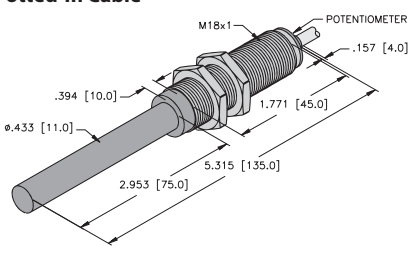
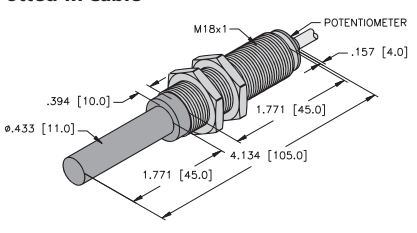
Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cord, Cable Length/Mat.	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	2.8, 5.6	CPB	PA 12	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
	0-10 V/0-20 mA	-10 to +70	IP 67	2.8, 5.6	CPB	PA 12	2M/PVC	1	
14-30 VDC	4-20 mA	-10 to +70	IP 67	N/A, 4.48	CPB	PA 12	2M/PVC	3	
15-30 VDC	0-10 V	-10 to +70	IP 67	2.8, N/A	CPB	PA 12	2M/PVC	2	
15-30 VDC	0-10 V/0-20 mA	-10 to +70	IP 67	1.2, 2.4	CPB	PA 12	2M/PVC	1	

Analogue

For material descriptions see page M36.

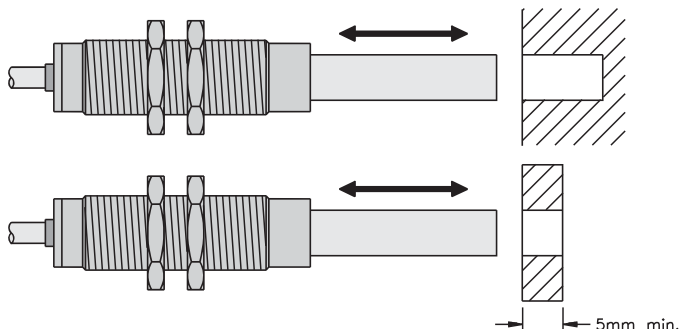
Inductive - analog+ Sensors



Housing Style	Part Number	ID Number	Features	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
14 mm - Embeddable, Ring Sensor, Potted-In Cable 	Bi20R-Q14-LU	M1535546		1-19	80	3-Wire DC Voltage
18 mm - Embeddable, Probe Style, Potted-In Cable 	Wi70-M18-LIU5	M1536600		0-70	200	4-Wire DC Current and Voltage
18 mm - Embeddable, Probe Style, Potted-In Cable 	Wi40-M18-LIU5	M1536603		0-40	40	4-Wire DC Current and Voltage

- Probe Style Analog+ Proximity Sensor**

These sensors can be used to detect the depth of a blind hole or be used with a ring attached to a control arm that moves the ring over the probe.



For detailed sensor specifications see Section M.

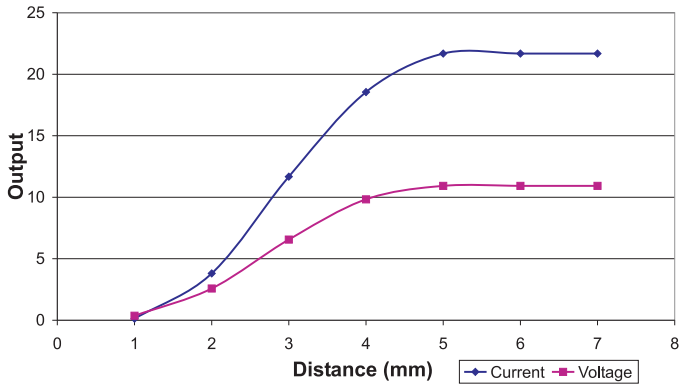


Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms, mA/ms	Housing	Face	Mating Cordset	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V	-25 to +70	IP 67	2.8, N/A	PBT	PBT	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p>
15-30 VDC	0-10 V/4-20 mA	-10 to +70	IP 67	4, 6.4	CPB	PA 12	2M/PVC	2	
15-30 VDC	0-10 V/4-20 mA	-10 to +70	IP 67	0.8, 1.2	CPB	PA 12	2M/PVC	2	

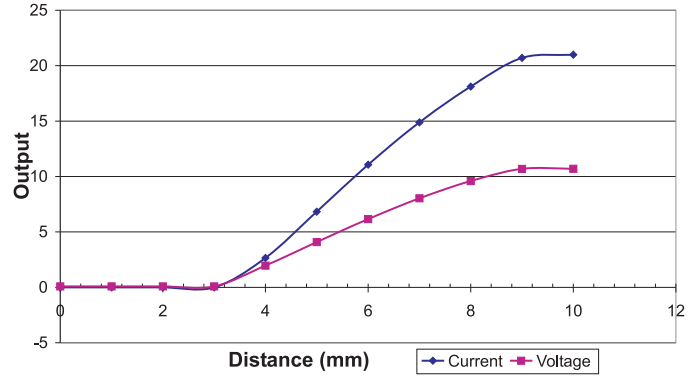
For material descriptions see page M36.

Inductive - analog+ Sensors

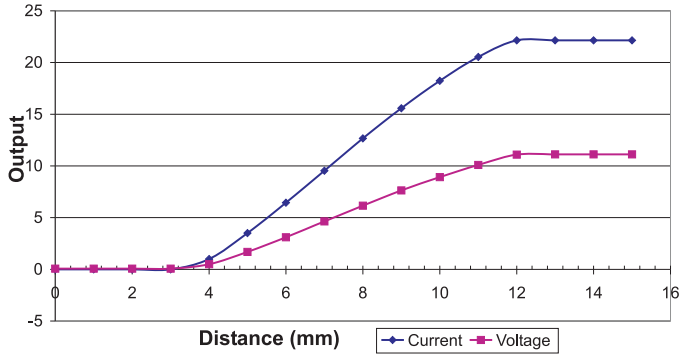
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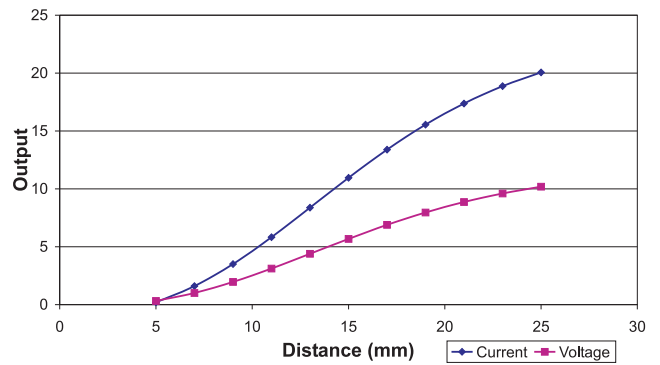
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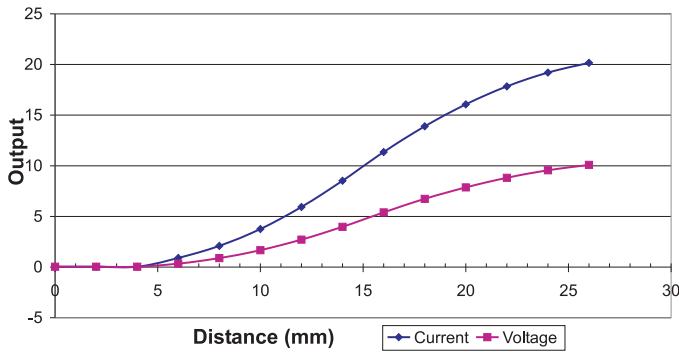
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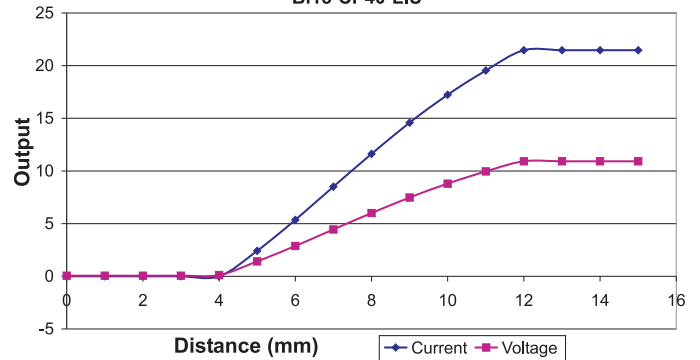
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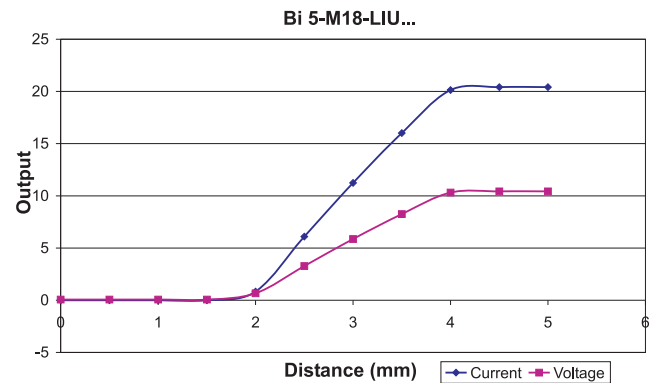
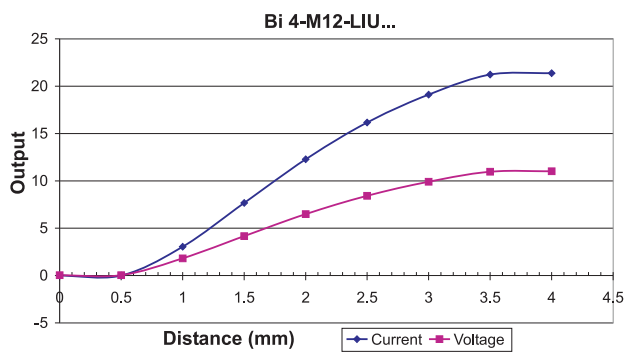
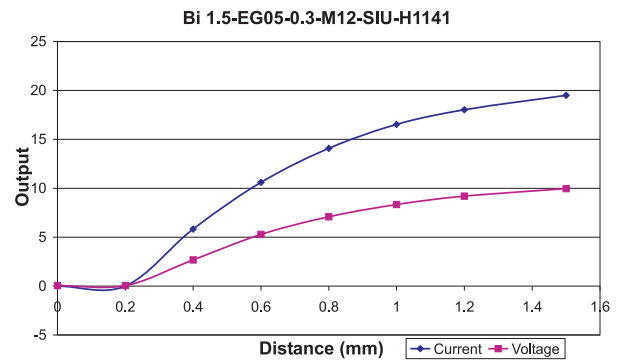
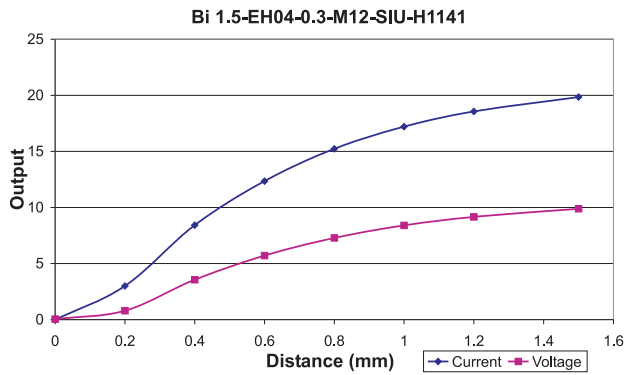
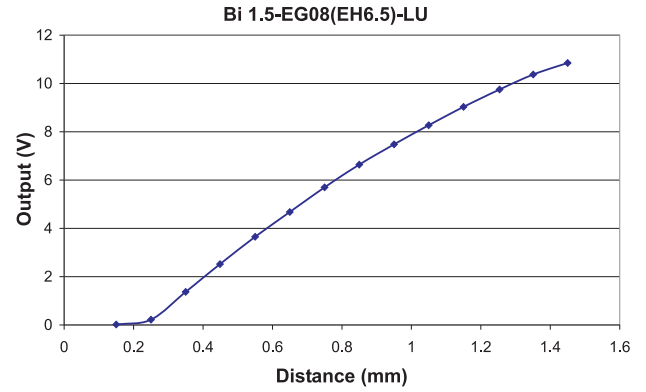
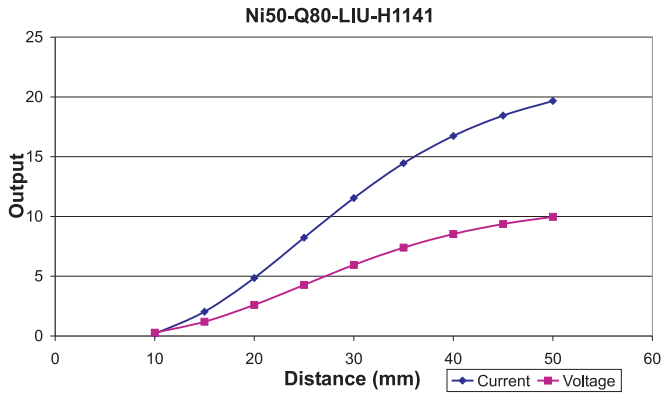
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Bi15-CP40-LIU



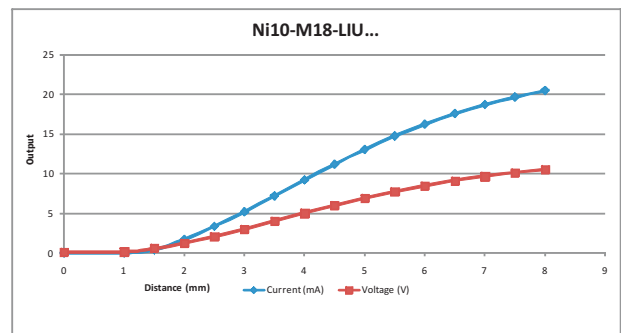
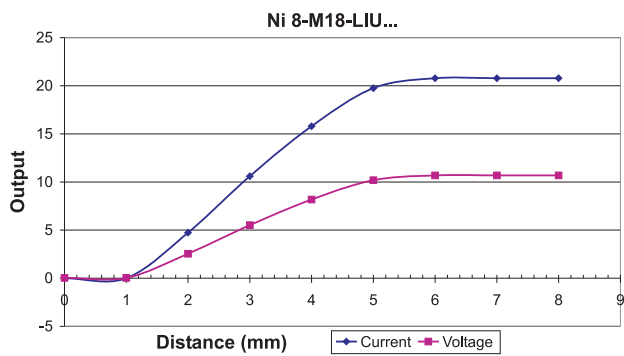
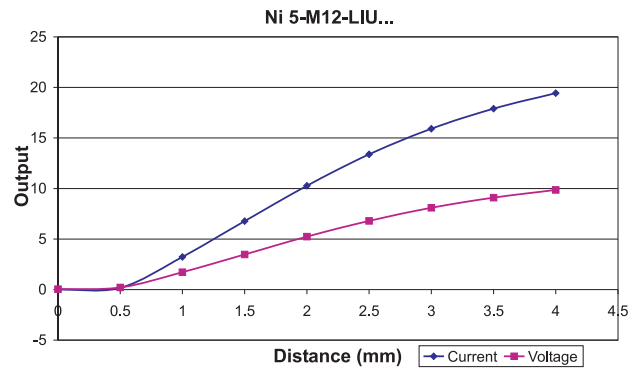
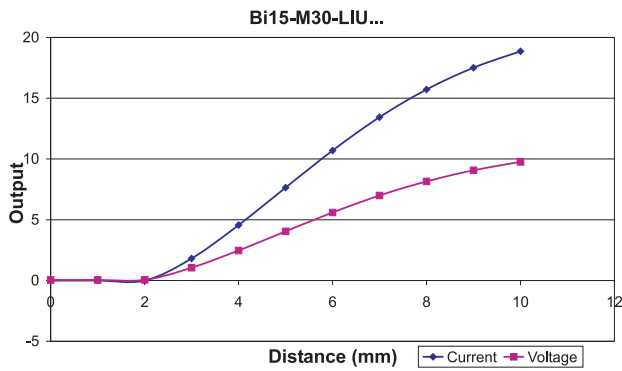
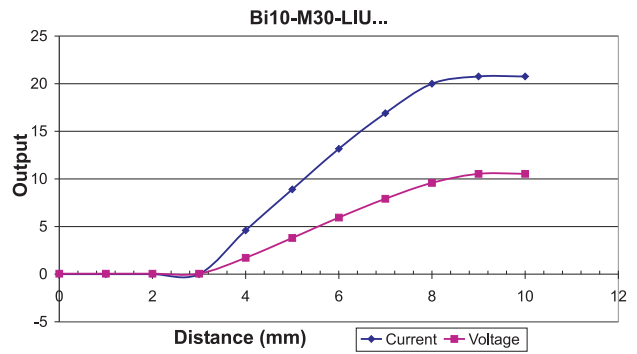
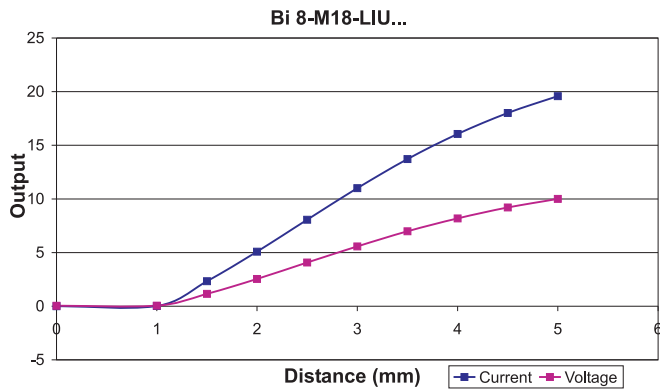
For detailed sensor specifications see Section M.



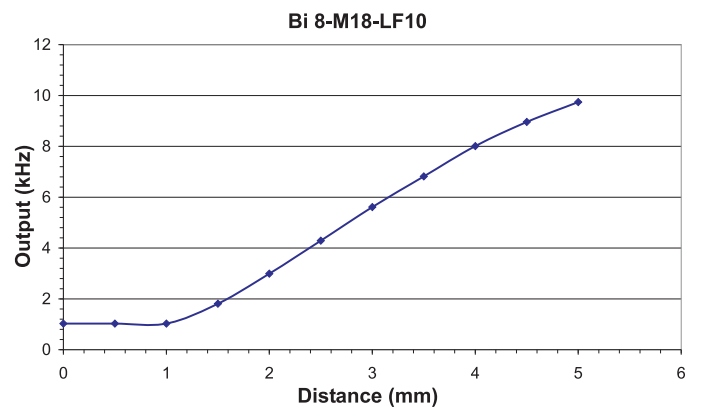
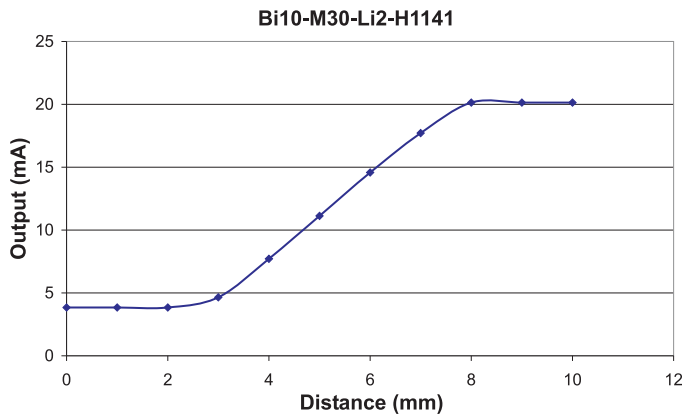
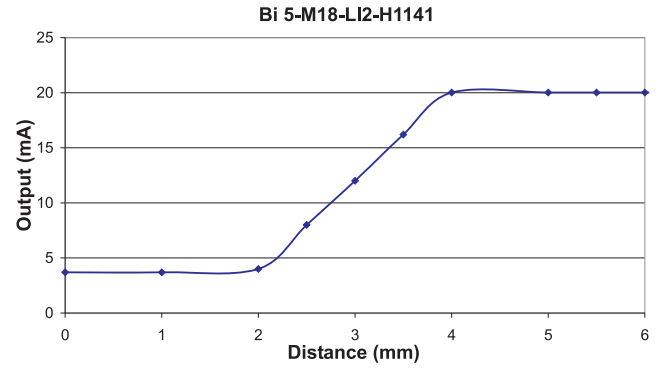
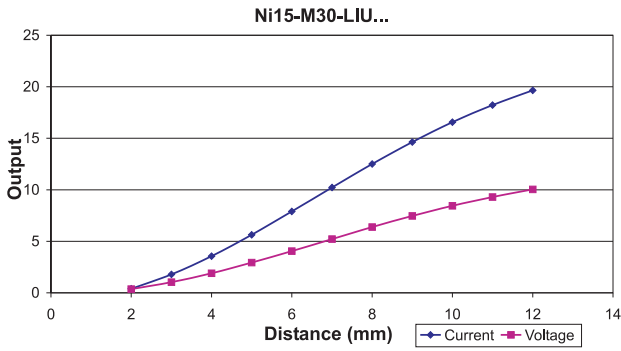
Analogue

For material descriptions see page M36.

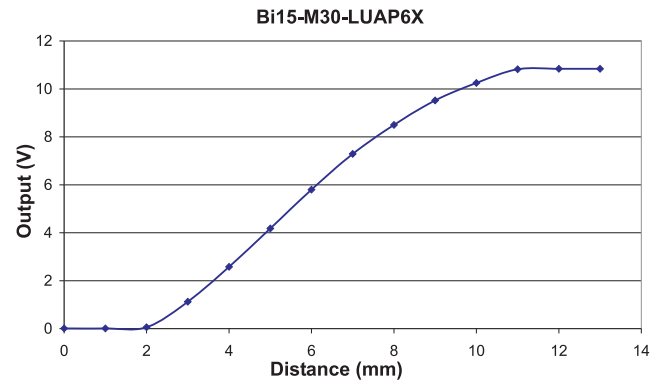
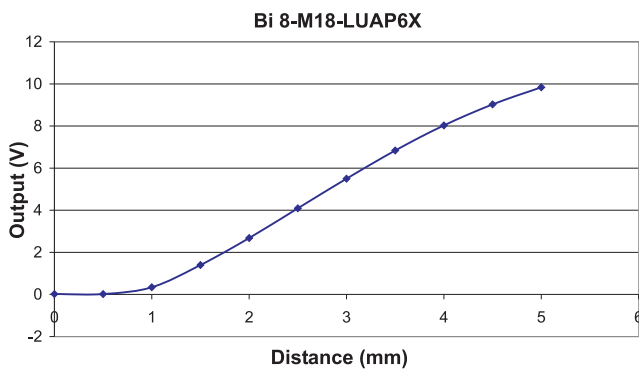
Inductive - analog+ Sensors



For detailed sensor specifications see Section M.

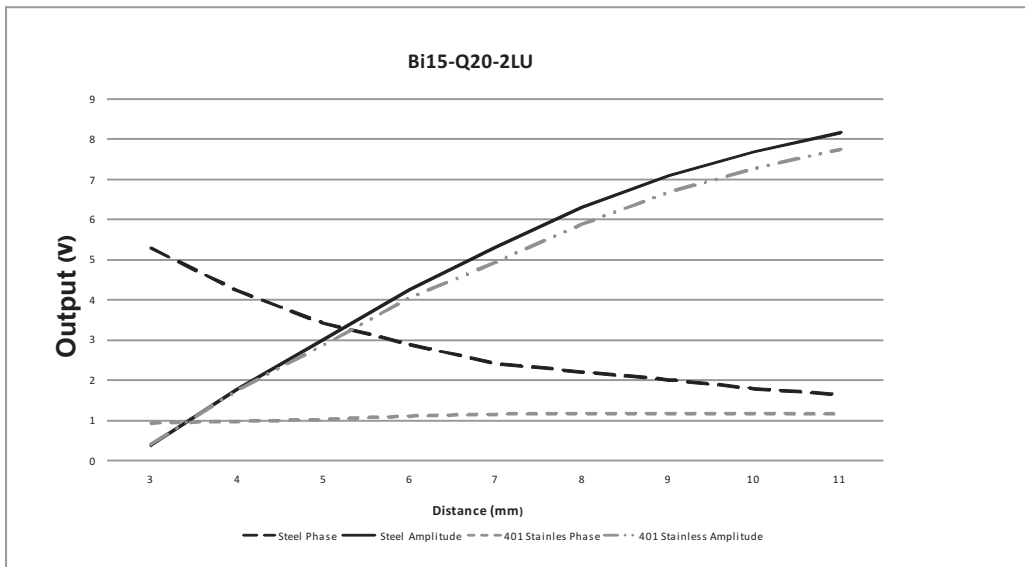
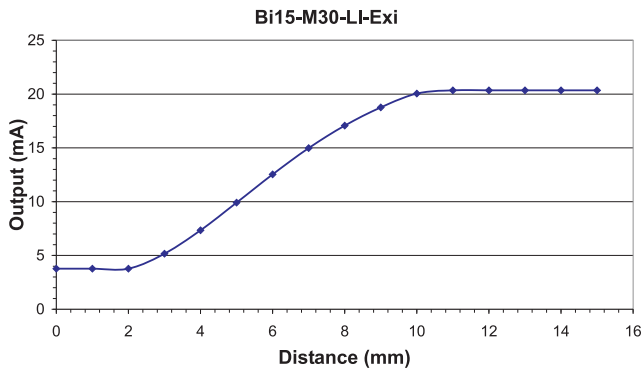
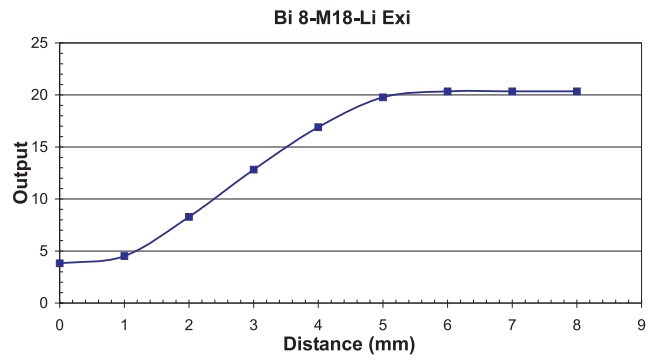
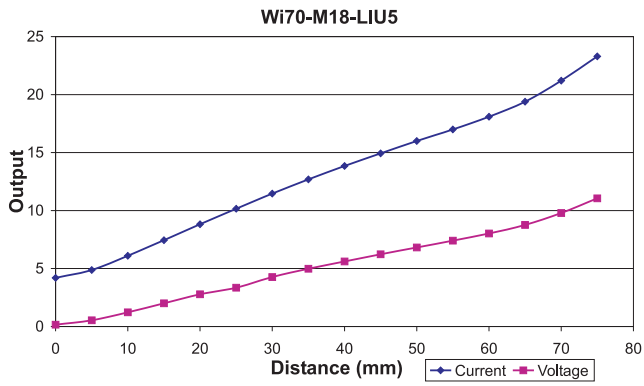


Analogue



For material descriptions see page M36.

Inductive - analog+ Sensors



For detailed sensor specifications see Section M.

TURCK mold-on connectors available
on all cable sensors. See page M25.



Notes:

For material descriptions see page M36.

Capacitive Sensors

Capacitive Sensor Selection Guide



Embeddable/Nonembeddable Rectangular				
Housing	5.5 mm	8 mm	10 mm	14 mm
Sensing Range	5 - 10 mm	5 mm	8 mm	10-15 mm
Pages	G17	G17	G19	G19



Embeddable/Nonembeddable Metal Barrel			
Housing	12 mm	18 mm	30 mm
Sensing Range	3 mm	5 mm	10 mm
Pages	G29	G31	G37 - G40

Capacitive Sensor Selection Guide



Embeddable/Nonembeddable Rectangular

Housing	20 mm	20 mm	40 mm	80 mm
Sensing Range	10-20 mm	10-20 mm	20-30 mm	50 mm
Pages	G21 - G24	G25	G27	G27



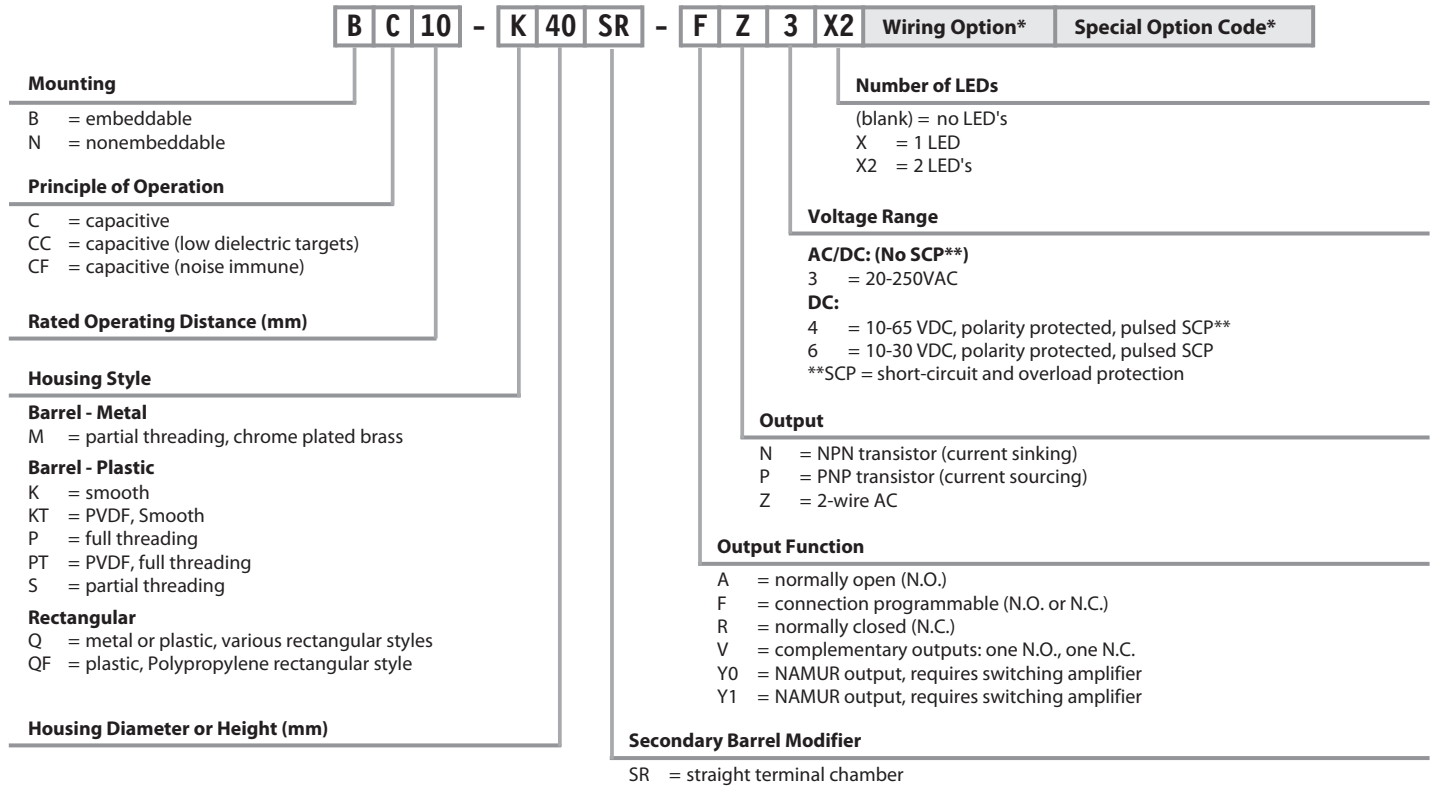
Embeddable/Nonembeddable Plastic Barrel

Housing	12 mm	18 mm	30 mm	34 mm	40
Sensing Range	3-4.5 mm	5-7.5 mm	10-15 mm	15 - 23 mm	20-30 mm
Pages	G29	G33 - G36	G41 - G46	G47 - G50	G49

Capacitive

Capacitive Sensors

Capacitive Sensor Part Number Key



NOTE: Part Number Keys are to assist in IDENTIFICATION ONLY.
Verify New Part Numbers with Factory; Some Configurations Are Not Possible.
* See next page for Wiring Options and Special Option Codes

Wiring Options

A) Connectorized Sensor

BC10-M30-AP4X- **H1 1 4 1**

Connector Family

- B1 = *minifast*®, Metal, Male
- B2 = *minifast*®, Plastic, Male
- B3 = *microfast*®, Metal, Male
- H1 = *euromast*®, Metal or Plastic, Male
- V1 = *picofast*®, Metal, Male

Connector / Sensor Transition

- 1 = Straight

Factory Code

Example:

1 = Standard

3 = N.C. DC Output on Pin 4 (for US)

Number of Pins

B) Potted Cable

BC 5-S18-AP4X- **7M**

Cable Length

Blank = 2 Meter cable

7M = 7 Meter cable

Capacitive

Special Option Codes

BC10-Q14-AP4X2- **/S..**

Option Code

Example:

/S250 = No Potentiometer

/S400 = Rear LED's (for Q14 and Q20 only)

Capacitive Sensors

Package Inspection

One of the major benefits of capacitive sensors is their ability to sense through low-dielectric materials. With the sensitivity properly adjusted, these sensors can be used to “see through” an object wall to detect its contents.

From inspecting jars through a cardboard box to sensing ammonia in a vat - capacitive sensors are made for these applications. In addition, capacitive sensors have the ability to sense most materials including wood, plastics, cardboard, glass, grain, all metals and most fluids. The versatility of these sensors can help you save time and run more efficiently.



Grain and Plastic Pellet Detection

The wide sensitivity band of TURCK sensors allows for detection of a variety of granular or powdered materials. Capacitive sensors are widely used to monitor the level of plastic pellets in the hoppers of injection molding machines. TURCK's new BCC and BCF line of sensors are ideal for this application.

TURCK Intrinsically Safe NAMUR sensors are also used in grain elevators to monitor the levels of materials ranging from rice and barley malt to corn and soybeans.

Small Parts Detection

Another great use for capacitive sensors is to detect small items as they come down the assembly line. They can be used to count product or sense proper operation of the line. Choose from many styles with short-circuit and overload protection in AC, DC and Intrinsically Safe NAMUR.



Capacitive Sensors Work Where Others Don't!

TURCK presents... The industry's most extensive line of capacitive sensors

You may know that TURCK has the broadest product offering in inductive sensors, but did you also know that we have the most extensive line of capacitive sensors?

TURCK's Q-Pak™ capacitive sensors are available in packages up to 10 times narrower than conventional barrel-style sensors. Also our PVDF sensors offer incredible resistance to harsh chemical environments found in the semiconductor and chemical industries.

Liquid Level Detection

Capacitive sensors have the ability to "see through" lower dielectric materials, such as plastic or glass, to detect higher dielectric ones. This allows capacitive sensors to detect levels of many types of materials either directly through the wall for plastic tanks, or by utilizing a sight glass or tank well for metal tanks. With TURCK's Intrinsically Safe NAMUR sensors, PVDF models and PTFE® tank wells, even explosive or corrosive materials can be safely sensed.

Wire Break Detection

TURCK capacitive sensors are ideal for sensing wire breakage. Our sensors will detect even the smallest wires of any metal. The long sensing ranges allow the wire to bounce during the process without causing false outputs.

Capacitive Sensors

Sensitivity Adjustments

Many applications require adjusting the sensitivity of the capacitive sensor in order to reliably detect the target material. Although the potentiometer is factory set for an operating distance of 0.7 to 0.8 times the rated operating distance, it can be easily changed.

Most TURCK capacitive sensors are listed as embeddable. By increasing the sensitivity, the embeddable sensor can be changed into a non-embeddable version with enhanced sensing capabilities.



Noise Immunity

Capacitive sensors were originally designed for use in level detection applications in areas that were generally far away from other electrical equipment. As factory automation has become more prevalent throughout industrial markets, these capacitive sensors have gravitated into new environments where electrical noise levels are greatly increased. Electrical noise can be produced by various sources including variable frequency drives, electromechanical motors and standard walkie-talkie devices. These “noisy” environments can have adverse effects on sensing devices causing them to operate improperly and unreliably.

TURCK recognizes this and has developed a new circuit for its capacitive sensors. These new “BCF” sensors incorporate a **unique filter principle**, making them immune to most industrial noise. This principle involves a fixed oscillator frequency combined with a rectifier filter providing superior noise immunity over the competition.

TURCK’s **fixed oscillator** allows the sensor to maintain a constant frequency regardless of sensitivity adjustment. This fixed frequency is high enough to ignore most of the “standard” noise levels seen on plant floors.

Electrical noise is mostly symmetrical which makes it easier to identify and separate from the sensor’s input signal. The TURCK **rectifier filter** is able to block this noise allowing only the “useful” input signal, which is in phase with the oscillator frequency, to pass.

These two innovative electrical techniques give TURCK the best defense against industrial noise. The list of specifications and test results below demonstrates how TURCK meets or exceeds all of the rigid standards established by CE. In fact, the criteria set forth by CE is so stringent that most capacitive sensors offered on the market today cannot pass any or all of these testing requirements. If you have a capacitive sensor application located in a “noisy” environment choose the new “BCF” sensors from TURCK to ensure your process operates smoothly.

Test Type		CE “Product” Standard	CE “Generic” Standard	TURCK “BCF” Noise Immune Capacitive Sensors
Immunity to Electrostatic Discharge (ESD)	IEC 1000-4-2 EN 61000-4-2	4 kV Direct Contact 8 kV Airborne	4 kV Direct Contact 8 kV Airborne	8 kV Direct Contact 30 kV Airborne
Immunity to Radiated Electromagnetic Fields. Radio Frequency Interference (RFI)	IEC 1000-4-3 EN 61000-4-3	3 V/M 80-1000 MHz	10V/M 80-1000 MHz	15 V/M 80-1000 MHz
Immunity to Electrical Fast Transients (Burst-High Voltage)	IEC 1000-4-4 EN 61000-4-4	2000 V	2000 V	3000 V
Immunity to Conducted R.F. Voltage (Line coupled Noise)	IEC 1000-4-6 EN 61000-4-6	Undefined	10 V 150 kHz-80 MHz	>10 V 150 kHz-230 MHz
Immunity to Surges (lightning strike)	IEC 255-5	1kV, 500Ω DC	Undefined	1kV, 500Ω DC 5kV, 500Ω AC

Capacitive Sensors

Applications

- **Liquid Level Control** for both explosive and non-explosive materials.
- **Package Inspection** for product content and/or fill level.
- **Wire-Break Detection** for wire sizes down to .003".
- **Plastic Pellet Detection** in a hopper for injection molding processes.
- **Grain or Food Products Level Detection**; intrinsically safe models available.
- **Small Metal Parts Detection**; greater sensing range than comparable inductive sensors.

Operating Principle

The active element is formed by two metallic electrodes positioned much like an "opened" capacitor (Figure 1).

Electrodes A and B are placed in a feedback loop of a high frequency oscillator. When no target is present, the sensor's capacitance is low, therefore the oscillation amplitude is small. When a target approaches the face of the sensor, it increases the capacitance. This increase in capacitance results in an increased amplitude of oscillation.

The amplitude of oscillation is measured by an evaluating circuit that generates a signal to turn on or off the output (Figure 2).

Figure 1

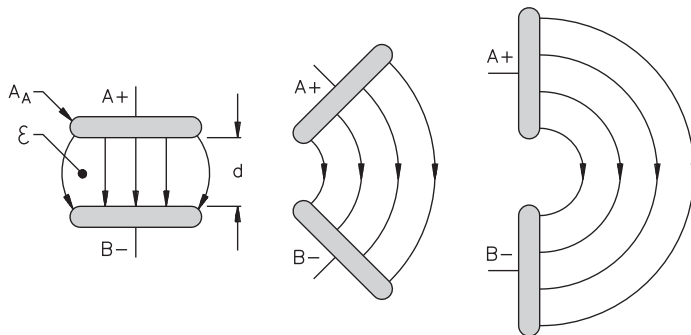
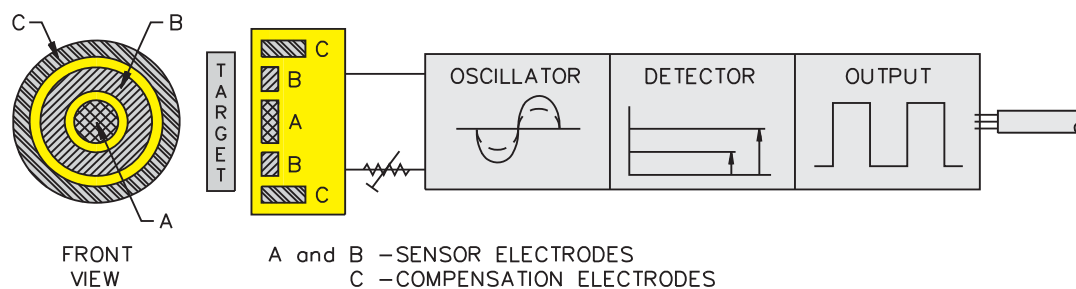


Figure 2



Operating Principle

Capacitance is a function of the surface area of either electrodes (A or B), the distance between the electrodes (d), and the dielectric constant of the material (ϵ) between the electrodes (Figure 1).

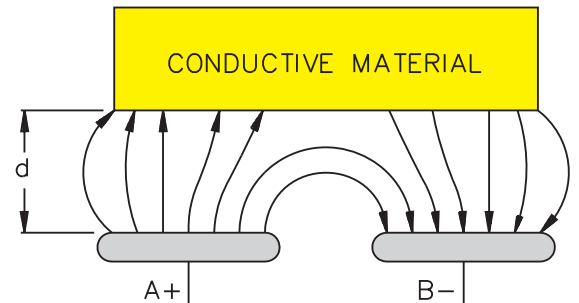
$$C = \frac{\epsilon \times A}{d}$$

C = capacitance of sensor
 A = surface area of either electrode
 d = distance between two electrodes
 ϵ = dielectric constant of material between the electrodes

When a **Conductive Target** enters the sensor's field, it forms a counter electrode to the active face of the sensor, thus decreasing the distance between the electrodes (d) and increasing their average surface area (Figure 3). The capacitance with a metal target present is always greater than the capacitance of the circuit in the absence of the target.

Reduction factors for different metals are not a consideration when using capacitive sensors.

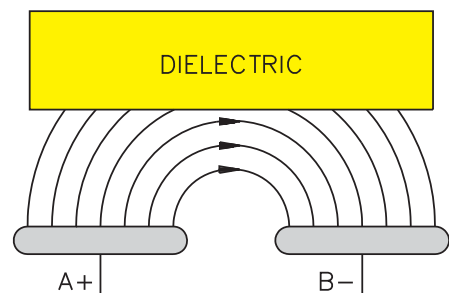
Figure 3



When a **Non-Conductive Target** enters the sensor's field, it acts as an electrical insulator between electrodes A and B (Figure 4).

The dielectric constant of the material (ϵ) is a measure of its insulation properties. All liquids and solids have a greater dielectric constant than air ($\epsilon_{\text{air}} = 1$). Therefore, the capacitance with a non-metallic target present is always greater than the capacitance of the circuit in the absence of the target.

Figure 4



Capacitive Sensors

Sensitivity Adjustment

Capacitive sensors can be adjusted two ways in order to sense a target consistently.

1. **Physical adjustment** - moving the sensor towards or away from the target is the preferred method of adjusting sensitivity when the sensor is not in direct contact with the target. This allows materials to be moved into or out of range while leaving the sensor at the factory setting or after re-calibration to the nominal operating distance S_n .
2. **Adjustment of the potentiometer** - turning the potentiometer in a clockwise direction increases the sensitivity of the sensor. The potentiometer is factory-set for an operating distance of 0.7 to 0.8 S_n to a grounded standard target (Figure 5). It should be adjusted in increments of no greater than a quarter-turn (Figure 6). Increasing the sensitivity results in a greater operating distance to both conductive and non-conductive targets.

Figure 5

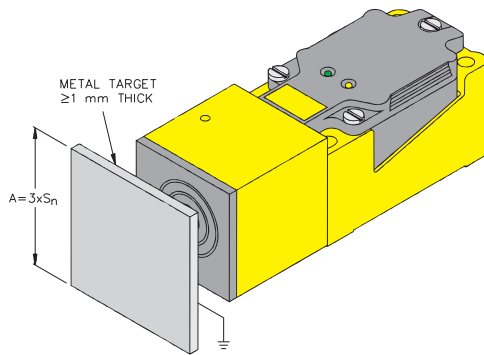
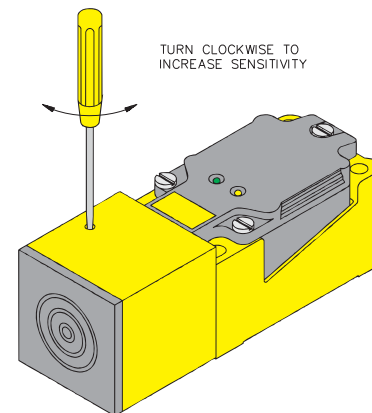


Figure 6



When sensing non-conductive targets, the larger the dielectric constant of a material, the greater the achievable operating distance (Figure 7). Adjusting the potentiometer affects the total curve; for example, if the potentiometer is adjusted for less sensitivity, it will have less operating distance to all materials.

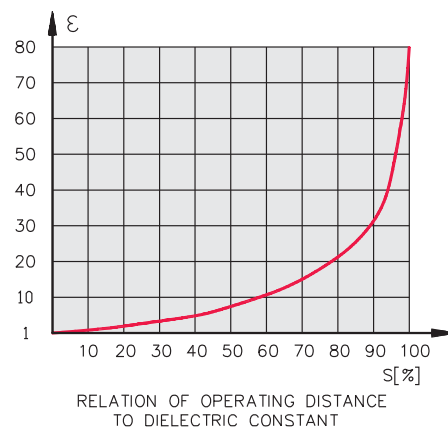
In general terms, the larger the dielectric constant of a material, the greater the achievable operating distance.

When detecting organic materials the sensing distance will depend largely on the water content ($\epsilon_{\text{water}} = 88$).

It should be noted that a large increase in sensitivity will cause the sensor to become nonembeddable, and may result in an unstable switching point that can be influenced by environmental changes such as temperature, humidity, dust, etc.

At adjustments of $S > S_n$, the differential travel (hysteresis) can also increase.

Figure 7



Example Application 1 - Adjustment

Problem:

Can a BC20-K40SR-FZ3X2 be used to sense the presence of ammonia from behind a .125" glass panel?

Solution:

The dielectric constants for these materials can be found on pages 15 and 16.

Dielectric (ϵ_r) of ammonia:	20
Dielectric (ϵ_r) of glass:	10

From Figure 7, $\epsilon_r = 20$ corresponds to 80% Sn; $\epsilon_r = 10$ corresponds to 60% Sn.

Since Sn = 20 mm for a BC20:	S for ammonia = 16 mm
	S for glass = 12 mm

The difference is 4 mm. The glass thickness = .125", or 3.1 mm. This application will work with a 0.9 mm margin. This means that by adjusting the potentiometer there should be a reasonable distinction between the glass and the ammonia as seen by the sensor.

To set up the sensor for this application, the sensing face of the sensor should be flush against the sight glass.

1. With no ammonia present (if possible) turn the potentiometer clockwise until the sensor turns on. If the sensor is already on, skip step one.
2. Next, turn the potentiometer counter clockwise until the sensor turns off.
3. Now add the ammonia so that it covers the glass panel.
4. Once again, turn the potentiometer counter clockwise, *counting the number of turns* until the sensor turns off.*
5. Divide the number of turns by two and turn the potentiometer back clockwise that amount.

Using this process will allow for a margin of error in either direction. If this application had called for something other than ammonia, like molasses, that tends to leave buildup behind, step 1 above should be performed *with the buildup present (if possible)*.

* If sensor does not turn off after 10 full turns, turn back the potentiometer clockwise between 3 to 5 turns. Minor adjustments may need to be made to achieve desired setting.

Example Application 2 - Mounting

Problem:

A metal tank containing a water-based solution has a 1" outside diameter sight glass. What sensor and bracket could be used for monitoring the liquid level?

Solution:

The QF 5.5 flat style can be used on non-conductive tubing up to 1.0 inch in diameter with the standard mounting straps provided with the sensor (Figure 8).

Other mounting straps for larger diameters are available upon request (consult factory).

Figure 8



Capacitive Sensors

Dielectric Constants of Industrial Products

Material	Dielectric Constant
ABS resin, pellet	1.5 - 2.5
Acetic Acid	4.1
Acetone	19.5
Acetyl bromide	16.5
Acrylic resin	2.7 - 4.5
Air	1.0
Alcohol, industrial	16 - 31
Alcohol, isopropyl	18.3
Ammonia	15 - 25
Aniline	5.5 - 7.8
Aqueous solutions	50 - 80
Asbestos	3.0
Ash (fly)	1.7
Bakelite	3.6
Barley powder	3.0 - 4.0
Benzene	2.3
Benzyl acetate	5
Butane	1.4
Cable sealing compound	2.5
Calcium carbonate	9.1
Carbon Dioxide	1.6
Carbon tetrachloride	2.2
Celluloid	3.0
Cellulose	3.2 - 7.5
Cement	1.5 - 2.1
Cement powder	5 - 10
Cereal	3 - 5
Charcoal	1.2 - 1.8
Chlorine, liquid	2.0
Coke	1.1 - 2.2
Corn	5 - 10
Ebonite	2.7 - 2.9

Material	Dielectric Constant
Epoxy resin	2.5 - 6
Ethanol	24
Ethyl bromide	4.9
Ethylene Chloride	10.5
Ethylene Dichloride	11.0
Ethylene glycol	38.7
Ethylene Oxide	14.0
Ferrous Oxide	14.2
Fired Ash	1.5
Flour	2.5 - 3.0
Formic Acid	59.0
Freon® R22 & 502, liquid	6.1
Gasoline	2.2
Glass	3.1 - 10
Glass, raw material	2.0 - 2.5
Glycerine	47
Hexane	1.9
Hydrochloric Acid	4.6
Hydrogen cyanide	95.4
Hydrogen peroxide	84.2
Ice, -5C	2.85
Ice, -18C	3.16
Isobutylamine	4.5
Lime, shell	1.2
Marble	8.0 - 8.5
Melamine resin	4.7 - 10.2
Methane, liquid	1.7
Methanol	33.6
Mica, white	4.5 - 9.6
Milk, powdered	3.5 - 4
Nitrobenzene	36
Neoprene	6 - 9

Dielectric Constants of Industrial Products

Material	Dielectric Constant
Nylon	4 - 5
Oil, for transformer	2.2 - 2.4
Oil, paraffin	2.2 - 4.8
Oil, peanut	3.0
Oil, petroleum	2.1
Oil, soybean	2.9 - 3.5
Oil, turpentine	2.2
Paint	5 - 8
Paraffin	1.9 - 2.5
Paper	1.6 - 2.6
Paper, hard	4.5
Paper, oil saturated	4.0
Perspex	3.2 - 3.5
Petroleum	2.0 - 2.2
Phenol	9.9 - 15
Phenol resin	4.9
Polyacetal (Delrin®)	3.6
Polyamide (nylon)	2.5
Polycarbonate	2.9
Polyester resin	2.8 - 8.1
Polyethylene	2.3
Polypropylene	2.0 - 2.3
Polystyrene	3.0
Polyvinyl Chloride resin	2.8 - 3.1
Porcelain	4.4 - 7
Press board	2 - 5
Propane, liquid	1.6
Propylene, liquid	11.9
Quartz glass	3.7
Rice, dry	3.5

Material	Dielectric Constant
Rubber	2.5 - 35
Salt	6.0
Sand	3 - 5
Shellac	2.0 - 3.8
Silicon dioxide	4.5
Silicone rubber	3.2 - 9.8
Silicone varnish	2.8 - 3.3
Soybean	2.8
Styrene resin	2.3 - 3.4
Sugar	3.0
Sugar, granulated	1.5 - 2.2
Sulfur	3.4
Sulfuric acid	84
Teflon®, PCTFE	2.3 - 2.8
Teflon, PTFE	2.0
Toluene	2.3
Trichloroethylene	3.4
Urea resin	6.2 - 9.5
Urethane	3.2
Vaseline	2.2 - 2.9
Vinyl Chloride	2.8
Water	48 - 88
Wax	2.4 - 6.5
Wood, dry	2 - 7
Wood, pressed board	2.0 - 2.6
Wood, wet	10 - 30
Xylene	2.4
Zinc Oxide	1.7
Zirconium Oxide	12.5
Zirconium Silicate	5.0

Capacitive Sensors

Temperature and Environmental Conditions

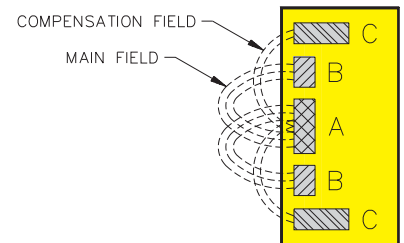
Compensation Electrode

In practice, sensors can be affected by water droplets, humidity, dust, etc., causing false outputs. To combat this effect each TURCK sensor incorporates a compensating electrode (C) which forms part of a negative feedback circuit (Figure 9).

When contaminants are on the sensor face, they affect the sensor's main field, as well as its compensation field. The negative feedback circuit detects the increase in both fields, and can filter out the effects of the contaminants.

When a large target comes into the sensor's main field, the compensation field is not affected, thus the negative feedback circuit can distinguish a difference between the two fields, and the sensor generates an output.

Figure 9



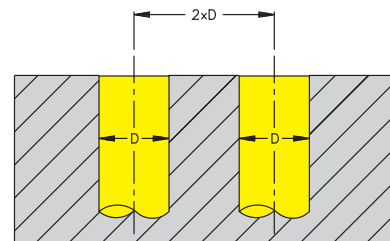
A and B –SENSOR ELECTRODES
C –COMPENSATION ELECTRODES

Mounting

Most capacitive sensors manufactured by TURCK are embeddable, which ensures that the electric field is only effective in front of the active face. They are suitable for flush mounting at the factory setting in any material (conductive & nonconductive).

When sensors are flush mounted, the effect on the operating distance is minimal and can be overcome by adjustment of the potentiometer. Minimum separation distances must be observed to avoid the possibility of interference between the two sensors' fields (Figure 10).

Figure 10



Operating Distance (Sensing Range) Considerations

The operating distance (*S*) of the different models is basically a function of the diameter of the sensing coil. Maximum operating distance is achieved with the use of a standard or larger target. Rated operating distance (*S_n*) for each model is given in the manual.

Standard Target

An earth-grounded square piece of carbon steel having a thickness of 1 mm (0.04 in) is used as a standard target to determine the following operating tolerances. The length and width of the square is equal to three times the rated operating distance.

Operating Distance = *S*

The operating distance is the distance at which the target approaching the sensing face along the reference axis causes the output signal to change.

Rated Operating Distance = *S_n*

The rated operating distance is a conventional quantity used to designate the operating distance. It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature. (Figure 10)

Effective Operating Distance = *S_r* $0.9 S_n \leq S_r \leq 1.1 S_n$

The effective operating distance is the operating distance of an individual proximity sensor at a constant rated voltage and 23°C (73°F). It allows for manufacturing tolerances.

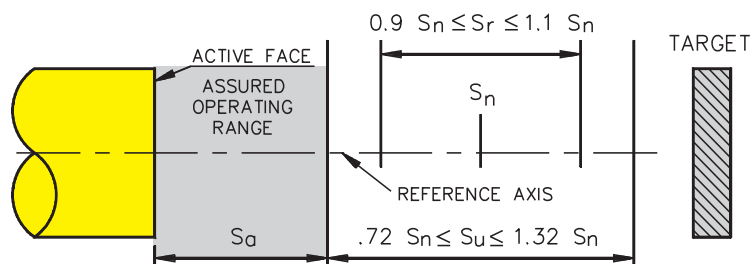
Usable Operating Distance = *S_u* $0.72 S_n \leq S_u \leq 1.32 S_n$

The usable operating distance is the operating distance of an individual proximity sensor measured over the operating temperature range at 85% to 110% of its rated voltage. It allows for external conditions and for manufacturing tolerances.

Assured Operating Range = *S_a* $0 \leq S_a \leq 0.72 S_n$

The assured actuating range is between 0 and 72% of the rated operating distance. It is the range within which the correct operation of the proximity sensor under specified voltage and temperature ranges is assured. (Figure 11)

Figure 11



Capacitive

TURCK

Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output	
5.5 mm - Embeddable, Potted-In Cable 	BC 5-QF5.5-AN6X2/S250	S2620120	No Potentiometer	5	5	3-Wire DC NPN	
	BC10-QF5.5-AN6X2	S2620121		10	10		
	BC10-QF5.5-AN6X2/S250	S2620119	No Potentiometer	10	10		
	BC10-QF5.5-RN6X2			10	10		
	BC10-QF5.5-RN6X2/S250		No Potentiometer	10	10		
		BC 5-QF5.5-AP6X2/S250	S2620116	No Potentiometer	5	5	3-Wire DC PNP
		BC 5-QF5.5-RP6X2/S250		No Potentiometer	5	5	
		BC10-QF5.5-AP6X2	S2620117		10	10	
		BC10-QF5.5-AP6X2/S250	S2620115	No Potentiometer	10	10	
		BC10-QF5.5-RP6X2		Normally Closed	10	10	
		BC10-QF5.5-RP6X2/S250		No Potentiometer	10	10	
	BC 5-QF5.5-Y1X/S250	S2030000	No Potentiometer	5	5	2-Wire DC NAMUR	
5.5 mm - Embeddable, Potted-In Cable, w/Potentiometer Cover 	BC10-QF5.5-AN6X2/S932	S2620137	Covered Pot.	10	10	3-Wire DC NPN	
	BC10-QF5.5-RN6X2/S932	S2620140	Covered Pot.	10	10		
	BC10-QF5.5-AP6X2/S932	S2620109	Covered Pot.	10	10	3-Wire DC PNP	
	BC10-QF5.5-RP6X2/S932	S2620141	Covered Pot.	10	10		
8 mm - Embeddable, Potted-In Cable 	BC 5-Q08-AN6X2/S250	S2620100	No Potentiometer	5	5	3-Wire DC NPN	
	BC 5-Q08-AP6X2/S250	S2620000	No Potentiometer	5	5	3-Wire DC PNP	
8 mm - Embeddable, picofast® Connector 	BC 5-Q08-AN6X2-V1131/S250	S2621100	No Potentiometer	5	5	3-Wire DC NPN	
	BC 5-Q08-AP6X2-V1131/S250	S2621000	No Potentiometer	5	5	3-Wire DC PNP	

"/S250" designates without potentiometer.
"/S932" designates Covered potentiometer.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Face/ Front Cap	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	1	Diagram 1
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	1	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	1	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	5	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	5	
10-30 VDC	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	2	Diagram 2
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	6	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	2	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	2	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	6	
5-30 VDC	100	Remote	-25 to +70	IP67	PP	PP	N/A	YE	2M/TPU	5	Diagram 3
10-30 VDC	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	1	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	5	
10-30 VDC	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	2	
	100	≤200	-25 to +70	IP67	PP	PP	GN	YE	2M/TPU	6	
10-30 VDC	100	≤200	-25 to +70	IP67	Zinc	PA 12	GN	YE	2M/TPU	1	Diagram 4
	100	≤200	-25 to +70	IP67	Zinc	PA 12	GN	YE	2M/TPU	2	
10-30 VDC	100	≤200	-25 to +70	IP67	Zinc	PA 12	GN	YE	2M/TPU	1	Diagram 5
10-30 VDC	100	≤200	-25 to +70	IP67	Zinc	PA 12	GN	YE	2M/TPU	2	
10-30 VDC	100	≤200	-25 to +70	IP67	Zinc	PA 12	GN	YE	PKG 3Z-*	3	Diagram 6
10-30 VDC	100	≤200	-25 to +70	IP67	Zinc	PA 12	GN	YE	PKG 3Z-*	4	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
10 mm - Embeddable, Potted-In Cable 	BC 8-Q10-AN6X2/S250	S2621203	No Potentiometer	8	8	3-Wire DC NPN
	BC 8-Q10-AP6X2/S250	S2621200	No Potentiometer	8	8	3-Wire DC PNP
10 mm - Embeddable, picofast® Connector 	BC 8-Q10-AN6X2-V1131/S250	S2621202	No Potentiometer	8	8	3-Wire DC NPN
	BC 8-Q10-AP6X2-V1131/S250	S2621201	No Potentiometer	8	8	3-Wire DC PNP
14 mm - Embeddable, Potted-In Cable 	BC10-Q14-AN4X2	M2530010		10	15	3-Wire DC NPN
	BC10-Q14-AN4X2/S400	M2530005	Rear LED	10	15	
	BC10-Q14-AP4X2	M2530001		10	15	3-Wire DC PNP
	BC10-Q14-AP4X2/S400	M2530003	Rear LED	10	15	
	BC10-Q14-VN4X2	M2530030	Comp. Outputs	10	15	4-Wire DC NPN
	BC10-Q14-VP4X2	M2530020	Comp. Outputs	10	15	4-Wire DC PNP
14 mm - Embeddable, picofast Connector 	BC10-Q14-AN4X2-V1131	M2530011		10	15	3-Wire DC NPN
	BC10-Q14-AN4X2-V1131/S400	M2530006	Rear LED	10	15	
	BC10-Q14-AP4X2-V1131	M2530002		10	15	3-Wire DC PNP
	BC10-Q14-AP4X2-V1131/S400	M2530004	Rear LED	10	15	

"/S250" in part number designates without potentiometer.

"/S400" in part number designates rear LED location on back of sensor opposite front face.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	1	Diagram 1
10-30 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	2	Diagram 2
10-30 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	PKG 3M-*	3	Diagram 3
10-30 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	PKG 3M-*	4	Diagram 4
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	1	
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	2	Diagram 5
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	2	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	5	Diagram 6
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	6	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	PKG 3M-*	3	
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	PKG 3M-*	3	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	PKG 3M-*	4	
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	PKG 3M-*	4	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
10 mm - Embeddable, eurofast® Connector 	BCF10-Q20L60-AP4X-H1141	M2504027	Noise Immune	10	20	3-Wire DC PNP
10 mm - Embeddable, Potted-In Cable 	BCF10-Q20L60-AP4X	M2504028	Noise Immune	10	20	3-Wire DC PNP

Level Sensors - Capacitive

Voltage	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Power LED	Output LED	Mating Cord Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	≤200	-25 to 70	IP67	PBT-GF20-V0	None	YE	RK 4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
10-65 VDC	≤200	-25 to 70	IP67	PBT-GF20-V0	None	YE	2M/PVC	2	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
20 mm - Embeddable, Potted-In Cable 	BC20-Q20-AN4X2	M2530110		20	30	3-Wire DC NPN
	BC20-Q20-AN4X2/S400	M2530104	Rear LED	20	30	
	BC20-Q20-AP4X2	M2530100		20	30	3-Wire DC PNP
	BC20-Q20-AP4X2/S400	M2530102	Rear LED	20	30	
	BC20-Q20-VP4X2/S400	M2530122	Comp. Outputs Rear LED	20	30	4-Wire DC PNP
	BC20-Q20-AZ3X2	M4352000		20	30	2-Wire AC
	BC20-Q20-AZ3X2/S400	M2310005	Rear LED	20	30	

"/S400" in part number designates rear LEDs, located on back of sensor opposite of sensing face.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Power LED	Output LED	CableLength /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	1	<p>Diagram 1</p>
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	2	<p>Diagram 2</p>
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	2	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	3	<p>Diagram 3</p>
20-250 VAC	20	≤500	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	4	<p>Diagram 4</p>
	20	≤500	-25 to +70	IP67	PBT-GF30-V0	GN	YE	2M/PVC	4	

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
20 mm - Embeddable, eurofast® Connector 	BC20-Q20-AN4X2-H1141	M2530111		20	30	3-Wire DC NPN
	BC20-Q20-AN4X2-H1141/S400	M2530105	Rear LED	20	30	
	BC20-Q20-AP4X2-H1141	M2530101		20	30	3-Wire DC PNP
	BC20-Q20-AP4X2-H1141/S400	M2530103	Rear LED	20	30	
	BC20-Q20-VN4X2-H1141	M2530131	Comp. Outputs	20	30	4-Wire DC NPN
	BC20-Q20-VN4X2-H1141/S400	M2530124	Comp. Outputs Rear LED	20	30	
	BC20-Q20-VP4X2-H1141	M2530121	Comp. Outputs	20	30	4-Wire DC PNP
	BC20-Q20-VP4X2-H1141/S400	M2530123	Comp. Outputs Rear LED	20	30	

"/S400" in part number designates rear LEDs, located on back of sensor opposite of sensing face.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4T-*	1	<p>Diagram 1</p>
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4T-*	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4T-*	2	<p>Diagram 2</p>
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4T-*	2	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4.4T-*	3	<p>Diagram 3</p>
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4.4T-*	3	
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4.4T-*	4	<p>Diagram 4</p>
	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	RK 4.4T-*	4	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
40 mm - Embeddable, Terminal Chamber 	BC20-CP40-VN4X2	M2515700	Comp. Outputs	20	30	4-Wire DC NPN
	BC20-CP40-VP4X2	M2515600	Comp. Outputs	20	30	4-Wire DC PNP
	BC20-CP40-FZ3X2	M2311500	Prog. Outputs	20	30	2-Wire AC
80 mm - Nonembeddable, Terminal Chamber 	NC50-CP80-VN4X2	M2580112	Comp. Outputs	NA	50	4-Wire DC NPN
	NC50-CP80-VP4X2	M2580212	Comp. Outputs	NA	50	4-Wire DC PNP
	NC50-CP80-FZ3X2	M2310610	Prog. Outputs	NA	50	2-Wire AC

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	----	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	----	2	<p>Diagram 2</p>
20-250 VAC	20	≤500	-25 to +70	IP67	PBT-GF30-V0	GN	YE	----	3	<p>Diagram 3</p>
10-65 VDC	200	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	----	1	
10-65 VDC	200	≤200	-25 to +70	IP67	PBT-GF30-V0	GN	YE	----	2	<p>-OR-</p>
20-250 VAC	20	≤500	-25 to +70	IP67	PBT-GF30-V0	GN	YE	----	3	

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
12 mm - Embeddable, eurofast® Connector 	BC 3-M12-AN6X-0.2M-RS 4T	M2601190		3	3	3-Wire DC NPN
	BC 3-M12-AP6X-0.2M-RS 4T	M2601091		3	3	3-Wire DC PNP
12 mm - Embeddable, Potted-In Cable 	BC 3-M12-AN6X	M2601100		3	3	3-Wire DC NPN
	BC 3-M12-AP6X	M2601000		3	3	3-Wire DC PNP
12 mm - Embeddable, eurofast Connector 	BC 3-S12-AN6X-0.2M-RS 4T	M2601390		3	4.5	3-Wire DC NPN
	BC 3-S12-AP6X-0.2M-RS 4T	M2601291		3	4.5	3-Wire DC PNP
12 mm - Embeddable, Potted-In Cable 	BC 3-S12-AN6X	M2601300		3	4.5	3-Wire DC NPN
	BC 3-S12-AP6X	M2601200		3	4.5	3-Wire DC PNP
	BC 3-S12-AP6X/S100	M2601201	High Temp. 100°C	3	4.5	

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Face Material	End Cap	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +70	IP67	CPB	ABS	PA	N/A	YE	RK 4T-*	1	Diagram 1
10-30 VDC	100	≤200	-25 to +70	IP67	CPB	ABS	PA	N/A	YE	RK 4T-*	2	Diagram 2
10-30 VDC	100	≤200	-25 to +70	IP67	CPB	ABS	PA	N/A	YE	2M/PVC	3	Diagram 3
10-30 VDC	100	≤200	-25 to +70	IP67	CPB	ABS	PA	N/A	YE	2M/PVC	4	Diagram 4
10-30 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PA	PA	N/A	YE	RK 4T-*	1	
10-30 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PA	PA	N/A	YE	RK 4T-*	2	
10-30 VDC	200	≤200	-25 to +70	IP67	PA 12-GF30	PA	PA	N/A	YE	2M/PVC	3	
10-30 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PA	PA	N/A	YE	2M/PVC	4	
10-30 VDC	100	≤200	-25 to +100	IP67	PA 12-GF30	PA	PA	N/A	YE	2M/PVC	4	

* Length in meters..

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Embeddable Range (mm)	Nonembed. Range (mm)	Output
18 mm - Embeddable, eurofast® Connector 	BC 5-M18-AN4X-0.2M-RS 4T	M2504091	5	5	3-Wire DC NPN
	BC 5-M18-AP4X-0.2M-RS 4T	M2504090	5	5	3-Wire DC PNP
18 mm - Embeddable, microfast® Connector 	BC 5-M18-AZ3X-0.2M-SB 3T	M2305090	5	5	2-Wire AC
18 mm - Embeddable, Potted-In Cable 	BC 5-M18-AN4X	M2504002	5	5	3-Wire DC NPN
	BC 5-M18-AP4X	M2504001	5	5	3-Wire DC PNP
	BC 5-M18-AZ3X	M2305000	5	5	2-Wire AC

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Face Material	End Cap	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PBT-G30-V0	PUR	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PBT-G30-V0	PUR	N/A	YE	RK 4T-*	2	<p>Diagram 2</p>
20-250 AC	20	≤500	-25 to +70	IP67	CPB	PBT-G30-V0	PUR	N/A	YE	KB 3T-*	5	<p>Diagram 3</p> <p>Diagram 4</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PBT-G30-V0	PUR	N/A	YE	2M/PVC	3	<p>Diagram 5</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PBT-G30-V0	PUR	N/A	YE	2M/PVC	4	<p>Diagram 6</p>
20-250 VAC	20	≤500	-25 to +70	IP67	CPB	PBT-G30-V0	PUR	N/A	YE	2M/PVC	6	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output	
18 mm - Embeddable, eurofast® Connector 	BC 5-S18-AN4X-0.2M-RS 4T	M2503192		5	7.5	3-Wire DC NPN	
	BC 5-S18-AN4X-H1141/S250	M2503108	No Potentiometer	5	7.5		
	BCF 5-S18-AN4X-0.2M-RS 4T	M2503089	Noise Immune	5	7.5		
		BC 5-S18-AP4X-0.2M-RS 4T	M2503492		5	7.5	3-Wire DC PNP
		BC 5-S18-AP4X-H1141/S250	M2503602	No Potentiometer	5	7.5	
		BCF 5-S18-AP4X-0.2M-RS 4T	M2503099	Noise Immune	5	7.5	
18 mm - Embeddable, eurofast Connector 	BC 5-S185-AN4X-0.3M-RS 4T	M2503590	Chemical Resistant	5	7.5	3-Wire DC NPN	
	BC 5-S185-AP4X-0.2M-RS 4T	M2503591	Chemical Resistant	5	7.5	3-Wire DC PNP	
18 mm - Embeddable, microfast® Connector 	BC 5-S18-AZ3X-0.2M-SB 3T	M2305590		5	7.5	2-Wire AC	

"/S250" in part number designates without potentiometer.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	End Cap	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	RK 4T-*	1	
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	RK 4T-*	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	RK 4T-*	2	<p>Diagram 2</p>
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	RK 4T-*	2	
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	RK 4T-*	2	
10-65 VDC	100	≤200	-25 to +70	IP67	PVDF	PUR	N/A	YE	RK 4T-*	1	<p>Diagram 3</p>
10-65 VDC	100	≤200	-25 to +70	IP67	PVDF	PUR	N/A	YE	RK 4T-*	2	
20-250 VAC	20	≤500	-25 to +70	IP67	PA12-GF30	PUR	N/A	YE	KB 3T-*	3	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
18 mm - Embeddable, Potted-In Cable 	BC 5-S18-AN4X	M2503100		5	7.5	3-Wire DC NPN
	BCF 5-S18-AN4X	M2503012	Noise Immune	5	7.5	
	BC 5-S18-AP4X	M2503000		5	7.5	3-Wire DC PNP
	BCF 5-S18-AP4X	M2503011	Noise Immune	5	7.5	
	BCF 5-S18-AP4X/S90	M2503014	Noise Immune	5	7.5	
	BC 5-S18-AZ3X	M2305500			5	7.5
18 mm - Embeddable, Potted-In Cable 	BC 5-S185-AN4X	M2503550	Chemical Resistant	5	7.5	3-Wire DC NPN
	BC 5-S185-AN4X/S100	M2503551	High Temp. 100°C	5	7.5	
	BC 5-S185-AP4X	M2503500	Chemical Resistant	5	7.5	3-Wire DC PNP
	BC 5-S185-AP4X/S100	M2503502	High Temp. 100°C	5	7.5	
18 mm - Embeddable, Potted-In Cable 	BC 5-S18-Y1X	M2006000		5	7.5	2-Wire DC NAMUR

"/S100" in part number designates high temperature sensor.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	End Cap	Power LED	Output LED	Cable Length/ Material	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PVC	1	<div style="border: 1px solid black; padding: 5px;"> <p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> </div>
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PVC	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PVC	2	
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PVC	2	
	100	≤200	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PUR	2	
20-250 VAC	20	≤500	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PVC	3	
10-65 VDC	100	≤200	-25 to +70	IP67	PVDF	PUR	N/A	YE	2M/PVC	1	
	100	≤200	-25 to +100	IP67	PVDF	PUR	N/A	YE	2M/PVC	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PVDF	PUR	N/A	YE	2M/PVC	2	
	100	≤200	-25 to +100	IP67	PVDF	PUR	N/A	YE	2M/PVC	2	
5-30 VDC	100	Remote	-25 to +70	IP67	PA 12-GF30	PUR	N/A	YE	2M/PVC	4	

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
30 mm - Embeddable, eurofast® Connector 	BC10-M30K-AN4X-H1141	M2503030		10	10	3-Wire DC NPN
	BC10-M30K-AP4X-H1141	M2503026		10	10	3-Wire DC PNP
	BC10-M30K-VN4X-H1141	M2503033	Comp. Outputs	10	10	4-Wire DC NPN
	BC10-M30K-VP4X-H1141	M2503035	Comp. Outputs	10	10	4-Wire DC PNP
30 mm - Embeddable, microfast® Connector 	BC10-M30K-AZ3X-B3131	M2503034		10	10	2-Wire AC N.O.
	BC10-M30K-RZ3X-B3131	M2503023		10	10	2-Wire AC N.C.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Face Material	End Cap	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	RK 4T-*	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	RK 4T-*	2	<p>Diagram 2</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	3	<p>Diagram 3</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	4	<p>Diagram 4</p>
20-250 AC	20	≤500	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	KB 3T-*	5	<p>Diagram 5</p>
20-250 AC	20	≤500	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	KB 3T-*	6	<p>Diagram 6</p>

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	BC10-M30K-VN4X	M2503024	Comp. Outputs	10	10	4-Wire DC NPN
	BC10-M30K-VP4X	M2503022	Comp. Outputs	10	10	4-Wire DC PNP
	BC10-M30K-AZ3X	M2503031		10	10	2-Wire AC N.O.
	BC10-M30K-RZ3X	M2503025		10	10	2-Wire AC N.C.

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	Face Material	End Cap Material	Power LED	Output LED	Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	1	<p>Diagram 1</p> <p>Diagram 2</p>
10-65 VDC	100	≤200	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	2	<p>Diagram 3</p> <p>Diagram 4</p>
20-250 VAC	20	≤500	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	3	<p>Diagram 3</p> <p>Diagram 4</p>
20-250 VAC	20	≤500	-25 to +70	IP67	CPB	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	4	<p>Diagram 3</p> <p>Diagram 4</p>

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output	
30 mm - Embeddable, eurofast® Connector 	BCC10-S30-AP4X-H1141	M2503038	Low Dielectric Targets	10	10	3-Wire DC PNP	
	BCC10-S30-RP4X-H1143	M1542562	Low Dielectric Targets	10	10		3-Wire DC PNP N.C.
	BC10-S30-VN4X-H1141	M2506010	Comp. Outputs	10	15	4-Wire DC NPN	
	BCF10-S30-VN4X-H1141	M2506016	Noise Immune	10	15		
	BC10-S30-VP4X-H1141	M2506100	Comp. Outputs	10	15	4-Wire DC PNP	
	BCC10-S30-VP4X-H1141	M2503043	Low Dielectric Targets	10	10		
	BCF10-S30-VP4X-H1141	M2506117	Noise Immune	10	15		
	30 mm - Embeddable, microfast® Connector 	BC10-S30-AZ3X-B3131	M2310710		10	15	2-Wire AC N.O.
		BCF10-S30-AZ3X-B3131	M2506012	Noise Immune	10	15	
		BC10-S30-RZ3X-B3131	M2310810			10	15
BCF10-S30-RZ3X-B3131		M2506014	Noise Immune	10	15		

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	End Cap Material	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4T-*	5	Diagram 1
	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4T-*	6	Diagram 2
10-65 VDC	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	1	Diagram 3
	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	2	Diagram 4
	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	2	
	100	≤200	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	RK 4.4T-*	2	
20-250 VAC	20	≤500	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	KB 3T-*	3	Diagram 5
	20	≤500	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	KB 3T-*	3	
20-250 VAC	20	≤500	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	KB 3T-*	4	Diagram 6
	20	≤500	-25 to +70	IP67	PA12-GF30	PA 66-GF25-V0	N/A	YE	KB 3T-*	4	

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
30 mm - Embeddable, Potted-In Cable 	BCC10-S30-AP4X	M2503037	Low Dielectric Targets	10		3-Wire DC PNP
	BC10-S30-VN4X	M2506000	Comp. Outputs	10	15	4-Wire DC NPN
	BCF10-S30-VN4X	M2506011	Noise Immune	10	15	
	BC10-S30-VP4X	M2506110	Comp. Outputs	10	15	4-Wire DC PNP
	BCF10-S30-VP4X	M2506111	Noise Immune	10	15	
	BC10-S30-AZ3X	M2310700		10	15	2-Wire AC
BCF10-S30-AZ3X	M2506015	Noise Immune	10	15		
	BC10-S30-Y1X	M2010000		10	15	2-Wire DC NAMUR
30 mm - Embeddable, Potted-In Cable 	BC10-PT30-VN4X2	M2507020	Chemical Resistant	10	15	4-Wire DC NPN
	BC10-PT30-VP4X2	M2507010	Chemical Resistant	10	15	4-Wire DC PNP
	BC10-PT30-AZ3X	M2350001	Chemical Resistant	10	15	2-Wire AC
	BC10-PT30-Y0X	M2020000	Chemical Resistant	10	15	2-Wire DC NAMUR
30 mm - Embeddable, Terminal Chamber 	BC10-P30SR-VN4X2	M2505100	Comp. Outputs	10	15	4-Wire DC NPN
	BC10-P30SR-VP4X2	M2505000	Comp. Outputs	10	15	4-Wire DC PNP
	BC10-P30SR-VP4X2/S359-2M	M2505001	Comp. Outputs	10	15	

"/S359" designates Capacitive sensor with external potentiometer located on 2 meter cable.

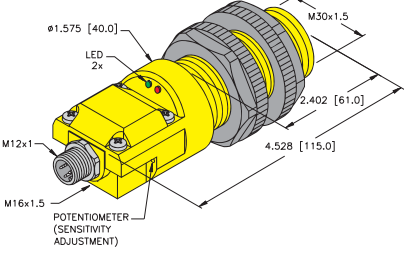
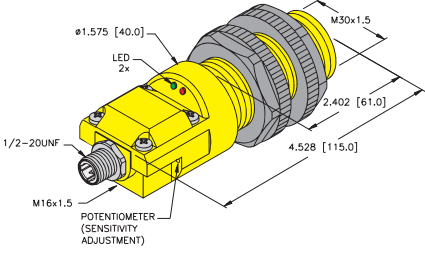
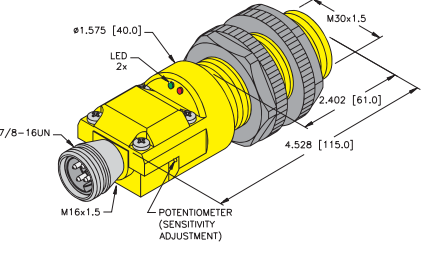
Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	End Cap Material	Power LED	Output LED	Cable Length/ Material	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	7	Diagram 1
10-65 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	1	Diagram 2
	100	≤200	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	1	
10-65 VDC	100	≤200	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	2	Diagram 3
	100	≤200	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	2	
20-250 VAC	20	≤500	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	3	Diagram 4
	20	≤500	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	3	
5-30 VDC	100	N/A	-25 to +70	IP67	PA 12-GF30	PA 66-GF25-V0	N/A	YE	2M/PVC	4	Diagram 5
10-65 VDC	100	≤200	-25 to +70	IP67	PVDF	PVDF	GN	YE	2M/PVDF	1	Diagram 6
10-65 VDC	100	≤200	-25 to +70	IP67	PVDF	PVDF	GN	YE	2M/PVDF	2	Diagram 7
20-250 VAC	20	≤500	-25 to +70	IP67	PVDF	PVDF	N/A	YE	2M/PVDF	3	Diagram 8
5-30 VDC	100	Remote	-25 to +70	IP67	PVDF	PVDF	N/A	YE	2M/PVDF	4	Diagram 9
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	- - - -	5	Diagram 10
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	- - - -	6	Diagram 11
	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	- - - -	6	

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
30 mm - Embeddable, eurofast® Connector 	BC10-P30SR-VN4X2-H1141	M2505192	Comp. Outputs	10	15	4-Wire DC NPN
	BC10-P30SR-VP4X2-H1141	M2505094	Comp. Outputs	10	15	4-Wire DC PNP
30 mm - Embeddable, microfast® Connector 	BC10-P30SR-FZ3X2-B3131	M2310491	Comp. Outputs	10	15	2-Wire AC
30 mm - Embeddable, minifast® Connector 	BC10-P30SR-VN4X2-B1141	M2505191	Comp. Outputs	10	15	4-Wire DC NPN
	BC10-P30SR-VN4X2-B2141	M2505193	Comp. Outputs	10	15	
	BC10-P30SR-VP4X2-B1141	M2505092	Comp. Outputs	10	15	4-Wire DC PNP
	BC10-P30SR-VP4X2-B2141	M2505093	Comp. Outputs	10	15	
	BC10-P30SR-FZ3X2-B1131	M2310490	Comp. Outputs	10	15	2-Wire AC
	BC10-P30SR-FZ3X2-B2131	M2310493	Comp. Outputs	10	15	

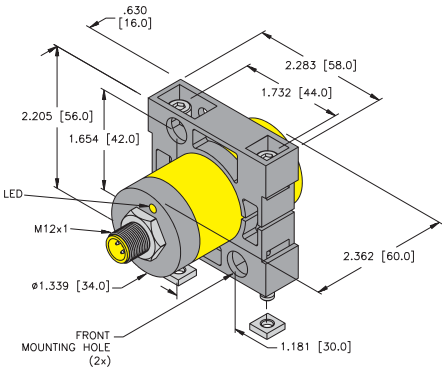
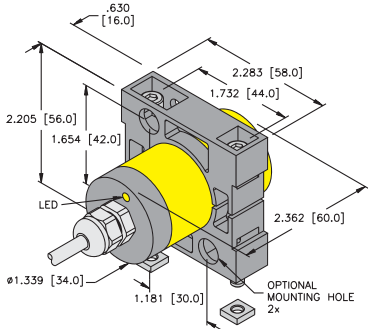
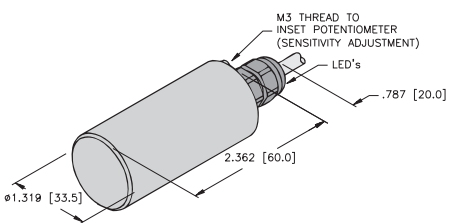
Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Materials	End Cap Materials	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	RK 4.4T-*	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	RK 4.4T-*	2	<p>Diagram 2</p>
20-250 AC	200	≤500	-25 to +70	IP67	ABS	ABS	GN	YE	KB 3T-*	3	<p>Diagram 3</p>
20-250 AC	200	≤500	-25 to +70	IP67	ABS	ABS	GN	YE	KB 3T-*	3	<p>Diagram 3</p>
	200	≤500	-25 to +70	IP67	ABS	ABS	GN	YE	KB 3T-*	3	<p>Diagram 3</p>
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	RKM 40-*M	4	<p>Diagram 4</p>
	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	RK 40-*M	4	<p>Diagram 4</p>
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	RKM 40-*M	5	<p>Diagram 5</p>
	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	RK 40-*M	5	<p>Diagram 5</p>
20-250 AC	20	≤500	-25 to +70	IP67	ABS	ABS	GN	YE	RKM 30-*M	6	<p>Diagram 6</p>
	20	≤500	-25 to +70	IP67	ABS	ABS	GN	YE	RK 30-*M	6	<p>Diagram 6</p>

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
34 mm - Embeddable, eurofast® Connector 	BC15-K34-AN4X-H1141	M2502125		15	23	3-Wire DC NPN
	BC15-K34-AP4X-H1141	M2502126		15	23	3-Wire DC PNP
34 mm - Embeddable, Potted-In Cable 	BC15-K34-VN4X	M2502127	Comp. Outputs	15	23	4-Wire DC NPN
	BC15-K34-VP4X	M2502124	Comp. Outputs	15	23	4-Wire DC PNP
	BC15-K34-AZ3X	M2310008		15	23	2-Wire AC
	BCF15-K34-AZ3X	M2502136	Noise Immune	15	23	
34 mm - Nonembeddable, Potted-In Cable 	NC20-KT34-VN4X2	M2550100	Chemical Resistant Comp. Output	N/A	20	4-Wire DC NPN
	NC20-KT34-VP4X2	M2550300	Chemical Resistant Comp. Output	N/A	20	4-Wire DC PNP

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	End Cap Material	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	ABS	N/A	YE	RK 4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	ABS	N/A	YE	RK 4T-*	2	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	ABS	N/A	YE	2M/PVC	3	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	ABS	N/A	YE	2M/PVC	4	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
20-250 VAC	20	≤500	-25 to +70	IP67	PBT-GF30-V0	ABS	N/A	YE	2M/PVC	5	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
10-65 VDC	200	≤200	-25 to +70	IP67	PVDF	PVDF	GN	YE	2M/PVDF	3	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>
10-65 VDC	200	≤200	-25 to +70	IP67	PVDF	PVDF	GN	YE	2M/PVDF	4	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p> <p>Diagram 4</p> <p>Diagram 5</p>

* Length in meters.

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Level Sensors - Capacitive



Housing Style	Part Number	ID Number	Features	Embeddable Range (mm)	Nonembed. Range (mm)	Output
34 mm - Embeddable, Terminal Chamber <p>Dimensions: .630 [16.0], 2.283 [58.0], 1.732 [44.0], 2.205 [56.0], 1.654 [42.0], 1.969 [50.0], 4.173 [106.0], 1.181 [30.0], 2.283 [58.0], 1.732 [44.0], 1.969 [50.0], 4.173 [106.0], 1.181 [30.0].</p> <p>Features: LED (2x), POTENTIOMETER - (SENSITIVITY ADJUSTMENT) ø1.575 [40.0], OPTIONAL MOUNTING HOLE (2x) M16x1.5, ø1.339 [34.0].</p>	BC15-K34SR-VN4X2	M2502128	Comp. Outputs	15	23	4-Wire DC NPN
	BC15-K34SR-VP4X2	M2502129	Comp. Outputs	15	23	4-Wire DC PNP
	BC15-K34SR-FZ3X2	M2310009	Prog. Outputs	15	23	2-Wire AC
40 mm - Embeddable, Terminal Chamber <p>Dimensions: .630 [16.0], 2.559 [65.0], 1.870 [47.5], 1.969 [50.0], 2.165 [55.0], 3.543 [90.0], 1.870 [47.5], 2.559 [65.0], 1.969 [50.0], 2.165 [55.0], 3.543 [90.0].</p> <p>Features: M5x0.8x50 SOCKET HEAD CAP SCREW 2x, LED 2x, ø1.575 [40.0].</p>	BC20-K40SR-VN4X2	M2510100	Comp. Outputs	20	30	4-Wire DC NPN
	BC20-K40SR-VP4X2	M2510000	Comp. Outputs	20	30	4-Wire DC PNP
	BC20-K40SR-FZ3X2	M2310300	Prog. Outputs	20	30	2-Wire AC

Level Sensors - Capacitive

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection Class	Housing Material	End Cap Material	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	ABS	GN	YE	- - - -	1	<p>Diagram 1</p>
10-65 VDC	100	≤200	-25 to +70	IP67	PBT-GF30-V0	ABS	GN	YE	- - - -	2	<p>Diagram 2</p>
20-250 VAC	20	≤500	-25 to +70	IP67	PBT-GF30-V0	ABS	GN	YE	- - - -	3	<p>Diagram 3</p> <p>-OR-</p>
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	- - - -	1	
10-65 VDC	100	≤200	-25 to +70	IP67	ABS	ABS	GN	YE	- - - -	2	
20-250 VAC	20	≤500	-25 to +70	IP67	ABS	ABS	GN	YE	- - - -	3	

Capacitive

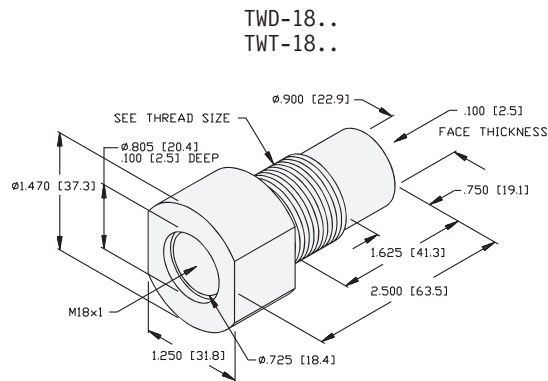
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Level Sensors - Capacitive

Tank Wells

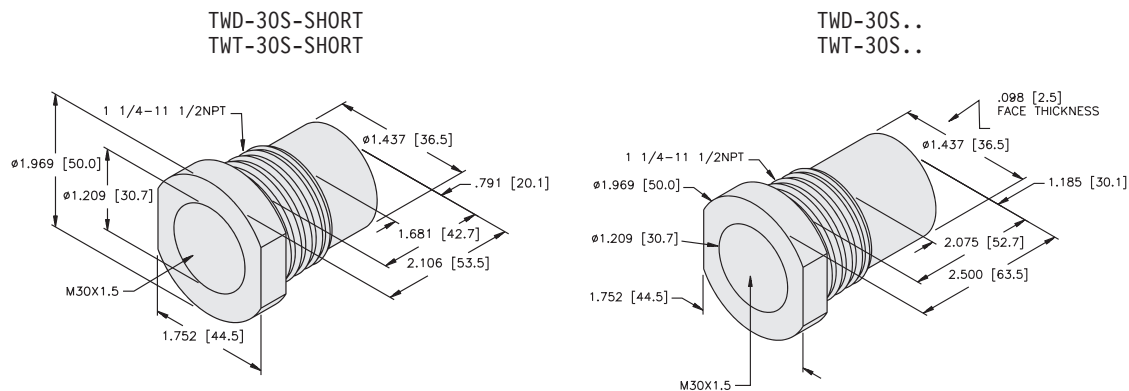
Part Number	ID Number	Material	Thread Size	Drill Size	Application
TWD-18S	A5055	Delrin	3/4-14 NPT	59/64	18 mm threaded capacitive sensors for liquid level sensing
TWT-18S	A5050	PTFE	3/4-14 NPT	59/64	18 mm threaded capacitive sensors for liquid level sensing
TWD-18S-1NPT	A5057	Delrin	1-11 1/2 NPT	1-5/32	18 mm threaded capacitive sensors for liquid level sensing
TWT-18S-1NPT	A5056	PTFE	1-11 1/2 NPT	1-5/32	18 mm threaded capacitive sensors for liquid level sensing

Pressure Rating: 150 psi
Inches [mm]



Part Number	ID Number	Material	Thread Size	Drill Size	Application
TWT-30S-SHORT	A5062	PTFE	1 1/4-11 1/2 NPT	1 1/2	30 mm threaded capacitive sensors for liquid level sensing
TWD-30S-SHORT	A5063	Delrin	1 1/4-11 1/2 NPT	1 1/2	30 mm threaded capacitive sensors for liquid level sensing

Pressure Rating: 150 psi
Inches [mm]

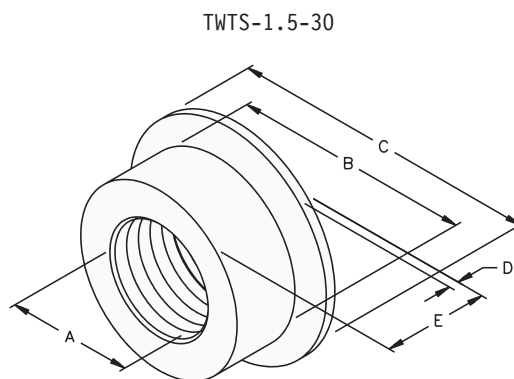


Level Sensors - Capacitive

Sight Glass Mounts

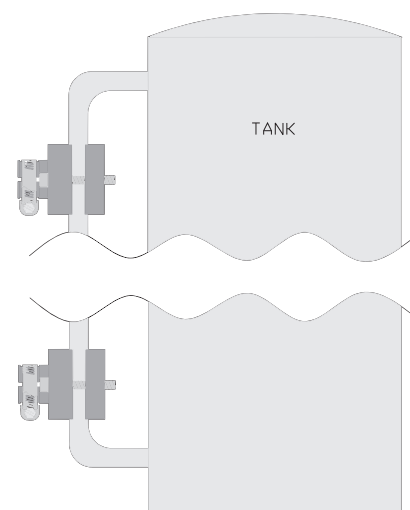
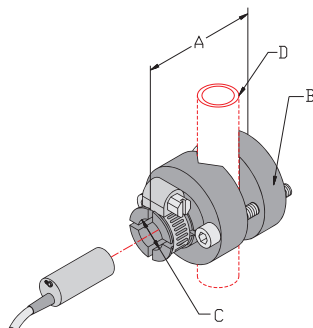
Part Number	ID Number	Dimensions			
		A	B	C	D
TWTS-1.5-30	A5077	M30x1.5	1.500 [38.1]	1.984 [50.4]	1.000 [25.4]
TWTS-2-30	A5076	M30x2.0	2.008 [51.0]	2.520 [64.0]	1.000 [25.4]

Material: PTFE
Inches [mm]



Part Number	ID Number	Dimensions			
		A	B	C	D
TSG-12	A2500	1.75 [44.5]	1.25 [31.8]	12 mm (threaded or non-threaded)	0.37-0.81 [9.40-20.6]
TSG-18	A2501	1.90 [48.3]	1.48 [37.5]	18 mm (threaded or non-threaded)	0.63-1.12 [16.0-28.4]
TSG-30	A2502	3.45 [87.6]	2.00 [50.8]	30 mm (threaded or non-threaded)	1.00-1.75 [25.4-44.5]

Material: Delrin
Inches [mm]



Capacitive

Notes:

Ultrasonics Selection Guide



Embeddable/Nonembeddable Rectangular			
Housing	18 mm	18 mm	30 mm
Sensing Range	20-70 mm	30-100 mm	300 mm
Pages	H9	H11	H13



Embeddable/Nonembeddable Barrels		
Housing	30 mm	40 mm
Sensing Range	100 mm	100 mm
Pages	H15	H15

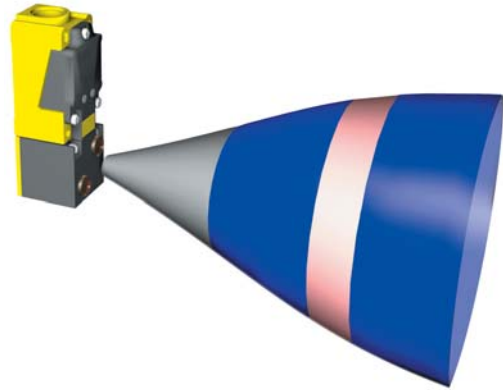


TURCK

Ultrasonics

Principle of Operation

The sensor emits an ultrasonic pulse that reflects back from any object entering the sonic cone. Because sound has a constant velocity at a given temperature and humidity, the time taken for this echo to return to the sensor is directly proportional to the distance of the object. The sensor's output status is dependent on the comparison of this time with the setting of the detection zone.



Medium

TURCK ultrasonic transducers are calibrated for use in air. The sensors can also be used in other gaseous media with a corresponding change in sensing range.

Targets

Solid, fluid, granular and powdery targets can be detected by TURCK ultrasonic sensors.

The **variations** of an "ideal" target should not exceed 0.15 mm (.006 in). Larger surface variations allow for larger alignment variations but may reduce sensing range.

Target **temperature** affects the sensing range in that hot surfaces reflect sonic waves less than cold ones.

The ultrasonic reflectivity of **liquid surfaces** is the same as that of solid, flat objects. Correct alignment should be observed.

Textiles, foams, wool, etc. absorb sonic waves, thereby reducing the sensing range.

Air pressure

Normal atmospheric pressure changes of $\pm 5\%$ (at a fixed reference point) can cause a $\pm 6\%$ deviation in sensing range.

Air temperature and humidity

Both air temperature and humidity influence the sonic pulse duration. An air temperature increase of 20°C (68°F) results in a $+3.5\%$ change in sensing distance for M18, M30 or Q30 styles and $+8\%$ for CP40s.

An increase in humidity results in an increased sound speed (max. 2%) compared with dry air.

Air streams

Air streams affect the echo propagation time, but the effects of air flow speeds of up to 10 m/s are negligible. The use of ultrasonic sensors is not recommended in turbulent areas such as above glowing metal because the sonic waves become distorted, making the echos difficult to evaluate.

Dewing

Normal concentrations of rain or snow falling in front of the sensor do not affect sensor operation.

CP40 transducers are not protected against wetting. All other ultrasonic sensors are not damaged by water, but correct functionality may be impaired when wet. Therefore, the transducers should not be subjected to direct wetting during use.

Ultrasonics

Sensor styles

M18, M30 & Q30: These sensor styles have one transducer that functions both as emitter and receiver, which results in a larger blind zone. They have a narrow sonic cone (6°) and are especially suited for detection of small objects in a small area at a long distance.

CP40: These sensor styles have two transducers - one emitter and one receiver - which results in a smaller blind zone. They have a wide sonic cone (60°). The wide cone angle allows for a greater angle of inclination for the target. CP40 style sensors are especially suited for detecting objects in a large area.



Simultaneous operation of several sensors

When several ultrasonic sensors are used, mutual interference of the sonic cones may arise. To eliminate this problem, some of the sensors have synchronization and multiplexing features. For those sensors without these features maintaining a minimum distance between sensors will also solve this problem.

Synchronization

Synchronization of ultrasonic sensors causes the sensors to emit their sonic pulses simultaneously. Using RUC...M30, RU..-Q30 or RU..-M18 sensors, up to six sensors may be synchronized by tying their X1 lines.

Multiplexing

Multiplexing the sensors causes them to emit their pulses at pre-defined intervals, independent of one another. This eliminates the possibility of mutual interference and of sensors seeing targets that are actually in front of other sensors. The more sensors that are operated alternately, the lower the switching frequency.

The X1 line of sensors RUC..-M30, RU..-Q30 and RU..-M18 can be used as an enable input for multiplexing purposes. An X1 input of +24 V enables the sensor while an X1 input of 0 V disables it. Multiplexing via the X1 line instead of by powering down the sensors has the advantage that only the response time has to be considered and not the time delay before availability.

TURCK Ultrasonics

Range adjustments

M30 and CP40 style sensors have two potentiometers to enable both foreground and background suppression. Q30 and discrete M18 style sensors have one potentiometer to enable background suppression only.

Analog M18 sensors have a fixed range.

Sensing ranges given are at nominal conditions, i.e. $T_u = +20^{\circ}\text{C}$ (68°F) using a standard target, vertically aligned, with reflective surface (metal, 1 mm thick).

Sensors with two switch points

RUC...2AP8X - the potentiometers on these sensors set the far limits of each detection zone.

Potentiometer S1 sets the far limit of Zone 1, which begins at the end of the blind zone.

Potentiometer S2 sets the far limit of Zone 2, which begins at the far limit of Zone 1 (Figure 1).

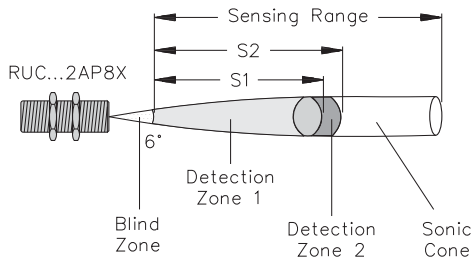


Figure 1

Sensors with one switch point

CP40 - potentiometer S1 sets the near limit while potentiometer S2 sets the depth of the detection zone. This allows both foreground and background suppression. Changes to S1 will cause the far limit to follow (Figure 2).

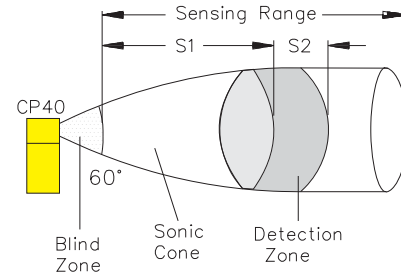


Figure 2

Q30 and discrete M18 - one potentiometer sets the far limit of the detection zone. The near limit is not adjustable, and is determined by the blind zone. This allows for background suppression only (Figure 3).

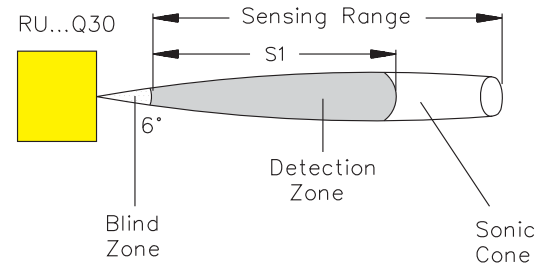


Figure 3

M30 - potentiometers S1 and S2 set the near and far limits of the detection zone. This allows for foreground and background suppression. The pots are independent of each other (Figure 4).

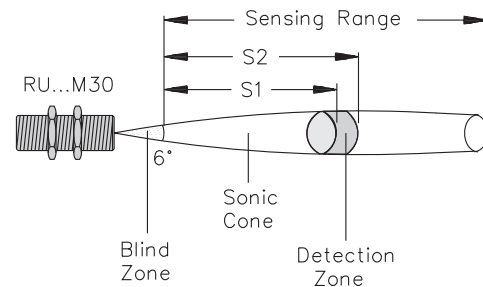
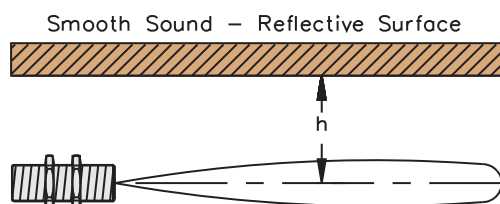
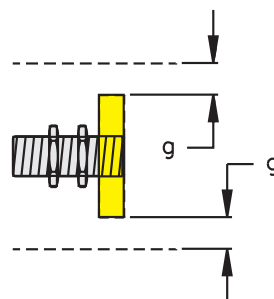
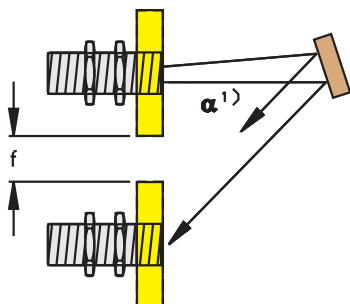
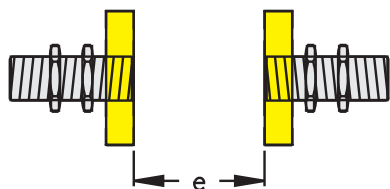


Figure 4

Mounting Considerations



Sensor Type	e (cm)	f (cm)	g (cm)	h (cm)
RU20-M18K-	80	6	3	1.5
RU70-M18K-	280	18	10	5.0
RUN20-M18K	80	6	3	1.5
RUN70-M18K-	280	18	10	5.0
RUR20-M18K-	80	6	3	1.5
RUR70-M18K-	280	18	10	5.0
RU20-M18KS-	80	6	3	1.5
RU70-M18KS-	280	18	10	5.0
RUN20-M18KS-	80	6	3	1.5
RUN70-M18KS-	280	18	10	5.0
RUR20-M18KS-	80	6	3	1.5
RUR70-M18KS-	280	18	10	5.0
RU 30-M18-	≥120	≥15	≥6	≥3
RU100-M18-	≥400	≥60	≥30	≥15
RU 30-M30-	≥120	≥15	≥6	≥3
RU100-M30-	≥400	≥60	≥30	≥15

Ultrasonic Sensor Part Number Key

RUC 130 - M 30 - 2 A P 8 X **Wiring Options**

Mounting

RU(C) = Ultrasonic Sensor
RUM = Ultrasonic Sensor
RUR = Ultrasonic Sensor

Rated Operating Distance (cm)

Housing Style

Barrel - Metal

M = Partial Threading, Chrome Plated Brass

Rectangular

Q = Metal or Plastic, Various Rectangular Styles

Limit Switch

CP = **combiprox**®, Plastic Housing, Terminal Chamber Base with Removable Sensor

Number of LEDs

Examples:

Blank = No LEDs
X2 = 2 LEDs

Voltage Range

DC:

6 = 10-30 VDC, Polarity Protected, Pulsed SCP
8 = 20-30 VDC, Polarity Protected, Pulsed SCP
LI = 20-30 VDC
LIU = 15-30 VDC
LU = 18-30 VDC

Output

N = NPN Transistor (Current Sinking)
P = PNP Transistor (Current Sourcing)

Output Function

A = Normally Open (N.O.)
LI(LU) = Linear Analog Output Current (LI) or Voltage (LU)
LIU = Linear Analog Output (Current and Voltage)
LFX = Analog Frequency Output

Number of Switch Points

Secondary Barrel Modifier

K = Short Barrel Length
S = Side Sensing

Housing Diameter/Height (mm)

A) Connectorized Sensor

RUC 130-M30-2AP8X-**H1 1 5 1**

Connector Family

H1 = *euromast*®, Metal or Plastic, Male

Number of LEDs

Example:
1 = Standard

Number of Pins

Connector / Sensor Transition

1 = Straight



Housing Style	Part Number	ID Number	Sensor Operating Mode	Rated Oper. Distance (cm)	Adjustment Method	Sonic Cone Angle	Output	
18 mm - Embeddable, Barrel Style eurofast® Connection 	RUN20-M18K-AP8X-H1141	M1830034	D	5-20	Teach Input	6°	4-Wire DC PNP	
	RUN70-M18K-AP8X-H1141	M1830035	D	15-70	Teach Input	6°		
	RUR20-M18K-AP8X-H1141	M1830036	R	7-20	Teach Input	6°		
	RUR70-M18K-AP8X-H1141	M1830037	R	20-70	Teach Input	6°		
		RU20-M18K-LFX-H1141	M1830030	D	5-20	Teach Input	6°	4-Wire DC 200-800 Hz 400-1600 Hz Frequency Output
		RU70-M18K-LFX-H1141	M1830031	D	15-70	Teach Input	6°	4-Wire DC 150-700 Hz 300-1400 Hz Frequency Output
	18 mm - Embeddable, Side Sensing, Barrel Style eurofast connection 	RUN20-M18KS-AP8X-H1141	M1830038	D	5-20	Teach Input	6°	4-Wire DC PNP
RUN70-M18KS-AP8X-H1141		M1830039	D	15-70	Teach Input	6°		
RUR20-M18KS-AP8X-H1141		M1830040	R	7-20	Teach Input	6°		
RUR70-M18KS-AP8X-H1141		M1830041	R	20-70	Teach Input	6°		
		RU20-M18KS-LFX-H1141	M1830032	D	5-20	Teach Input	6°	4-Wire DC 200-800 Hz 400-1600 Hz Frequency Output
		RU70-M18KS-LFX-H1141	M1830033	D	15-70	Teach Input	6°	4-Wire DC 150-700 Hz 300-1400 Hz Frequency Output

Sensor operating mode:

D = Diffused

R = Retro-reflective

Adjustment method:

Pot. = Potentiometer

* 4-wire DC sensors can be programmed with a VB2-SP2 programming kit.

Ultrasonics

Voltage	Switching Freq. (Hz)	Continuous Load Current (mA)	Operating Temp. (°C)	Protection	Housing	Transducer	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-30 VDC	10	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	<p>Diagram 1</p> <p>Teach Input</p> <p>Diagram 2</p> <p>Frequency Input</p>
	5	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
	10	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
	5	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
20-30 VDC	N/A	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	2	
20-30 VDC	N/A	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	2	
20-30 VDC	10	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
	5	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
	10	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
	5	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
20-30 VDC	N/A	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	2	
20-30 VDC	N/A	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	2	

* Length in meters.



Housing Style	Part Number	ID Number	Sensor Operating Mode	Rated Oper. Distance(cm)	Adjustment Method	Sonic Cone Angle	Output
18 mm - Embeddable, eurofast® Connection 	RU100-M18-AP8X-H1141	M1810200	D	15-100	Pot.	6°	4-Wire DC PNP
	RU30-M18-AP8X-H1141	M1810000	D	5-30	Pot.	6°	
	RU100-M18-LIX-H1141	M1810205	D	15-100	Pot.	6°	4-Wire DC PNP Analog 4-20 mA
	RU30-M18-LIX-H1141	M1810005	D	5-30	Pot.	6°	
30 mm - Embeddable, eurofast Connection 	RU100-M30-AP8X-H1141	M1830200	D	15-100	Pot.	6°	3-Wire DC PNP
	RU30-M30-AP8X-H1141	M1830000	D	6-30	Pot.	6°	
	RUC130-M30-LIAP8X-H1151	M1840230	D	20-130	Pot.	6°	5-Wire DC PNP Analog 4-20 mA
	RUC130-M30-2AP8X-H1151	M1840220	D	20-130	Pot.	6°	5-Wire DC PNP
RU30-M30-2AP8X-H1151	M1840020	D	6-30	Pot.	6°		

Sensor operating mode:

D = Diffused

R = Retro-reflective

Adjustment method:

Pot. = Potentiometer

4-wire DC sensors can be programmed with a RU-PDI programming kit.

Ultrasonics

Voltage	Switching Freq. (Hz)	Continuous Load Current (mA)	Operating Temp. (°C)	Protection	Housing	Transducer	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-30 VDC	4	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	Diagram 1
	5	≤150	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	1	
20-30 VDC	N/A	≤300	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	2	Diagram 2
	N/A	≤300	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RK 4.4T-*	2	
20-30 VDC	4	≤300	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RKK 4.4T-*	1	Diagram 3
	8	≤300	-25 to +70	IP 67	NPB	E/PU/PBT	N/A	YE	RKK 4.4T-*	1	
20-30 VDC	4	≤300	-25 to +70	IP 65	NPB	E/PU/PBT	GN	YE	RKK 4.5T-*	4	Diagram 3
20-30 VDC	4	≤300	-25 to +70	IP 65	NPB	E/PU/PBT	N/A	YE	RKK 4.5T-*	3	Diagram 4
	8	≤300	-25 to +70	IP 65	NPB	E/PU/PBT	N/A	YE	RKK 4.5T-*	3	

* Length in meters.



Housing Style	Part Number	ID Number	Sensor Operating Mode	Rated Oper. Distance(cm)	Adjustment Method	Sonic Cone Angle	Output
47 mm - Embeddable, eurofast® Connection 	RUC300-M3047-AP8X-H1141	M1840400	D	40-300	Pot.	6°	4-Wire DC PNP
	RUC300-M3047-2AP8X-H1151	M1840420	D	40-300	Pot.	6°	5-Wire DC PNP

Sensor operating mode:

D = Diffused

R = Retro-reflective

Adjustment method:

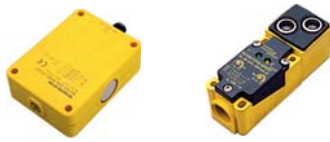
Pot. = Potentiometer

4-wire DC sensors can be programmed with a RU-PDI programming kit.

Ultrasonics

Voltage	Switching Freq. (Hz)	Continuous Load Current (mA)	Operating Temp. (°C)	Protection	Housing	Transducer	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-30 VDC	2	≤300	-25 to +70	IP 65	CPB	E/PU/PBT	N/A	YE	RKK 4.4T-*	1	<p>Diagram 1</p>
20-30 VDC	2	≤300	-25 to +70	IP 65	CPB	E/PU/PBT	N/A	YE	RKK 4.5T-*	2	<p>Diagram 2</p>

* Length in meters.



Housing Style	Part Number	ID Number	Sensor Operating Mode	Rated Oper. Distance(cm)	Adjustment Method	Sonic Cone Angle	Output
30 mm - Embeddable, Rectangular, eurofast® Quick Disconnect 	RU100-Q30-AP8X-H1141	M1820200	D	20-100	Pot.	6°	4-Wire DC PNP
	RU100-Q30-LUX-H1141	M1820205	D	20-100	Pot.	6°	4-Wire Analog 0-10 V Voltage
40 mm - Embeddable, Rectangular, Terminal Chamber 	RU100-CP40-AP6X2 W/ESD	M1610200	D	5-180	Pot.	60°	3-Wire DC PNP

Sensor operating mode:

D = Diffused

R = Retro-reflective

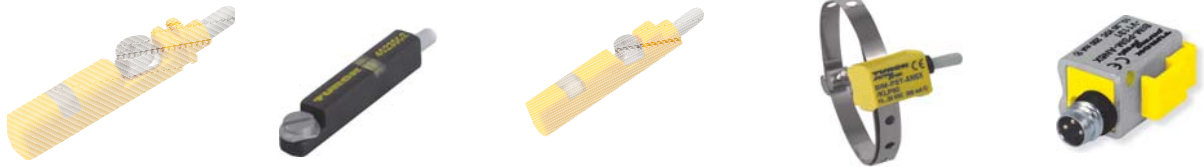
Ultrasonics

Voltage	Switching Freq. (Hz)	Continuous Load Current (mA)	Operating Temp. (°C)	Protection	Housing	Transducer	Power LED	Output LED	Mating Cordset/ Cable	Wiring Diagram #	Wiring Diagrams
18-35 VDC	5	≤100	-25 to +70	IP 65	Crastin	EPR	N/A	YE	RKK 4.4T-*	1	<p>Diagram 1</p>
18-35 VDC	N/A	≤100	-25 to +70	IP 65	Crastin	EPR	N/A	YE	RKK 4.4T-*	2	<p>Diagram 2</p>
10-30 VDC	3	≤200	-25 to +70	IP 67	PBT	EPR	GN	YE	- - - -	3	<p>Diagram 3</p>

* Length in meters.

Inductive Cylinder Position Sensors

Cylinder Sensor Selection Guide



Cylinder Position Sensors

Housing	UNT	INT	UNR	PST	PSM
Pages	J23-J26	J27	J29	J31	J31
Style of Cylinder					



Cylinder Position Sensors

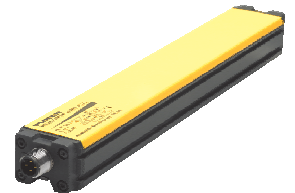
Inductive

Housing	IKM	A23	NST	CRS
Pages	J39	J39-J42	J43	J45-J48
Style of Cylinder				

Cylinder Sensor Selection Guide



Cylinder Position Sensors				
Housing	KST	QST	AKT	IKE/IKT
Pages	J33	J33	J35	J35 - J38
Style of Cylinder	○	○	⊙	⊙



World Clamp Sensors		Magnetic Analog		
Housing	M12	14.5 mm	20 mm	25 mm
Pages	J49-J52	J53	J55	J57
Style of Cylinder		⏏		
		○		

Cylinder

Wiring Options

A) Connectorized Sensor

BIM-IKT-AP6X- **B3 1 3 1**

Connector Family

- B1 = *minifast*®, Metal, Male
- B3 = *microfast*®, Metal, Male
- H1 = *eurofast*®, Metal or Plastic, Male
- V1 = *picofast*®, Metal, Male

Connector / Sensor Transition

1 = Straight

Factory Code

Example:
1 = Standard

Number of Pins

B) Potted Cable

BIM-IKT-AP6X- **7M**

Cable Length

Blank = 2 Meter cable
7M = 7 Meter cable

Special Option Codes

BIM-A23-ADZ30X2-B1131 **/S34**

Option Code

Example:
/S34 = Weld Field Immune
/S235 = Special Calibration

Cylinder

Inductive Cylinder Position Sensors

Cylinder Position Sensors “UNT” and “UNR” Styles

TURCK *permaprox*® cylinder position sensors are used for the detection of magnet equipped pistons on pneumatic and other types of cylinders. These non-contact sensors are able to determine the position of the cylinder piston without diminishing the integrity of the cylinder itself. This allows the sensors to operate without intruding upon the cylinder, keeping the system completely intact.

TURCK has taken the approach of using only two sensor styles along with various adapter brackets to fit each individual cylinder’s requirements. The “UNT” and “UNR” housings were designed to fit into specific grooves found in extruded profile type cylinders as stand alone devices without the need for any additional brackets. The UNT style was made to fit into a 5.2 mm “T” groove and the INR was made for use in a 4.0 mm round groove, neither requiring additional hardware for mounting. Both of these designs allow the sensor to be dropped in from above anywhere along the span of the cylinder.



Cylinder brackets allow TURCK sensors to mount on most cylinder styles including round, tie-rod, extruded profile groove and dovetail versions.

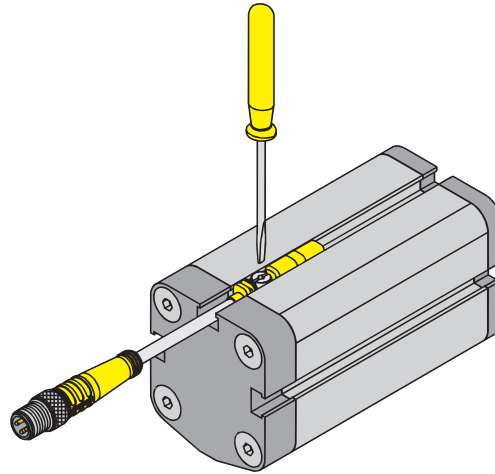


We translated this “drop in from the top” approach when designing the adapter brackets as well. By eliminating the need to slide the sensor in from the end of the cylinder it reduces installation time, alleviates the need for the cylinder to be disassembled, and allows for installation right on the floor without interrupting the operation of the cylinder.

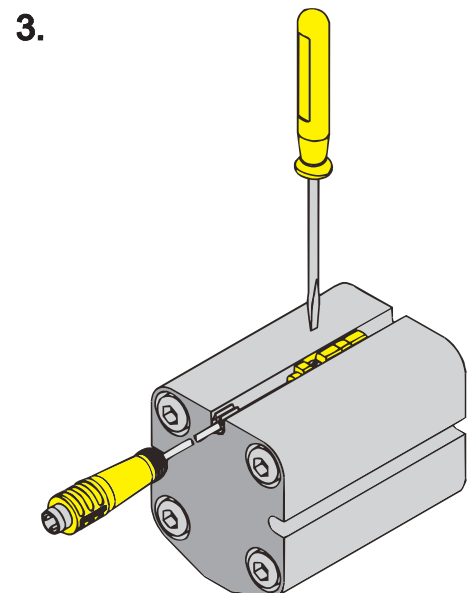
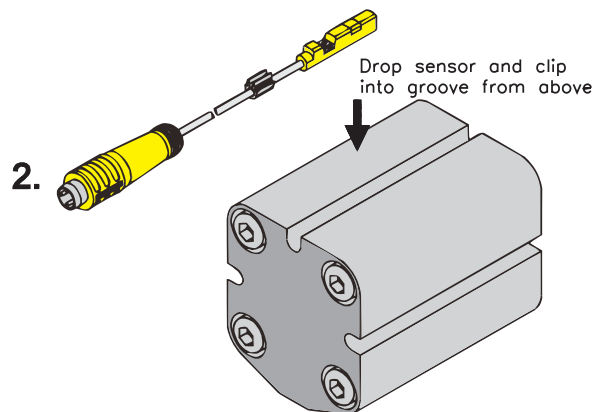
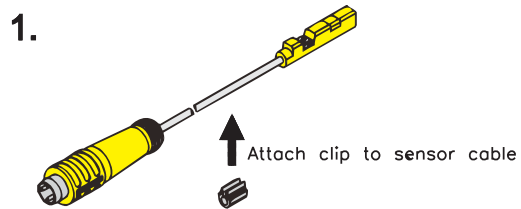
These sensors are manufactured using a plastic overmolding technology, which allows us to completely seal sensors into smaller packages without compromising on durability. Smaller sensors that are compact with very low profiles also reduce the chance of damage when mounted to the outside of the cylinder.



UNT Sensor Mounting



UNR Sensor Mounting



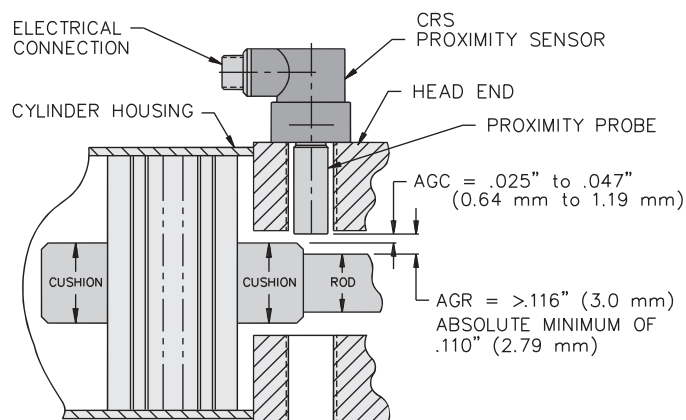
Cylinder

Note: Use of mounting clip is optional.

Inductive Cylinder Position Sensors

CRS Inductive Sensors

Figure 1



TURCK's **CRS** sensors are designed to be mounted into the head end or cap end of hydraulic and pneumatic cylinders. They operate at 1500 psi and mechanically withstand 3000 psi of continuous pressure.

AGC - Air Gap Cushion

This dimension is recommended to allow for mechanical tolerances and wear.

AGR - Air Gap Rod

The rod-to-cushion step must be large enough to allow the sensor to turn off when the piston leaves. If the step is too small, the sensor will lock-on due to the hysteresis of the sensor.

For more information on inductive sensors refer to the Operating Principles in Section B.

AGR - Air Gap Rod

The rod-to-cushion step must be large enough to allow the sensor to turn off when the piston leaves. If the step is too small, the sensor will lock-on due to the hysteresis of the sensor.

permaprox® Inductive Magnet Operated Sensors

TURCK's **permaprox** cylinder sensors are used for detection of magnet equipped pistons on pneumatic cylinders through an nonmagnetic cylinder wall.

A patented electronic magnetic circuit involving new state-of-the-art materials forms the basis of operation for these sensors.

The characteristics of this innovative technology have decided advantages over Hall effect switches and reed devices. Specific sensors no longer have to be matched to specific magnet strengths. Other features are extremely high repeatability and the elimination of multiple actuation points.

Figure 2

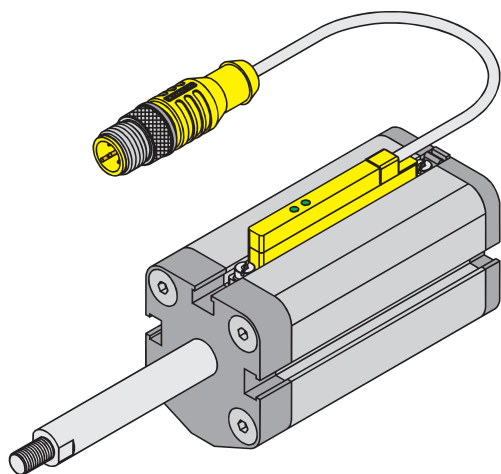
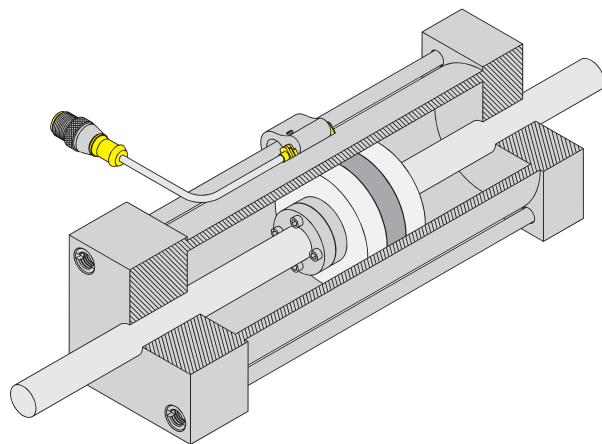


Figure 3

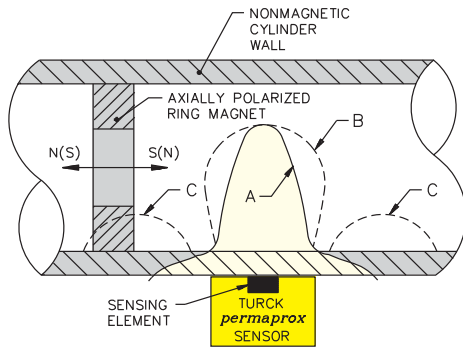
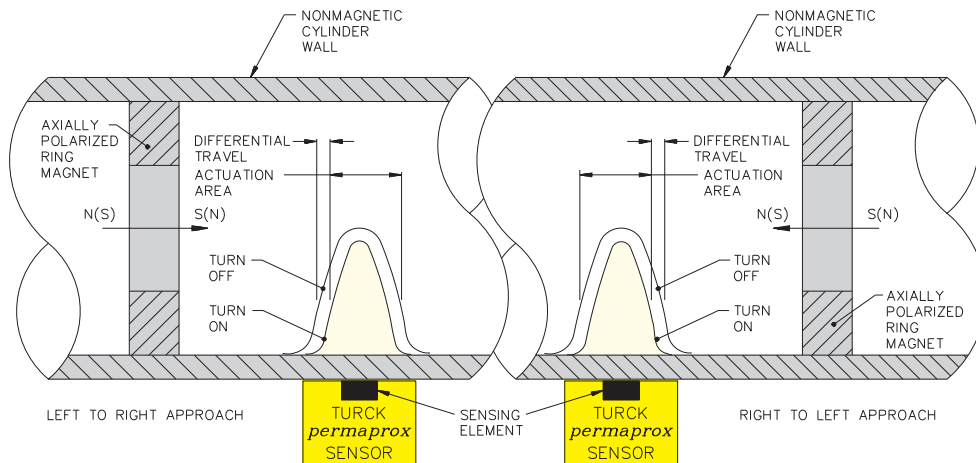


Figure 3 curve definitions:

- A) Typical actuation area of **permaprox**® sensors
- B) Typical primary actuation area for reed switches
- C) Typical secondary actuation area for reed switches

The **permaprox** sensors, unlike most magnet operated sensors, respond to only one component of magnetic induction, namely the component parallel to the cylinder. Figure 4 shows the typical actuation area of a **permaprox** sensor compared to that of reed switches. It is a common problem for reed switches to have more than one actuation area. Since these switches operate on a narrow range of magnetic field strengths, mismatching often causes multiple switching points. The **permaprox** sensors, however, reliably operate over a range of 20-350 gauss (2-35 mT).

Figure 4



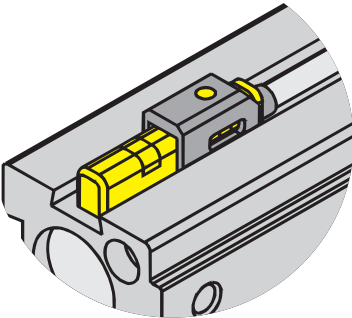
The actuation area will depend on the width and field strength of the magnet. As shown in **Figure 4**, the actuation point will differ depending on the direction of piston travel. These points are not the same, but are very repeatable.

permaprox® Weld Field Immunity


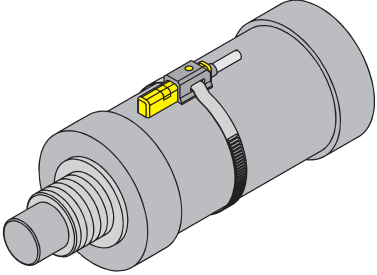
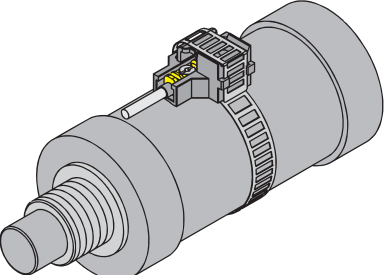
All TURCK **permaprox** sensors that have the "S34" suffix in the part number are resistant to AC weld fields. If the field is pulsing, as with AC resistance welders, the sensor locks the output in its last known stable state. When the pulsing field subsides, the sensor updates its output accordingly.

The sensors are not immune to constant magnetic fields, such as permanent magnets or DC resistance welders, and will change state.

Inductive Cylinder Position Sensors

Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket
Dovetail Style 	Numatics	B,F, Compact C), Short Stroke, Rotary Actuator, Pee Wee (O, P, Q), VDMA-V, Ring Series	UNT Style	KLDT-UNT3
	PHD	O, CVA, CVB, CVC	UNT Style	KLDT-UNT2
	Norgren	90000, 91000, 92000, 93000, Lite (A44000)	UNT Style	KLDT-UNT3
	Fabco-Air	Square 1 (SQ, SQF, SQL), Pancake (X,XK, O, OP, XDR, XDRK, ODR), Linear Slide ¹ (GB, L, S, E, SE, EZ, TS) ²	UNR Style	KLFA-2UNR
	Compact Air	Inch Series (AB, AS, AR, AT), Inch Series (B, R, S, T) ³ , Ball Slide (BSC), GC, CD, ACLA, ACLAD, (CLA, CLAD) ³ , Metric Series (AWS, AWB, AWT), Metric Series (WS, WB, WT) ³ , B/Base Mount, S/End Mount, R/ End Mount, (CSC, PSC, TCL) ⁴	UNT Style	KLDT-UNT4
	Turn-Act	Guided-Rod Series	UNT	KLDT-UNT5
	SMC	CP95	UNT	KLDT-UNT6

1. Some of these may also be equipped to handle 5, 8 or 12 mm inductive proximity sensors.
2. This Mounting is to be used only when "Dovetail Style Mounting Rail" is present on the cylinder.
3. These styles are usually not available with magnets.
4. This mounting is to be used only when "Sensor Mounting Rail" is present on the collet.


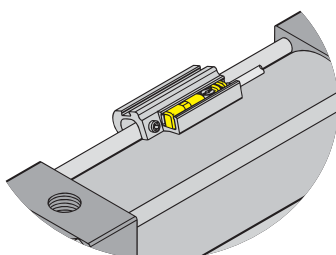

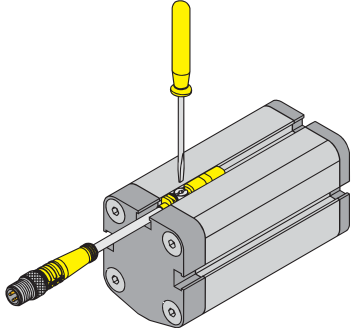
Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket	
<p>Round Style</p>   <p>KLDT w/ASB Strap (Table 1)</p>  <p>KLRC-UNT* (Table 2)</p>	Numatics	M	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLRC-2 with ASB Clamp ²	
	Parker	P, SRM, SRDM, XLT, XLR, XLB, (S, SRD) ³	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLR-2 with ASB Clamp ²	
	Festo	CRDG, CRDSNU, CRDSW, DSNU, DSNUL, DSEU, ESEU, ESNU, ESW, (DSN) ³	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLR-2 with ASB Clamp ²	
	Bimba	Original Line II (OL2), Original Line (M, MH, MNR, MC, MRS), Double Wall (DW, DWD, DWN, DWM), PC, Z Series (M04, M09, M17, M31), Linear Thrusters (T, TE)	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLR-2 with ASB Clamp ²	
	SMC	NCM, NCJ2, NCG, NCA1, CJ2, CM2, CG1, MGG	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLR-2 with ASB Clamp ²	
	Norgren	Round Line (RL)	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLR-2 with ASB Clamp ²	
	Fabco-Air	Pancake (X, XK, O, OP, XDR, XDRK, ODR), Linear Slide (L, S, E,)	UNT Style	KLRC-UNT* ⁴	KLDT with ASB clamp ²
			UNR Style	KLR-2 with ASB Clamp ²	

1. This mounting is to be used only when "Switch Rail" is present on the cylinder.
2. ASB size is determined by the cylinder diameter. See table 1. KLDT is required when BIM/UNT has integral quick disconnect.
3. This styles are usually not available with magnets.
4. Bracket size determined by the cylinder diameter. See table 2.

Cylinder Diameter		Clamp (Stainless Steel)
Inches	mm	
.276-.433	7-11 mm	ASB-1
.433-.748	11-19 mm	ASB-2
.709-1.142	18-29 mm	ASB-3
1.102-1.535	28-39 mm	ASB-4
1.496-1.929	38-49 mm	ASB-5
1.890-2.323	48-59 mm	ASB-6
2.283-2.717	58-69 mm	ASB-7
2.677-3.110	68-79 mm	ASB-8

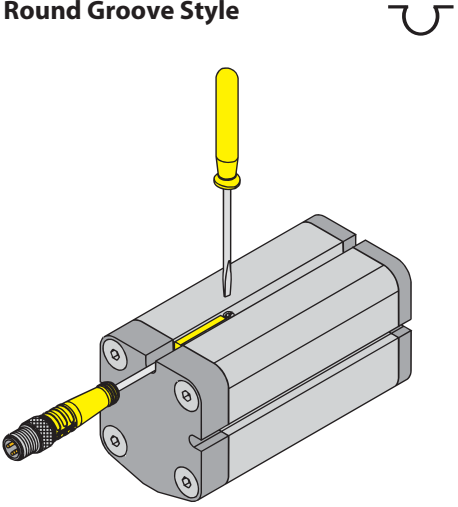
Part Number	Cylinder Diameter	
	Inches	mm
KLRC-UNT1	.315-.984	8-25
KLRC-UNT2	.984-2.480	25-63
KLRC-UNT3	2.480-5.118	63-130

Inductive Cylinder Position Sensors

Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket
<p>Tie Rod Style</p>   <p>KLZ* (Table 1)</p>	Numatics	A, E, S, L, B Square, VDMA-Z	UNT Style	KLZ Series Clamp ¹
	Parker	P5E, HBT, LPM, (S, C, LP) ²	UNT Style	KLZ Series Clamp ¹
	PHD	A2, A3, AS, AV, AV2, A3V, AVS, HV, HV2, H3V, HVS, DAV, DHV, EA, EL, EH, ES, NPG, NHG, NEAG, NEHG, TD, (A) ²	UNT Style	KLZ Series Clamp ¹
	Festo	DNGU, DNGUL, DNGUT, DNU, DNUL, CRDNG, CRDNGS, DNG, DNGL, DNGZK, DNGZL, DNGZS, DKE	UNT Style	KLZ Series Clamp ¹
	Bimba	Flat-I (F0, FOD, FOP, FOR, FOS, FS, FSD, FSR, FSS, F02, F03, F04, Flat-II (FT, FST)	UNT Style	KLZ Series Clamp ¹
	SMC	ECQ2, MB, C95	UNT Style	KLZ Series Clamp ¹
	Norgren	A, EA, SS, N, J, EJ, 8000/M	UNT Style	KLZ Series Clamp ¹
	Turn-Act	NFPA Series	UNT Style	KLZ Series Clamp ¹
	Fabco-Air	Long Stroke (321, 521, 721, 1221, S321, S521, S721, S1221), Hi-Power (HP, THP, UHP), Multi-Power (MP, BA, BP), Linear Slide ³ (SE, EZ, TS)	UNT Style	KLZ Series Clamp ¹
<p>"T" Groove Style</p>  	Parker	P1M, P5T, SST	UNT Style	No Additional Bracket Required
	Festo	DNC, DNCT, DFM, DPZ, DPZJ, DZF, EZH, ADVU, ADVULQ, ADVUL	UNT Style	No Additional Bracket Required
	SMC	CUJ, CXS, MGQ, MY1B, MHC, MHL2	UNT Style	No Additional Bracket Required

1. When using KLZ Series Clamps, user must determine clamp size best suited for application.
2. These styles are usually not available with magnets.
3. Some of these may be equipped to handle 5, 8 or 12 mm inductive proximity sensors.

Part Number	Tie Rod Diameter Maximum	
	Inches	mm
KLZ1A-INT	.236	6.0
KLZ1-INT	.295	7.5
KLZ2-INT	.374	9.5
KLZ3-INT	.433	11.0

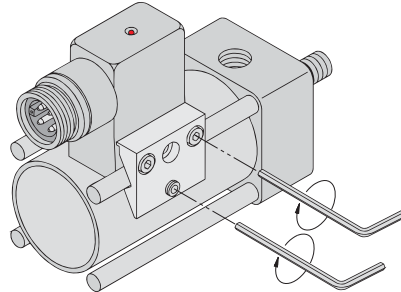
Drawing	Manufacturer	Cylinder Series	TURCK Sensor	TURCK Bracket
<p>Round Groove Style</p> 	Numatics	K	UNR Style	No Additional Bracket Required
	Festo	ADVC	UNR Style	No Additional Bracket Required
	Bimba	Twin Bore (TB, TBA, TBD), EF1 Series (EF, EFD, EFS, EFR), EF2 Series (EFT), PneuMoment Series (PM)	UNR Style	No Additional Bracket Required
	SMC	(CQ2, CQs, NCDQ2, NCQ2) ¹ , (CDQ2) ¹ , CU, CUK, CUW, MU, MHF2, Air Slides (MXQ)	UNR Style	No Additional Bracket Required
	Compact Air	B, C	UNR Style	No Additional Bracket Required
	PHD	CRH O Groove	UNR Style	No Additional Bracket Required

1. CQ2, NC(D)Q2, CQS, NCQ2 cylinders may have multiple grooves and may not all be suited for the INR.

Inductive Cylinder Position Sensors

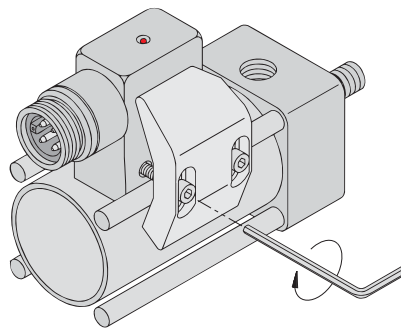
A23 Housing with KLU-1 Clamp

Cylinder Diameter	1.26 - 3.15 inches 32 - 80 mm
Rod Diameter	0.16 - 0.35 inches 4 - 9 mm
Clamp	KLU-1 (Aluminum)



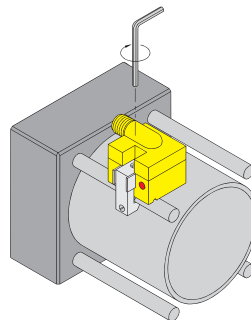
A23 Housing with KLU-2 Clamp

Cylinder Diameter	1.57 - 7.87 inches 40 - 200 mm
Rod Diameter	0.24 - 0.63 inches 6 - 16 mm
Clamp	KLU-2 (Die-cast Zinc)



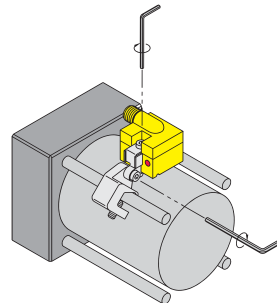
AKT Housing with KLA-1 Clamp

Cylinder Diameter	1.26 - 1.97 inches 32 - 50 mm
Rod Diameter	0.16 - 0.31 inches 4 - 8 mm
Clamp	KLA-1 (Aluminum)



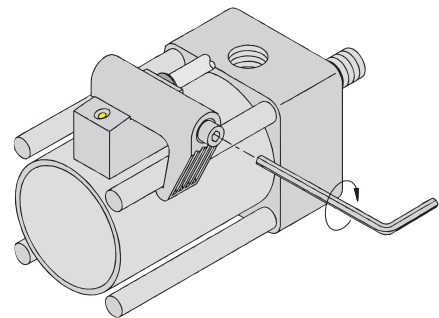
AKT Housing with KLA-2 Clamp

Cylinder Diameter	1.57 - 4.92 inches 40 - 125 mm
Rod Diameter	0.28 - 0.51 inches 7 - 13 mm
Clamp	KLA-2 (Die-cast Zinc)



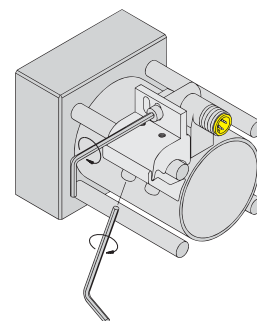
IKE, IKT and IKM Housing with KLI-1 or KLI-3 Clamp

Cylinder Diameter	1.26 - 3.94 inches 32 - 100 mm	2.48 - 6.30 inches 63 - 160 mm
Rod Diameter	0.16 - 0.51 inches 4 - 13 mm	0.24 - 0.63 inches 6 - 16 mm
Clamp	KLI-1 (Die-cast Zinc)	KLI-3 (Die-cast Zinc)



IKE, IKT and IKM Housing with KLI-5Z or KLI-6Z Clamp

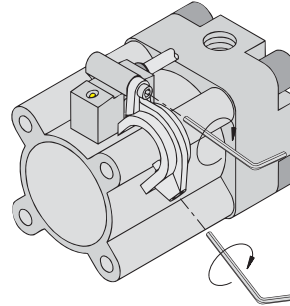
Cylinder Diameter	1.26 - 2.48 inches 32 - 63 mm	1.97 - 4.92 inches 50 - 125 mm
Rod Diameter	0.16 - 0.31 inches 4 - 8 mm	0.24 - 0.51 inches 6 - 13 mm
Clamp	KLI-5Z (Aluminum)	KLI-6Z (Aluminum)



Inductive Cylinder Position Sensors

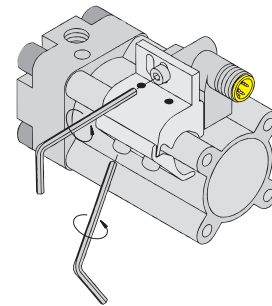
IKE, IKT and IKM Housing with KLI-2 Clamp

Cylinder Diameter	1.26 - 3.94 inches 32 - 100 mm
Rod Diameter	0.35 - 0.79 inches 9 - 20 mm
Clamp	KLI-2 (Die-cast Zinc)



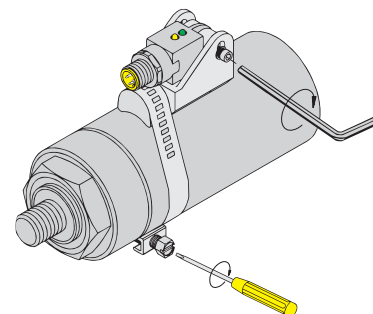
IKE, IKT and IKM Housing with KLI-5 or KLI-6 Clamp

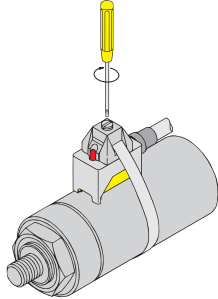
Cylinder Diameter	1.26 - 1.97 inches 32 - 50 mm	1.97 - 3.94 inches 50 - 100 mm
Rod Diameter	0.31 - 0.55 inches 8 - 14 mm	0.43 - 0.75 inches 11 - 19 mm
Clamp	KLI-5 (Aluminum)	KLI-6 (Aluminum)

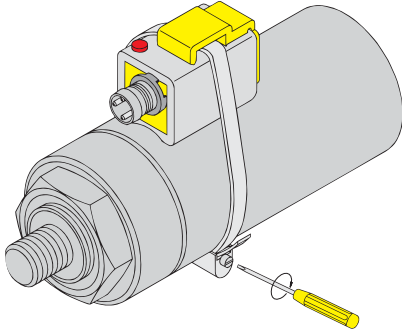


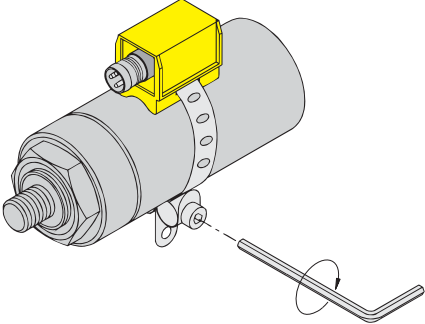
IKE, IKT and IKM Housing with KLI-CB64 or KLI-CB124 Clamp

Cylinder Diameter	0.79 - 2.52 inches 20 - 64 mm	0.79 - 4.88 inches 20 - 124 mm
Clamp	KLI-CB64 (Stainless Steel/Steel)	KLI-CB124 (Stainless Steel/Steel)



KST Housing with KST-SB170 and KST-SB335 Clamps			
Cylinder Diameter	0.31 - 0.99 inches 8 - 25 mm	0.31 - 3.15 inches 8 - 80 mm	
	Strap	KST-SB170 (Stainless Steel)	
Mount	KST-MG (M4673500)		
Screw Plate	KST-SE (M4673600)		

PSM Housing with ASB Style Strap				
Bore		Clamp (Stainless Steel)	Cylinder Diameter	
Inches	mm			
5/16	8	ASB-3	0-20 mm	
3/8	10			
7/16	12			
5/8	16	ASB-4	15-30 mm	
3/4	20			
1	25	ASB-5	25-40 mm	
1-1/4	32			
1-1/2	40	ASB-6	35-50 mm	
2	50	ASB-7	45-60 mm	
2-1/2	63	ASB-9	55-80 mm	

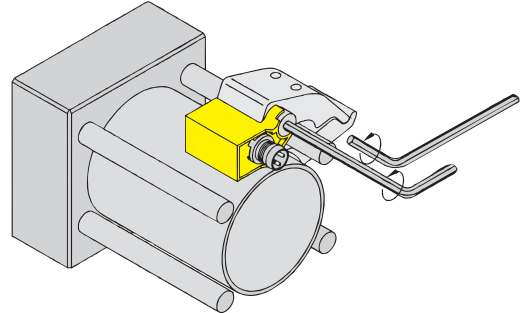
PST Housing with KLP80-VA and KLP200-VA Clamps			
Cylinder Diameter	0.31 - 3.15 inches 8 - 80 mm	3.15 - 7.87 inches 80 - 200 mm	
	Clamp	KLP80-VA* (Stainless steel band, brass nuts)	
* Clamp included with sensor.			

Cylinder

Inductive Cylinder Position Sensors

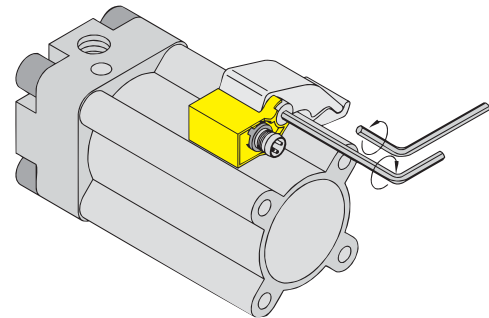
QST Housing with KLQ-1Z or KLQ-2Z Clamps

Cylinder Diameter	1.26 - 2.48 inches 32 - 63 mm	1.97 - 4.92 inches 50 - 125 mm
Rod Diameter	0.16 - 0.31 inches 4 - 8 mm	0.24 - 0.51 inches 6 - 13 mm
Clamp	KLQ-1Z (Anodized Aluminum)	KLQ-2Z (Anodized Aluminum)



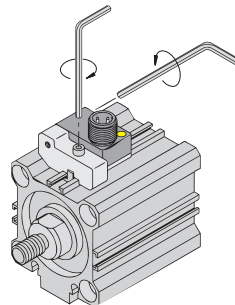
QST Housing with KLQ-1 or KLQ-2 Clamps

Cylinder Diameter	1.26 - 1.97 inches 32 - 50 mm	1.97 - 3.94 inches 50 - 100 mm
Rod Diameter	0.31 - 0.55 inches 8 - 14 mm	0.43 - 0.75 inches 11 - 19 mm
Clamp	KLQ-1 (Anodized Aluminum)	KLQ-2 (Anodized Aluminum)

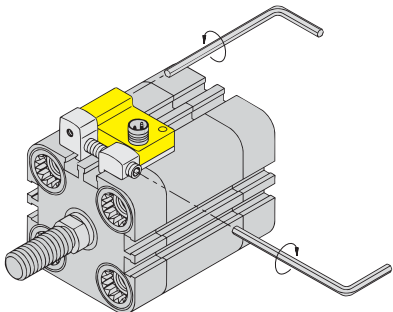


NST Housing with SMC-325 Clamp

Cylinder Diameter	0.47 - 3.94 inches 12 - 100 mm
Cylinder Manufacturer	SMC
Cylinder Family	NCDQ2
Clamp	SMC-325 (Anodized Aluminum)



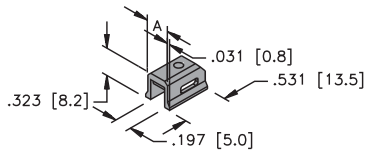
NST Housing with KLN-3 Clamp

Cylinder Diameter	0.47 - 3.94 inches 12 - 100 mm	
Groove Diameter	0.20 - 0.53 (0.83) inches 5.2 - 13.5 (21)* mm	
Clamp	KLN-3 (Anodized Aluminum)	
*Accessory	Longer M5 x 35 set screw (A0050)	

Inductive Cylinder Position Sensors

UNT Mounting Clamps

KLDT-UNT2



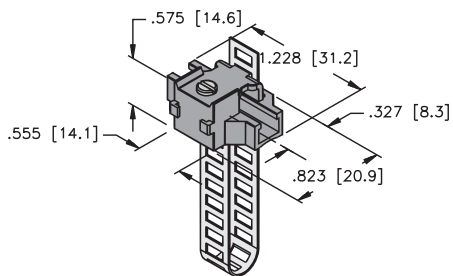
See tabulation

Note: For outside dimension of beveled ears add 1.6 mm to bracket width listed.

Part Number	"L" mm	"L" inches
KLDT-UNT2	7	.276
KLDT-UNT3	9.4	.370
KLDT-UNT4	11.5	.453

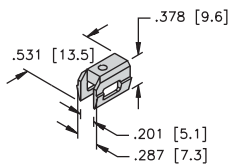
UNT Housing with KLDT-UNT and ASB Style Strap		
Cylinder Diameter		Clamp (Stainless Steel)
Inches	mm	
.276-.433	7-11 mm	ASB-1
.433-.748	11-19 mm	ASB-2
.709-1.142	18-29 mm	ASB-3
1.102-1.535	28-39 mm	ASB-4
1.496-1.929	38-49 mm	ASB-5
1.890-2.323	48-59 mm	ASB-6

KLRC-UNT2

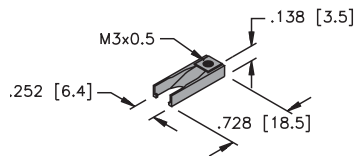


Part Number	Inches	mm
KLRC-UNT1	.315-.984	8-25
KLRC-UNT2	.984-2.480	25-63
KLRC-UNT3	2.480-5.118	63-130

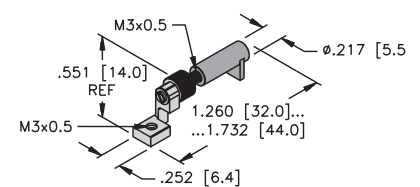
KLDT-UNT6



UNT-Stopper



UNT-Adjusting Bracket



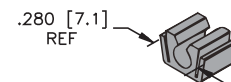
**UNT Mounting Screw,
2.5MM (S6901056)**



**M2-BIM-UNT MTG SCRW,
1.5 mm (S6901050)**

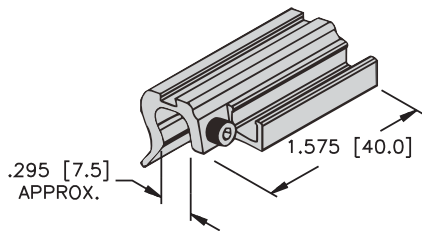


UNT-Cable Clip

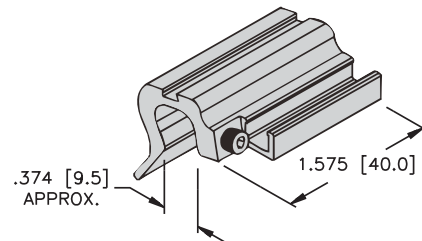


UNT Mounting Clamps

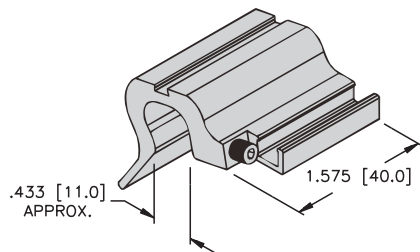
KLZ1-INT (AL)



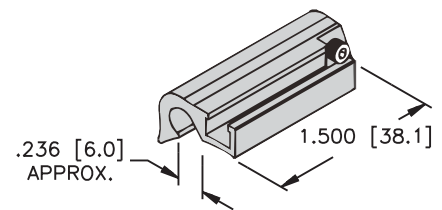
KLZ2-INT (AL)



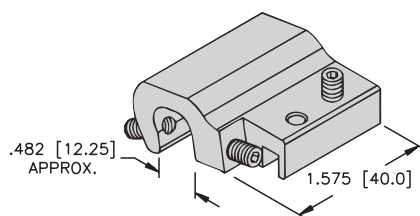
KLZ3-INT (AL)



KLZ1A-INT (AL)



KLZM3-UNT

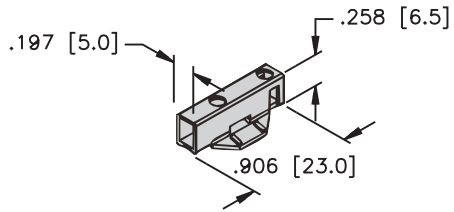


Cylinder

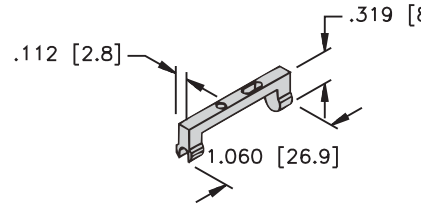
Inductive Cylinder Position Sensors

UNR Mounting Clamps

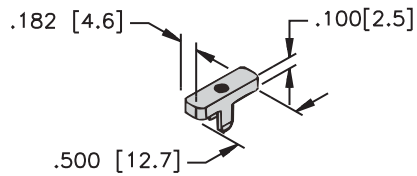
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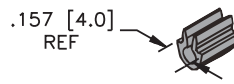
KLTR-2 UNR



KLFA-UNR



UNR Cable Clip

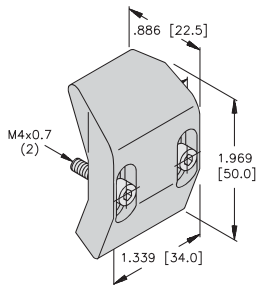


M2 BIM-UNR-MTG SCR, 1.3
MM (S6901055)

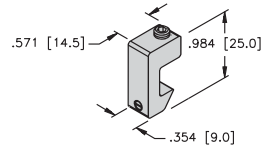


Mounting Clamps

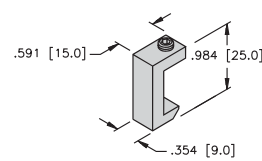
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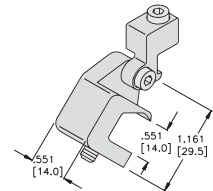
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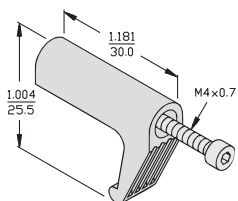
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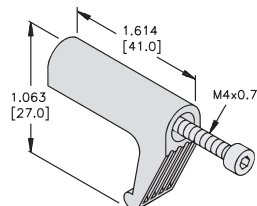
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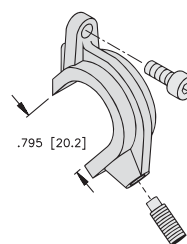
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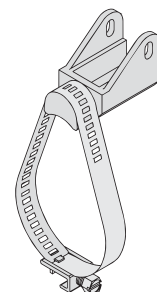
KLI-3



KLI-2

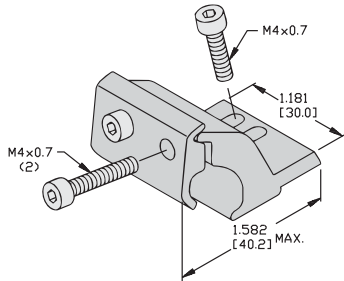


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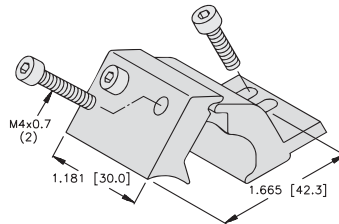


Mounting Clamps

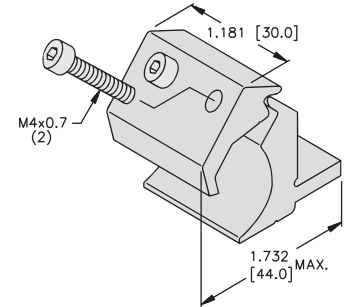
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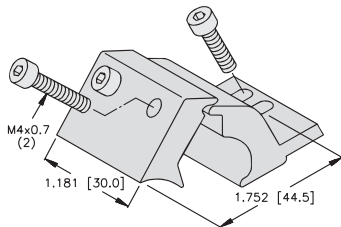
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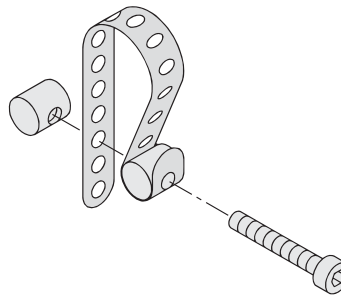
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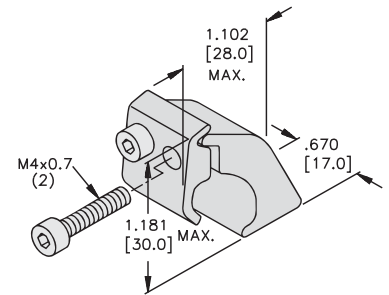
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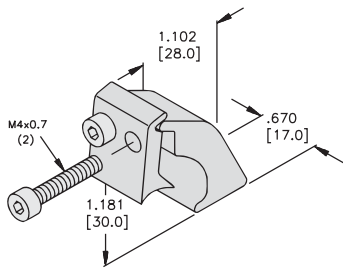
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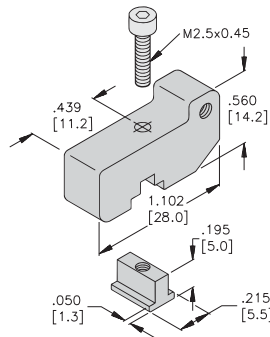
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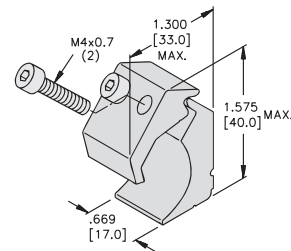
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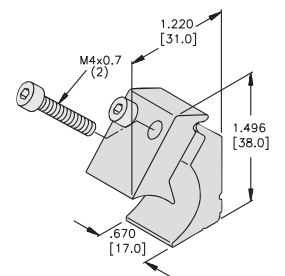
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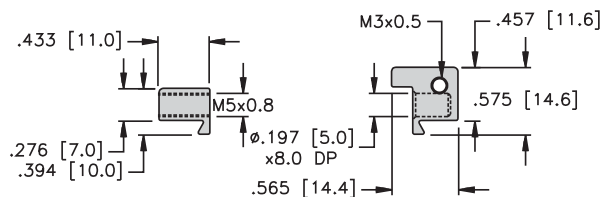
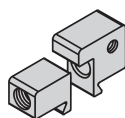
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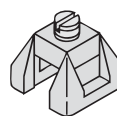
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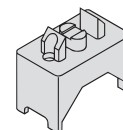
KLN-3



**KST-SE
(M4673600)**



**KST-MG
(M4673500)**

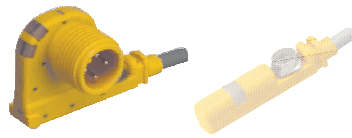


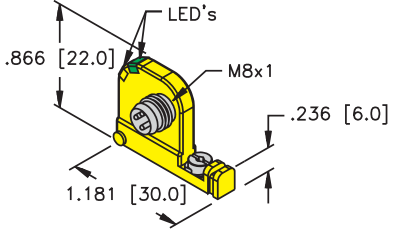
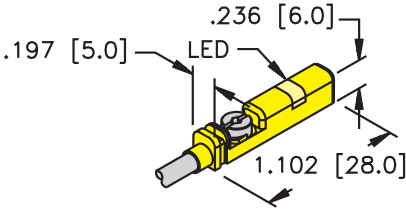
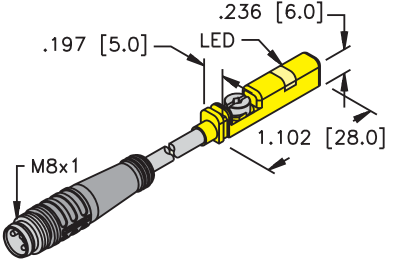
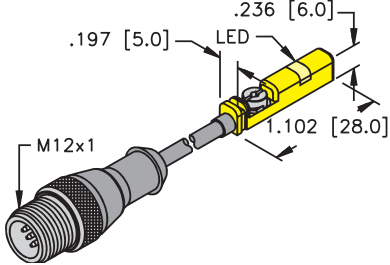
**KST-SB170 and
KST-SB335**



Cylinder

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
UNT - picofast® Quick Disconnect 	BIM-UNT-AN6X2-V1131	S4685753		20-350	3-Wire DC NPN
	BIM-UNT-AP6X2-V1131	S4685727		20-350	3-Wire DC PNP
UNT - Potted-In Cable 	BIM-UNT-AN6X	S4685702		20-350	3-Wire DC NPN
	BIM-UNT-AP6X	S4685741		20-350	3-Wire DC PNP
	BIM-UNT-AG41X/S1139/S1160	S4685766	See Notes	20-350	2-Wire DC
	BIM-UNT-AY1X/S1139	S4685763	See Notes	20-350	2-Wire NAMUR
UNT - picofast Quick Disconnect 	BIM-UNT-AN6X-0.3-PSG 3S	S4685705		20-350	3-Wire DC NPN
	BIM-UNT-AP6X-0.3-PSG 3S	S4685722		20-350	3-Wire DC PNP
UNT - eurofast® Quick Disconnect 	BIM-UNT-AP6X-0.3M-RS 4T	SS46857260		20-350	3-Wire DC PNP
	BIM-UNT-AN6X-0.3M-RS 4T	S4685792		20-350	3-Wire DC NPN

Notes:

/S1139 = Wider travel more range.

/S1160 = Potted TPU cable for welding environments

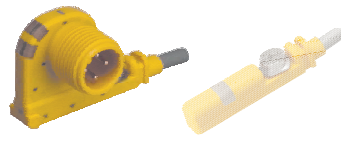
**For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.**



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	2	Diagram 2
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PUR	3	Diagram 3
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PUR	4	Diagram 4
10-55 VDC	300	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/TPU	5	Diagram 5
8.2 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	6	Diagram 6
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PUR	1	Diagram 7
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PUR	2	Diagram 8
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	7	Diagram 8
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	8	Diagram 8

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
UNT - eurofast® Quick Disconnect 	BIM-UNT-AN6X2-H1141	S4685759		20-350	3-Wire DC NPN
	BIM-UNT-AP6X2-H1141	S4685726		20-350	3-Wire DC PNP
UNT - eurofast Quick Disconnect 	BIM-UNT-0.3M-UNT-2AN6X3-H1141	S4685760	Dual Switch	20-350	4-Wire DC NPN
	BIM-UNT-0.3M-UNT-2AP6X3-H1141	S4685730	Dual Switch	20-350	4-Wire DC PNP
UNT - Potted-In Cable 	BIM-UNT-AP6X/S991	S4685728	Radial Magnetic Fields	20-350	3-Wire DC PNP
UNT - eurofast Quick Disconnect 	BIM-UNT-2AP6X-0.2M-RSC 4.4T	S4685891	Dual Switch	20-350	3-Wire DC PNP

Notes:

/S991 = Magnetic field sensor for detecting radial magnets.

**For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.**



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord/ Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤150	-25 to +70	IP 67	PP	PP	GN	YE	RK 4T-*	1	<p>Diagram 1</p>
10-30 VDC	1000	≤150	-25 to +70	IP 67	PP	PP	GN	YE	RK 4T-*	2	<p>Diagram 2</p>
10-30 VDC	1000	≤150	-25 to +70	IP 67	PP	PP	GN	YE	RK 4.4T-*	3	<p>Diagram 3</p>
10-30 VDC	1000	≤150	-25 to +70	IP 67	PP	PP	GN	YE	RK 4.4T-*	4	<p>Diagram 4</p>
10-30 VDC	1000	≤150	-25 to +70	IP 67	PP	PP	GN	YE	2M/PUR	5	<p>Diagram 5</p>
10-30 VDC	1000	≤150	-25 to +70	IP 67	PP	PP	GN	YE	RKC 4.4T-*	4	

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
INT - picofast® Potted-In Cable 	BIM-INT-Y1X	S1056800		20-350	2-Wire NAMUR
	BR-INT-ADZ71X W/M	S4700510	Reed Contact	20-350	2-Wire AC/DC Reed Contact
INT - picofast Quick Disconnect 	BR-INT-ADZ71X-0.2M-PSG 3 W/M	S4700582	Reed Contact	20-350	2-Wire AC/DC Reed Contact
INT - eurofast® Quick Disconnect 	BR-INT-ADZ71X-0.2M-RS 4T W/M	S4700589	Reed Contact	20-350	2-Wire AC/DC Reed Contact
	BIM-INT-Y1X-0.2M-RS 4.21T W/M	S1056892		20-350	2-Wire NAMUR

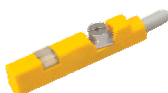
For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
5-30 VDC	300	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	1	<p>Diagram 1</p>
3-140 VAC 4-200 VDC	500	≤500	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	2	<p>Diagram 2</p>
3-140 VAC 4-200 VDC	500	≤500	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3-*	3	<p>Diagram 3</p>
3-140 VAC 4-200 VDC	500	≤500	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4.2T	4	<p>Diagram 4</p>
5-30 VDC	300	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4.21T-*	5	<p>Diagram 5</p>

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
UNR - picofast® Quick Disconnect 	BIM-UNR-AN6X-0.3M-PSG 3S	S4685848		20-350	3-Wire DC NPN
	BIM-UNR-AP6X-0.3M-PSG 3S	S4685843		20-350	3-Wire DC PNP
UNR - eurofast® Quick Disconnect 	BIM-UNR-AN6X-0.3M-RS 4T W/M	S4685850		20-350	3-Wire DC NPN
	BIM-UNR-AP6X-0.3M-RS 4T W/M	S4685845		20-350	3-Wire DC PNP
UNR - Potted-In Cable 	BIM-UNR-AN6X	S4685847		20-350	3-Wire DC NPN
	BIM-UNR-AP6X	S4685842		20-350	3-Wire DC PNP
UNR - eurofast Quick Disconnect 	BIM-UNR-2AP6X-0.2M-RSC 4.4T	S4685899	Dual Switch	20-350	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	PKG 3Z-*	1	<p>Diagram 1</p>
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	PKG 3Z-*	2	<p>Diagram 2</p>
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	RK 4T-*	3	<p>Diagram 3</p>
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	RK 4T-*	4	<p>Diagram 4</p>
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	5	<p>Diagram 5</p>
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	2M/PUR	6	<p>Diagram 6</p>
10-30 VDC	300	≤100	-25 to +70	IP 67	PP	PP	N/A	YE	RKC 4.4T-*	7	<p>Diagram 7</p>

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
PST - picofast® Quick Disconnect 	BIM-PST-AN6X-V1131	S4625190	KLP-80 Included	20-350	3-Wire DC NPN
	BIM-PST-AP6X-V1131	S4625090	KLP-80 Included	20-350	3-Wire DC PNP
PST - Potted-In Cable 	BIM-PST-AN6X	S4624191	KLP-80 Included	20-350	3-Wire DC NPN
	BIM-PST-AP6X	S4624090	KLP-80 Included	20-350	3-Wire DC PNP
	BIM-PST-Y1X	S1057090	KLP-80 Included	20-350	2-Wire NAMUR
PSM - picofast Quick Disconnect 	BIM-PSM-AN6X-V1131	S4625700	w/o Bracket	20-350	3-Wire DC NPN
	BIM-PSM-AP6X-V1131	S4625600	w/o Bracket	20-350	3-Wire DC PNP
PSM - Potted-In Cable 	BIM-PSM-AN6X	S4625500	w/o Bracket	20-350	3-Wire DC NPN
	BIM-PSM-AP6X	S4625400	w/o Bracket	20-350	3-Wire DC PNP

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	4	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	5	Diagram 2
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	1	Diagram 3
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	2	Diagram 4
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	3	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12, AL	AL	N/A	YE	PKG 3Z-*	4	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12, AL	AL	N/A	YE	PKG 3Z-*	5	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12, AL	AL	N/A	YE	2M/PVC	1	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12, AL	AL	N/A	YE	2M/PVC	2	Diagram 5

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
KST - picofast® Quick Disconnect 	BIM-KST-AN6X-V1131	M4674300	KST SB170 and KST SB335 Included	20-350	3-Wire DC NPN
	BIM-KST-AP6X-V1131	M4674200	KST SB170 and KST SB335 Included	20-350	3-Wire DC PNP
KST - Potted-In Cable 	BIM-KST-AN6X	M4674100	KST SB170 and KST SB335 Included	20-350	3-Wire DC NPN
	BIM-KST-AP6X	M4674000	KST SB170 and KST SB335 Included	20-350	3-Wire DC PNP
QST - picofast Connector 	BIM-QST-AN6X-V1131	S4688300	w/o Bracket	20-350	3-Wire DC NPN
	BIM-QST-AP6X-V1131	S4688200	w/o Bracket	20-350	3-Wire DC PNP
QST - Potted-In Cable 	BIM-QST-AN6X	M4688100	w/o Bracket	20-350	3-Wire DC NPN
	BIM-QST-AP6X	S4688000	w/o Bracket	20-350	3-Wire DC PNP
	BIM-QST-Y1X	M1058000	w/o Bracket	20-350	2-Wire NAMUR

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord/Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	4	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	5	Diagram 2
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	1	Diagram 3
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	2	Diagram 4
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	4	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	5	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	2	
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	3	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
AKT - eurofast® Connector 	BIM-AKT-AD4X-H1141	M4480290	KLA-1 Included	20-350	2-Wire DC
	BIM-AKT-AN6X-H1141	M4675390	KLA-1 Included	20-350	3-Wire DC NPN
	BIM-AKT-AP6X-H1141	M4675290	KLA-1 Included	20-350	3-Wire DC PNP
	BIM-AKT-AP6X-H1141/S34	M4682090	KLA-1 Included	20-350	
	BIM-AKT-Y1X-H1141	M1055290	KLA-1 Included	20-350	2-Wire NAMUR
AKT - Potted-In Cable 	BIM-AKT-AD4X	M4480090	KLA-1 Included	20-350	2-Wire DC
	BIM-AKT-AN6X	M4675190	KLA-1 Included	20-350	3-Wire DC NPN
	BIM-AKT-AP6X	M4675090	KLA-1 Included	20-350	3-Wire DC PNP
	BIM-AKT-Y1X	M1055090	KLA-1 Included	20-350	2-Wire NAMUR
IKE/IKT - Potted-In Cable 	BIM-IKE-AD4X	S4421490	KLI-3 Included	20-350	2-Wire DC
	BIM-IKT-AD4X	S4482090	KLI-3 Included	20-350	
	BIM-IKE-AN6X	S4621590	KLI-3 Included	20-350	3-Wire DC NPN
	BIM-IKT-AN6X	S4620190	KLI-3 Included	20-350	
	BIM-IKE-AP6X	S4621490	KLI-3 Included	20-350	3-Wire DC PNP
	BIM-IKT-AP6X	S4620090	KLI-3 Included	20-350	
BIM-IKE-Y1X	S1056490	KLI-3 Included	20-350	2-Wire NAMUR	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord/Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-65 VDC	300	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4.2T-*	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	2	Diagram 2
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	3	Diagram 3
	20	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	3	
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4.21T-*	4	Diagram 4
10-65 VDC	300	≤100	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	5	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	6	Diagram 6
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	7	
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	8	Diagram 7
10-65 VDC	300	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	5	Diagram 8
	300	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	5	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	6	Diagram 9
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	6	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	7	Diagram 10
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	7	
5-30 VDC	1000	Remote	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	2M/PVC	8	Diagram 11

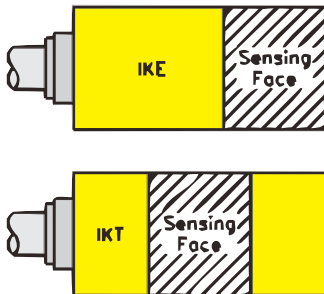
* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output	
IKE/IKT - picofast® Quick Disconnect 	BIM-IKE-AN6X-V1131	S4621795	KLI-3 Included	20-350	3-Wire DC NPN	
	BIM-IKT-AN6X-V1131	S4622195	KLI-3 Included	20-350		
	BIM-IKE-AP6X-V1131	S4621695	KLI-3 Included	20-350	3-Wire DC PNP	
	BIM-IKT-AP6X-V1131	S4622095	KLI-3 Included	20-350		
	IKE/IKT - eurofast® Quick Disconnect 	BIM-IKE-AD4X-H1141	S4421690	KLI-3 Included	20-350	2-Wire DC
		BIM-IKT-AD4X-H1141	S4482290	KLI-3 Included	20-350	
BIM-IKE-AN6X-H1141		S4621790	KLI-3 Included	20-350	3-Wire DC NPN	
BIM-IKT-AN6X-H1141		S4621190	KLI-3 Included	20-350		
BIM-IKE-AP6X-H1141		S4621690	KLI-3 Included	20-350	3-Wire DC PNP	
BIM-IKT-AP6X-H1141		S4621090	KLI-3 Included	20-350		
BIM-IKE-Y1X-H1141		S1056690	KLI-3 Included	20-350	2-Wire NAMUR	
BIM-IKT-Y1X-H1141		M1056290	KLI-3 Included	20-350		



For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord / Cable Length / Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	1	Diagram 1
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	2	Diagram 2
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	PKG 3Z-*	2	
10-65 VDC	300	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4.2T-*	3	Diagram 3
	300	≤100	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4.2T-*	3	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4T-*	4	Diagram 4
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4T-*	4	
10-30 VDC	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4T-*	5	Diagram 5
	1000	≤200	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4T-*	5	
5-30 VDC	1000	Remote	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4.21T-*	6	Diagram 6
	1000	Remote	-25 to +70	IP 67	Zinc	PA 12	N/A	YE	RK 4.21T-*	6	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
IKM - eurofast® Connector 	BIM-IKM-AN6X2-H1141/S34	M4627390	KLI-3 Included, WFI	20-350	3-Wire DC NPN
	BIM-IKM-AP6X2-H1141/S34	M4627290	KLI-3 Included, WFI	20-350	3-Wire DC PNP
IKM - microfast® Connector 	BIM-IKM-AZ3X2-B3131	M1347190	KLI-3 Included	20-350	2-Wire AC
IKM - Potted-In Cable 	BIM-IKM-AZ3X2	M1347290	KLI-3 Included	20-350	2-Wire AC
	BIM-IKM-AN6X2/S100	M4627391	High Temp. 100° C	20-350	3-Wire DC NPN
A23 - eurofast Connector 	BIM-A23-AN6X-H1141/S34	M4689191	KLU-2 Included, WFI	20-350	3-Wire DC NPN
	BIM-A23-AP6X2-H1141/S34	M4689291	KLU-2 Included, WFI	20-350	3-Wire DC PNP



For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length/ Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	20	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	RK 4T-*	1	<p>Diagram 1</p>
10-30 VDC	20	≤200	-25 to +70	IP 67	Zinc	PA 12	GN	YE	RK 4T-*	2	<p>Diagram 2</p>
20-250 VAC	20	≤500	-25 to +70	IP 67	Zinc	PA 12	GN	YE	KB 3T-*	3	<p>Diagram 3</p>
20-250 VAC	20	≤500	-25 to +70	IP 67	Zinc	PA 12	GN	YE	2M/PVC	4	<p>Diagram 4</p>
10-30 VDC	20	≤200	-25 to +100	IP 67	Zinc	PA 12	GN	YE	2M/PVC	1	
10-30 VDC	20	≤200	-25 to +70	IP 67	AL	PBT	N/A	YE	RK 4T-*	1	
10-30 VDC	20	≤200	-25 to +70	IP 67	AL	PBT	GN	YE	RK 4T-*	2	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
A23 - microfast® Connector 	BIM-A23-AZ3X-B3131/S34	M1346291	KLU-2 Included, WFI	20-350	2-Wire AC
A23 - minifast® Connector 	BIM-A23-AP6X-B1141/S34	M4688891	KLU-2 Included, WFI	20-350	3-Wire DC PNP
A23 - minifast Connector 	BIM-A23-AZ3X-B1131/S34	M1346191	KLU-2 Included, WFI	20-350	2-Wire AC
A23 - Potted-In Cable 	BIM-A23-AZ3X/S34	M1346091	KLU-2 Included, WFI	20-350	2-Wire AC

**For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.**



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord, Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
20-250 VAC	20	≤500	-25 to +70	IP 67	AL	PBT	N/A	YE	KB 3T-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
10-30 VDC	20	≤200	-25 to +70	IP 67	AL	PBT	N/A	YE	RKM 40-*M	4	<p>Diagram 3</p> <p>Diagram 4</p>
20-250 VAC	20	≤500	-25 to +70	IP 67	AL	PBT	N/A	YE	RKM 311-*M	2	
20-250 VAC	20	≤500	-25 to +70	IP 67	AL	PBT	N/A	YE	2M/PVC	3	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Magnetic Actuation Strength (Gauss)	Output
NST - picofast® Connector 	BIM-NST-AN6X-V1131	M4685900	w/o Bracket	20-350	3-Wire DC NPN
	BIM-NST-AP6X-V1131	M4685800	w/o Bracket	20-350	3-Wire DC PNP
NST - eurofast® Connector "/S34" version 	BIM-NST-AN6X-H1141/S34	M4685501	w/o Bracket, WFI	20-350	3-Wire DC NPN
	BIM-NST-AN6X-H1141	M4685500	w/o Bracket	20-350	
	BIM-NST-AP6X-H1141/S34	M4685401	w/o Bracket, WFI	20-350	3-Wire DC PNP
	BIM-NST-AP6X-H1141	M4685400	w/o Bracket	20-350	
NST - Potted-In Cable 	BIM-NST-AN6X	M4685700	w/o Bracket	20-350	3-Wire DC NPN
	BIM-NST-AP6X	M4685600	w/o Bracket	20-350	3-Wire DC PNP
	BIM-NST-Y1X	M1058400	w/o Bracket	20-350	2-Wire DC NAMUR

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cord Cable Length /Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	4	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	PKG 3Z-*	5	Diagram 2
10-30 VDC	20	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	6	Diagram 3
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	6	
10-30 VDC	20	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	7	Diagram 4
	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	RK 4T-*	7	
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	1	Diagram 5
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	2	Diagram 6
10-30 VDC	1000	≤200	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	2	Diagram 7
5-30 VDC	1000	Remote	-25 to +70	IP 67	PA 12	PA 12	N/A	YE	2M/PVC	3	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
CRS - eurofast® Connector 	Bi 2-CRS232-AN4X2-H1141/S34	T4570493	WFI	2	3-Wire DC NPN
	Bi 2-CRS260-AN4X2-H1141/S34	T4580004	WFI	2	
	Bi 2-CRS287-AN4X2-H1141/S34		WFI	2	
	Bi 2-CRS317-AN4X2-H1141/S34	T4580093	WFI	2	
	Bi 2-CRS343-AN4X2-H1141/S34	T4571890	WFI	2	
	Bi 2-CRS524-AN4X2-H1141/S34	T4568096	WFI	2	
	Bi 2-CRS603-AN4X2-H1141/S34	T4580097	WFI	2	
	Bi 2-CRS705-AN4X2-H1141/S34		WFI	2	
	Bi 2-CRS730-AN4X2-H1141/S34	T4580088	WFI	2	
	Bi 2-CRS232-AP4X2-H1141/S34	T4570492	WFI	2	
	Bi 2-CRS260-AP4X2-H1141/S34	T4570890	WFI	2	
	Bi 2-CRS287-AP4X2-H1141/S34	T4571290	WFI	2	
	Bi 2-CRS317-AP4X2-H1141/S34	T4571690	WFI	2	
	Bi 2-CRS343-AP4X2-H1141/S34	T4571800	WFI	2	
	Bi 2-CRS476-AP4X2-H1141/S34	T4580091	WFI	2	
	Bi 2-CRS524-AP4X2-H1141/S34	T4580090	WFI	2	
	Bi 2-CRS603-AP4X2-H1141/S34	T4580096	WFI	2	
	Bi 2-CRS705-AP4X2-H1141/S34	T4580089	WFI	2	
	Bi 2-CRS730-AP4X2-H1141/S34	T4580003	WFI	2	
	Bi 2-CRS959-AP4X2-H1141/S34	T4571891	WFI	2	
Bi 2-CRS1159-AP4X2-H1141/S34	T4570899	WFI	2		

Bi 2-CRS-XXXX-.. = Length of probe in mm.

**For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.**



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Probe	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-65 VDC	30	≤200	-25 to +70	IP 67	Zinc	CPB	Gn	YE	RK 4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	1	
10-65 VDC	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	
	30	≤200	-25 to +70	IP 67	Zinc	CPB	GN	YE	RK 4T-*	2	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
CRS - microfast® Connector 	Bi 2-CRS232-ADZ30X2-B3131/S34	T4275093	WFI	2	2-Wire AC/DC
	Bi 2-CRS260-ADZ30X2-B3131/S34	T4275493	WFI	2	
	Bi 2-CRS287-ADZ30X2-B3131/S34	T4275893	WFI	2	
	Bi 2-CRS317-ADZ30X2-B3131/S34	T4276293	WFI	2	
	Bi 2-CRS343-ADZ30X2-B3131/S34	T4276493	WFI	2	
	Bi 2-CRS476-ADZ30X2-B3131/S34	T4276693	WFI	2	
	Bi 2-CRS524-ADZ30X2-B3131/S34	T4277093	WFI	2	
	Bi 2-CRS603-ADZ30X2-B3131/S34	T4277493	WFI	2	
	Bi 2-CRS705-ADZ30X2-B3131/S34	T4277893	WFI	2	
	Bi 2-CRS730-ADZ30X2-B3131/S34	T4278293	WFI	2	
	Bi 2-CRS959-ADZ30X2-B3131/S34	T4279093	WFI	2	
	Bi 2-CRS1159-ADZ30X2-B3131/S34	T4279493	WFI	2	
CRS - minifast® Connector 	Bi 2-CRS232-ADZ30X2-B1131/S34	T4270093	WFI	2	2-Wire AC/DC
	Bi 2-CRS260-ADZ30X2-B1131/S34	T4270493	WFI	2	
	Bi 2-CRS287-ADZ30X2-B1131/S34	T4270893	WFI	2	
	Bi 2-CRS317-ADZ30X2-B1131/S34	T4271293	WFI	2	
	Bi 2-CRS343-ADZ30X2-B1131/S34	T4271493	WFI	2	
	Bi 2-CRS476-ADZ30X2-B1131/S34	T4271693	WFI	2	
	Bi 2-CRS524-ADZ30X2-B1131/S34	T4272093	WFI	2	
	Bi 2-CRS603-ADZ30X2-B1131/S34	T4272493	WFI	2	
	Bi 2-CRS705-ADZ30X2-B1131/S34	T4272893	WFI	2	
	Bi 2-CRS730-ADZ30X2-B1131/S34	T4273293	WFI	2	
	Bi 2-CRS959-ADZ30X2-B1131/S34	T4274093	WFI	2	
	Bi 2-CRS1159-ADZ30X2-B1131/S34	T4274493	WFI	2	

Bi 2-CRS-XXXX-.. = Length of probe in mm.

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/DC	Operating Temp. (°C)	Protection	Housing	Probe	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
20-250 VAC/DC	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	KB 3T-*	1	
20-250 VAC/DC	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	
	30	≤400/300	-25 to +70	IP 67	Zinc	CPB	GN	Rd	RKM 311-*M	2	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output	
Q6.5 - eurofast® Connector 	Ni 2-Q6.5-AN6-0.1M-FS 4.4X3/S304	M1650079		2	4-Wire DC NPN	
	Ni 2-Q6.5-AN6-0.16M-FS 4.4X3/S304	M1650085		2		
	Ni 2-Q6.5-AN6-0.2M-FS 4.4X3/S304	M1650134		2		
		Ni 2-Q6.5-AN6-0.5M-FS 4.4X3/S304	M1650155		2	4-Wire DC PNP
		Ni 2-Q6.5-AP6-0.1M-FS 4.4X3/S304	M1650048		2	
		Ni 2-Q6.5-AP6-0.16M-FS 4.4X3/S304	M1650086		2	
	Ni 2-Q6.5-AP6-0.2M-FS 4.4X3/S304	M1650047		2		
Q6.5 - eurofast Connector 	Ni 2-Q6.5-0.1M-BDS-2AP6X3-H1141/S34	M1650098	WFI	2	4-Wire DC PNP	
	Ni 2-Q6.5-0.16-BDS-2AP6X3-H1141/S34	M1650110	WFI	2		
	Ni 2-Q6.5-0.20-BDS-2AP6X3-H1141/S34	M1650111	WFI	2		
Q6.5 - microfast® Connector 	Ni 2-Q6.5-ADZ32-0.1M-FSB 5.4X4/S304	M4200204		2	4-Wire VAC/DC	
	Ni 2-Q6.5-ADZ32-0.16-FSB 5.4X4/S304	M4200203		2		
	Ni 2-Q6.5-ADZ32-0.2M-FSB 5.4X4/S304	M4200202		2		

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Sensor Heads	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-30 VDC	30	≤500	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	1	<p>Diagram 1</p> <p>Diagram 2</p> <p>Diagram 3</p>
	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	1	
	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	1	
	30	≤500	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	1	
10-30 VDC	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	2	
	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	2	
	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	2	
10-30 VDC	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	2	
	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	2	
	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	2	
20-250 VAC 10-300 VDC	30	≤100/100	-25 to +70	IP 67	PBT	PA 12	GN/GN	YE/RD	KB 5T-*	3	
	30	≤100/100	-25 to +70	IP 67	PBT	PA 12	GN/GN	YE/RD	KB 5T-*	3	
	30	≤100/100	-25 to +70	IP 67	PBT	PA 12	GN/GN	YE/RD	KB 5T-*	3	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Feature	Sensing Range (mm)	Output
Q9.5 - picofast® Connector 	Ni 2-Q9.5-AP6-0.1M-FS 4.4X3/S304	M1650060		2	4-Wire DC PNP
Q9.5 - picofast Connector 	Ni 2-Q9.5-0.1M-BDS-2AP6X3-H1141/S34	M1650099	WFI	2	4-Wire DC PNP
Q9.5 - microfast® Connector 	Ni 2-Q9.5-ADZ32-0.1M-FSB 5.4X4/S304	M4200210		2	4-Wire VAC/DC
ISI - eurofast® Connector 	Ni 2-ISI-0.1-BDS-2AP6X3-H1141/S34	M1650133	WFI	2	4-Wire DC PNP
	Ni 2-ISI-0.3/0.225-BDS-2AP6X3-H1141/S34	M1650151	WFI	2	

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Switching Freq. (Hz)	Operating Current (mA) VAC/VDC	Operating Temp. (°C)	Protection	Housing	Sensor Heads	Power LED	Output LED	Mating Cord	Wiring Diagram #	Wiring Diagrams
10-30 VDC	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE./RD	RK 4.4T-*	1	<p>Diagram 1</p>
10-30 VDC	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	1	<p>Diagram 2</p>
20-250 VAC 20-300 VDC	20	≤100/100	-25 to +70	IP 67	PBT	PA 12	GN/GN	YE/RD	KB 5T-*	2	<p>Diagram 3</p>
10-30 VDC	30	≤150	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	3	
	30	≤200	-25 to +70	IP 67	PBT	PA 12	GN	YE/RD	RK 4.4T-*	3	

Cylinder

For material descriptions see page M36.

Inductive Cylinder Position Sensors



Housing Style	Part Number	ID Number	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
23 mm - Embeddable, T Groove Pneumatic Cylinders <i>picofast</i>® Quick Disconnect 	WIM45-UNTL-LIU5X2-0.3M-PSG 4M	M1536620	45	N/A	4-Wire DC Current and Voltage
23 mm - Embeddable, T Groove Pneumatic Cylinders <i>euofast</i>® Quick Disconnect 	WIM45-UNTL-0.3-BIM-UNT-LUAP6X4-H1141	M1536623	45	N/A	4-Wire DC Current and Voltage
23 mm - Embeddable, T Groove Pneumatic Cylinders <i>euofast</i> Quick Disconnect 	WIM45-UNTL-LIU5X2-0.3M-RS 4	M1536621	45	N/A	4-Wire DC Current and Voltage

Inches (mm)

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms; mA/ms	Housing	Face	Mating Cord	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/4-20 mA	-25 to +70	IP 67	20, 32	PA12	PA12	PKG 4M-*	1	<p>Diagram 1</p> <p>Diagram 2</p>
15-30 VDC	0-10 V/4-20 mA	-25 to +70	IP 67	20, 32	PA12	PA12	RK 4.4T-*	2	
15-30 VDC	0-10 V/4-20 mA	-25 to +70	IP 67	20, 32	PA12	PA12	RK 4.4T-*	1	

* Length in meters.

For material descriptions see page M36.

Inductive Cylinder Position Sensors

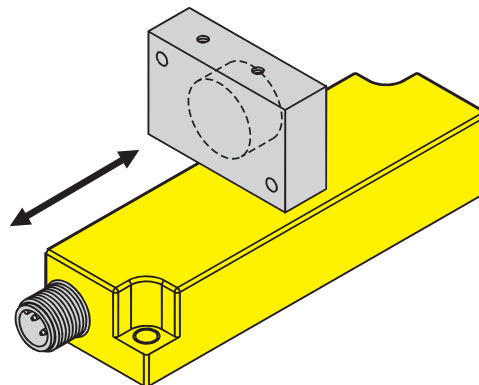


Housing Style	Part Number	ID Number	Linear Operating Distance (mm)	Response Freq. (Hz)	Output
20 mm - Embeddable, eurofast® Quick Disconnect 	WIM40-Q20L60-LIU5-H1141	M1539280	10-50	1000	4-Wire DC Current and Voltage
20 mm - Embeddable, eurofast Quick Disconnect, Mounted Spacers 	WIM40-Q20L60-LIU5-H1141/S400	M1536605	10-50	1000	4-Wire DC Current and Voltage
20 mm - Embeddable, eurofast Quick Disconnect 	WIM70-Q20L100-LIU5-H1141	M1539276	15-85	1000	4-Wire DC Current and Voltage

/S400 = Mounted spacer rollers.

Magnetic Field

WIM Analog Magnetic field sensors are used with external magnetic that move parallel to the sensor face. The WIM products come in several packages which can be used with the pneumatic cylinders that incorporate a magnet, or a magnet mounted on moving assembly. The sensing range is determined by the field of strength of the magnet.



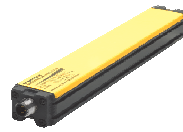
For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.



Voltage	Output Voltage/Current	Operating Temp. (°C)	Protection	Slew Rate V/ms; mA/ms	Housing	Face	Mating Cord	Wiring Diagram #	Wiring Diagrams
15-30 VDC	0-10 V/4-20 mA	-25 to +70	IP 67	20, 32	PBT	PBT	RK 4.4T-*	1	<p>Diagram 1</p>
15-30 VDC	0-10 V/4-20 mA	-25 to +70	IP 67	20, 32	PBT	PBT	RK 4.4T-*	1	
15-30 VDC	0-10 V/4-20 mA	-25 to +70	IP 67	20, 32	PBT	PBT	RK 4.4T-*	1	

* Length in meters.

Inductive Cylinder Position Sensors

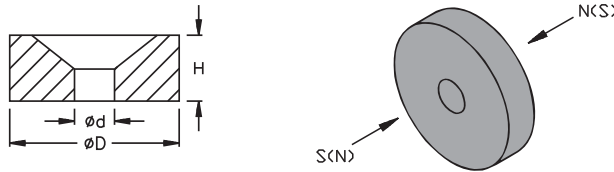


Housing Style	Part Number	ID Number	Linear Operating Distance	Update Time	Min. Glass	Output
25 mm - Embeddable, eurofast Quick Disconnect 	WIM100-Q25L141-LIU5X2-H1141	M1536630	100	5 ms	100	4-wire DC Current and Voltage
	WIM125-Q25L166-LIU5X2-H1141	M1536631	125	5 ms	100	
	WIM160-Q25L201-LIU5X2-H1141	M1536632	160	5 ms	100	
	WIM200-Q25L241-LIU5X2-H1141	M1536633	200	5 ms	100	

L = Length in mm. Example Q25L241 = 241 mm long

Actuation Magnets

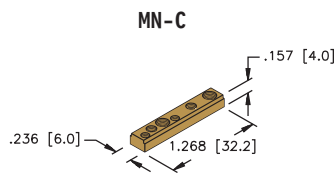
Actuation Magnet Part Numbers	Diameter D (mm)	Height H	Drilling for mounting d	Sensing Range M12	Sensing Range EG08	Material
DMR15-6-3	15	6	3	36	32	Barium Ferrite (Oxyd 300)
DMR20-10-4	20	10	4	59	50	
DMR31-15-5	31	15	5	90	78	



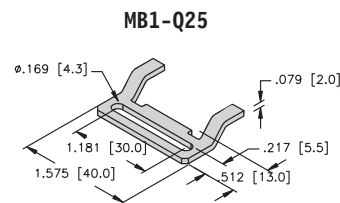
Part Number	ID Number
DM-Q12	M6900367

Material: Plastic

Mounting Brackets for Q25L.. Sensor



Sliding block for T-groove cylinder 5-8 mm



Mounting Clip

For detailed sensor specifications see Section M.
Normally Closed versions available upon request, consult factory.

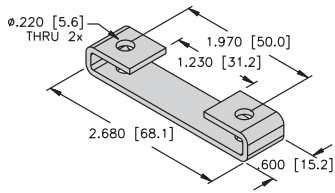


Voltage	Magnetic Actuation Strength (Gauss)	Output Voltage/Current	Operating Temp. (°C)	Protection	Housing	Face	Mating Cordset	Wiring Diagram #	Wiring Diagrams
15-30 VDC	50-100	0-10 V/4-20 mA	-25 to +70	IP 67	AL	PC-GF20	RK 4.4T-*	1	Diagram 1
	50-100	0-10 V/4-20 mA	-25 to +70	IP 67	AL	PC-GF20	RK 4.4T-*	1	
	50-100	0-10 V/4-20 mA	-25 to +70	IP 67	AL	PC-GF20	RK 4.4T-*	1	
	50-100	0-10 V/4-20 mA	-25 to +70	IP 67	AL	PC-GF20	RK 4.4T-*	1	

* Length in meters.

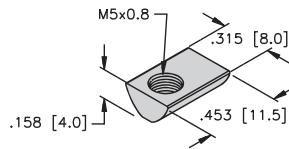
Mounting Brackets for Q25L.. Sensor

MB-Q21



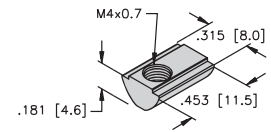
Mounting Bracket

MN-M5-Q25



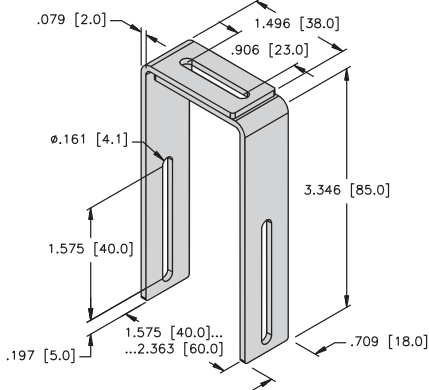
Sliding block with M5 thread for the backside profile

MN-M4-Q25



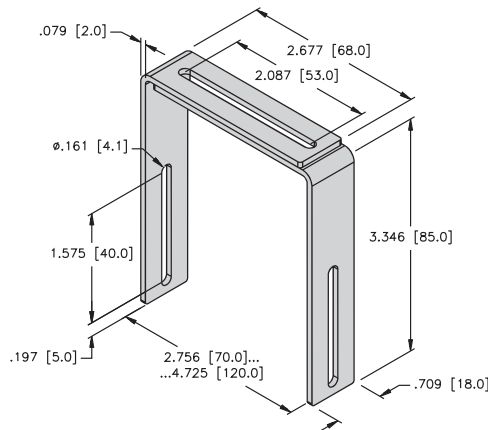
Sliding block with M4 thread for the backside profile

MB2.1-Q25



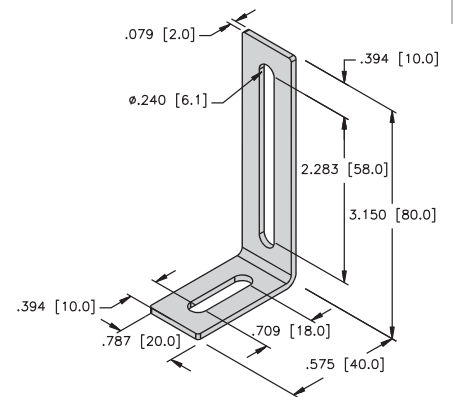
Mounting bracket for cylinders 40-60 mm

MB2.2-Q25



Mounting bracket for cylinders 70-120 mm

MB3-Q25



Mounting clip for lateral mounting

Cylinder

For material descriptions see page M36.

CONNECT IT!

Rugged, durable and reliable, TURCK connectivity products connect the sensing devices to higher-level control components – and much more! With splitters, branches and tees, you can get a cordset exactly where you want it. TURCK's connectivity products meet all applicable standards for any application.

Cordsets

- Sizes from the sub-miniature M5 to the 35 Amp M40 power connector
- 2 through 28-pin connectors
- Cable suitable for any environment
- Custom cable designs

Splitters

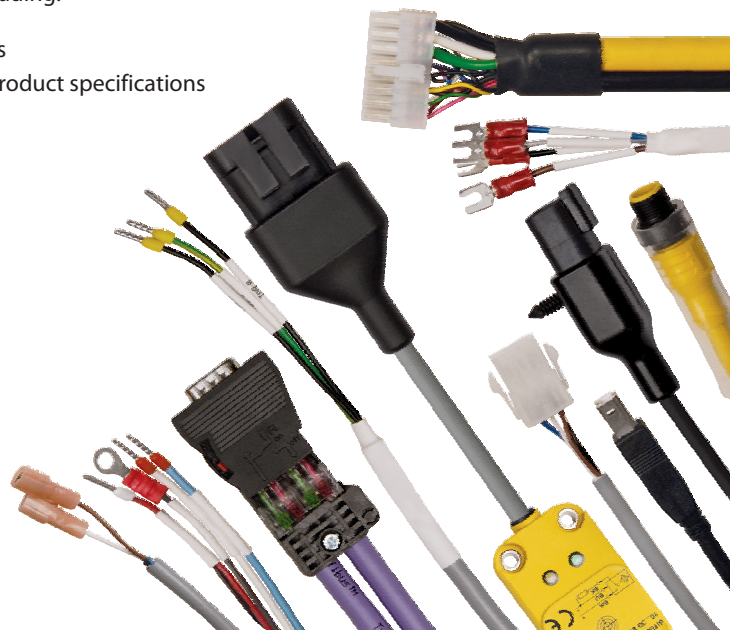
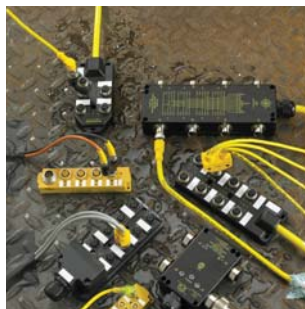
- Increase connection possibilities
- 2, 3 and 4 branch options

Rugged, Sealed Junction Boxes

- Consolidate wiring
- 4, 6 or 8 ports, with or without LEDs for NPN or PNP sensors

Can't find what you're looking for? Unsure which products will work best for your application? TURCK's experienced engineers will work with you to provide an application specific solution – even if it means designing a new product! TURCK can customize many of our products to your needs, including:

- Custom connectorized cables or sensors
 - Tailored solutions for unconventional product specifications
 - Private wrap and custom printed labels
- Challenge us with something new!



Cordset Selection Guide

euromfast® Cordsets



Pages K9 - K14

euromfast® Field Wireables



Page K15 - K18

picofast® Cordsets



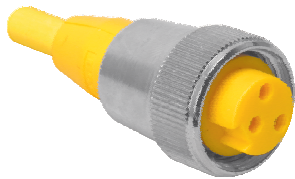
Pages K19 - K22

picofast® Field Wireables



Page K23 - K24

minifast® Cordsets



Pages K25 - K27

minifast® Field Wireables



Page K28 - K31

microfast® Cordsets



Pages K32 - K34

microfast® Field Wireables



Page K35 - K36

TURCK

Industrial Connectivity Products

Standard Cable Semilection Guide

Selection Criteria	PVC <i>flexlife</i> ®	TPU <i>flexlife</i> (S90)	CPE Rubber <i>flexlife</i> (S600)	<i>weldlife</i> (S1587)	<i>flexlife</i> -20® TPE (S101)	<i>flexlife</i> -20 TPU (S90/S101)
Page Number	N9 - N16	N17 - N19	N21	N23	N24 - N25	N20
Ozone and UV resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Temperatures	-40° to 105°C	-60° to 90°C	-50° to 105°C	-60° to 105°C	-60° to 105°C	-60° to 90°C
Cold Bend test	-40°C	-60°C	-55°C	-60°C	-60°C	-60°C
Abrasion & Cut-through resistance	Fair	Excellent	Excellent	Good	Good	Excellent
Flexing (# of cycles)	2 million	2 million	2 million	2 million	20 million+	20 million+
Tensile strength (psi)	2100	1800	1800	2100	2100	1800
Burn resistance	Good	Excellent	Excellent	Good	Good	Excellent
Oxidation resistance	Excellent	Excellent	Good	Excellent	Excellent	Excellent
Water resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Cost	\$	\$\$	\$\$\$	\$\$	\$\$	\$\$
Weld Slag resistance	Poor	Good	Excellent	Very Good	Very Good	Good
Flame Test						
UL Test standards	Horizontal	Vertical Tray	Horizontal	Horizontal	Horizontal	Vertical Tray
CSA Test standards	FT1	FT4	FT1	FT1	FT1	FT4
Chemical Resistance						
Acids	Fair/Good	Good	Excellent	Good	Good	Good
Alkalines	Good	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols	Poor/Fair	Poor/Fair	Excellent	Excellent	Excellent	Poor/Fair
Most Solvents	Poor/Fair	Poor	Good	Poor	Poor	Poor
Oils	Good	Excellent	Excellent	Good	Excellent	Excellent
Gasoline	Poor	Poor	Poor	Poor	Poor	Poor
Greases	Good	Excellent	Excellent	Poor	Poor	Excellent
Available in Cordsets						
<i>euromfast</i> ®	X	X	X	X	X	
<i>picofast</i> ®	X	X		X	X	X
<i>minifast</i> ®	X	X	X	X	X	
<i>microfast</i> ®	X	X	X	X		
<i>multifast</i> ®	X	X		X	X	X
<i>V*fast</i> ®	X	X	X	X		

Specialty Cable Selection Guide

Selection Criteria	Armorfast MC/ITC	† ITC/PLTC PVC	† ITC/PLTC TPU	"Super Cable" S529	XOR
Page Number	N9	N9 - N16	N17 - N19	N25	N22
Ozone and UV resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Temperatures	-25° to 105°C	-25° to 105°C	-60° to 105°C	-60° to 90°C	-50° to 80°C
Cold Bend test	-25°C	-25°C	-60°C	-60°C	-40°C
Abrasion & Cut-through resistance	Fair	Fair	Excellent	Excellent	Fair
Flexing (# of cycles)	2 million	2 million	2 million	2 million	2 million
Tensile strength (psi)	2100	2300	1800	2300	
Burn resistance	Fair/Good	Fair/Good	Excellent	Excellent	Good
Oxidation resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Water resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Cost	\$	\$\$	\$\$	\$\$	\$
Weld Slag resistance	Poor	Good	Good	Good	Excellent+250°C Short-term
Flame Test					
UL Test standards	Vertical Tray	Vertical Tray	Vertical Tray	Horizontal	N/A
CSA Test standards	FT4	FT 4	FT4	FT1	N/A
IEC Test Standards	60332-3 Cat. A	60332-3 Cat. A	60332-3 Cat. A		
IEEE Test Standards	1202	1202	1202		
Chemical Resistance					
Acids	Fair/Good	Fair/Good	Good	Good	Fair/Good
Alkalines	Good	Good	Excellent	Excellent	Good
Alcohols	Poor/Fair	Poor/Fair	Poor/Fair	Poor/Fair	Poor/Fair
Most Solvents	Poor/Fair	Poor/Fair	Poor	Poor	Poor/Fair
Oils	Good	Good	Excellent	Excellent	Good
Gasoline	Poor	Poor	Poor	Poor	Poor
Greases	Good	Good	Excellent	Excellent	Good
Available in Cordsets					
<i>eurofast</i> ®	X	X	X	X	X
<i>picofast</i> ®			X		
<i>minifast</i> ®	X	X	X		
<i>microfast</i> ®			X		
<i>multifast</i> ®		X	X		
<i>V*fast</i> ®			X		

Cordsets

† ITC/PLTC ratings found under "Type" column of PVC or PUR *reelfast*® cable tables.

TURCK

Industrial Connectivity Products

Shielded Cable Selection Guide

Selection Criteria	PVC Braided	PVC Braided & Foil	PVC Foil	TPU Braided	TPU Braided & Foil	TPU Foil
Ozone and UV resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Temperatures	-40° to 105°C	-40° to 105°C	-40° to 105°C	-60° to 90°C	-60° to 90°C	-60° to 90°C
Cold Bend test	-40°C	-40°C	-40°C	-60°C	-60°C	-60°C
Abrasion & Cut-through resistance	Fair	Fair	Fair	Excellent	Excellent	Excellent
Flexing (# of cycles)	2 million	2 million	2 million	2 million	2 million	2 million
Tensile strength (psi)	2100	2100	2100	1800	1800	1800
Burn resistance	Fair/Good	Fair/Good	Fair/Good	Good	Good	Good
Oxidation resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Water resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Cost	\$	\$\$	\$\$	\$\$\$	\$\$\$	\$\$
Flame Test						
UL Test standards	Horizontal	Horizontal	Horizontal	Vertical Tray	Vertical Tray	Vertical Tray
CSA Test standards	FT 1	FT 1	FT 1	FT 4	FT 4	FT 4
Chemical Resistance						
Acids	Fair/Good	Fair/Good	Fair/Good	Good	Good	Good
Alkalines	Good	Good	Good	Excellent	Excellent	Excellent
Alcohols	Poor/Fair	Poor/Fair	Poor/Fair	Poor/Fair	Poor/Fair	Poor/Fair
Most Solvents	Poor/Fair	Poor/Fair	Poor/Fair	Poor	Poor	Poor
Oils	Good	Good	Good	Excellent	Excellent	Excellent
Gasoline	Poor	Poor	Poor	Poor	Poor	Poor
Greases	Good	Good	Good	Excellent	Excellent	Excellent
Available in Cordsets						
euromast®	X	X	X	X	X	X
picofast®	X	X			X	X
minifast®	X	X		X	X	X
microfast®	X	X		X	X	X
multifast®	X	X			X	X
V*fast®	X	X			X	X

Note: Braid and foil information can be found under the "shield" column in **reelfast®** cable tables.



Notes:



TURCK

Industrial Connectivity Products

Cable Diameters of Potted-In Cable Sensors

Housing Style	# of Conductors	Material	AWG	Cable Dia.
H04	3	PUR	26	3
EH04	3	PUR	26	3
H04	2	PVC	26	3.2
EH04	2	PVC	26	3.2
G05	2	PVC	26	3.2
EG05	2	PVC	26	3.2
G05	3	PUR	26	3
EG05	3	PUR	26	3
H6.5	2	PVC	22	5.2
EH6.5	2	PVC	22	5.2
EH6.5K	2	PVC	22	5.2
H6.5	3	PUR	24	4
EH6.5	3	PUR	24	4
EH6.5K	3	PUR	24	4
HS540	3	PUR	26	3
HS540	3	PUR	26	3
HS865	2	PVC	24	4
HS866	3	PUR	24	4
GO8	3	PUR	24	4
GO8	2	PUR	24	4
BC3-M12	3	PVC	24	4
BC3-S12	3	PVC	24	4
G12	3	PVC	22	5.2
M12	3	PVC	22	5.2
P12	3	PVC	22	5.2
S12	3	PVC	22	5.2
G12	2	PVC	22	5.2
M12	2	PVC	22	5.2
P12	2	PVC	22	5.2

Housing Style	# of Conductors	Material	AWG	Cable Dia.
S185	3	PVC	22	5.2
BC10-M30	4	PVC	22	5.2
BC10-S30	4	PVC	22	5.2
BC10-S30	2	PVC	22	5.2
G30	3	PVC	22	5.2
M30	3	PVC	22	5.2
M30	2	PVC	21	5.2
G30	2	PVC	21	5.2
PT30	2	PUR	22	5.2
PT30	4	PVDF	22	5.2
KT34	4	PVDF	22	5.2
BC15-K34	3	PVC	22	5.2
G47	3	PVC	19	6.3
G47	2	PVC	21	7.3
Q5.5	3	PUR	26	3
QF5.5	2	PUR	26	3
QF5.5	3	PUR	26	3
Q6.5	3	PUR	26	3
Q6.5	2	PVC	22	5.2
Q9.5	3	PUR	26	3
Q06	3	PUR	24	4
Q8SE	3	PUR	26	3
BC 5-Q08	3	PVC	24	4
Q08	4	PUR	22	4
Q08	3	PUR	22	4
Q08	2	PVC	22	4
BC8-Q10	3	PVC	24	4
Q10	3	PUR	24	4

Cable Diameters of Potted-In Cable Sensors

Housing Style	# of Conductors	Material	AWG	Cable Dia.
Q11S	3	PUR	24	4
Q12	3	PUR	24	4
BC10-Q14	3	PVC	24	4
Q14	3	PUR	22	5.2
BC20-Q20	3	PUR	22	5.2
Q18	3	PVC	22	5.2
Q20	3	PUR	22	5.2
Q25	3	PVC	22	5.2
Q26	2	PVC	22	5.2
Q30	3	PVC	22	5.2
Q80	2	PVC	22	5.2
INT-AG	2	PUR	26	3
INT-Y1	2	PVC	26	3.2
INT	3	PUR	26	3
INR	3	PUR	28	2
BIM-M12E	2	PUR	22	5.2
BIM-M12E	3	PUR	22	5.2

Housing Style	# of Conductors	Material	AWG	Cable Dia.
NST	2	PVC	24	4
NST	3	PVC	24	4
PST	2	PVC	24	4
PST	3	PVC	24	4
PSM	3	PVC	24	4
KST	3	PVC	24	4
QST	2	PVC	24	4
QST	3	PVC	24	4
AKT-Y1	2	PVC	24	4
AKT-AD	2	PVC	21	4
AKT	3	PVC	24	4
IKT-Y1	2	PVC	24	4
IKT-AD	2	PVC	21	5.2
IKT	3	PVC	24	4
IKE-Y1	2	PVC	24	4
IKE-AD	2	PVC	21	4
IKE	3	PVC	24	4

4-Wire M12 eurofast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- Straight Female Connectors
- IEC IP 68 Protection
- 250 V, 4 A (Use as ITC Limited to 150 V, 3 A for 22 AWG Conductors)



Housing Style	Part Number	Cable	Application	Pinout
<p>P-RKG ..</p>	P-RKGV 4.43T-1699-*	ITC-ER/PLTC PVC Grey 3x22 AWG 105°C 5.7 mm OD Cable #RF51699-*M	3-wire DC Sensor†	1. BN 2. N/C 3. BU 4. BK
	P-RKG 4.41T-1700-*	ITC-ER/PLTC PVC Grey 4x22 AWG, 1 Triad with GND 105°C 6.2 mm OD Cable #RF51700-*M	4-wire DC Sensor†	1. BN 2. WH 3. BU 4. BK
	P-RKG 4.41T-1698-*	ITC-ER/PLTC PVC Grey 4x22 AWG Foil/Drain (22) 105°C 6.2 mm OD Cable #RF51698-*M	4-wire discrete or analog control circuits in Class I, Division 2 hazardous locations** or unclassified locations.	1. BN 2. WH 3. BU 4. BK

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKG .."; "P-RKGV .." indicates stainless steel.
** Use with **lokfast eurofast** guards (part number: LOCK-EURO-G) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (FM) or Ni-2.404 (CSA) at www.turck.com/fmcd for guidance on installation in hazardous locations.
† FM approval applies when used with sensor part number ending in "/S1751".

eurofast® lokfast Guards

Part Number	Application
LOCK-EURO-G	Nylon locking guard for straight eurofast G-body connectors (RKG, RKGV, RSG and RSGV) in Class I, Division 2 installations*. Switch part number must end in "/S1751"
LOCK-EURO-G (10/BAG)	
LOCK-EURO-FW	Nylon locking guard for straight eurofast field wireable connectors (B81..., BS81.. and BM81..) in Class I, Division 2 installations*
LOCK-EURO-FW (10/BAG)	



lokfast Open



lokfast Closed

* See **TURCK** Control Drawing QCF-00147 (FM) or Ni-2.404 (CSA) at www.turck.com/fmcd/ for guidance on installation in hazardous locations.

2-Wire M12 *eurofast*® Cordsets, Standard Plug Body

- Straight Female Connector
- NEMA 1, 3, 4, 6P
- IEC IP 68 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout
	RK 4.2T-*	AWM PVC Grey 2x20 AWG 105°C 5.1 mm OD Cable #RF50529-*M†	<i>flexlife</i> ®	1. N/C 2. N/C 3. BN 4. BU
	RK 4.2T-*/S90	ITC/PLTC TPU Grey 2x20 AWG 105°C 5.1 mm OD Cable #RF50772-*M†	Cut/Abrasion Immune	1. BN 2. N/C 3. N/C 4. BK
	RK 4.2T-*/S674	AWM PVC Grey 2x20 AWG 105°C 5.1 mm OD Cable #RF50529-*M†	<i>flexlife</i>	1. WH 2. N/C 3. N/C 4. BK
	RK 4.2T-*/S748	AWM PVC Yellow 2x22 AWG 105°C 5.1 mm OD Cable #RF50650-*M†	<i>flexlife</i>	
	RK 4.21T-*/S1511	AWM PVC Grey 2x20 AWM PVC 105°C 5.1 mm OD Cable #RF50529-*M†		
	RK 4.21T-*	AWM PVC NAMUR Blue 2x20 AWG 105°C 5.1 mm OD Cable #RF20003-*M†		
	RK 4.21T-*/S90	AWM TPU NAMUR Blue 2x20 AWG 90°C 5.1 mm OD Cable #RF50657-*M†	Cut/Abrasion Immune	1. BN 2. BU 3. N/C 4. N/C
	RK 4.22T-*	AWM PVC Grey 2x20 AWG 105°C 5.1 mm OD Cable #RF50529-*M†	<i>flexlife</i>	1. BN 2. N/C 3. BU 4. N/C
	RK 4.23T-*	AWM PVC Grey 2x20 AWG 105°C 5.1 mm OD Cable #RF50529-*M†	<i>flexlife</i>	1. BN 2. N/C 3. N/C 4. BU

eurofast

Cordsets

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
 ** Standard coupling nut material is nickel plated brass "RK.."; "RKK.." indicates nylon and "RKV.." indicates stainless steel.
 † See Section N of Connectivity Catalog for *reelfast*® cable information.

3-Wire M12 eurofast® Cordsets, Standard Plug Body

- Straight Female Connector
- NEMA 1, 3, 4, 6P
- IEC IP 68 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout
	RK 4T-*	AWM PVC Grey 3x20 AWG 105°C 5.1 mm OD Cable #RF50528-*M†	<i>flexlife</i> ®	
	RK 4T-*/S90	AWM TPU Grey 3x20 AWG 90°C 5.1 mm OD Cable #RF50518-*M†	Cut/Abrasion Immune	
	RK 4T-*/S101	AWM TPE Grey 3x20 AWG 105°C 5.7 mm OD Cable #RF50940-*M†	<i>flexLife-20</i> , High Flex Over 20 Million Cycles	
	RK 4T-*/S529	TPU/Heavy Braid Double Jacket Yellow 3x20 AWG 90°C 5.1 mm OD Cable #RF50832-*M†	Cut/Abrasion Immune Braided Mechanical Shield	
	RK 4T-*/S824	PLTC AWM PVC Grey 3x20 AWG 105°C 5.1 mm OD Cable #RF50829-*M†	Tray Rated	
	RK 4T-*/S715	AWM PVC Yellow 3x20 AWG 105°C 5.1 mm OD Cable #RF50674-*M†	<i>flexlife</i>	
	RK 4T-*/S760	AWM PVC Black 3x20 AWG 105°C 5.1 mm OD Cable #RF50795-*M†		
	RK 4T-*/S618	AWM PVC Grey 3x20 AWG Foil/Drain 105°C 5.7 mm OD Cable #RF50611-*M†		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
 **Standard coupling nut material is nickel plated brass "RK .."; "RKK .." indicates nylon and "RKV .." indicates stainless steel.
 † See Section N of Connectivity Catalog for **reelfast**® cable information.

4-Wire M12 *euromast*® Cordsets, Standard Plug Body

- Straight Female Connector
- NEMA 1, 3, 4, 6P
- IEC IP 68 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout	
	RK 4.41T-*	AWM PVC NAMUR Blue 4x22 AWG 105°C 5.1 mm OD Cable #RF50598-*M [†]	<i>flexlife</i> ®		
	RK 4.41T-*/S529	TPU/Heavy Braid Double Jacket Yellow, 4x20 AWG 90°C 5.7 mm OD Cable #RF50526-*M [†]	Cut/Abrasion Immune Braided Mechanical Shield		
	RK 4.43T-*	AWM PVC Yellow 4x22 AWG 105°C 5.1 mm OD Cable #RF50530-*M [†]	<i>flexlife</i>		
	RK 4.43T-*/S90	ITC/PLTC TPU Yellow 4x22 AWG 105°C 5.1 mm OD Cable #RF50613-*M [†]	Cut/Abrasion Immune		
	RK 4.4T-*	AWM PVC Grey 4x22 AWG 105°C 5.1 mm OD Cable #RF50516-*M [†]	<i>flexlife</i>		1. BN 2. WH 3. BU 4. BK
	RK 4.4T-*/S90	AWM TPU Grey 4x22 AWG 90°C, 5.1 mm OD Cable #RF50532-*M [†]	Cut/Abrasion Immune		
	RK 4.4T-*/S101	AWM TPE Grey 4x22 AWG 105°C, 5.7 mm OD Cable #RF50941-*M [†]	<i>flexLife-20</i> , High Flex Over 20 Million Cycles		
	RK 4.4T-*/S824	ITC/PLTC PVC Grey 4x22 AWG 105°C, 5.1 mm OD Cable #RF50698-*M [†]	Tray Rated		
	RK 4.4T-*/S618	AWM PVC Grey 4x22 AWG Foil/Drain 105°C, 5.1 mm OD Cable #RF50577-*M [†]	RFI/EMI Shielding		
RK 4.4T-*/S618/S824	ITC/PLTC PVC Grey 4x22 AWG Foil/Drain 105°C, 5.1 mm OD Cable #RF50773-*M [†]	RFI/EMI Shielding Tray Rated			

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
 ** Standard coupling nut material is nickel plated brass "RK.."; "RKK.." indicates nylon and "RKV.." indicates stainless steel.
 † See Section N of Connectivity Catalog for *reelfast*® cable information.

5-Wire M12 eurofast® Cordsets, Standard Plug Body

- Straight Female Connector
- NEMA 1, 3, 4, 6P
- IEC IP 68 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout	
	RK 4.5T-*	AWM PVC Grey 5x22 AWG 105°C 5.7 mm OD Cable #RF50543- [†] M [†]	<i>flexlife</i> ®		
	RK 4.5T-*/S90	ITC/PLTC TPU Grey 5x22 AWG 105°C 5.7 mm OD Cable #RF50649- [†] M [†]	Cut/Abrasion Immune		
	RK 4.5T-*/S101	AWM TPE Grey 5x22 AWG 105°C 5.7 mm OD Cable #RF50909- [†] M [†]	<i>flexlife-20</i> , High Flex Over 20 Million Cycles		1. BN 2. WH 3. BU 4. BK 5. GY
	RK 4.5T-*/S618	AWM PVC Grey 5x22 AWG Foil/Drain 105°C 5.7 mm OD Cable #RF50609- [†] M [†]	RFI/EMI Protection		
	RK 4.5T-*/S715	AWM PVC Yellow 5x22 AWG 105°C 5.7 mm OD Cable #RF50684- [†] M [†]	<i>flexlife</i>		
	RK 4.5T-*/S653	AWM PVC Grey 4x22 AWG Foil/Drain 105°C 5.1 mm OD Cable #RF50577- [†] M [†]	RFI/EMI Shielding		1. BN 2. WH 3. BU 4. BK 5. Drain
	RK 4.5T-*/S1554	AWM PVC Black 5x22 AWG Foil/Drain 105°C 5.7 mm OD Cable #RF50794- [†] M [†]			1. BN 2. WH 3. BU 4. BK 5. GY

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
 ** Standard coupling nut material is nickel plated brass "RK .."; "RKK .." indicates nylon and "RKV .." indicates stainless steel.
 † See Section N of Connectivity Catalog for **reelfast**® cable information.

3 and 4-Wire M12 eurofast® Cordsets, "G" Style Large Plug Body

- Straight Female Connector
- NEMA 1, 3, 4, 6P
- IEC IP 68 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout
	RKG 4T-*	ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50513-*M [†]	<i>flexlife</i> ®	
	RKG 4T-*/S600	SJOOW CPE Yellow 3x18 AWG 105°C 8.0 mm OD Cable #RF50654-*M [†]	Weld Flash Immune, Flame Resistance	
	RKG 4.4T-*	AWM PVC Yellow 4x18 AWG 105°C 7.2 mm OD Cable #RF50579-*M [†]	<i>flexlife</i>	
	RKG 4.4T-*/S90	ITC/PLTC TPU Yellow 4x18 AWG 105°C 7.2 mm OD Cable #RF50544-*M [†]	Cut/Abrasion Immune	
	RKG 4.4T-*/S101/S849	AWM TPE Grey 4x22 AWG 105°C 5.7 mm OD Cable #RF50941-*M [†]	<i>flexlife-20</i> , High Flex - Over 20 Million Cycles	
	RKG 4.4T-*/S101	AWM TPE Yellow 4x18 AWG 105°C 6.4 mm OD Cable #RF50968-*M [†]		
	RKG 4.4T-*/S600	SJOOW CPE Yellow 4x18 AWG 105°C 8.5 mm OD Cable #RF50644-*M [†]	Weld Flash Immune, Flame Resistance	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
 ** Standard coupling nut material is nickel plated brass "RKG .."; "RKGV .." indicates stainless steel.
 † See Section N of Connectivity Catalog for **reelfast**® cable information.

eurofast

Cordsets

4 and 5-Pin M12 *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- Straight Female Connectors
- IEC IP 67 Protection



Drawing	Part Number	Housing Specs.	Application	Pinout
	B 8141-0	PBT, Black PG 7 cable gland accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	B 8141-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	B 8151-0/PG 9	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with standard key 5-pin cordsets and receptacles	
	BM 8151-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals Metal Coupling Nut 85°C 60 V, 4 A	Mates with standard key 5-pin cordsets and receptacles	
	BWS 8141-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with <u>reverse</u> key 4-pin cordsets and receptacles	
	BWS 8151-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with <u>reverse</u> key 5-pin cordsets and receptacles	

4 and 5-Pin M12 eurofast® Field Wireable Connectors, Standard and Reverse Key

- Right Angle Female Connectors
- IEC IP 67 Protection



Drawing	Part Number	Housing Specs.	Application	Pinout
	B 8241-0	PBT, Black PG 7 cable gland accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	B 8241-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	B 8251-0/PG 9	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with standard key 5-pin cordsets and receptacles	
	BWS 8251-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with <u>reverse</u> key 5-pin cordsets and receptacles	

eurofast (M12x1)

Field Wireables

4 and 5-Pin M12 *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- Straight Male Connectors
- IEC IP 67 Protection



Drawing	Part Number	Housing Specs.	Application	Pinout
	BS 8141-0	PBT, Black PG 7 cable gland accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	BS 8141-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	BS 8151-0/PG 9	PBT, Black PG 9 cable gland, accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with standard key 5-pin cordsets and receptacles	
	BS 8157-0/PG 9	PBT, Black PG 9 cable gland, accepts 6-8 mm cable diameter Spring clamp accepts up to 20 AWG conductors 85°C 125 V, 4 A	Mates with standard key 5-pin cordsets and receptacles, spring clamp	
	BSWS 8141-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with <u>reverse</u> key 4-pin cordsets and receptacles	
	BSWS 8151-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with <u>reverse</u> key 5-pin cordsets and receptacles	

4 and 5-Pin M12 *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- Right Angle Male Connectors
- IEC IP 67 Protection



Drawing	Part Number	Housing Specs.	Application	Pinout
	BS 8241-0	PBT, Black PG 7 cable gland accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	BS 8241-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals 85°C 250 V, 4 A	Mates with standard key 4-pin cordsets and receptacles	
	BS 8251-0/PG 9	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with standard key 5-pin cordsets and receptacles	
	BSWS 8241-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	Mates with <u>reverse</u> key 4-pin cordsets and receptacles	
	BSWS 8251-0	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 V, 4 A	Mates with <u>reverse</u> key 5-pin cordsets and receptacles	

eurofast (M12x1)

Field Wireables

3-Wire M8 *pico fast*® Cordsets, Snap Lock (Locking Sleeve)

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 125 VAC/VDC, 4 A



Housing Style	Part Number	Cable	Features	Pinout
<p>PKG..Z**</p> <p>1.260 [32.0]</p> <p>0.404 [10.2]</p> <p>LOCKING SLEEVE</p>	PKG 3Z-*	AWM PVC Yellow 3x24 AWG 105°C 4.4 mm OD Cable #RF50642-*M†	<i>flexlife</i> ®	<p>1. BN 3. BU 4. BK</p>
	PKG 3Z-*/S90	AWM TPU Black 3x24 AWG 90°C 4.4 mm OD Cable #RF50587-*M†	Cut/Abrasion Immune	
	PKG 3Z-*/S90/S101	AWM TPU Black 3x24 AWG 90°C 4.5 mm OD Cable #RF51166-*M†	Cut/Abrasion Immune, <i>flexlife</i> -20, High Flex - Over 20 Million Cycles	
	PKG 3Z-*/S90/S618	AWM TPU Black 3x24 AWG 90°C 4.4 mm OD Cable #RF50601-*M†	Cut/Abrasion Immune, EMI/RFI Protection	
	PKG 3Z-*/X0R	Irradiated PVC Orange 3x24 AWG 80°C, 250°C short term 4.4 mm OD Cable #RF04449-*M†	Weld Flash Immune, High Temp. Immune	
	PKG 3Z-*/S760	AWM PVC Black 3x24 AWG 105°C 4.4 mm OD Cable #RF50585-M†	<i>flexlife</i>	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.

** Locking sleeve material is POM.. "PKG..Z".

† See Section N of Connectivity Catalog for *reelfast*® cable information.

4-Wire M8 picofast® Cordsets, Snap Lock (Locking Sleeve)

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 125 VAC/VDC, 2 A



Housing Style	Part Number	Cable	Features	Pinout	
	PKG 4Z-*	AWM PVC Yellow 4x26 AWG 105°C 4.4 mm OD Cable #RF50697-*M†	<i>flexlife</i> ®		
	PKG 4Z-*/S90	AWM TPU Black 4x26 AWG 90°C 4.4 mm OD Cable #RF50586-*M†	Cut/Abrasion Immune		
	PKG 4Z-*/S90/S101	AWM TPU Black 4x26 AWG 90°C 4.4 mm OD Cable #RF50935-*M†	Cut/Abrasion Immune, <i>flexlife</i> -20, High Flex - Over 20 Million Cycles	1. BN 2. WH 3. BU 4. BK	
	PKG 4Z-*/S90/S618	AWM TPU Black 4x26 AWG 90°C 4.4 mm OD Cable #RF50602-*M†	Cut/Abrasion Immune, EMI/RFI Protection		
	PKG 4Z-*/S760	AWM PVC Black 4x26 AWG 105°C 4.4 mm OD Cable #RF50870-*M†	<i>flexlife</i>		
	PKG 4Z-*/S90/S653	AWM TPU Black 3x24 AWG 90°C 4.4 mm OD Cable #RF50601-*M†	Cut/Abrasion Immune, EMI/RFI Protection	1. BN 2. Drain 3. BU 4. BK	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
 ** Locking sleeve material is POM.."PKG..Z".
 † See Section N of Connectivity Catalog for **reelfast**® cable information.

3-Wire M8 *picofast*® Cordsets, Threaded Coupling Nut

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 125 VAC/VDC, 4 A



Housing Style	Part Number	Cable	Features	Pinout	
	PKG 3M-*	AWM PVC Yellow 3x24 AWG 105°C 4.4 mm OD Cable #RF50642-*M†	<i>flexlife</i> ®		
	PKG 3M-*/S90	AWM TPU Black 3x24 AWG 90°C 4.4 mm OD Cable #RF50587-*M†	Cut/Abrasion Immune		
	PKG 3M-*/S90/S101	AWM TPU Black 3x24 AWG 90°C 4.5 mm OD Cable #RF51166-*M†	Cut/Abrasion Immune, <i>flexlife</i> -20, High Flex - Over 20 Million Cycles	1. BN 3. BU 4. BK	
	PKG 3M-*/S90/S618	AWM TPU Black 3x24 AWG 90°C 4.4 mm OD Cable #RF50601-*M†	Cut/Abrasion Immune, EMI/RFI Protection		
	PKG 3M-*/S1587	AWM TPE Yellow 3x24 AWG 105°C 4.4 mm OD Cable #RF51271-*M†	<i>weldlife</i> ®, Weld Flash Immune		
	PKG 3M-*/S760	AWM PVC Black 3x24 AWG 4.4 mm OD Cable #RF50585-M†	<i>flexlife</i>		
	PKG 3M-*/S90/S1084	AWM TPU Black 2x24 AWG 90°C 4.4 mm OD Cable #RF51197-*M†	Cut/Abrasion Immune, Shielded	1. BN 3. BU 4. Drain	
	PKG 3M-*/XOR	Irradiated PVC Orange 3x24 AWG 80°C, 250°C short term 4.4 mm OD Cable #RF04449-*M†	Weld Flash Immune, High Temp. Immune	1. BN 3. BU 4. BK	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
 ** Standard coupling material is nickel plated brass. "PKG..M"; "PKGV..M" indicates stainless steel.
 † See Section N of Connectivity Catalog for *reelfast*® cable information.

4-Wire M8 *picofast*® Cordsets, Threaded Coupling Nut

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 125 VAC/VDC, 2 A



Housing Style	Part Number	Cable	Features	Pinout
	PKG 4M-*	AWM PVC Yellow 4x26 AWG 105°C 4.4 mm OD Cable #RF50697-*M†	<i>flexlife</i> ®	<ol style="list-style-type: none"> BN WH BU BK
	PKG 4M-*/S90	AWM TPU Black 4x26 AWG 90°C 4.4 mm OD Cable #RF50586-*M†	Cut/Abrasion Immune	
	PKG 4M-*/S90/S101	AWM TPU Black 4x26 AWG 90°C 4.4 mm OD Cable #RF50935-*M†	Cut/Abrasion Immune, <i>flexlife</i> -20, High Flex - Over 20 Million Cycles	
	PKG 4M-*/S90/S618	AWM TPU Black 4x26 AWG 90°C 4.4 mm OD Cable #RF50602-*M†	Cut/Abrasion Immune, EMI/RFI Protection	
	PKG 4M-*/S760	AWM PVC Black 4x26 AWG 105°C 4.4 mm OD Cable #RF50870-*M†	<i>flexlife</i>	
	PKG 4M-*/S90/S653	AWM TPU Black 3x24 AWG 90°C 4.4 mm OD Cable #RF50601-*M†	Cut/Abrasion Immune, EMI/RFI Protection	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters.
 ** Standard coupling material is nickel plated brass..“PKG..M”; “PKGV..M” indicates stainless steel.
 † See Section N of Connectivity Catalog for *reelfast*® cable information.

picofast (M8x1)

Cordsets

3 and 4-Pin M8 picofast® Field Wireable Connectors, Standard

- Female Connectors
- IEC IP 67 Protection



Drawing	Part Number	Specifications	Application	Pinout
	B 5131-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin threaded cordsets and receptacles	
	B 5141-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 30 VAC/ 36 VDC, 3.0 A	Mates with 4-pin threaded cordsets and receptacles	
	B 5133-0	PBT, Black Accepts 3-5 mm cable diameter Screw terminals, accepts up to 22 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin threaded cordsets and receptacles	
	B 5143-0	PBT, Black Accepts 3-5 mm cable diameter Screw terminals, accepts up to 22 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 4-pin threaded cordsets and receptacles	
	B 5231-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin threaded cordsets and receptacles	
	B 5241-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 30 VAC/ 36 VDC, 3.0 A	Mates with 4-pin threaded cordsets and receptacles	

3 and 4-Pin M8 *picofast*® Field Wireable Connectors, Standard

- Male Connectors
- IEC IP 67 Protection



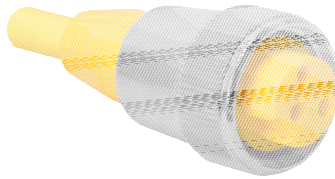
Drawing	Part Number	Specifications	Application	Pinout
	BS 5131-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin threaded cordsets and receptacles	
	BS 5141-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 30 VAC/ 36 VDC, 4 A	Mates with 4-pin threaded cordsets and receptacles	
	BS 5133-0	PBT, Black Accepts 3-5 mm cable diameter Screw terminals, accepts up to 22 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin threaded cordsets and receptacles	
	BS 5143-0	PBT, Black Accepts 3-5 mm cable diameter Screw terminals, accepts up to 22 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 4-pin threaded cordsets and receptacles	
	BS 5132-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 26 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin female snap-lock cordsets, receptacles and junction boxes and threaded cordsets	
	BS 5231-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 60 VAC/ 75 VDC, 4 A	Mates with 3-pin threaded cordsets and receptacles	
	BS 5241-0	PBT, Black Accepts 3-5 mm cable diameter Solder terminals, accepts up to 24 AWG conductors 85°C 30 VAC/ 36 VDC, 4 A	Mates with 4-pin threaded cordsets and receptacles	

picofast (M8x1)

Field Wireables

2 and 3-Wire 7/8" minifast® Cordsets, Standard

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 300 V, 9 A



Housing Style	Part Number	Cable	Features	Pinout	
<p>RKM..**</p>	RKM 20- *M	AWM PVC Yellow 2x18 AWG 105°C 7.2 mm OD Cable #RF50511-*M†	<i>flexlife®</i>	1. BN 2. BU 	
	RKM 30-*M	AWM PVC Yellow 3x18 AWG 105°C, 7.2 mm OD Cable #RF50512-*M†	<i>flexlife</i>	1. GN/YE 2. BN 3. BU	
	RKM 30-*M/S90	AWM TPU Yellow 3x18 AWG 90°C, 7.2 mm OD Cable #RF50545-*M†	Cut Abrasion Immune		
	RKM 30-*M/S101	AWM TPE Yellow 3x18 AWG 105°C, 5.9 mm OD Cable #RF51173-*M†	<i>flexlife-20, high flex over 20 million cycles</i>	1. GN 2. RD/BK 3. RD/WH 	
	RKM 311-*M	AWM PVC Yellow 3x18 AWG 105°C, 7.2 mm OD Cable #RF50520-*M†	<i>flexlife</i>		
	RKM 311-*M/S600	SJOOW CPE, Yellow 3x18 AWG 105°C, 8.0 mm OD Cable #RF50658-*M†	Weld Flash Immune, Flame Immune		
	<p>RKVH..</p>	RKM 311-*M/X0R/S620	Irradiated PVC Yellow 3x18 AWG 80°C, 250°C Short Term 5.7 mm OD Cable #RF04159-*M†	Weld Resistance	1. GN 2. RD 3. RD/WH
		RKM 311-*M/S1587	AWM TPE Yellow 3x18 AWG 7.2 mm OD Cable #RF50957-*M	<i>weldlife</i> , Weld Flash Immune	1. BK 2. BN 3. BU
		RKM 31-*M	ITC/PLTC PVC Yellow 3x18 AWG 105°C, 7.2 mm OD Cable #RF50513-*M†	<i>flexlife</i>	
		RKM 31-*M/S600	SJOOW CPE Yellow 3x18 AWG 105°C, 8.0 mm OD Cable #RF50654-*M†	Weld Flash Immune, Flame Immune	
RKM 31-*M/S759	PVC Grey 3x22 AWG 80°C, 5.2 mm OD Cable #RF04106-*M†	Braided Shield			

* Length in Meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

† See Section N of Connectivity Catalog for **reelfast®** cable information.

3 and 4-Wire 7/8" minifast® Cordsets, Standard

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 300 V, 9 A



Housing Style	Part Number	Cable	Features	Pinout
<p>RKM..**</p> <p>RKVH..**</p>	RKM 31-*M/S816	AWM PVC Yellow 3x20 AWG 105°C 5.1 mm OD Cable #RF50674-*M†	flexlife	1. BK 2. BN 3. BU
	RKM 40-*M	AWM PVC Yellow 4x18 AWG 105°C 7.2 mm OD Cable #RF50548-*M†	flexlife®	
	RKM 40-*M/S90	ITC/PLTC TPU Yellow 4x18 AWG 105°C 7.2 mm OD Cable #RF50544-*M†	Cut/Abrasion Immune	
	RKM 40-*M/S101	AWM TPE Yellow 4x18 AWG 105°C 6.4 mm OD Cable #RF50968-*M†	flexlife-20, High Flex - Over 20 million cycles	1. BN 2. WH 3. BU 4. BK
	RKM 40-*M/S529	TPU Yellow 4x20 AWG 90°C 5.7 mm OD Cable #RF50526-*M†	Cut/Abrasion Immune, Braided Mechanical Shield	
	RKM 40-*M/S600	SJOOW CPE Yellow 4x18 AWG 105°C 8.5 mm OD Cable #RF50644-*M†	Weld Flash Immune, Flame Immune	
	RKM 40-*M/S824	ITC PLTC PVC Yellow 4x18 AWG 105°C 7.2 mm OD Cable #RF50844-*M†	flexlife	
	RKM 40-*M/S1587	ITC PLTC TPE Yellow 4x18 AWG 105°C 7.2 mm OD Cable #RF50956-*M†	weldlife, Weld Flash Immune	

minifast (7/8-16UN)

Cordsets

* Length in Meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

† See Section N of Connectivity Catalog for reelfast® cable information.

5-Wire 7/8" *minifast*® Cordsets, Standard

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 300 V, 9 A



Housing Style	Part Number	Cable	Features	Pinout	
<p>RKM..**</p> <p>RKVH..**</p>	RKM 50-*M	AWM PVC Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF50549-*M [†]	<i>flexlife</i> ®	<ol style="list-style-type: none"> 1. BK 2. BU 3. GN/YE 4. BN 5. WH 	
	RKM 50-*M/S90	AWM TPU Yellow 5x18 AWG 90°C 7.2 mm OD Cable #RF50751-*M [†]	Cut/Abrasion Immune		
	RKM 50-*M/S101	AWM TPE Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF51174-*M [†]	<i>flexlife</i> -10, high flex over 10 million cycles		
		RKM 50-*M/S1551	AWM PVC Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF50578-*M [†]	Yellow conductor instead of Green/Yellow	<ol style="list-style-type: none"> 1. BK 2. BU 3. YE 4. BN 5. WH
		RKM 511-*M	AWM PVC Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF50521-*M [†]	<i>flexlife</i>	<ol style="list-style-type: none"> 1. RD/WH 2. RD/BU 3. GN 4. RD/OG 5. RD/BK
		RKM 511-*M/S600	SJOOW CPE Yellow 5x18 AWG 105°C 9.2 mm OD Cable #RF50659-*M [†]	Weld Flash Immune, Flame Immune	
		RKM 511-*M/S1587	AWM TPE Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF50958-*M [†]	<i>weldlife</i> , Weld Flash Immune	

* Length in Meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.

** Standard coupling nut material is nickel plated brass "RKM .."; "RK .." indicates nylon, "RKV .." indicates stainless steel, and "RKVH .." indicates stainless steel hex.

† See Section N of Connectivity Catalog for *reelfast*® cable information.

3 and 4-Pin *minifast*® Field Wireable Connectors

- **Straight Female Connectors**
- **IEC IP 67 Protection**



Drawing	Part Number	Specs	Application	Pinout
<p>B 41 ..</p>	B 4131-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	Mates with all 3-pin cordsets and receptacles	
	B 4131-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	Mates with all 3-pin cordsets and receptacles	
	B 4141-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 4-pin cordsets and receptacles	
	B 4141-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 4-pin cordsets and receptacles	

minifast (7/8-16UN)

Field Wireables

5-Pin *minifast*® Field Wireable Connectors

- Straight Female Connectors
- IEC IP 67 Protection



Drawing	Part Number	Specs	Application	Pinout
<p>B 41 ..</p> <p>3.110 [79.0] REF</p> <p>ø1.063 [27.0]</p> <p>7/8-16UN</p>	B 4151-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 5-pin cordsets and receptacles	
	B 4151-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 5-pin cordsets and receptacles	
	B 4151-0/16	Glass filled nylon PG 16 cable gland, accepts 12-14 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 5-pin cordsets and receptacles	

3 and 4-Pin *minifast*® Field Wireable Connectors

- **Straight Male Connectors**
- **IEC IP 67 Protection**



Drawing	Part Number	Specs	Application	Pinout
<p>BS 41 ..</p>	BS 4131-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	Mates with all 3-pin cordsets and receptacles	
	BS 4131-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	Mates with all 3-pin cordsets and receptacles	
	BS 4141-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 4-pin cordsets and receptacles	
	BS 4141-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 4-pin cordsets and receptacles	

minifast (7/8-16UN)

Field Wireables

5-Pin *minifast*® Field Wireable Connectors

- Straight Male Connectors
- IEC IP 67 Protection



Drawing	Part Number	Specs	Application	Pinout
<p>BS 41 ..</p>	BS 4151-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 5-pin cordsets and receptacles	
	BS 4151-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 5-pin cordsets and receptacles	
	BS 4151-0/16	Glass filled nylon PG 16 cable gland, accepts 12-14 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	Mates with all 5-pin cordsets and receptacles	

3-Wire 1/2" microfast® Cordsets, Standard Duty

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout	
	KB 3T-*	AWM PVC Yellow 3x22 AWG 105°C 5.1 mm OD Cable #RF50531- [†] M [†]	<i>flexlife®</i>		
	KB 3T-*/S90	AWM TPU Yellow 3x18 AWG 90°C 5.7 mm OD Cable #RF50547- [†] M [†]	Cut/Abrasion Immune	1. GN 2. RD/BK 3. RD/WH	
	KB 3T-*/S105	AWM PVC Yellow 3x22 AWG 105°C 5.7 mm OD Cable #RF50535- [†] M [†]	Braided Copper Shield		
	KB 3T-*/S749	AWM PVC Yellow 2x22 AWG 105°C 5.1 mm OD Cable #RF50650- [†] M [†]	3-pin with 2 conductors	1. N/C 2. BK 3. WH	
	KB 3T-*/S1507	AWM TPE Grey 3x20 AWG 105°C 5.7 mm OD Cable #RF50940- [†] M [†]	Flexlife-20, High Flex - Over 20 million cycles	1. BK 2. BN 3. BU	
	KB 3T-*/X0R	Irradiated PVC Yellow 3x18 AWG 80°C 250°C short term 5.7 mm OD Cable #RF04159- [†] M [†]	Weld Flash Immune, High Temp Immune	1. GN 2. RD 3. RD/WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
 ** Standard coupling nut material is nickel plated brass "KB.."; "KBK.." indicates nylon and "KBV.." indicates stainless steel.
 † See Section N of Connectivity Catalog for **reelfast®** cable information.

microfast (1/2-20UNF)

Cordsets

4 and 5-Wire 1/2" *microfast*® Cordsets, Standard Duty

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout
<p>KB..**</p>	KB 4T-*	AWM PVC Yellow 4x22 AWG 105°C 5.7 mm OD Cable #RF50555-*M†	<i>flexlife</i> ®	
	KB 4T-*/S90	AWM TPU Yellow 4x22 AWG 105°C 5.7 mm OD Cable #RF50614-*M†	Cut/Abrasion Immune	1. RD/BK 2. RD/WH 3. RD 4. GN
	KB 4T-*/S105	AWM PVC Yellow 4x22 AWG 105°C 5.7 mm OD Cable #RF50656-*M†	Braided Copper Shield	
	KB 4T-*/S727	AWM TPU Grey 4x22 AWG 90°C 5.2 mm OD Cable #RF50532-*M†	Special Conductor Color Code	1. BN 2. BU 3. BK 4. WH
	KB 5T-*	AWM PVC Yellow 5x22 AWG 105°C 5.7 mm OD Cable #RF50556-*M†	<i>flexlife</i>	1. RD/WH 2. RD 3. GN 4. RD/YE 5. RD/BK
<p>KBK..**</p>				

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

**Standard coupling nut material is nickel plated brass "KB .."; "KBK .." indicates nylon and "KBV .." indicates stainless steel.

† See Section N of Connectivity Catalog for *reelfast*® cable information.

3 and 5-Wire 1/2" microfast® Cordsets, Large Plug Body

- Straight Female Connectors
- NEMA 1, 3, 4, 6P
- IEC IP 67 Protection
- 250 V, 4 A



Housing Style	Part Number	Cable	Features	Pinout
<p>KBE.**</p>	KBE 3T-*	AWM PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50520-*M†	flexlife	<ol style="list-style-type: none"> GN RD/BK RD/WH
	KBE 3T-*/S600	SJOOW CPE Yellow 3x18 AWG 105°C 8.0 mm OD Cable #RF50658-*M†	Weld Flash Immune, Flame Immune	
	KBE 3T-*/S1587	AWM TPE Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50957-*M†	Weldlife, Weld Flash Immune	
	KBE 5T-*	AWM PVC Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF50521-*M†	flexlife	<ol style="list-style-type: none"> RD/WH RD/BU GN RD/OG RD/BK
	KBE 5T-*/S600	SJOOW CPE Yellow 5x18 AWG 105°C 9.3 mm OD Cable #RF50659-*M†	Weld Flash Immune, Flame Immune	
	KBE 5T-*/S1587	AWM TPE Yellow 5x18 AWG 105°C 7.2 mm OD Cable #RF50958-*M†	Weldlife, Weld Flash Immune	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

**KBE large plug body has no stainless steel or nylon options.

† See Section N of Connectivity Catalog for reelfast® cable information.

microfast (1/2-20UNF)

Cordsets

3-Pin *microfast*® Field Wireable Connectors

- Straight Male and Female Connectors
- IEC IP 67 Protection



Drawing Number	Part Number	Cable	Features	Pinout
	MF 3131-0	PBT, Black PG 7 cable diameter gland, accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductor 85°C 250 V, 4 A	Mates with 3-wire Cordsets and Receptacles	
	MFS 3131-0	PBT, Black PG 7 cable diameter gland, accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductor 85°C 250 V, 4 A	Mates with 3-wire Cordsets and Receptacles	

3-Pin *microfast*® Field Wireable Connectors

- Right Angle Male and Female Connectors
- IEC IP 67 Protection



Drawing Number	Part Number	Cable	Features	Pinout
	MF 3231-0	PBT, Black PG 7 cable diameter gland, accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductor 85°C 250 V, 4 A	Mates with 3-wire Cordsets and Receptacles	
	MFS 3231-0	PBT, Black PG 7 cable diameter gland, accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductor 85°C 250 V, 4 A	Mates with 3-wire Cordsets and Receptacles	

microfast (1/2-20UNF)

Field Wireables

Sensors

Accessories

Selection Guide

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<p>Cushion Mount</p>	<p>Mounting Blocks</p>	<p>Mounting Brackets</p>
		
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Selection Guide

Plastic Covers



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Threaded and Bolt on Tank Wells



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Conduit Adapters



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Cable Glands



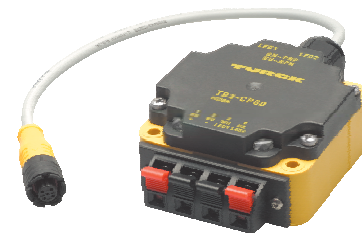
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Lockwashers and Locknuts



Page L24

Test Box



Page L26

Limit Value Monitor



Page L26

Smart Plugs



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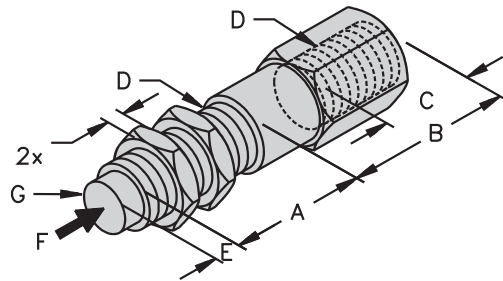
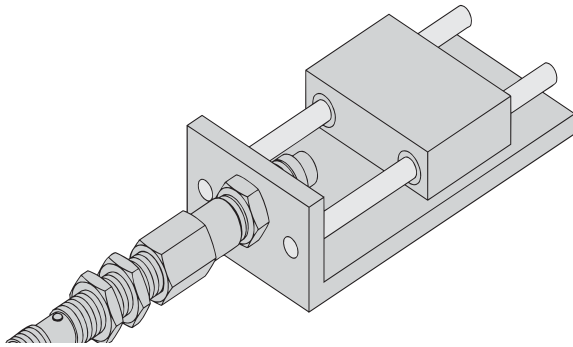
Sensors

Accessories

Die Protector

Part Number	ID Number	Dimensions							
		A	B	C	D	E	F	G	H
DP-08-25-08	A2521	0.984 [25.0]	1.252 [31.8]	0.657 [16.7]	M8x1	.170 [4.3]	2000 N 450 lbft	0.230 [5.84]	0.437 [11.1]
DP-08-50-08	A9473	1.97 [50.0]							
DP-12-25-12	A2519	0.984 [25.0]			M12x1		20500 N 4608 lbft	0.370 [9.40]	0.618 [15.7]
DP-12-50-12	A9169	1.969 [50.0]			M12x1				
DP-18-25-18	A2520	0.984 [25.0]			M18x1		20500 N 4608 lbft	0.559 [14.2]	.870 [22.1]
DP-18-75-18	A9527	2.95 [75.0]							

Inches [mm]



Recommended Sensors for Die Protector

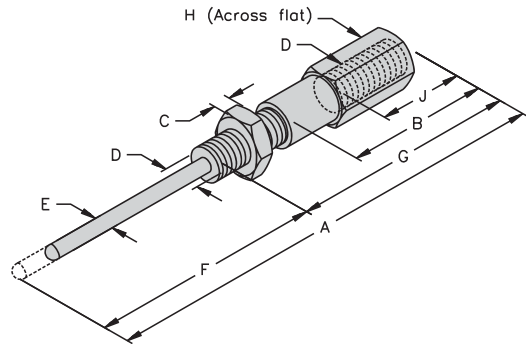
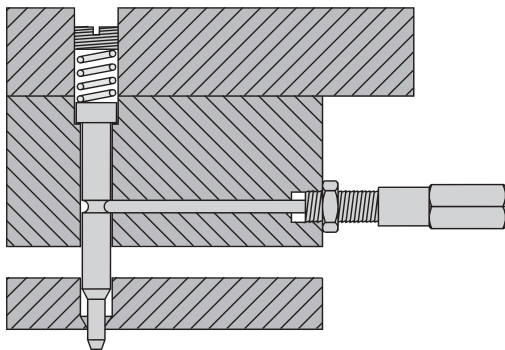
Die Protector	DP-08-25-08	DP-12-25-12	DP-18-25-18
Sensors	Bi 1.5U-EG08-AP6X Bi 2-EG08-AP6X	Bi 2-G12-AP6X-H1141	Bi 5-G18-AP6X (When not fully engaged)

Note: Works with all shielded NPN, PNP, quick disconnect or potted-in cable versions of the listed part numbers.

Whisker Probe

Part Number	ID Number	Dimensions									Probe Travel
		A	B	C	D	E	F	G	H	J	
WP-08-50-03	A2527	3.921 [99.6]	1.252 [31.8]	0.150 [3.8]	M8x1	.126 [3.2]	2.000 [50.8]	1.949 [49.5]	.437 [11.1]	0.858 [21.8]	For activation: .071[1.80] to .075[1.91] Maximum: .080[2.03]
WP-12-50-03	A2528	3.921 [99.6]	1.252 [31.8]	0.150 [3.8]	M12x1	.126 [3.2]	2.000 [50.8]	1.949 [49.5]	.437 [11.1]	0.858 [21.8]	For activation: .056(1.42) to .080(2.03) Maximum: .085[2.15]
WP-12-50-06	A2529	3.921 [99.6]	1.252 [31.8]	0.150 [3.8]	M12x1	.252 [6.4]	2.000 [50.8]	1.949 [49.5]	.622 [15.8]	0.709 [18.0]	
WP-12-100-06	A9195	5.91 [150]	1.252 [31.8]	0.150 [3.8]	M12x1	.252 [6.4]	4.00 [102]	1.949 [49.5]	.622 [15.8]	0.709 [18.0]	

Inches [mm]



Recommended Sensors for Whisker Probe

Whisker Probe	WP-08-50-03	WP-12-50-03	WP-12-50-06
Sensors	Bi 1-G08-AN6 Bi 1.5-G08-AP6X Bi 1.5U-EG08-AP6X Bi 2-EG08-AP6X	Bi 2-G12-AP6X-H1141 Bi 3U-M12-AP6X-H1141	Bi 2-G12-AP6X-H1141 Bi 3U-M12-AP6X-H1141

Note: Works with all shielded NPN, PNP, quick disconnect or potted-in cable versions of the listed part numbers.

Accessories

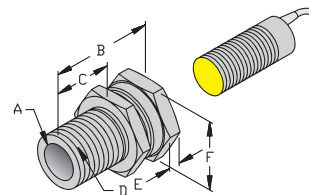
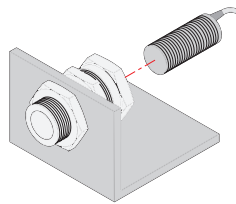
Sensors Accessories

Quick Mount

Part Number	ID Number	Features	Dimensions					
			A	B	C	D	E	F
QM-08	A2511		0.32 [8.18]	1.28 [32.4]	0.69 [17.5]	M12x1	0.15 [3.85]	0.67 [16.9]
QM-08L	A2512	Ext. Length		1.90 [48.0]	1.34 [34.0]			
QM-08L-T	A9441	Ext. Length, PTFE		1.90 [48.0]	1.34 [34.0]			
QM-12	A2513		0.48 [12.1]	1.34 [33.7]	0.77 [19.5]	M16x1	0.16 [4.01]	0.86 [21.8]
QM-12L	A2514	Ext. Length		1.76 [44.8]	1.18 [30.0]			
QM-12L-T	A2542	Ext. Length, PTFE		1.76 [44.8]	1.18 [30.0]			
QM-18	A2515		0.71 [18.1]	1.52 [38.5]	0.79 [20.0]	M24x1.5	0.19 [4.95]	1.18 [30.0]
QM-18L	A2516	Ext. Length		2.28 [58.0]	1.57 [40.0]			
QM-18L-T	A2543	Ext. Length, PTFE		2.28 [58.0]	1.57 [40.0]			
QM-30	A2517		1.19 [30.1]	1.50 [35.0]	0.79 [20.0]	M36x1.5	0.24 [6.13]	1.61 [41.0]
QM-30L	A2518	Ext. Length		2.28 [58.0]	1.57 [40.0]			
QM-30L-T	A2544	Ext. Length, PTFE		2.28 [58.0]	1.57 [40.0]			

Inches [mm]

Material: Nickel plated brass



Cushion Mount

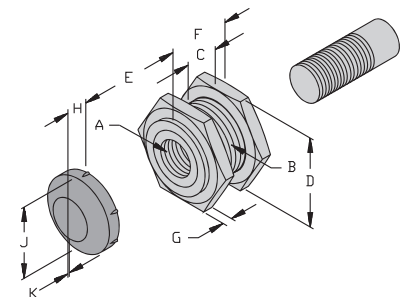
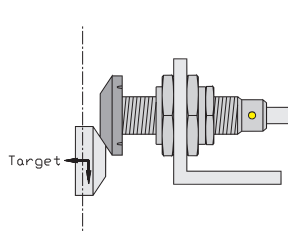
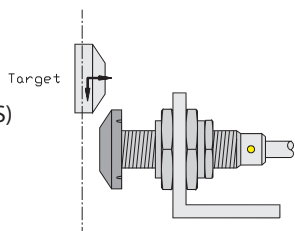
Part Number	ID Number	Dimensions									
		A (INSIDE THREAD)	B (OUTSIDE THREAD)	C (MAX.)	D (Across FLATS)	E (MAXIMUM ALLOWABLE OVERTRAVEL)	F	G	H	J	K
CM-08 CM-08N	A2503 A2504	M8x1	M16x1.5	.433 [11.0]	.875 [22.2]	.395 [10.0]	.87 [22.1]	.155 [3.94]	5.33 [0.21]	.600 [15.2]	0.25 [0.01]
CM-12 CM-12N	A2505 A2506	M12x1	M22x1.5	.433 [11.0]	1.19 [30.2]	.395 [10.0]	.87 [22.1]	6.35 [0.25]	.245 [6.22]	.90 [22.9]	.51 [0.02]
CM-18 CM-18N	A2507 A2508	M18x1	M30x1.5	.598 [15.2]	1.38 [35.1]	.395 [10.0]	1.17 [29.7]	8.38 [0.33]	.33 [8.38]	1.18 [30.0]	0.76 [0.03]
CM-30 CM-30N	A2509 A2510	M30x1.5	M47x1.5	.972 [24.7]	2.05 [52.1]	.591 [15.0]	1.47 [37.3]	7.62 [0.30]	.30 [7.62]	1.72 [43.7]	0.76

Material:

Cap: Plastic

Housing: Anodized aluminum

Stainless versions available (*NSS)



Mounting Blocks

Part Number	ID Number	Barrel Diameter	Material: Aluminum Finish: Black Anodized
MBS 40	S6947700	4.0 mm	
MBS 65	S6947800	6.5 mm	
MBS-80	S6947900	8.0 mm	

MBS-40

MBS-65

MBS-80

For use with H Barrel *picoprox*® sensors.

Part Number	ID Number	Barrel Diameter	Dimensions									
			A	B	C	D	E	F	G	H	J	K
MB-S12	A3150	12 mm	0.44 [11.2]	0.24 [6.2]	0.77 [19.6]	0.20 [5.0]	0.34 [8.7]	0.20 [5.0]	0.45 [11.4]	1.26 [32.0]	0.91 [23.0]	M12x1
MB-S18	A3155	18mm	0.63 [16.0]	0.30 [7.6]	1.20 [30.5]	0.22 [5.5]	0.38 [9.6]	0.25 [6.4]	0.57 [14.5]	1.80 [45.8]	1.15 [29.3]	M18x1

Material: Delrin

For use with 12 and 18 mm threaded barrel sensors. Mounting hardware included.

Sensors

Accessories

Mounting Brackets

Part Number	ID Number
MB-Q130	A3145

Material: Stainless Steel

For use with Bottle and Can sensors.

Part Number	ID Number
LSAP-2	M6942900

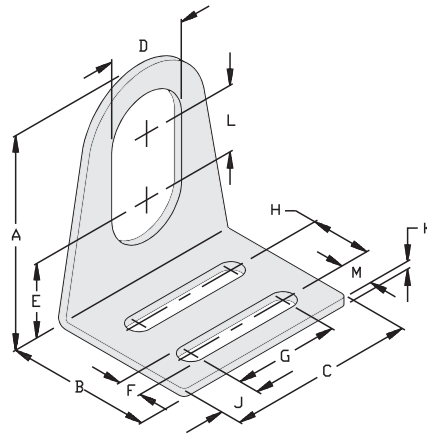
Material: Stainless Steel

For use with Limit Switch Style *combiprox*, *C*prox* and *multiprox* sensors.

Mounting Brackets

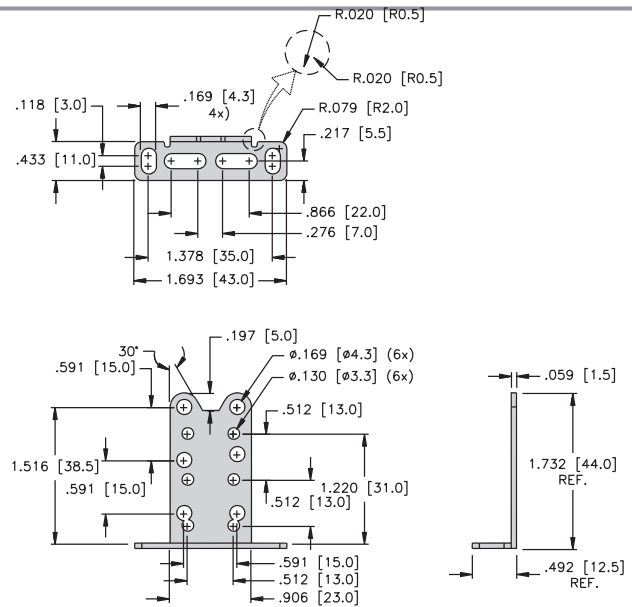
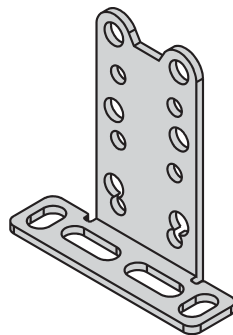
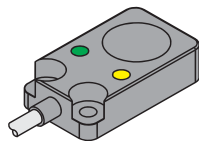
Part Number	ID Number	Dimensions											
		A	B	C	D	E	F	G	H	J	K	L	M
MBSS-08	A2522	1.00 [25.4]	1.13 [28.7]	1.25 [31.8]	.344 [8.74]	.312 [7.92]	.218 [5.54]	.625 [15.9]	.468 [11.9]	.312 [7.92]	.070 [1.78]	.375 [9.53]	.281 [7.14]
MBSS-12	A2523	1.50 [38.1]	1.37 [34.8]	1.50 [38.1]	.500 [12.7]	.550 [13.9]	.218 [5.54]	.750 [19.1]	.563 [14.3]	.375 [9.53]	.070 [1.78]	.500 [12.7]	.312 [7.92]
MBSS-18	A2524	2.00 [50.8]	1.37 [34.8]	1.75 [44.5]	.750 [19.1]	.218 [5.54]	.218 [5.54]	1.00 [25.4]	.563 [14.3]	.375 [9.53]	.070 [1.78]	.625 [15.9]	.312 [7.92]
MBSS-30	A2525	2.50 [63.5]	1.75 [44.5]	2.25 [57.2]	1.18 [30.5]	.907 [23.0]	.218 [5.54]	1.37 [34.8]	.812 [20.6]	.440 [11.2]	.085 [2.16]	.750 [19.1]	.406 [10.3]
MBSS-47	A2526	3.50 [88.9]	2.00 [50.8]	2.50 [63.5]	1.87 [47.5]	1.50 [38.1]	.218 [5.54]	1.50 [38.1]	1.00 [25.4]	.500 [12.7]	.120 [3.05]	.750 [19.1]	.500 [12.7]

Inches [mm]
Material: 304 Stainless Steel



Part Number	ID Number
MB-Q08/Q10	A3563

Inches [mm]
Material: Stainless Steel
For use with Q08 or Q10 sensors:



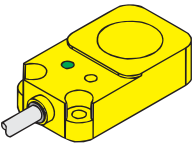
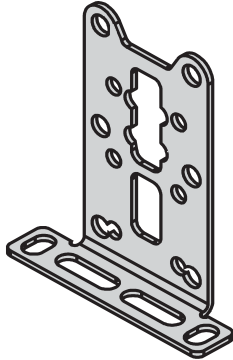
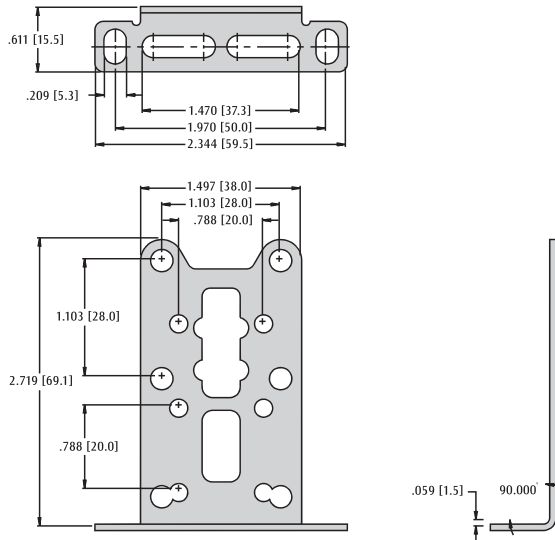
Sensors

Accessories

Mounting Brackets

Part Number	ID Number
MB-Q14/20	A3147

Material: Stainless Steel
For use with Q14 or Q20 sensors:

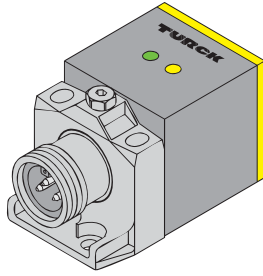
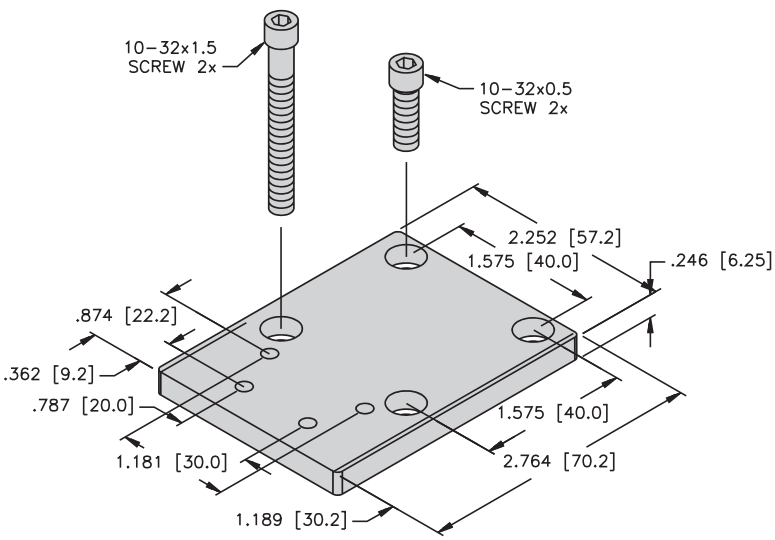
Technical drawing dimensions (Inches [mm]):

- Top view: .611 [15.5], .209 [5.3], 1.470 [37.3], 1.970 [50.0], 2.344 [59.5]
- Front view: 1.497 [38.0], 1.103 [28.0], .788 [20.0], 1.103 [28.0], 2.719 [69.1], .788 [20.0]
- Detail: .059 [1.5], 90.000

Inches [mm]

Part Number	ID Number
MB-Q50/CK40	A3148

Material: Stainless Steel
For use with Q50 or CK40 sensors:

Technical drawing dimensions (Inches [mm]):

- Top view: .874 [22.2], .362 [9.2], .787 [20.0], 1.181 [30.0], 1.189 [30.2], 2.252 [57.2], 1.575 [40.0], .246 [6.25], 1.575 [40.0], 2.764 [70.2]
- Hardware: 10-32x1.5 SCREW 2x, 10-32x0.5 SCREW 2x

Inches [mm]

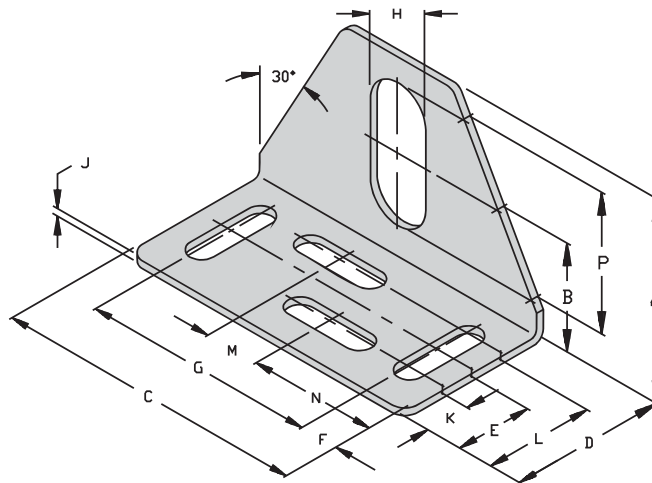
Mounting Brackets

Part Number	ID Number
MB-Q80	A3144

Bracket: Plastic
Inserts: Stainless Steel
For use with Q80 sensors:

Part No.	ID No.	Barrel Dia.	Dimensions														
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	SLOT
MB-8	A3130-1	8 mm	1.26 [32.0]	0.66 [16.7]	2.00 [50.8]	1.00 [25.4]	0.45 [11.5]	0.30 [7.5]	1.41 [35.8]	0.33 [8.4]	0.06 [1.5]	0.24 [6.0]	0.67 [17.0]	0.35 [8.8]	0.83 [21.0]	.84 [21.4]	0.16 x 0.59 [4.0 x 15.0]
MB-12	A3130	12 mm	1.63 [41.5]	0.87 [22.15]	2.50 [63.5]	1.25 [31.8]	0.61 [15.5]	0.31 [7.9]	1.88 [47.8]	0.50 [12.7]	0.06 [1.5]	0.35 [9.0]	0.87 [22.0]	0.45 [11.5]	1.02 [26.0]	1.13 [28.7]	0.22 x 0.73 [5.6 x 18.6]
MB-18	A3135	18 mm	1.63 [41.5]	0.79 [20.0]	2.50 [63.5]	1.25 [31.8]	0.61 [15.5]	0.31 [7.9]	1.88 [47.8]	0.75 [19.1]	0.06 [1.5]	0.35 [9.0]	0.87 [22.0]	0.45 [11.5]	1.04 [26.3]	1.15 [29.1]	0.22 x 0.75 [5.6 x 19.0]
MB-30	A3140	30 mm	2.62 [66.5]	1.32 [33.5]	4.25 [108.0]	1.75 [44.5]	0.88 [22.4]	0.37 [9.5]	3.50 [88.9]	1.19 [30.2]	0.07 [1.8]	0.63 [16.0]	1.14 [29.0]	1.18 [30.0]	1.54 [39.0]	2.06 [52.2]	0.28 x 1.25 [7.1 x 31.8]

MB-8, MB-18 Material: 16 Gage Cold Roll Steel
MB-12, MB-30 Material: 14 Gage Cold Roll Steel
Finish: Galvanized



Inches [mm]

Mounting Brackets

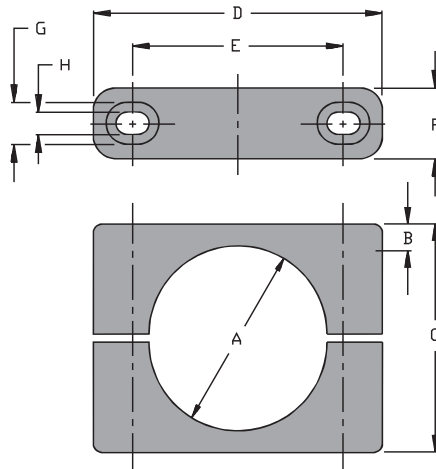
Part Number	ID Number
MB-47	M6945200

Material: Cold Roll Steel
Finish: Galvanized

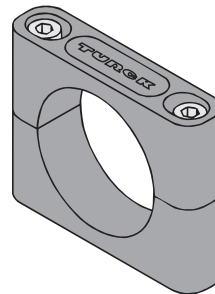
Mounting Clamps

Part Number	ID Number	Barrel Diameter	Dimensions							
			A	B	C	D	E	F	G	H
BS-11	A3075	11 mm	0.43 [11.0]	0.20 [5.0]	0.79 [20.0]	1.26 [32.0]	0.79 [20.0]	0.47 [12.0]	0.32 [8.2]	0.17 [4.3]
BS-20	M6946400	20 mm	0.79 [20.0]	0.24 [6.0]	1.18 [30.0]	1.81 [46.0]	1.22 [31.0]	0.59 [15.0]	0.37 [9.5]	0.21 [5.3]
BS-40	M6946600	40 mm	1.57 [40.0]	0.24 [6.0]	1.97 [50.0]	2.56 [65.0]	1.87 [47.5]	0.63 [16.0]	0.37 [9.5]	0.21 [5.3]

Material:
Bracket - PBT
Screws - Galvanized Zinc
Inches [mm]



SCREWS INCLUDED:
BS-11: (2) M4x22 - SLOTTED HEAD
BS-20: (2) M5x30 - CAP SCREWS
BS-40: (2) M5x50 - CAP SCREWS

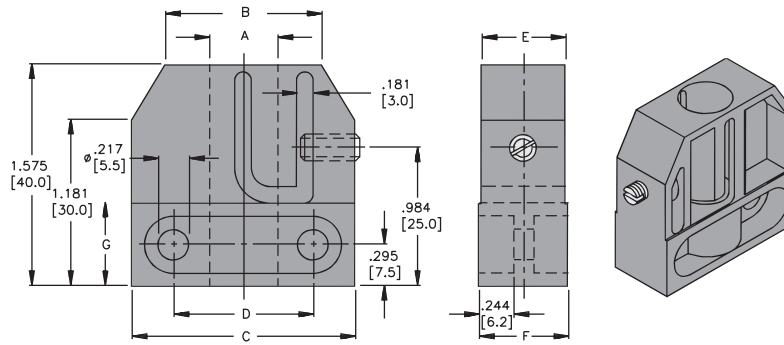


For use with 11, 20 and 40 mm smooth plastic barrel sensors.

Mounting Clamps

Part Number	ID Number	Barrel Diameter	Dimensions						
			A	B	C	D	E	F	G
BS-12	M6947000	12 mm	0.48 [12.2]	1.10 [28.0]	1.57 [40.0]	0.98 [25.0]	0.59 [15.0]	0.63 [16.0]	0.59 [15.0]
BS-18	M6947100	18 mm	0.72 [18.2]	1.30 [33.0]	1.77 [45.0]	1.18 [30.0]	0.83 [21.0]	0.87 [22.0]	0.59 [15.0]

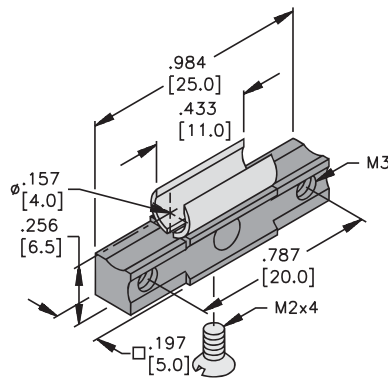
Material: PA 66-GF
Inches [mm]



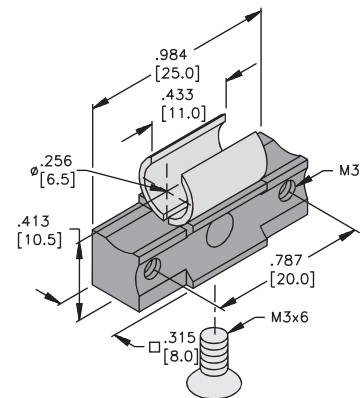
For use with 12 and 18 mm threaded barrel sensors.

Part Number	ID Number	Barrel Diameter
BS 540	S6947500	4.0 mm
BS 865	S6947600	6.5 mm

Block Material: Aluminum
Sleeve Material: Steel
Inches [mm]



BS-540



BS-865

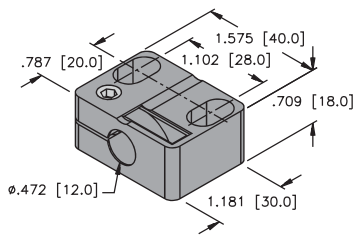
For use with H Barrel **picoprox**® sensors.

Sensors Accessories

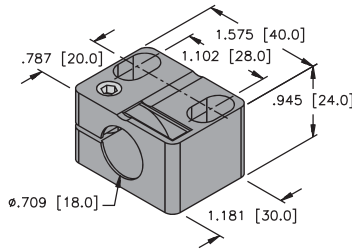
Mounting Clamps

Part Number	ID Number	Barrel Diameter
BST-12N	M6947213	12 mm
BST-18B	M6947214	18 mm
BST-30B	M6947216	30 mm

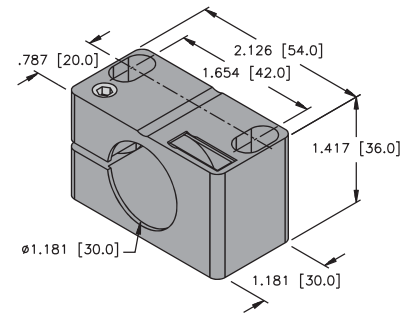
Material: PA 66-6F



BST-12N



BST-18B



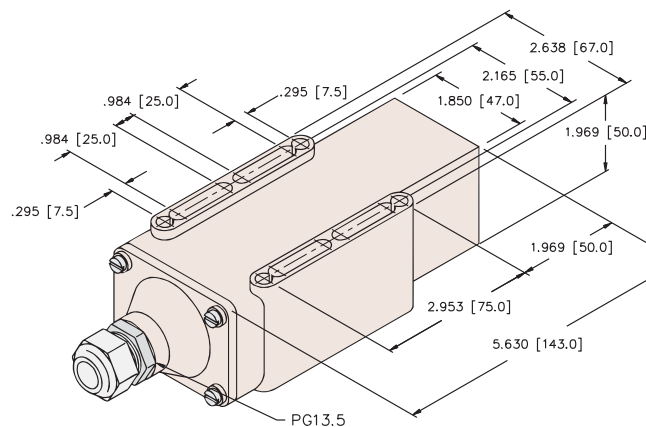
BST-30B

Protective Housing "Wet Suit"

Part Number	ID Number
SG40/2	M6949700

For extreme ambient conditions or long term exposure to elevated temperatures up to 170°C (338°F). Especially resistant to UV-radiation and ozone. IP 68, NEMA 13

Housing Material: ULTEM 1000
Cover Plate Material: PBT-GF
Cable Gland Material: PVDF
Seal Material: Viton
Inches [mm]



(2) M5x64 MOUNTING BOLTS, WASHERS AND POST INCLUDED.

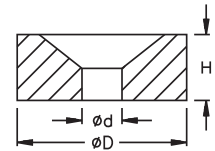
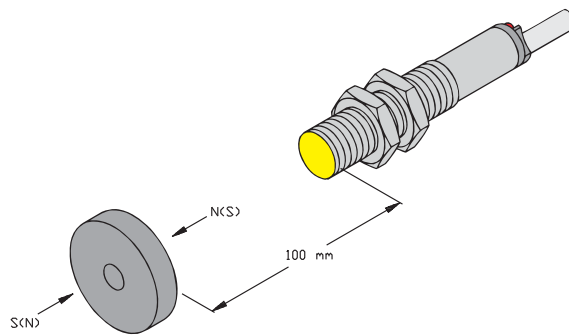
Recommended cable styles: 16-18 AWG.
For use with Limit Switch Style **combiprox**, **multiprox**, and **K40SR** sensors.

Actuation Magnets

Actuation Magnet Part Numbers	Diameter D (mm)	Height H	Drilling for mounting d	Sensing Range M12	Sensing Range EG08	Material
DMR15-6-3	15	6	3	36	32	Barium Ferrite (Oxyd 300)
DMR20-10-4	20	10	4	59	50	
DMR31-15-5	31	15	5	90	78	

M12 and EG08 Barrel Housing

When using magnet part number DMR31-15-5, sensing ranges up to 90 mm with BIM-M12 and 78 mm with BIM-EG08 can be achieved. See Accessories section for magnet part numbers.



Actuation Magnet

Part Number	ID Number
DM-Q12	M6900367

Material: Plastic

Spacer Plates

Part Number
SP-__1)-C

Material: Aluminum
Inches [mm]

¹⁾ add desired thickness in inches.
Minimum thickness: 0.125", in .005 increments.
For use with Cylinder Position Indicators, **CRS Series**.


Sensors

Accessories

firefast™ Connector Protective Sleeving

Part Number	ID Number
FF 1/2INCH BLACK (10/BAG)	A0076
FF 3/4INCH BLACK (10/BAG)	A0075
FF 1/2INCH BLACK 50 FOOT ROLL	A0078
FF 3/4INCH BLACK 50 FOOT ROLL	A0079

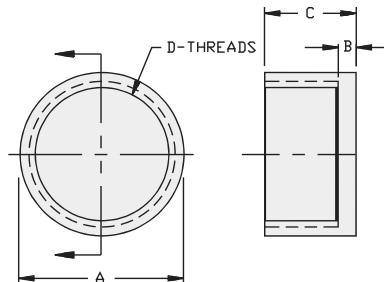
Material: Acryl-coated braided fiberglass
 * For viton coated change FF to FFV
 ** For additional sizes contact factory



PTFE Covers

Part Number	ID Number	Barrel Diameter	Dimensions			
			A	B	C	D
CAP 08-PTFE	A3055-1	8 mm Embeddable	.375 [9.5]	0.03 [0.7]	.437 [11.1]	M8x1
CAP 12-PTFE	M69662 00	12 mm Embeddable	0.63 [16.0]	0.03 [0.7]	0.63 [16.0]	M12x1
CAP 18N-PTFE	A3056	18 mm Nonembeddable	0.87 [22.0]	0.04 [1.0]	0.79 [20.0]	M18x1
CAP 18-PTFE	A3055	18 mm Embeddable	0.87 [22.0]	0.04 [1.0]	0.35 [9.0]	M18x1
CAP 30N-PTFE	A3058	30 mm Nonembeddable	1.34 [34.0]	0.05 [1.2]	1.14 [29.0]	M30x1.5
CAP 30-PTFE	A3057	30 mm Embeddable	1.34 [34.0]	0.05 [1.2]	0.35 [9.0]	M30x1.5
CAP 47-PTFE	A3060	47 mm Embeddable	2.20 [55.8]	0.06 [1.6]	0.38 [9.7]	PG 36

Material: PTFE
 Inches [mm]

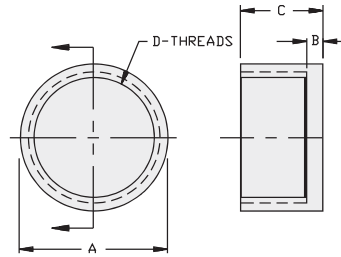
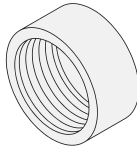


For use with metal barrel sensors.

Ceramic/Delrin Covers

Part Number	ID Number	Dimensions				Max. Temp.	Density	Porosity	Thermal Conductivity (@20°C)
		A	B	C	D				
CAP 08-DER	A9326	0.375 [9.53]	0.03 [0.76]	0.437 [11.1]	M8x1	4172°F (2300°C)	3.2 oz/in ³ (6 g/cm ³)	Impervious	14 BTU • in/ft ² • m • °F (2 W/m • °K)
CAP 12-CER	A2530	0.58 [14.7]	0.035 [.89]	.350 [8.90]	M12x1				
CAP 12-DER	A9321			.600 [15.2]	M12x1				
CAP 12N-CER	A9129								
CAP 12N-DER	A9322	0.95 [24.1]	0.045 [1.14]	.350 [8.90]	M18x1				
CAP 18-CER	A2531			.700 17.8	M18x1				
CAP 18-DER	A9323								
CAP 18N-CER	A3056-4								
CAP 18N-DER	A9324	1.50 [38.1]	0.08 [2.03]	.390 [9.90]	M30x1.5				
CAP 30-CER	A2532			1.0 [25.4]	M30x1.5				
CAP 30-DER	A9325								
CAP 30N-CER	A9137								
CAP 30N-DER	A9320								

Material: Ceramic/Delrin
Inches [mm]



For use with embeddable metal barrel sensors.

Sensors

Accessories

PTFE Covers

Part Number	ID Number	Material
T-CK40-T-FC	A5202	PTFE
T-CK40-D-FC	A5160	Delrin®
T-CK40-T-MCC	A5201	PTFE
T-CK40-T-MCB	A9126	PTFE

For use with **CK40** style sensors.

Part Number	ID Number
T-CP40-T-C	A5204

Material: PTFE

For use with **CP40** style sensors.

Part Number	ID Number
T-CP80-T	A5207

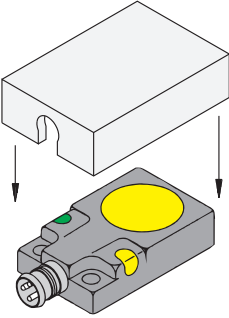
Material: PTFE

For use with **CP80** style sensors.

PTFE Covers

Part Number	ID Number
T-Q08-T-MCC	A5155
T-Q14-T-MCC	A5154
T-Q20-T-MCC	A5156

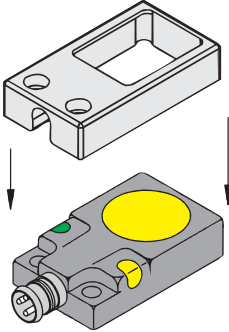
Material: PTFE



For use with **Q08** style sensors.

Part Number	ID Number
MBS-Q08TS	A9492

Material: Nickel Plated Steel



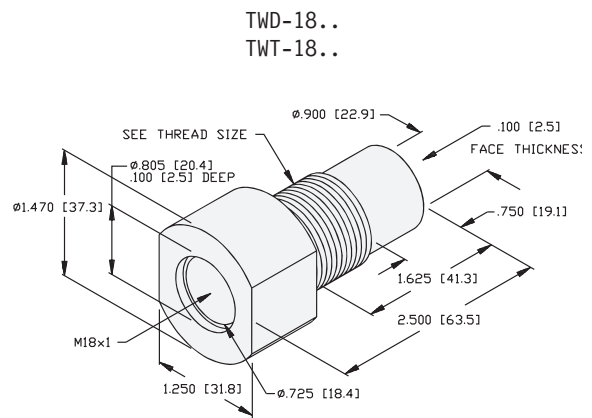
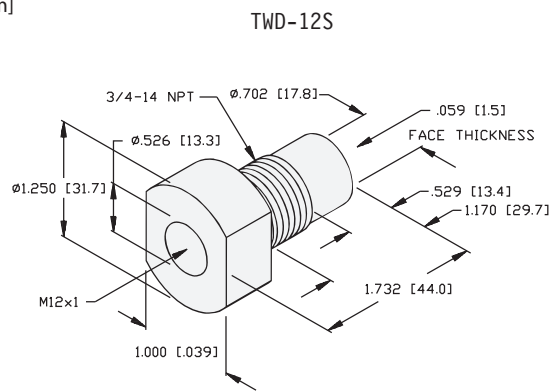
For use with **Q08** style sensors.

Sensors Accessories

Threaded Tank Wells

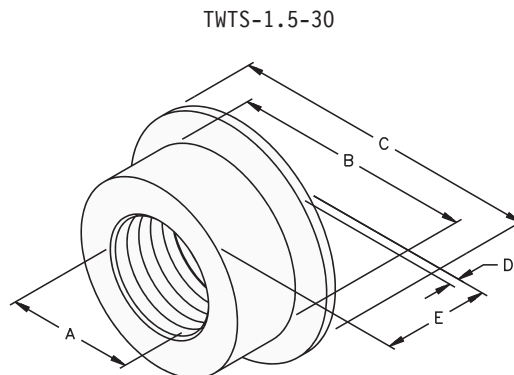
Part Number	ID Number	Material	Thread Size	Drill Size	Application
TWD-12S	A5051	Delrin	3/4-14 NPT	59/64	12 mm threaded capacitive sensors for liquid level sensing
TWD-18S	A5055	Delrin	3/4-14 NPT	59/64	18 mm threaded capacitive sensors for liquid level sensing
TWT-18S	A5050	PTFE	3/4-14 NPT	59/64	18 mm threaded capacitive sensors for liquid level sensing
TWD-18S-1	A5057	Delrin	1-11 1/2 NPT	1-5/32	18 mm threaded capacitive sensors for liquid level sensing
TWT-18S-1	A5056	PTFE	1-11 1/2 NPT	1-5/32	18 mm threaded capacitive sensors for liquid level sensing

Pressure Rating: 150 PSI
Inches [mm]



Part Number	ID Number	Dimensions			
		A	B	C	D
TWTS-1.5-30	A5077	M30x1.5	1.500 [38.1]	1.984 50.4	1.000 [25.4]
TWTS-2-30	A5076	M30x2.0	2.008 [51.0]	2.520 [64.0]	1.000 [25.4]

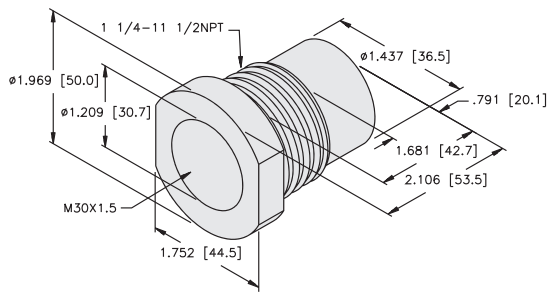
Inches [mm]



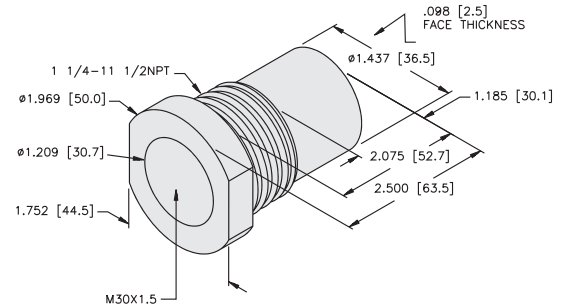
Threaded Tank Wells

Part Number	ID Number	Material	Thread Size	Drill Size	Application
TWD-30S	A5065	Delrin	1 1/4-11 1/2 NPT	1-1/2	30 mm threaded capacitive sensors for liquid level sensing
TWT-30S	A5060	PTFE	1 1/4-11 1/2 NPT	1-1/2	30 mm threaded capacitive sensors for liquid level sensing
TWD-40S	A5075	Delrin	1 1/2-11 1/2 NPT	1-47/64	40 mm smooth capacitive sensors for liquid level sensing
TWT-40S	A5070	PTFE	1 1/2-11 1/2 NPT	1-47/64	40 mm smooth capacitive sensors for liquid level sensing
TWT-30S-SHORT	A5062	PTFE	1 1/4-11 1/2 NPT	1-1/2	30 mm threaded capacitive sensors for liquid level sensing

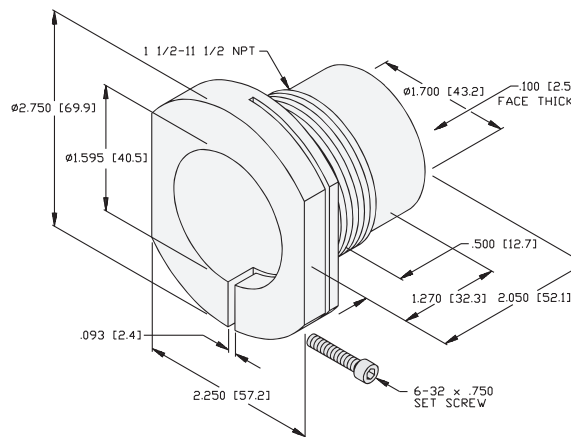
TWT-30S-SHORT



TWD-30S..
TWT-30S..



TWD-40..
TWT-40..



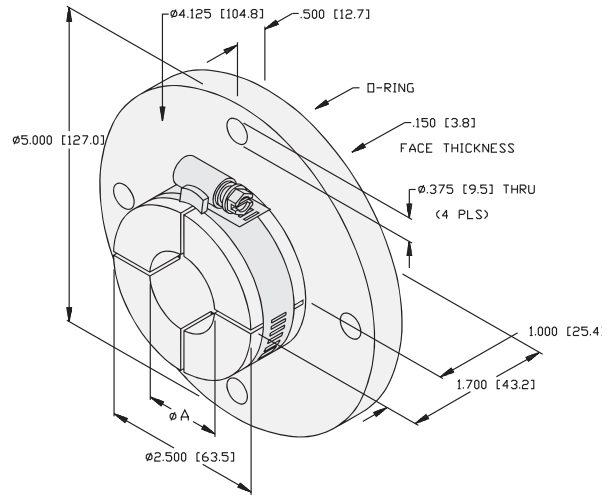
Sensors

Accessories

Bolt-on Tank Wells

Part Number	ID Number	Dimensions
TWU-30B	A5005	1.181 [30.0]
TWU-40B	A5000	1.575 [40.0]

Material: UHMW/PE
 Pressure Rating: 80 PSI
 Inches [mm]

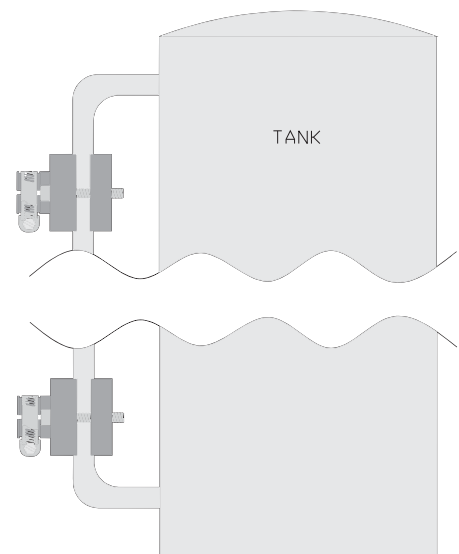
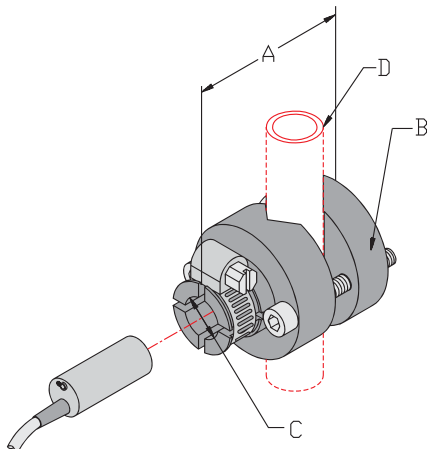


For use with 30 and 40 mm barrel sensors.

Bolt-on Site Bracket

Part Number	ID Number	A	B	C	D
TSG-12	A2500	1.75 [44.5]	1.25 [31.8]	12 mm (threaded or non-threaded)	0.37-0.81 [9.40-20.6]
TSG-18	A2501	1.90 [48.3]	1.48 [37.5]	18 mm (threaded or non-threaded)	0.63-1.12 [16.0-28.4]
TSG-30	A2502	3.45 [87.6]	2.00 [50.8]	30 mm (threaded or non-threaded)	1.00-1.75 [25.4-44.5]

Inches [mm]



Conduit Adapters

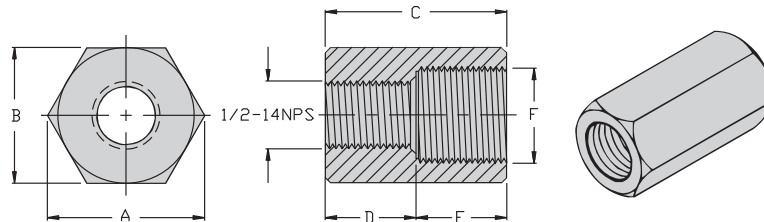
Part Number	ID Number	Barrel Diameter	Dimensions					
			A	B	C	D	E	F
TMF 12-G	A3310	12 mm	1.15 [29.2]	1.00 [25.4]	1.97 [50.0]	0.50 [12.7]	0.56 [14.2]	M12x1
TMF 18-G	A3320	18 mm	1.15 [29.2]	1.00 [25.4]	1.00 [25.4]	0.50 [12.7]	0.50 [12.7]	M18x1
TMF 30-G	A3345	30 mm	1.73 [44.0]	1.50 [38.1]	1.00 [25.4]	0.60 [15.2]	0.40 [10.2]	M30x1.5
TMF 47-G	A3360	47 mm	2.30 [58.4]	2.00 [50.8]	1.75 [44.5]	1.05 [26.7]	0.70 [17.8]	PG36

Use above Conduit Adapters with G and P Barrel sensors.

TMF 18-MS	A3330	18 mm	1.15 [29.2]	1.00 [25.4]	2.00 [50.8]	1.50 [38.1]	0.50 [12.7]	M18x1
TMF 30-MS	A3355	30 mm	1.73 [44.0]	1.50 [38.1]	2.00 [50.8]	0.60 [15.2]	1.40 [35.6]	M30x1.5

Use above Conduit Adapters with M and S Barrel sensors.

Material: Aluminum
Inches [mm]



Part Number	ID Number
TMF 9-14	A3290

Material: Delrin
Inches [mm]

For use with Integral Terminal Chamber style sensors.

Part Number	ID Number
TMF 13.5-14	A4500
TMF 13.5-14/SS	A9639

Material:
Nickel Plated Brass
SS = Stainless Steel
Inches [mm]

For use with Integral Terminal Chamber style sensors.

Sensors

Accessories

Cable Glands

Part Number	ID Number
Cable Gland PG 9	A3054
Material: Polyamide Plastic Recommended Cable Style: 18 and 20 AWG Inches [mm]	
For use with Integral Terminal Chamber style sensors.	

Part Number	ID Number
Cable Gland M20	A0936
Material: Polyamide Plastic Inches [mm]	
For use with Long Range Integral Terminal Chamber style sensors.	

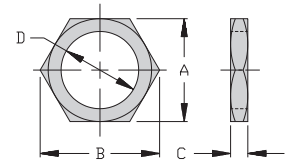
Part Number	ID Number
Cable Gland 1/2-14NPT	A3480
Material: Polyamide Plastic Recommended Cable Style: 18 and 20 AWG Inches [mm]	
For use with Integral Terminal Chamber style sensors.	

Part Number	ID Number
Cable Gland M16x1.5	A9348
Material: Polyamide Plastic Recommended Cable Style: 18-24 AWG Inches [mm]	
For use with Integral Terminal Chamber style sensors.	

Locknuts

Chrome Plated Brass

Part Number	ID Number	Barrel Diameter	Dimensions			
			A	B	C	D
Locknut-M05	A3119	5 mm	0.28 [7.0]	0.32 [8.0]	0.10 [2.5]	M5x0.5
Locknut-M08	A3120	8 mm	0.51 [13.0]	0.58 [14.7]	0.16 [4.0]	M8x1
Locknut-M12	A3122	12 mm	0.67 [17.0]	0.76 [19.4]	0.16 [4.0]	M12x1
Locknut-M18	A3125	18 mm	0.94 [24.0]	1.08 [27.4]	0.16 [4.0]	M18x1
Locknut-M30	A3126	30 mm	1.42 [36.0]	1.63 [41.4]	0.20 [5.0]	M30x1.5
Locknut-PG36	A3440	47 mm	2.01 [51.1]	2.20 [56.0]	0.20 [5.0]	PG36
Locknut 1/4-18	A3131	—	0.43"	0.49"	0.22"	1/4-18
Locknut 1/2-14	A3132	—	0.74"	0.85"	0.43"	1/2-14



300 Series Stainless Steel

Locknut-SS12	A3123	12 mm	0.67 [17.0]	0.76 [19.4]	0.16 [4.0]	M12x1
Locknut-SS18	A3123-0	18 mm	0.94 [24.0]	1.08 [27.4]	0.16 [4.0]	M18x1
Locknut-SS30	A3123-1	30 mm	1.42 [36.0]	1.63 [41.4]	0.20 [5.0]	M30x1.5

PTFE Coated

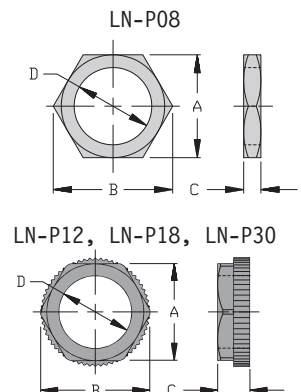
Locknut-MT12	A3109	12 mm	0.67 [17.0]	0.76 [19.4]	0.16 [4.0]	M12x1
Locknut-MT18	A3108	18 mm	0.94 [24.0]	1.08 [27.4]	0.16 [4.0]	M18x1
Locknut-MT30	A3107	30 mm	1.42 [36.0]	1.63 [41.4]	0.20 [5.0]	M30x1.5

For use with PTFE coated threaded metal barrel sensors.

Polyamide Plastic *

Locknut-P12	A3446	12 mm	0.67 [17.0]	0.75 [19.0]	0.32 [8.0]	M12x1
Locknut-P18	A3448	18 mm	0.94 [24.0]	1.06 [27.0]	0.32 [8.0]	M18x1
Locknut-P30	A3450	30 mm	1.42 [36.0]	1.58 [40.1]	0.39 [10.0]	M30x1.5

For use with threaded plastic barrel sensors.
* 5 mm Plastic Nut Material: Delrin
Inches [mm]



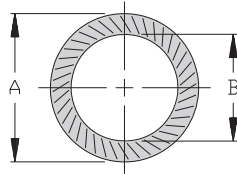
Sensors

Accessories

Lockwashers

Part Number	ID Number	Sensor Diameter	Dimensions	
			A	B
LW-12	A3127	12 mm	0.70 [17.8]	0.52 [13.2]
LW-18	A3128	18 mm	1.06 [26.8]	0.76 [19.3]
LW-30	A3129	30 mm	1.76 [44.8]	1.26 [32.0]

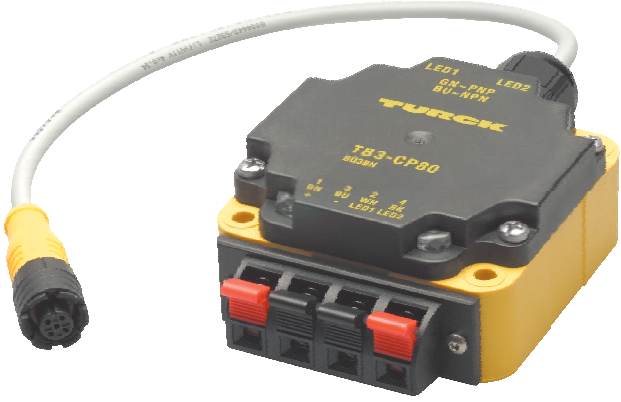
Material: Brass
 Finish: Copper, Nickel, Chrome Plating
 Inches [mm]




For use with threaded barrel sensors.

Test Box

Part Number	ID Number	Description
TB3-CP80	M6967112	DC powered test box allows you to quickly test DC sensors.



Limit Value Monitor

Part Number	Pin#	Terminal Function
	1	(+) 18 VDC Sensor Supply
	2	(+) Current Input
	3	(+) Voltage Input
	4	(-) 0 V Sensor Common
	5	(-) Common for 0/4 mA Minimum Selection
	9	Input for 0/4 mA Minimum Selection
	12	Relay Output 1
	13	Relay Output 1
	14	Relay Output 2
	15	Relay Output 2
	11	SRi - 0/4-20 mA Output
	16	SRi - 0/4-20 mA Output
	17	Relay Output 3
	18	Relay Output 2
	19	20-250 VUC Supply Power
	20	20-250 VUC Supply Power

Functional Description:

The limit value monitors IM43-13-SR and IM43-14-SRi are single-channel devices and alternately monitor measuring current of 0/4-20 mA or measuring voltages of 0/2-10 V. The three limit values are set via the front panel teach button. In addition, a voltage of approx. 18 V (at 35 mA max.) is provided, which can be used to power transmitters or sensors. The output mode is jumper programmable at terminals 5-8.



Smart Plugs

Housing Style	Part Number	ID Number	Own Current Consumption	Input Resistance	Max. Input Frequency	Max. Output Current
Pulse or Interval Counters 	SPC1-AP6X	A0620	< 10 mA	> 10 kΩ	10 kHz	400 mA short-circuit proof
	SPC1-AN6X	A0600	< 10 mA	> 10 kΩ	10 kHz	
Programmable Over or Under Speed Monitor 	SPF1-AP6X	A0622	< 10 mA	> 10 kΩ	10 kHz	400 mA short-circuit proof
	SPF1-AN6X	A0602	< 10 mA	> 10 kΩ	10 kHz	
PNP/NPN or NPN/PNP Converter, Adjustable N.O./N.C. Inverter 	SPN1-AP6-ARN6X	A0624	< 10 mA	> 10 kΩ	10 kHz	400 mA short-circuit proof
	SPN1-AN6-ARP6X	A0604	< 10 mA	> 10 kΩ	10 kHz	
Programmable Timer for On-Delay Time or Off-Delay Time 	SPT1-AP6X	A0626	< 10 mA	> 10 kΩ	10 kHz	400 mA short-circuit proof
	SPT1-AN6X	A0606	< 10 mA	> 10 kΩ	10 kHz	

* For more detail refer to catalog B0313.

Smart Plugs

Voltage	Min. Response Time	Ambient Temperature Range (°C)	Display	Housing Material	Protection	Connection Input	Connection Output	Wiring Diagram #	Wiring Diagram
10-30 VDC Residual Ripple of Max. 10%	0.1 ms	0 to +60	Red LED	Plastic	IP 67	4-pin Socket	4-pin connector	1	<p>Diagram 1</p> <p>See below.</p> <p>Diagram 2</p> <p>See below.</p>
	0.1 ms	0 to +60	Red LED	PBTP/PA	IP 67	M12	M12	2	
10-30 VDC Residual Ripple of Max. 10%	0.1 ms	0 to +60	Red LED	Plastic	IP 67	4-pin Socket	4-pin connector	1	
	0.1 ms	0 to +60	Red LED	PBTP/PA	IP 67	M12	M12	2	
10-30 VDC Residual Ripple of Max. 10%	0.1 ms	0 to +60	Red LED	Plastic	IP 67	4-pin Socket	4-pin connector	1	
	0.1 ms	0 to +60	Red LED	PBTP/PA	IP 67	M12	M12	2	
10-30 VDC Residual Ripple of Max. 10%	0.1 ms	0 to +60	Red LED	Plastic	IP 67	4-pin Socket	4-pin connector	1	
	0.1 ms	0 to +60	Red LED	PBTP/PA	IP 67	M12	M12	2	

Diagram 1

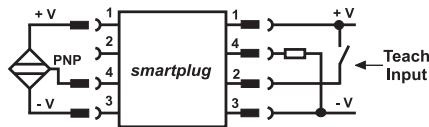
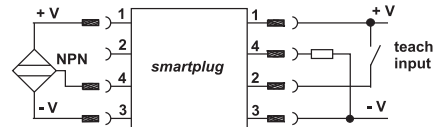


Diagram 2



Sensors

Reference Tables

Fahrenheit to Celsius Temperature

Degrees Fahrenheit	Degrees Celsius
-70	-56.7
-65	-53.9
-60	-51.2
-55	-48.4
-50	-45.6
-45	-42.8
-40	-40.0
-35	-37.3
-30	-34.5
-25	-31.7
-20	-28.9
-15	-26.1
-10	-23.4
0	-17.8
5	-15.0
10	-12.2
15	-9.5
20	-6.7
25	-3.9
30	-1.1
*32	*0.0
35	1.7
40	4.4
45	7.2
50	10.0
55	12.8
60	15.6
65	18.3
70	21.1
75	23.9
80	26.7
85	29.5
90	32.2

Degrees Fahrenheit	Degrees Celsius
95	35.0
100	37.8
105	40.6
110	43.4
115	46.1
120	48.9
125	51.7
130	54.5
135	57.3
140	60.0
145	62.8
150	65.6
155	68.4
160	71.2
165	73.9
170	76.7
175	79.5
180	82.3
185	85.1
190	87.8
195	90.6
200	93.4
205	96.2
210	99.0
**212	**100.0

* Water Freezing Point

** Water Boiling Point

For temperature conversions not given
use the following formulas:

$$^{\circ}\text{Celsius} = (^{\circ}\text{Fahrenheit} - 32) \times .556$$

$$^{\circ}\text{Fahrenheit} = (^{\circ}\text{Celsius} \times 1.8) + 32$$

Millimeters Equivalents of Decimals and Fractions

Millimeters	Inches	Fraction
0.10	0.0039	
0.20	0.0079	
0.30	0.0118	
0.40	0.0157	
0.50	0.0197	
0.60	0.0236	
0.70	0.0276	
0.80	0.0315	
0.90	0.0354	
1.00	0.0394	
1.59	0.0625	1/16
2.00	0.0787	
3.00	0.1181	
3.18	0.1250	1/8
4.00	0.1575	
4.76	0.1875	3/16
5.00	0.1969	
6.00	0.2362	
6.35	0.2500	1/4
7.00	0.2756	
7.94	0.3125	5/16
8.00	0.3150	
9.00	0.3543	
9.53	0.3750	3/8
10.00	0.3937	
11.00	0.4331	
11.11	0.4375	7/16
12.00	0.4724	
12.70	0.5000	1/2
13.00	0.5118	
14.00	0.5512	
14.29	0.5625	9/16
15.00	0.5906	
15.88	0.6250	5/8
16.00	0.6299	
17.00	0.6693	
17.46	0.6875	11/16
18.00	0.7087	
19.00	0.7480	
19.05	0.7500	3/4
20.00	0.7874	
20.64	0.8125	13/16
21.00	0.8268	
22.00	0.8661	
22.23	0.8750	7/8
23.00	0.9055	
23.81	0.9375	15/16
24.00	0.9449	

Millimeters	Inches	Fraction
25.40	1.000	1.000
26.00	1.024	
27.00	1.063	
28.00	1.102	
29.00	1.142	
30.00	1.181	
31.00	1.220	
32.00	1.260	
33.00	1.299	
34.00	1.339	
35.00	1.378	
36.00	1.417	
37.00	1.457	
38.00	1.496	
39.00	1.535	
40.00	1.575	
41.00	1.614	
42.00	1.654	
43.00	1.693	
44.00	1.732	
45.00	1.772	
46.00	1.811	
47.00	1.850	
48.00	1.890	
49.00	1.929	
50.00	1.969	
51.00	2.008	
52.00	2.047	
53.00	2.087	
54.00	2.126	
55.00	2.165	
56.00	2.205	
57.00	2.244	
58.00	2.283	
59.00	2.323	
60.00	2.362	
61.00	2.402	
62.00	2.441	
63.00	2.480	
64.00	2.520	
65.00	2.559	
66.00	2.598	
67.00	2.638	
68.00	2.677	
69.00	2.717	
70.00	2.756	
71.00	2.795	
72.00	2.835	

Millimeters	Inches	Fraction
73.00	2.874	
74.00	2.913	
75.00	2.953	
76.00	2.992	
77.00	3.031	
78.00	3.071	
79.00	3.110	
80.00	3.150	
81.00	3.189	
82.00	3.228	
83.00	3.268	
84.00	3.307	
85.00	3.346	
86.00	3.386	
87.00	3.425	
88.00	3.465	
89.00	3.504	
90.00	3.543	
91.00	3.583	
92.00	3.622	
93.00	3.661	
94.00	3.701	
95.00	3.740	
96.00	3.780	
97.00	3.819	
98.00	3.858	
99.00	3.898	
100.00	3.937	

Notes:

1M = 100 cm = 1000 mm

For conversions not given
use the following formulas:

Millimeters = Inches x 25.4

Inches = Millimeters ÷ 25.4

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Important Safety Warning!



TURCK sensors and peripheral devices **DO NOT** include the self-checking redundant circuitry required to permit their use in personnel safety applications. A device failure or malfunction can result in either an energized or a de-energized output condition.

Never use these products as sensing devices for personnel protection. Their use as safety devices may create unsafe conditions that could lead to serious bodily injury or death.

Selection Guide - Section M

How does Proximity Sensing compare to conventional methods?

TURCK proximity sensors are entirely solid state electronic controls that contain no moving parts to wear out as do mechanical switches. They require no physical contact for actuation, no cams or linkages, have no contacts to bounce or arc and are completely encapsulated, making them impervious to most liquids, chemicals and corrosive agents. In addition, TURCK has a line of sensors that can be used in hazardous explosive environments without any special enclosures. See Hazardous Area Locations in Section A.

If any of the following conditions exists, a Proximity Sensor should be used:

- The object being detected is too small, too lightweight, or too soft to operate a mechanical switch.
- Rapid response and high switching rates are required, as in counting or ejection control applications.
- Object has to be sensed through non-metallic barriers such as glass, plastic, or paper carton.
- Hostile environments demand improved sealing properties, preventing proper operation of mechanical switches.
- Long life and reliable service are required.
- Fast electronic control system requires bounce-free input signal.

Proximity Sensors are being used today in all industries:

- | | |
|--|---|
| Mining and Metallurgy | Sheet Metal Fabrication |
| Foundries | Automotive and Appliance Plants |
| Automatic Assembly and Robotics | Electroplating Installations |
| Conveyor Systems in Airports and Factories | Can Plants, Food Processing and Breweries |
| Chemical Plants and Oil Refineries | Shipyards, Docks, and Off-shore Drilling Rigs |
| Semiconductor Equipment | PC-board Handling Machinery |

Typical applications:

- | | | |
|---------------------------------------|----------------------|---------------------------|
| Parts Detection | Void or Jam Control | Valve Position Indication |
| Parts Counting | Feed Control | Missing Parts Control |
| Positioning | Indexing | Parts Diverting |
| Motion and Speed Control | Inter-lock Control | Coin Counting and Sorting |
| Bottle Cap or Can Lid Detection | Liquid Level Control | Edge Guide Control |
| Punch Press Feed and Ejection Control | Leak Detection | Robotics and Conveyors |
| Broken or Damaged Tool Detection | Machine Programming | |

TURCK

Innovative Solutions for Automation

Axial Approach

The approach of the target with its center maintained on the sensor reference axis.

Axially Polarized Ring Magnet

A ring magnet whose poles are the two flat sides of the disk. Mounted on pistons for *permaprox*[®] cylinder position sensing through nonmagnetic cylinder walls.

Capacitive Proximity Sensor

A proximity sensor producing an electrostatic field that senses conductive targets and nonconductive materials having a dielectric constant of >1 within its sensing zone.

Complementary Output

Two outputs, one N.O. and one N.C., that can be used simultaneously. **The sum of both load currents cannot exceed the sensor's rated Continuous Load Current.**

Continuous Load Current

The maximum current allowed to continuously flow through the sensor output in the ON state.

Correction Factors

Percentage of the rated operating distance (Sn) that represents the operating distance for targets constructed from materials other than mild steel (mild steel's correction factor is 1.0).

Differential Travel (Hysteresis)

The difference between the operating point as the target approaches the sensor face, and the release point as the target moves away. Given as a percentage of the operating distance (Sn).

Dynamic Output

A sensor output that stays energized for a set duration of time, independent of the time the target is present (one-shot).

Embeddable (Shielded) Proximity Sensor

A sensor that can be flush-mounted in any material without that material influencing the sensing characteristics.

Free Zone

The space around a proximity sensor that must be kept free of any material capable of affecting the sensing characteristics.

Inductive Proximity Sensor

A proximity sensor producing an electromagnetic field that senses only metal targets within its sensing zone.

Inductive Magnet Operated Sensor (*permaprox*[®])

A solid-state sensor consisting of a sensing element susceptible to magnetic field strengths of 20-350 Gauss, and switching circuitry similar to that of an inductive proximity sensor.

Inrush Current

The maximum short-term load current that the output of a sensor can tolerate.

IP Rating

Ingress Protection rating per IEC 529.

Lateral Approach

The approach of a target perpendicular to the sensor reference axis.

Load

A device or circuit that is operated by the energy output of another device such as a proximity sensor.

M Threading

ISO 68 Metric straight threading, designated as "Nominal Size" X "Pitch", in mm. (Ex. M5X0.5)

Minimum Load Current

The minimum amount of current that is required by the sensor for reliable operation.

NAMUR

The acronym for a European standards organization.

NAMUR Sensor

A 2-wire variable-resistance DC sensor whose operating characteristics conform to DIN 19 234. Requires a remote amplifier for operation. Typically used for intrinsically safe applications.

NEMA Rating

An enclosure rating per NEMA Standard 250.

No-Load Current

The current drawn by a DC proximity sensor from the power supply when the outputs are not connected to a load.

Nonembeddable (Nonshielded) Proximity Sensor

A sensor is nonembeddable when a specified free zone must be maintained around its sensing face in order not to influence the sensing characteristics.

Normally Closed (N.C.)

The output is OFF when the target is detected by the sensor.

Normally Open (N.O.)

The output is ON when the target is detected by the sensor.

NPN Output (Current Sinking)

A transistor output that switches the common or negative voltage to the load. Load is between sensor and positive supply voltage.

NPSM Threading

American National Standard Straight Pipe Thread for Free-Fitting Mechanical Parts.

NPT Threading

American National Standard Taper Pipe Thread.

Off-State (Leakage) Current

The current that flows through the load circuit when the sensor is in the OFF-state. Also known as leakage or residual current.

Operating Distance

A distance at which the target approaching the sensing face along the reference axis causes the output signal to change.

Overload Protection

The ability of a sensor to withstand load currents between continuous load rating and short-circuit condition with no damage.

PG Threading

Steel conduit threading per German standard DIN 40 430.

PNP Output (Current Sourcing)

Transistor output that switches the positive voltage to the load. Load is between sensor and common.

Programmable Output

Sensor output whose N.O. or N.C. function can be selected by means of a jumper or specific terminal connection.

Radially Polarized Ring Magnet

A ring magnet whose poles are the inner and outer diameter rings.

Rated Operating Distance (Sn)

A conventional quantity used to designate the operating distance. It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature.

Reference Axis

An axis perpendicular to the sensing face and passing through its center.

Repeatability

The difference between actual operating distances measured at a constant temperature and voltage over an 8-hour period. It is expressed as a percentage (%) of rated operating distance (Sn).

Response frequency

The maximum rate that the output can change in response to the input and still maintain linearity.

Response Time

The time required for the device switching element to respond after the target enters or exits the sensing zone.

Reverse Polarity Protection

Internal components that keep the sensor from being damaged by incorrect polarity connection to the power supply.

Ripple

The alternating component remaining on a DC signal after rectifying, expressed in percentage of rated voltage.

Sensing Face

The surface of the proximity sensor through which the electromagnetic (or electrostatic) field emerges.

Short-Circuit Protection

The ability of a sensor to withstand a shorted condition (no current-limiting load connected) without damage.

Slew Rate

The rate of change of the output voltage with respect to a step change in input. A change in output of 0 to 10 volts at a slew rate of 1.25 V/ms would take 8 ms to slew to the new value.

Solid State

Pertains to devices using semiconductors instead of mechanical parts.

Static Output

A sensor output that stays energized as long as the target is present.

Switching Frequency

The maximum number of times per second that the sensor can change state (ON and OFF) under ideal conditions, usually expressed in Hertz (Hz).

Time-Delay Before Availability

The length of time after power is applied to the sensor before it is ready to operate correctly, expressed in milliseconds (ms).

Uprox Sensor®

An inductive proximity sensor that detects all metals at the same range. Uprox sensors are inherently weld-field immune, operate over a wider temperature range and have a higher switching frequency than standard inductive sensors.

Uprox+ Sensor®

Same basic characteristics as the Uprox Sensor, but with a redesigned multi coil system which provides increased sensing capabilities. Uprox+ also carries an IP68 environmental rating

Weld-Field Immunity (WFI)

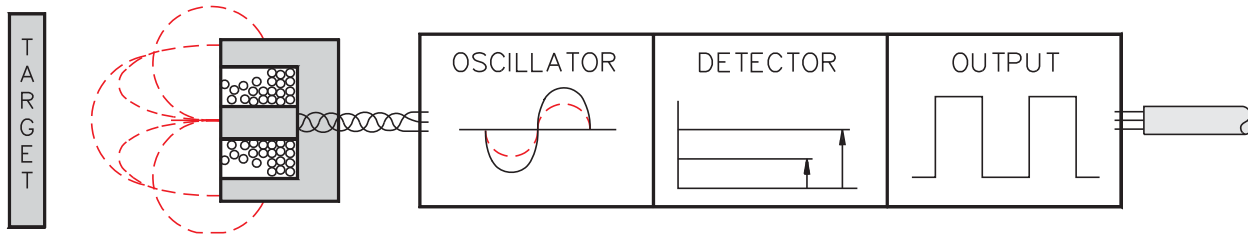
The ability of a sensor not to false-trigger in the presence of strong magnetic fields typically produced by resistance welders.

Wire-Break Protection

Results in the output being OFF on a DC sensor if either supply wire is broken.

Operating Principle Ferrite Core

Figure 1



An inductive proximity sensor consists of a coil and ferrite core arrangement, an oscillator and detector circuit, and a solid-state output (Figure 1). The oscillator creates a high frequency field radiating from the coil in front of the sensor, centered around the axis of the coil. The ferrite core bundles and directs the electro-magnetic field to the front.

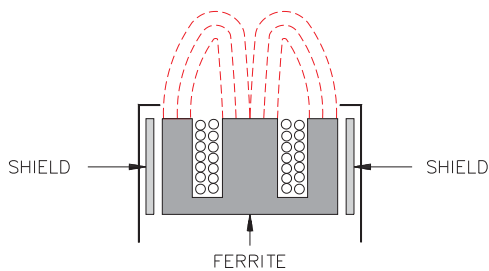
When a metal object enters the high-frequency field, eddy currents are induced on the surface of the target. This results in a loss of energy in the oscillator circuit and, consequently, a smaller amplitude of oscillation. The detector circuit recognizes a specific change in amplitude and generates a signal which will turn the solid-state output "ON" or "OFF". When the metal object leaves the sensing area, the oscillator regenerates, allowing the sensor to return to its normal state.

Embeddable (Shielded) vs. Nonembeddable (Nonshielded)

See mounting characteristics at the front of each section.

Figure 2

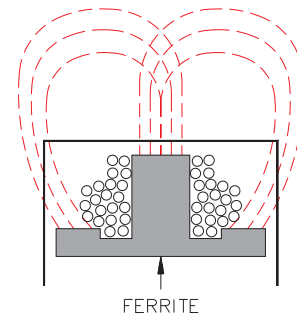
Embeddable (Shielded Sensor)



Embeddable construction includes a metal band that surrounds the ferrite core and coil arrangement. This helps to "bundle" or direct the electro-magnetic field to the front of the sensor.

Figure 3

Nonembeddable (Nonshielded Sensor)

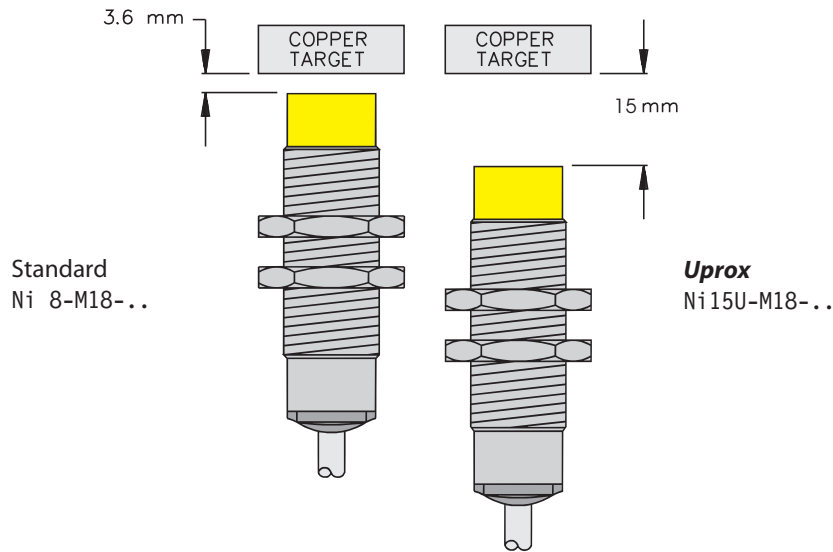


Nonembeddable sensors do not have this metal band; therefore, they have a longer operating distance and are side sensitive.

Uprox® and Uprox+® Characteristics

- **No Correction Factor** - Same rated operating distance for all metals.
- **Extended Operating Distance** - Up to 400% greater than standard inductive sensors when using non-ferrous targets (Figure 4).
- **Weld Field Immunity** - *Uprox* is unaffected by strong electromagnetic AC or DC fields because of its unique patented design.
- **High Switching Frequencies** - Up to 10 times faster than standard inductive sensors.
- **Extended Temperature Range** - *Uprox* can withstand temperatures up to 85°C (+185°F) with a ±15% temperature drift.

Figure 4

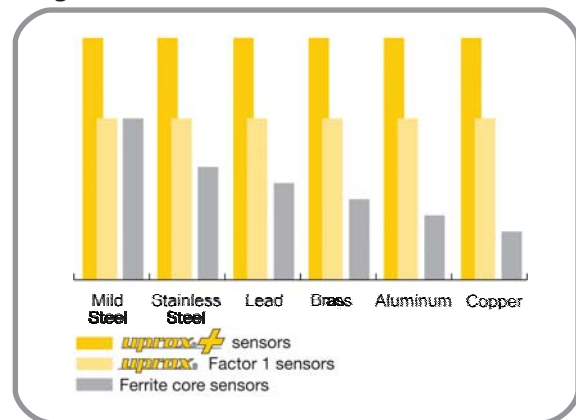


Operating Principle Uprox® and Uprox+®

TURCK *Uprox* is a patented next generation development of inductive sensors that uses a multi-coil system. Active coil(s) induces eddy currents on the metal target and passive coil(s) are affected by these eddy currents. Ferrous and nonferrous metals have the same effect on the two coils. Therefore, all metals, including galvanized metals, have the same rated operating distance.

TURCK standard inductive sensors use a single coil randomly wound around a ferrite core. The single coil both induces eddy currents on the metal target and is affected by these eddy currents. Ferrous and nonferrous metals affect the sensor differently, making it impossible to detect both types of metals at the same rated operating distance.

Figure 5



Operating distances comparison of *Uprox* sensors and standard inductive sensors.

Operating Distance (Sensing Range) Considerations

The operating distance (*S*) of the different models is basically a function of the diameter of the sensing coil. Maximum operating distance is achieved with the use of a standard or larger target. Rated operating distance (*S_n*) for each model is given in the manual. **When using a proximity sensor the target should be within the assured range (*S_a*).**

Standard Target

A square piece of mild steel having a thickness of 1 mm (0.04 in) is used as a standard target to determine the following operating tolerances. The length and width of the square is equal to either the diameter of the circle inscribed on the active surface of the sensing face or three times the rated operating distance *S_n*, whichever is greater.

Operating Distance = *S*

The operating distance is the distance at which the target approaching the sensing face along the reference axis causes the output signal to change.

Rated Operating Distance = *S_n*

The rated operating distance is a conventional quantity used to designate the nominal operating distance. It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature.

Effective Operating Distance = *S_r* $0.9 S_n \leq S_r \leq 1.1 S_n$

The effective operating distance is the operating distance of an individual proximity sensor at a constant rated voltage and 23°C (73°F). It allows for manufacturing tolerances.

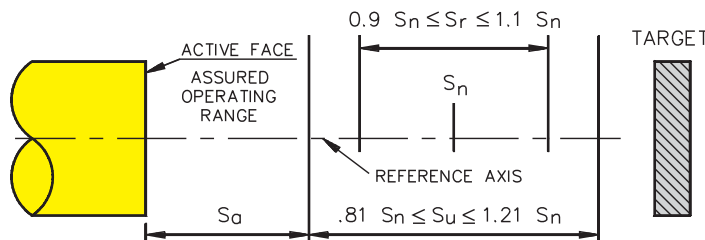
Usable Operating Distance = *S_u* $0.81 S_n \leq S_u \leq 1.21 S_n$

The usable operating distance is the operating distance of an individual proximity sensor measured over the operating temperature range at 85% to 110% of its rated voltage. It allows for external conditions and for manufacturing tolerances.

Assured Operating Range = *S_a* $0 \leq S_a \leq 0.81 S_n$

The assured actuating range is between 0 and 81% of the rated operating distance. It is the range within which the correct operation of the proximity sensor under specified voltage and temperature ranges is assured.

Figure 6



Operating Distance (Sensing Range) Considerations

These correction factors apply to standard inductive sensors when a nonferrous target is being detected. The correction factors are nominal values. Deviations may be due to variations in oscillator frequency, alloy composition, purity and target geometry.

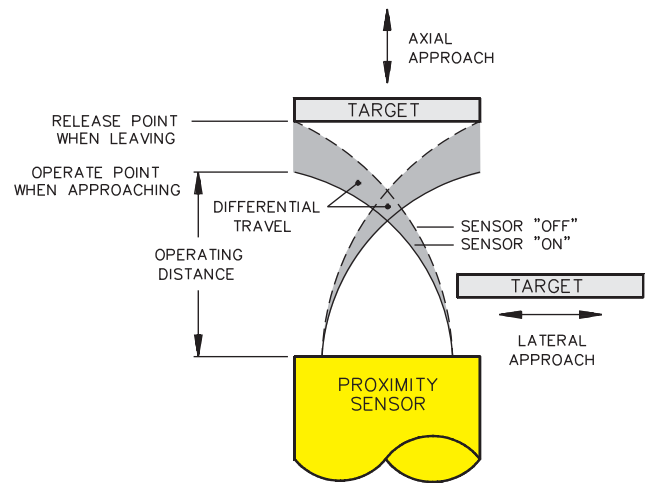
Aluminum foil	1.00
Stainless steel	0.60 to 1.00
Mercury	0.65 to 0.85
Lead	0.50 to 0.75
Brass	0.35 to 0.50
Aluminum (massive)	0.35 to 0.50
Copper	0.25 to 0.45

- Correction factors do not apply to TURCK **Uprox**® sensors. These sensors see all metals at the same range.
- TURCK also manufactures “nonferrous only” sensors. These sensors will selectively detect nonferrous targets at the rated operating distance. They will not detect ferrous targets; however, ferrous targets positioned between them and a nonferrous target may mask the nonferrous target. The rated operating distance of these sensors is not subject to the correction factors that apply to standard inductive sensors.

Differential Travel (Hysteresis)

The difference between the “operate” and “release” points is called differential travel (See shaded area in Figure 7). It is factory set at less than 15% of the effective operating distance. Differential travel is needed to keep proximity sensors from “chattering” when subjected to shock and vibration, slow moving targets, or minor disturbances such as electrical noise and temperature drift.

Figure 7

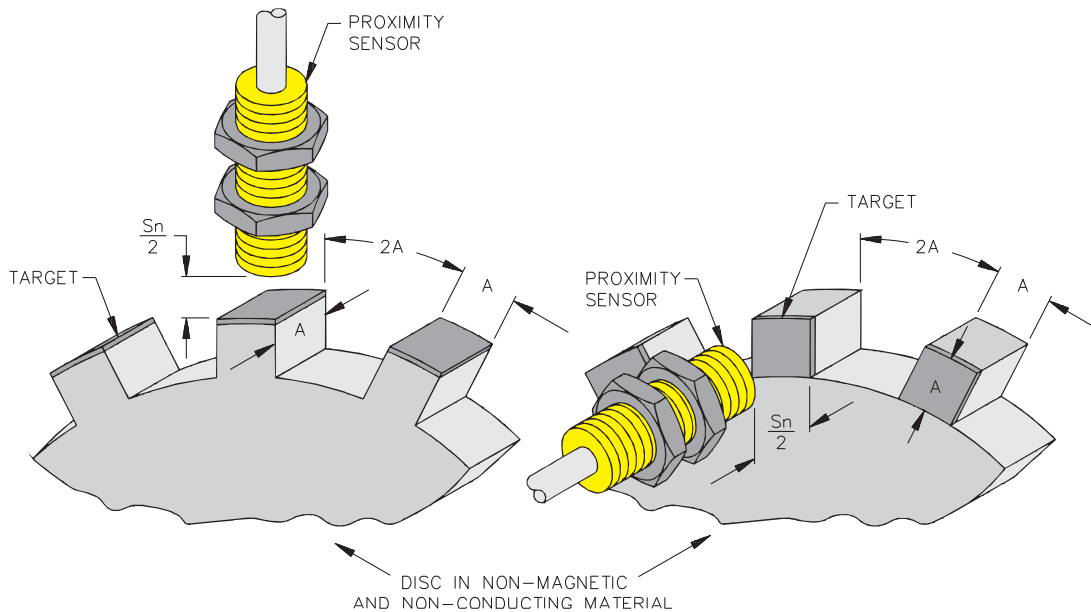


Actuation Mode

Inductive sensors can be actuated in an axial or lateral approach (See Figure 7). It is important to maintain an air gap between the target and the sensing face to prevent physically damaging the sensors.

Maximum Switching Frequency

Minimum parameters for measuring at maximum switching frequency are shown in Figure 8. Using a smaller target or space may result in a reduction of a specific sensor's maximum switching frequency and decrease sensor to target air gap tolerance. See page M7 for determining dimension "A" of **standard target**.



Weld Field Immunity

Many critical applications for proximity sensors involve their use in weld field environments. AC and DC resistance welders used in assembly equipment and other construction machines often require in excess of 20 kA to perform their weld function. Magnetic fields generated by these currents can cause false outputs in standard sensors.

TURCK has pioneered the design and development of inductive proximity sensors that not only survive such environments, but remain fully operative in them.

The limit of the weld field immunity depends on the kind of field (AC or DC), the housing size of the sensor and its location in the field. For example, in an AC or DC weld field, the "/S34" inductive sensors can be positioned one inch from a 20 kA current carrying bus. See Section H for a list of weld field immune sensors.

Reference values for magnetic induction:

I [kA]	Distance [mm]			
	12.5	25	50	100
5	80 mT	40 mT	20 mT	10 mT
10	160 mT	80 mT	40 mT	20 mT
20	320 mT	160 mT	80 mT	40 mT
50	800 mT	400 mT	200 mT	100 mT
100	1600 mT	800 mT	400 mT	200 mT

Gauss = 10 x mT

Mounting

TURCK inductive proximity sensors are manufactured with a shielded coil, designated by “Bi” in the part number, and a nonshielded coil, designated by “Ni” in the part number. Embeddable (shielded) units may be safely flush-mounted in metal. Nonembeddable (nonshielded) units require a metal free area around the sensing face. Because of possible interference of the electromagnetic fields generated by the oscillators, minimum spacing is required between adjacent or opposing sensors.

It is good engineering practice to mount sensors horizontally or with the sensing face looking down. Avoid sensors that look up wherever possible, especially if metal filings and chips are present.

Maximum Locknut Torque Specifications

The locknut torque should be considered for all threaded sensors to prevent the housing from being over stressed. The values below pertain to the locknut provided with each sensor. Liquid thread sealants of an anaerobic base, such as Loctite, are recommended if strong vibrations are likely.

Caution: Sensor barrels are typically brass. Consider break torque when selecting grade of thread sealant.

Barrel Size	Metal Barrel	Plastic Barrel
5 mm	5 Nm (3.7 ft-lb)	----
8 mm	10 Nm (7.4 ft-lb)	----
12 mm	10 Nm (11 ft-lb)	1 Nm (0.7 ft-lb)
18 mm	25 Nm (18 ft-lb)	2 Nm (1.4 ft-lb)
30 mm	90 Nm (66 ft-lb)	5 Nm (3.7 ft-lb)
47 mm	90 Nm (66 ft-lb)	----

Drill Hole Sizes for Metric Threads

Thread Size	Pitch	Thru Hole (mm)	Tap Hole Dia. (mm)	Thru Hole (in)	Tap Hole Dia. (in)
M5 x 0.5	0.5	5.0	4.5	13/64	5/32
M8 x 1	1.0	8.0	7	21/64	1/4
M12 x 1	1.0	12.0	11	31/64	13/32
M18 x 1	1.0	18.0	17	23/32	41/64
M30 x 1.5	1.5	30.0	28	1-3/16	1-5/64
PG 9	1.41	15.2	14	5/8	1/2
PG 13.5	1.41	20.4	19	13/16	23/32
PG 36	1.59	47.0	45.5	1-7/8	1-47/64

Specifications

DC Outputs

Two-, three-, or four-wire proximity sensors contain a transistor oscillator and a snap-action amplifier. This provides exceedingly high accuracy to a set switching point, even with very slowly approaching targets. Switching characteristics are unaffected by supply voltage fluctuations within the specified limits.

The sensors can drive electromechanical relays, counters, solenoids, or electronic modules, and interface directly with logic systems or programmable controllers without additional interface circuitry. They are available with either NPN output transistors (current sinking) or PNP output transistors (current sourcing).

Load current ratings vary from 100 mA to 200 mA depending on physical size. Standard voltage range is 10-30 VDC with certain types available for 10-65 VDC. All models incorporate wire-break, transient and reverse polarity protection.

Power-On false pulse suppression is also standard.

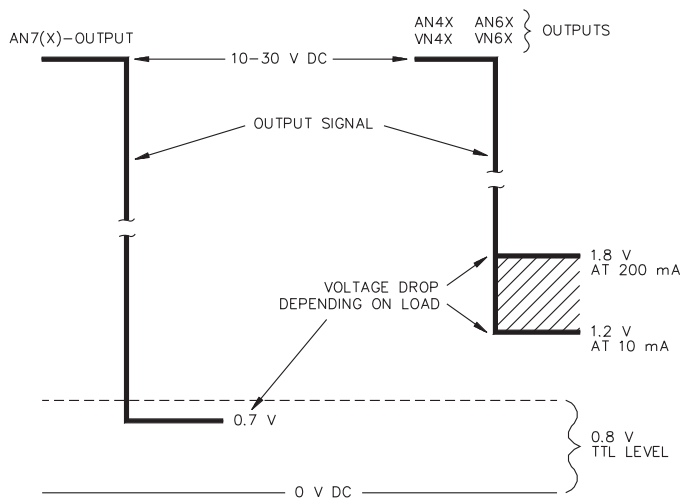
Short-Circuit and Overload Protection

TURCK DC sensors with a Voltage Range designation of "4", "6" or "8" in the part number are short-circuit and overload protected (automatic reset). These sensors incorporate a specially designed circuit which continuously monitors the ON state output current for a short-circuit or overload condition. If either of these fault conditions occurs, the output is turned OFF and pulse tested until the fault is removed. This added protection causes a ≤ 1.8 V drop across the output in the normal ON state. This may be a problem when interfacing with some logic low inputs (see TTL compatibility).

TTL Compatibility

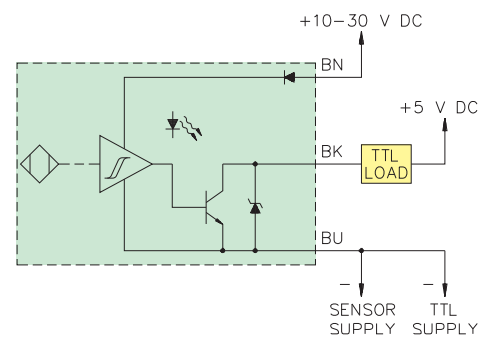
Some solid-state loads requiring NPN (sinking) input signals need a ≤ 0.8 V signal to reliably turn ON. The output of these sensors will have a voltage drop of ≤ 0.7 V (0.3 V typical), which will ensure reliable operation. Do not use voltage ranges "4" and "6" when TTL compatibility is required. Contact the factory for a list of part numbers with this specification.

Figure 1



Voltage drop is measured from output wire black (BK) to ground wire blue (BU).

Figure 2



DC Sourcing and Sinking

2-Wire DC

Figure 3 Source (PNP)

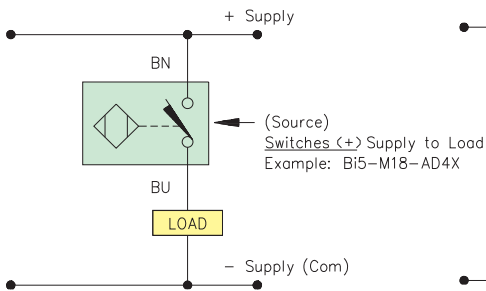
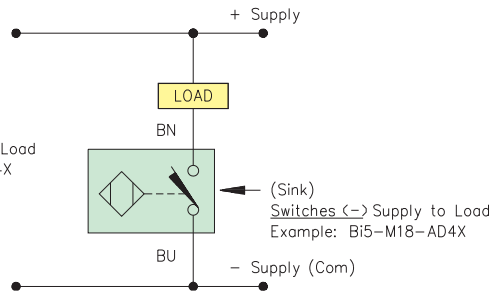


Figure 4 Sink (NPN)



Note: TURCK 2-wire DC sensors with an "AD" designation are not polarity sensitive and can be used to sink or source a load.

3-Wire DC

Figure 6 Sink (NPN)

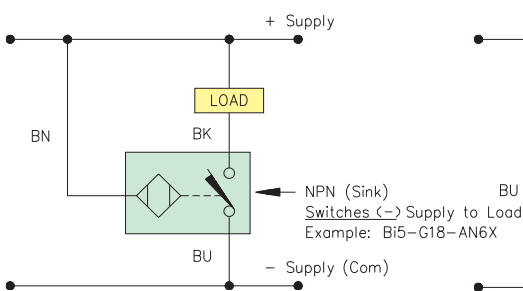
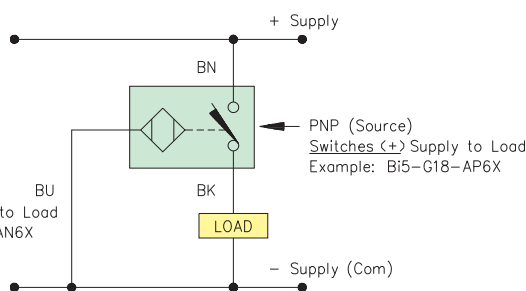


Figure 5 Source (PNP)



DC Outputs

"AD" 2-Wire DC Output

Figure 7

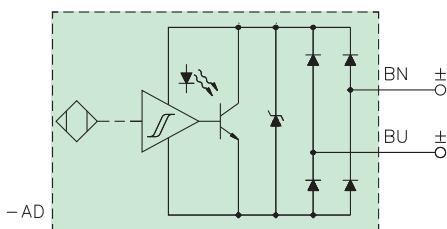
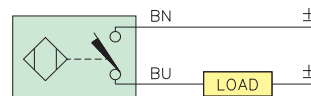
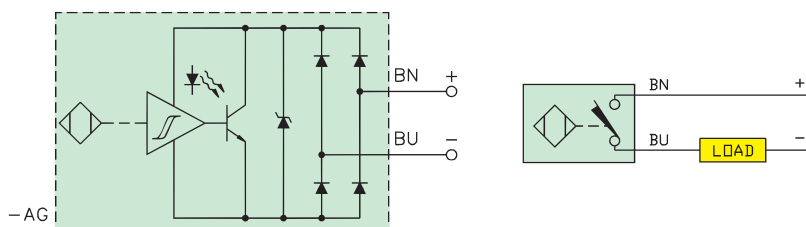


Figure 8



"AG" 2-Wire DC Output

Figure 9



Specifications

DC Outputs

"AN4" and "AP4" 3-Wire DC Outputs

Figure 10 Electronic Output Circuit

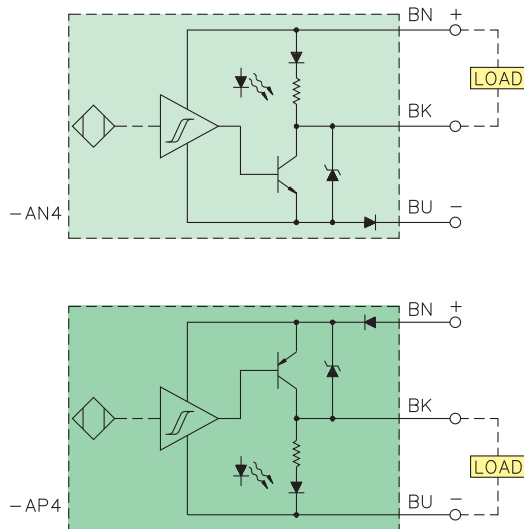
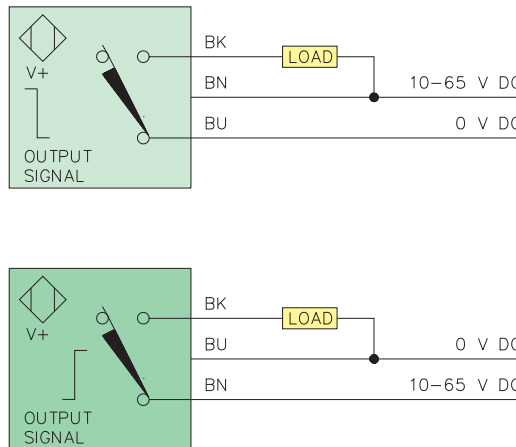


Figure 11 Wiring Diagram



NPN transistor
 (i.e. current sinking
 negative switching)
 N.O. output

PNP transistor
 (i.e. current sourcing
 positive switching)
 N.O. output

"AN6(7)" and "AP6" 3-Wire DC Outputs

Figure 12 Electronic Output Circuit

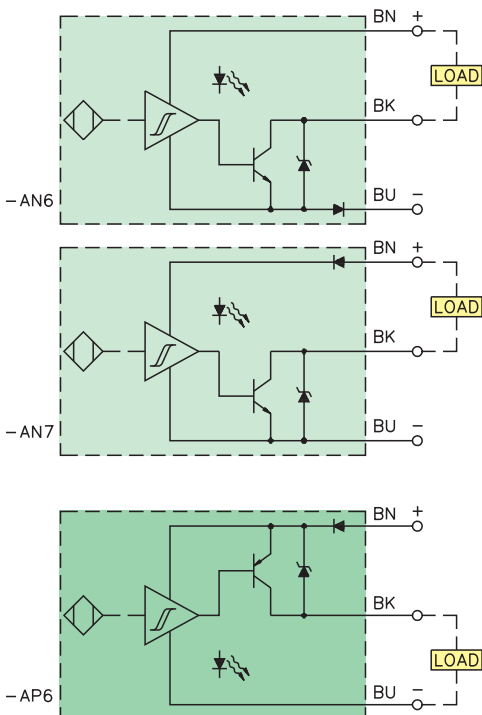
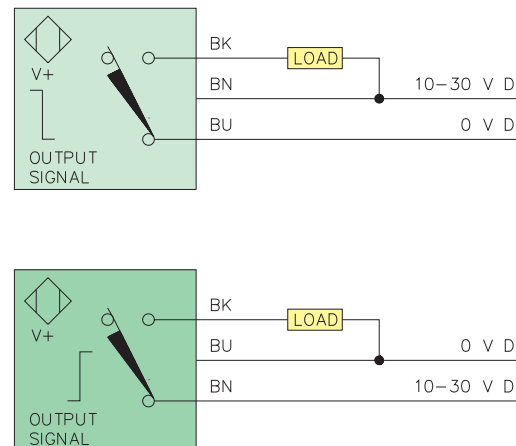


Figure 13 Wiring Diagram



NPN transistor
 (i.e. current sinking
 negative switching)
 N.O. output

PNP transistor
 (i.e. current sourcing
 positive switching)
 N.O. output

TURCK TIP

- Order current sinking (NPN) sensors with the voltage range "7" only when low voltage drop for TTL gates is required. In all other cases, order sensors with voltage ranges "4" or "6".

"VN4" and "VP4" 4-Wire DC Outputs

Figure 14 Electronic Output Circuit

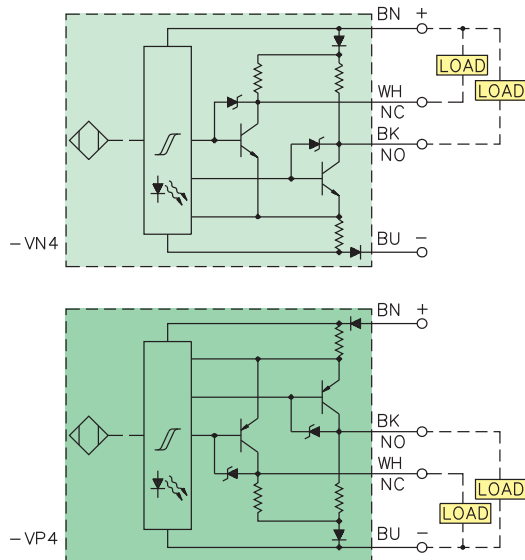
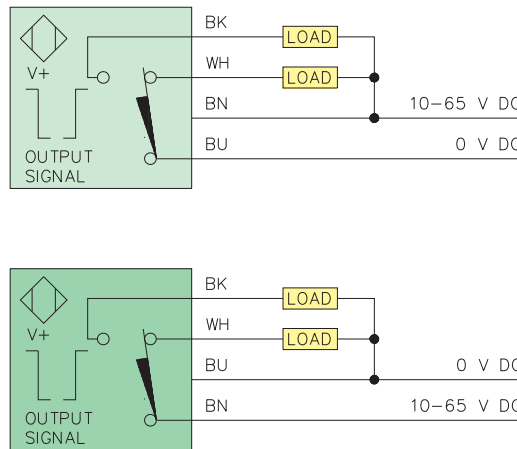


Figure 15 Wiring Diagram



NPN transistor
(i.e. current sinking
negative switching)
complementary
output (SPDT)

PNP transistor
(i.e. current sourcing
positive switching)
complementary
output (SPDT)

"VN6" and "VP6" 4-Wire DC Outputs

Figure 16 Electronic Output Circuit

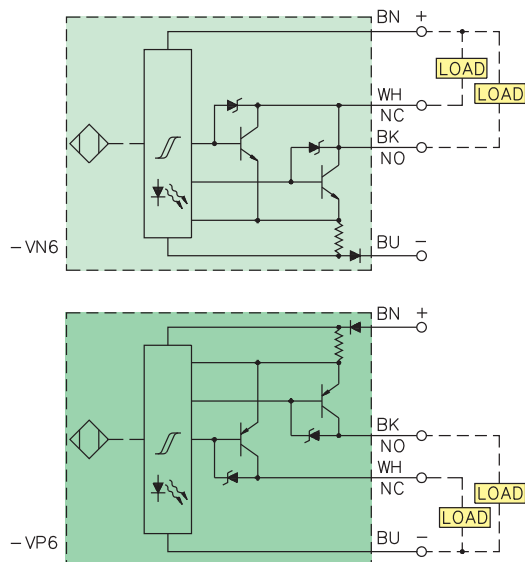
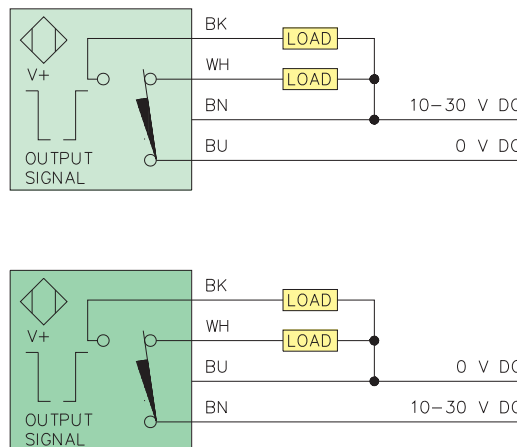


Figure 17 Wiring Diagram



NPN transistor
(i.e. current sinking
negative switching)
complementary
output (SPDT)

PNP transistor
(i.e. current sourcing
positive switching)
complementary
output (SPDT)

DC Outputs

"LIU" 4-Wire Linear Analog DC Output

Figure 18 Electronic Output Circuit

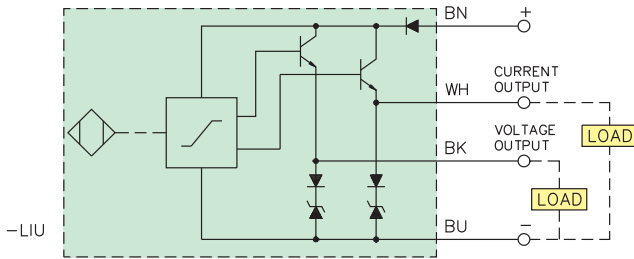
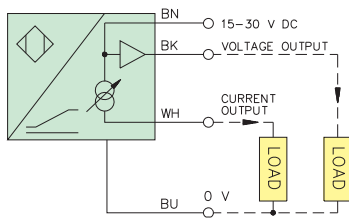
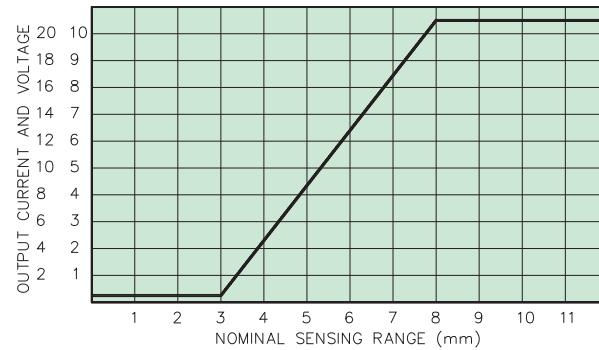


Figure 20 Wiring Diagram



Linear Analog Output; Current and Voltage

Figure 19 Typical Response Curve



Series/Parallel Connection

Logic functions with DC proximity sensors:

Self-contained proximity sensors can be wired in series or parallel to perform such logic functions as AND, OR, NAND, NOR. The wiring diagrams show the hook-up of four sensors with NPN and PNP outputs.

Take into account the accumulated no-load current and voltage drop per sensor added in the series string.

Series-connection:

- N.O. sensors: AND Function
 (target present, all sensors: load "on")
- N.C. sensors: NOR Function
 (target present, any sensor: load "off")

Parallel-connection:

- N.O. sensors: OR Function
 (target present, any sensor: load "on")
- N.C. sensors: NAND Function
 (target present, all sensors: load "off")

TURCK TIP

- To prevent the load from seeing the cumulative voltage drop of multiple 3-wire sensors in series, alternating polarity sensors can be used provided that the desired polarity is at the load.
- Wiring 3-wire sensors in series delays the load by the accumulated "time delay before availability" of all sensors in the string.

Series/Parallel Connection

Figure 21 NPN Connection

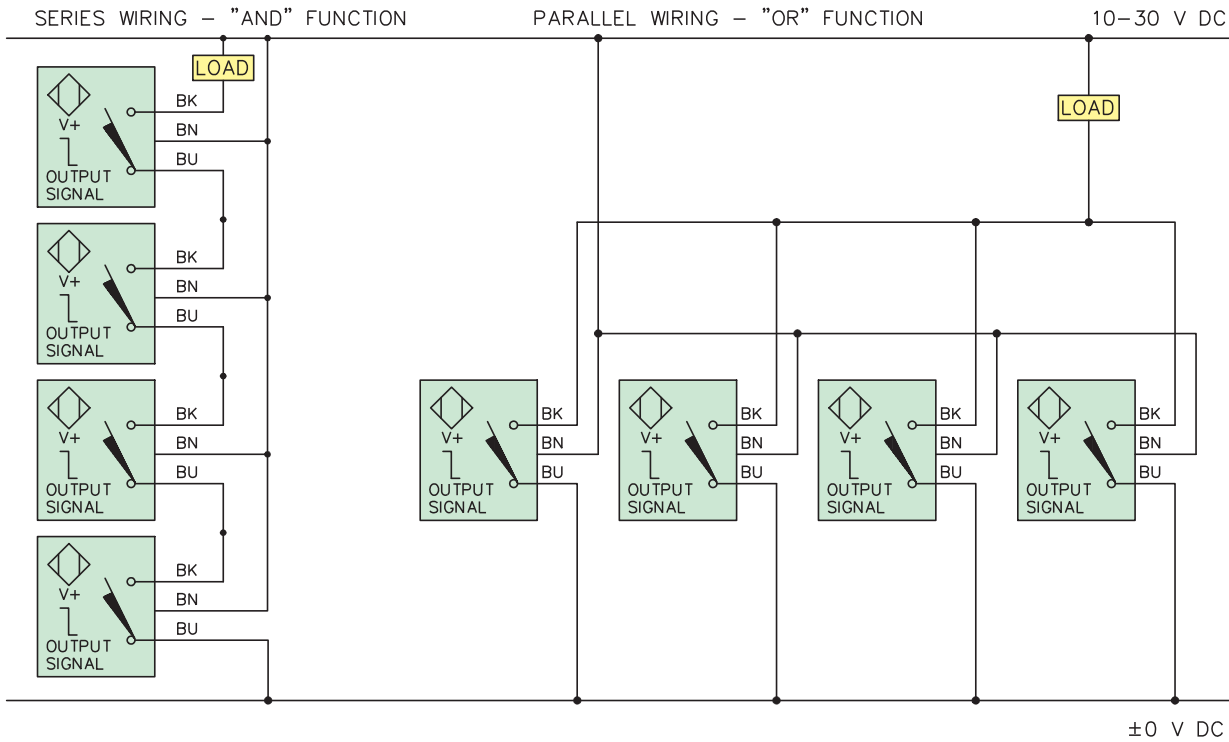
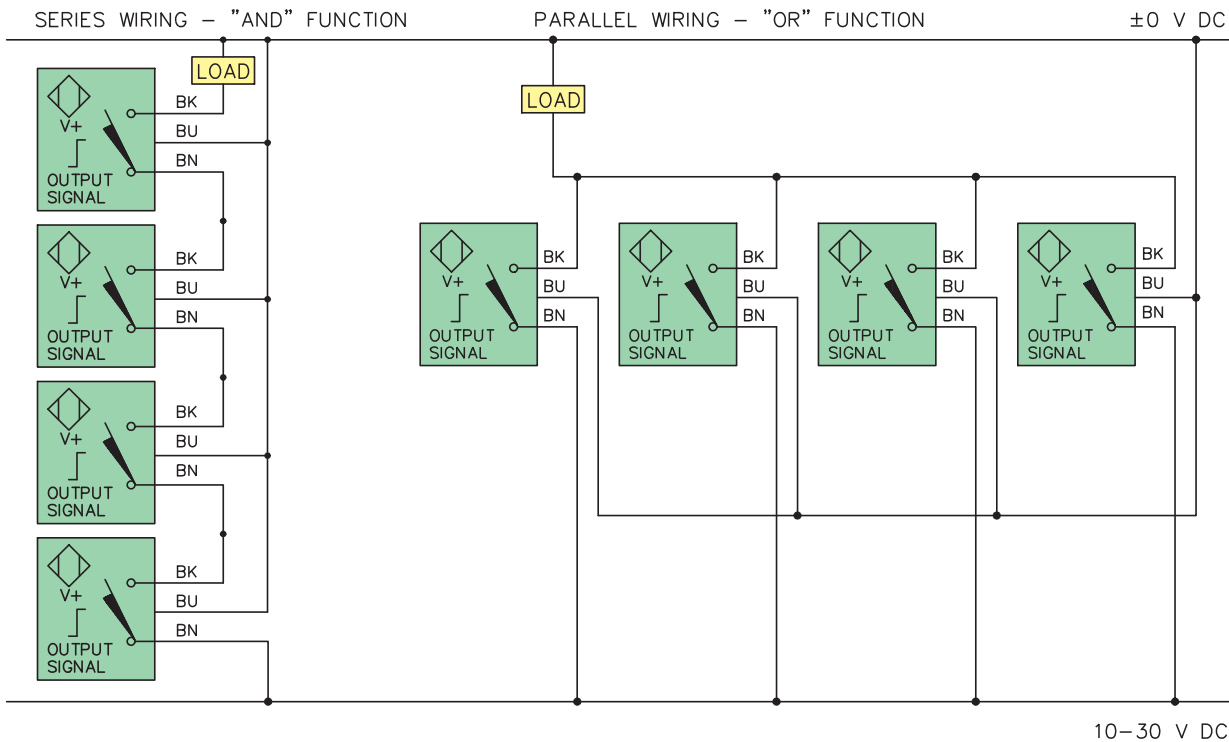


Figure 22 PNP Connection



Short-Circuit and Overload Protection

TURCK AC sensors with the Voltage Range designation "30", "32" or "40" are short-circuit and overload protected (manual reset). These sensors incorporate a specially designed circuit which continuously monitors the ON state output current for a short-circuit or overload condition. If either of these fault conditions occurs, the output is latched OFF until the power has been cycled OFF and ON again.

Always select short-circuit and overload protected sensors whenever possible.



CAUTION!



DO NOT...

operate an incandescent light bulb as a load.
The extremely high cold current will cause an overload condition.



DO NOT...

operate a proximity sensor from a wall outlet without a load.
This is considered a "dead" short and can cause catastrophic damage to nonshort-circuit protected sensors.



DO NOT...

directly operate a motor with a proximity sensor.
The inrush current can cause an overload condition.
Always use a motor starter, relay or other appropriate device.



DO NOT...

forget to ground. AC and AC/DC sensors must be grounded or there exists a potential of electrical shock.

AC and AC/DC Outputs

Figure 1 AC/DC Outputs - "3", "31", "33", non-SCP

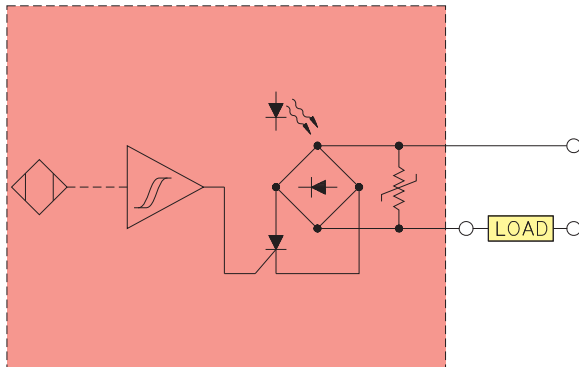
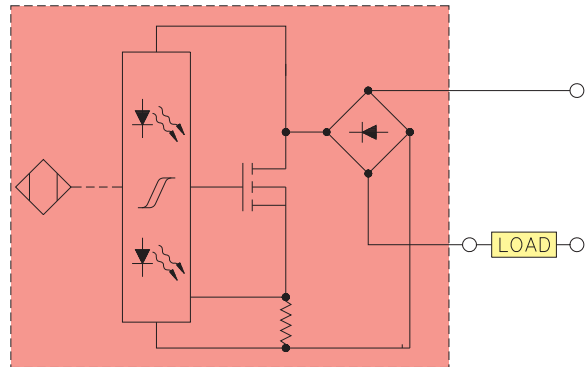


Figure 2 AC/DC Outputs - "30", "32", "40" SCP

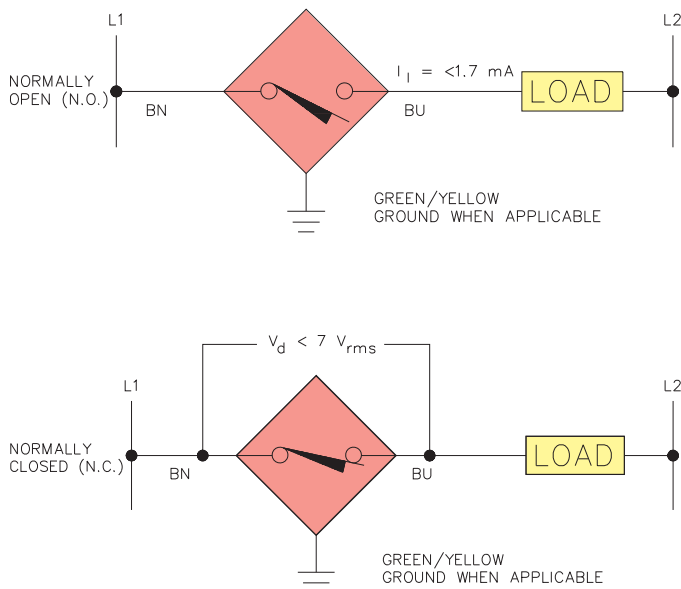


SCP = Short-circuit Protected

These sensors are used as pilot devices for AC-operated loads such as relays, contactors, solenoids, etc. The solid-state output permits use of the sensors directly on the line in series with an appropriate load. They, therefore, replace mechanical limit switches without alteration of circuitry, where operating speed or environmental conditions require the application of solid-state sensors.

These sensors are typically available in a voltage range of 20-250 VAC. All models are available with either normally open (N.O.), normally closed (N.C.) or programmable outputs (from N.O. to N.C.). Careful consideration must be given to the voltage drop across AC/DC sensors when used at 24 VDC.

Figure 3 Electro-Mechanical Equivalents



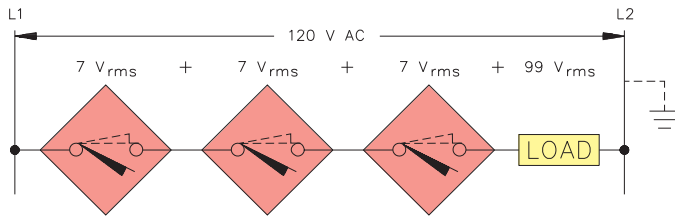
Since the sensors are connected in series with the load by means of only two leads, an off-state current flows through the load in the magnitude of approximately 1.7 mA.

This, however, does not affect the proper and reliable performance of most AC loads. Another characteristic of solid state sensors is a 5 to 7 volt drop developed across the sensor in the ON state.

All models contain a snubber network to protect against transients from inductive loads, which can cause false triggering.

Series Connection

Figure 4



Series-connection: (Figure 4)

N.O. sensors: AND Function
(target present, all sensors: load "on")

N.C. sensors: NOR Function
(target present, any sensor: load "off")

The maximum number of sensors to be operated in series depends on the stability of the line voltage and the operating characteristics of the load in question. The supply voltage minus the accumulative on state voltage drop across the series connection (approximately 7 Vrms per sensor) must be \geq the minimum required load voltage.

Mechanical Switches in Series

Problem:

Mechanical switches in series with proximity sensors should always be avoided because they can create an open circuit, leaving the proximity sensor without power. In order to operate properly, a proximity sensor should be powered continuously. A typical problem encountered when the mechanical contact closes while the target is present is a short time delay that is experienced before the load energizes (time delay before availability).

Solution:

A 33 k Ω , 1W by-pass resistor can be added across the mechanical contact to eliminate the time delay before availability. This will allow enough leakage current to keep the sensor ready for instantaneous operation.

Figure 5

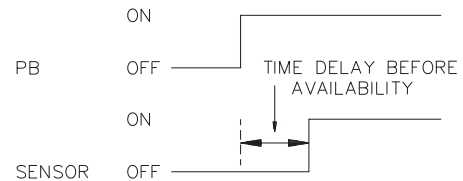
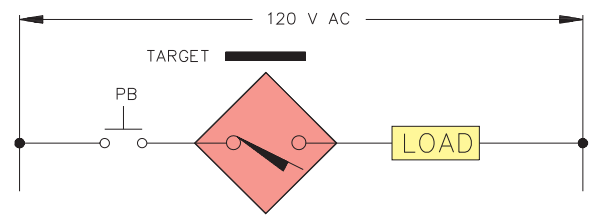
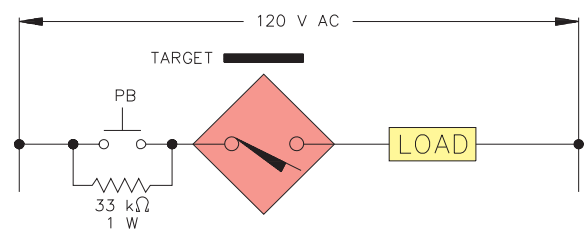


Figure 6



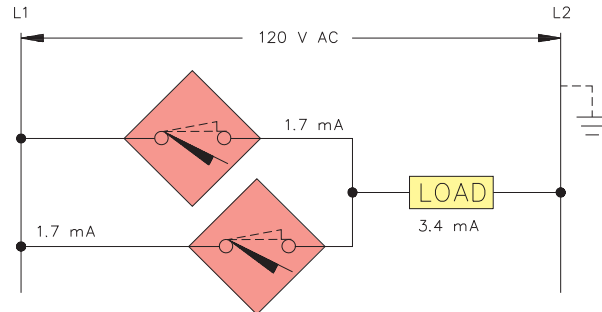
Parallel Connection

Figure 7

Parallel Connection: (Figure 7)

N.O. sensors: OR Function
(target present, any sensor: load "on")

N.C. sensors: NAND Function
(target present, all sensors: load "off")



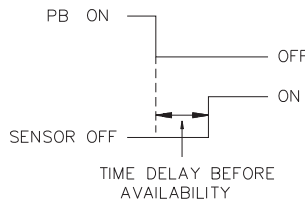
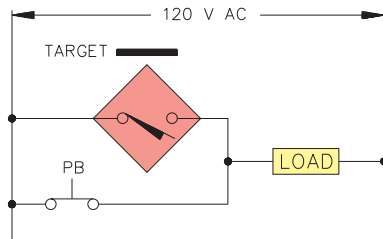
Wiring AC proximity sensors in parallel can result in inconsistent operation and should generally be avoided.

On-state voltage drop: With any sensor ON, the voltage across all other sensors is typically 7 Vrms. Since the minimum rated voltage for AC sensors is 20 Vrms, no other sensor with a target present can turn ON until the first sensor turns OFF. This transition is not instantaneous due to the time delay before availability, during which the load may drop out.

Leakage current through the load: This is equal to the total leakage of all sensors wired in parallel. Too much leakage into a solid state load can cause the input to turn ON and not turn OFF. Small relays may not drop out if the leakage current exceeds the relay's holding current.

Mechanical Switches in Parallel

Figure 8

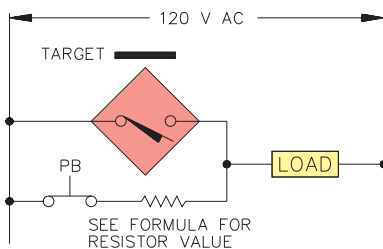


Problem:

As previously discussed, proximity sensors should be powered continuously to avoid the time delay before availability during power-up.

With mechanical switches in parallel, the sensor is shorted out every time the contact is closed, leaving it without power. If the target is present when the mechanical contact is opened, a small delay will be experienced during which the load may drop out.

Figure 9



Solution:

This delay can be avoided by adding a resistor in series with the mechanical contact. The voltage drop developed across the resistor with the contact closed will be enough to keep the sensor active. Use the formula below to determine the value and wattage.

Formula:

$$R = \frac{\text{minimum operating voltage of proximity sensor}}{\text{load current at operating voltage}}$$

Example:

$$R = \frac{20 \text{ V}}{180 \text{ mA}}$$

$$R = 110 \text{ W}$$

Minimum resistor wattage rating: $E \times I$

Example: $20 \text{ V} \times 180 \text{ mA} = 3.6 \text{ W} \approx 5 \text{ watts}$ recommended

NAMUR (Y0 and Y1) Output

NAMUR sensors are 2-wire sensing devices used with switching amplifiers. Because of the small amount of energy needed to operate NAMUR sensors, they can be used in intrinsically safe applications.

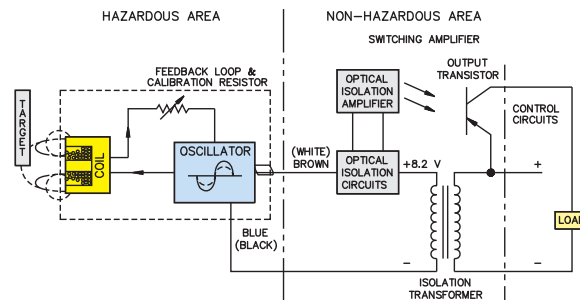
The operation of this sensor is similar to that of a variable resistor with a change in impedance as a target approaches the sensor. When no metal is being sensed, the inductive sensor is in a low impedance state and draws a current of more than 2.2 mA. When a metal target enters the high-frequency field radiated from the sensor head, the impedance increases as the target approaches. When fully damped, the sensor draws less than 1.0 mA. *Note: For capacitive and inductive magnet operated sensors, the current change characteristics are opposite.*

The current differential from the undamped to the damped (metal present) state is used to trigger an amplifier at a defined switching point. These sensors contain a relatively small number of components, which allows the construction of small devices and also assures a high degree of reliability.

In the undamped and damped state, the devices have fairly low impedance and are therefore, unaffected by most transients. NAMUR sensor circuits operate on direct current. Therefore, cable runs of several sensors may be run parallel to one another without mutual interference.

The NAMUR (Y0 and Y1) sensor behaves like a variable resistor when a target approaches.
 The impedance increases or decreases between 1 kΩ and 8 kΩ.

Figure 1



Typical Output Curves

Figure 2

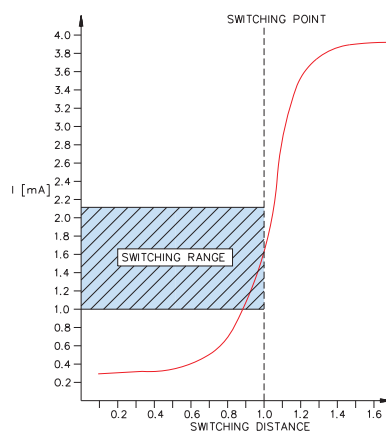
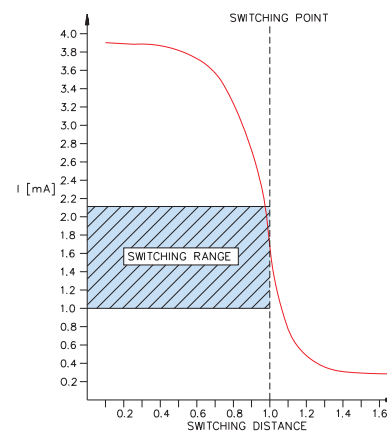


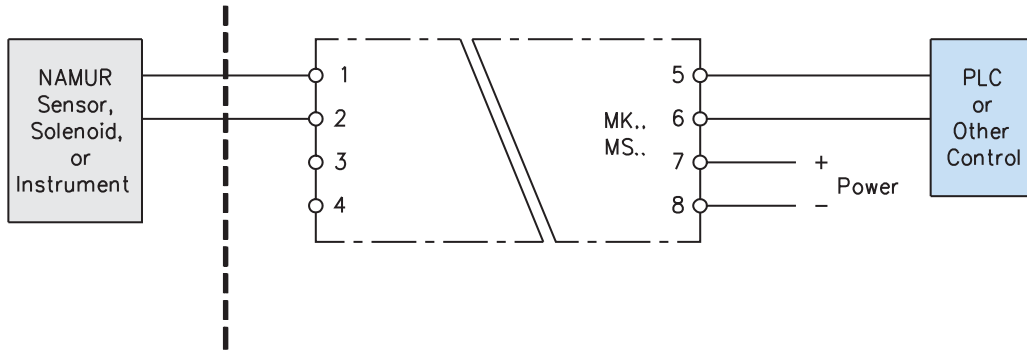
Figure 3



Note:
 The typical curve of current versus sensing distance with 8.2 V DC supply and 1 kΩ source impedance. All NAMUR (Y0 and Y1) sensors are calibrated to pass through 1.55 mA at nominal sensing range ±10%.

Typical Intrinsically Safe Installation

Figure 4



For guidance on installation of TURCK intrinsically safe systems, refer to the Instrument Society of America publication ISA-RP12.6-1995, "Wiring Practices for Hazardous (Classified) Locations Instrumentation".

The complete line of Intrinsically Safe and Associated Apparatus is featured in the TURCK "Isolated Barriers and Amplifiers" catalog.

Custom Interface Circuits

Figure 5

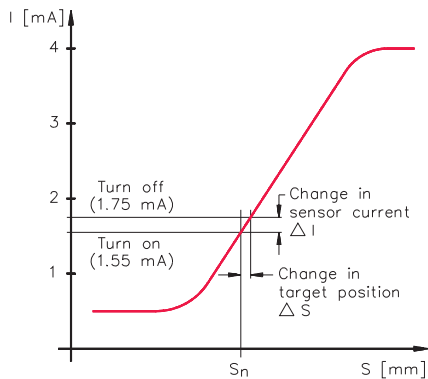
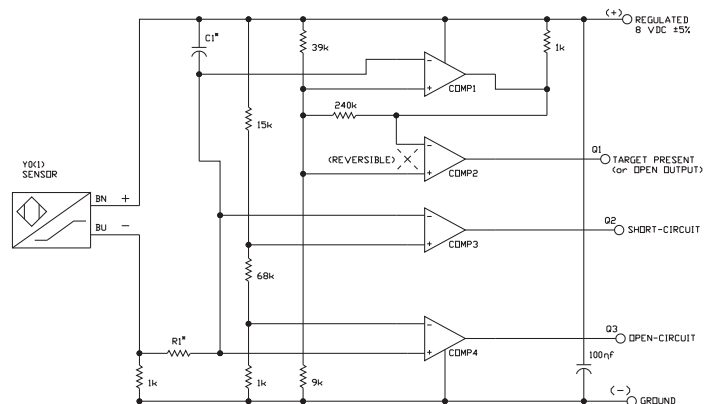


Figure 6



NAMUR sensors can operate outside the nominal operating values when the sensor is used in a nonhazardous area.

The supply voltage limits are: $V_{min} = 5 \text{ VDC}$; $V_{max} = 30 \text{ VDC}$

Within this voltage range the load resistance R_l must be adjusted for the supply voltage.

The following table gives typical values:

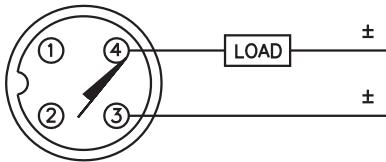
$V_{supply} \text{ (DC)}$	$R_l \text{ (k}\Omega\text{)}$	$I_{sn} \text{ (mA)}$	$\Delta I \text{ (mA)}$
5	0.39	≈0.7	≈0.1
12	1.8	≈2.3	≈0.3
15	2.2	≈2.9	≈0.4
24	3.9	≈3.8	≈0.5

If these values are used, the current I_{sn} corresponds to the rated operating distance (S_n) of the sensor.

NAMUR sensors are short-circuit protected up to 15 VDC and reverse polarity protected up to 10 VDC.

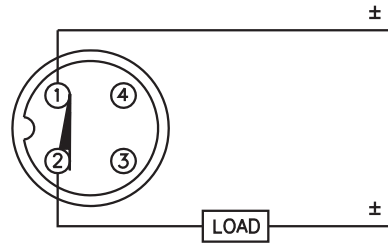
euofast® Pinout Diagrams and Mating Cordset

AD4X-H1141



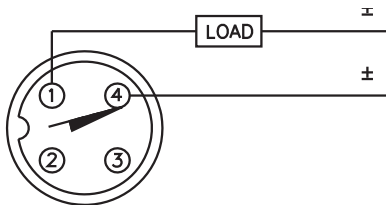
Mating Cordset: RK 4.2T-*

RD4X-H1141



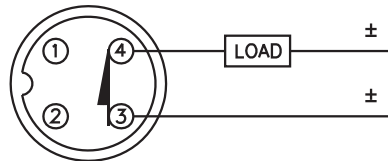
Mating Cordset: RK 4.21T-*(Y0)

AD4X-H1144



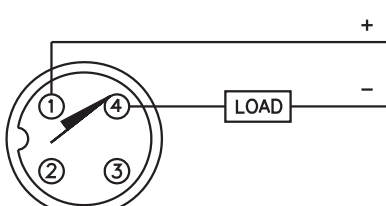
Mating Cordset: RK 4.2T-*/S674

RD4X-H1143



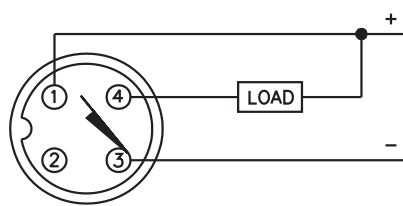
Mating Cordset: RK 4.2T-*

AG41X-H1341



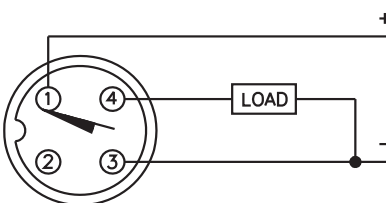
Mating Cordset: RK 4.23T-*/S748

AN6X-H1141/H1341



Mating Cordset: RK 4T-*

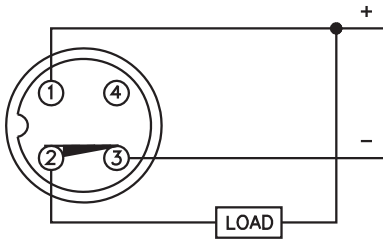
AP6X-H1141/H1341



Mating Cordset: RK 4T-*

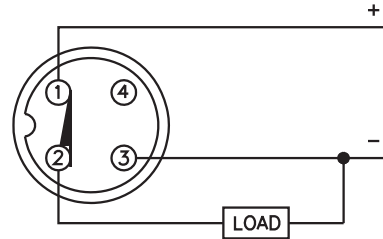
euromast® Pinout Diagrams and Mating Cordset

RN6X-H1141



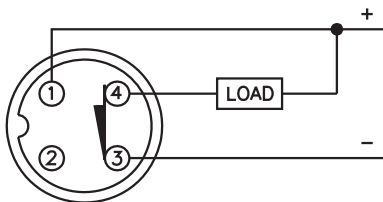
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RP6X-H1141



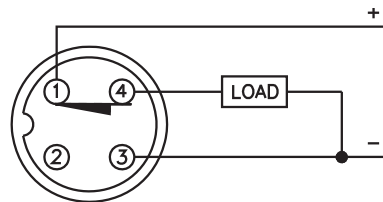
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RN6X-H1143/H1343



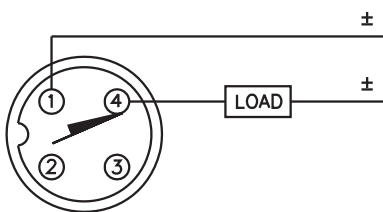
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RP6X-H1143/H1343



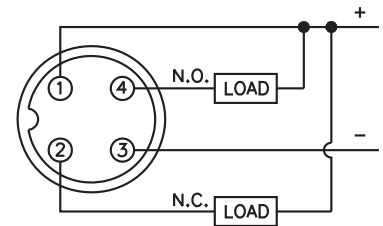
Mating Cordset: RK 4T-*

AG41X-H3141



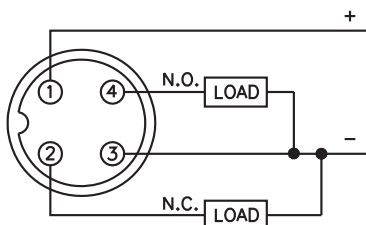
Mating Cordset: RK 4.23T-*/S748

VN4X2-H1141/H1341



Mating Cordset: RK 4.4T-*

VP4X2-H1141/H1341



Mating Cordset: RK 4.4T-*

Innovative Sensor and Connector Solutions

TURCK is the market leader in providing innovative sensor and connectivity solutions for industrial automation. Combine TURCK's high quality, high performance sensors with our ability to quickly mold multiple styles of cordsets give our customers an infinite selection of unique connectorized sensing solutions.

All TURCK sensors with potted-in cable are available with customized cable length and connector options. The broadest selection of connector options provides custom sensing solutions for the most diverse industrial applications. Because it is TURCK, you can expect the same fast, flexible support. Even with custom configurations, YOUR sensor can often be made within several days. Best of all, minimum quantity for YOUR sensor; ONE!

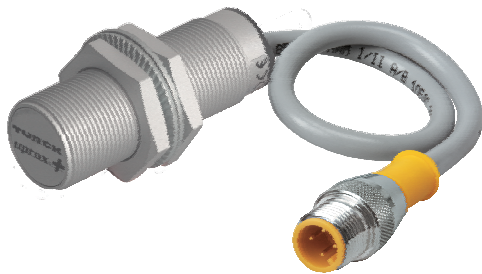
Part numbers are developed through your TURCK representative or application support. In general, the formula below illustrates how to configure a custom, connectorized TURCK sensor.

+ Length in Meters +



New Part Number = Bi 4-M12-AN6X-0.5-RS 4T

Sensors with Connector Examples:



Bi 5-MT18-AN6X - 0.2M - RS 4T
 Cable Sensor - Cable Length (meters) - **eurofast**® Male Connector



Bi 2-EG08K-AP6X - 0.5M - RS 4T
 Cable Sensor - Cable Length (meters) - **eurofast** Male Connector

Innovative Sensor and Connector Solutions

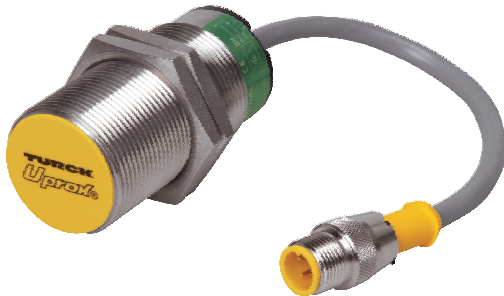
Sensors with Connector Examples:



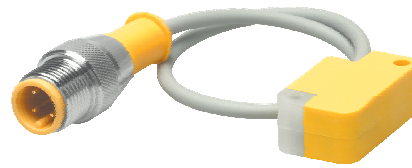
Bi 2-Q5.5-AP6X - **0.3M** - **PSG 3**
 Cable Sensor - Cable Length (meters) - *picofast*[®] Male Connector



Bi 8-M18-AN6X - **0.1M** - **RSM 40**
 Cable Sensor - Cable Length (meters) - *minifast*[®] Male Connector



Bi10U-EM30-AP6X - **0.2M** - **RS 4T**
 Cable Sensor - Cable Length (meters) - *eurofast* Male Connector



Ni 5U-Q10S-AN6X - **0.4M** - **RS 4T**
 Cable Sensor - Cable Length (meters) - *eurofast* Male Connector



Bi 8U-Q10-APX2 - **0.1M** - **PSG 3M**
 Cable Sensor - Cable Length (meters) - *picofast*[®] Male Connector

Specifications

TURCK

Innovative Solutions for Automation

2-Wire DC NAMUR - (Y0 and Y1)

Differential Travel (Hysteresis)	1-10% (5% typical)
Nominal Voltage	8.2 VDC (EN60947-5-6)
Resistance Change from Nonactivated to Activated Condition	Typical <1.0 to >8.0 k Ω
Resulting Current Change	≥ 2.2 mA to ≤ 1.0 mA
Recommended Switching Point for Remote Amplifier	>1.2 to <2.1 mA, typ. 1.55 mA ON/1.75 mA OFF
Power-On Effect	Realized in Amplifier
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Realized in Amplifier
Transient Protection	Realized in Amplifier
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	$\leq 2\%$ of Rated Operating Distance

2-Wire DC - (AD4, RD4, AG41 and RG41)

Ripple	$\leq 10\%$
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	Non-polarized (AD) <5.0 V Polarized (AG) <4.0 V
Trigger Current for Overload Protection	≥ 120 mA
Minimum Load Current	≥ 3.0 mA
Off-State (Leakage) Current	≤ 0.8 mA
Power-On Effect	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	$\leq 2\%$ of Rated Operating Distance

REED (AC) and (DC) - (AR7X)

Ripple	$\leq 10\%$
Differential Travel (Hysteresis)	≤ 1 mm (Depends on magnet)
Maximum Switching Capacity	10 W
No-Load Current	0 mA
Maximum Approach Velocity	≤ 10 m/s
Power-On Effect	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	$\geq \pm 0.1$ mm (constant temperature & voltage)
Temperature Drift	≤ 0.1 mm
Voltage Drop	≤ 0.5 Volts

3-Wire DC - (AN, RN, AP, RP)

Ripple	≤10%
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V
	- Si...K08/K10(AP71, AN7). . . ≤0.7 V
	- Bi/Ni../S34 ≤1.8 V
	- Bi 2-Q8SE-AP/AN.. . . . ≤2.5 V
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 μA
No-Load Current	<10 mA (Uprox ≤15 mA)
Time Delay Before Availability	≤8 ms
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance
	Bi 2-Q8SE-AP/AN.. ≤5% of Rated Operating Distance

4-Wire DC (VN, VP)

Ripple	≤10%
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA on 200 mA Load Current
	≥170 mA on 150 mA Load Current
	≥120 mA on 100 mA Load Current
Off-State (Leakage) Current	<100 μA
No-Load Current	<10 mA (Uprox ≤15 mA)
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance

Solid State Relay (AM6 and VM6)

Ripple	≤10%	Time Delay before availability . . .	≤50 ms
Rated Operational Current.	10-30 VDC	Reverse Polarity Protection	Incorporated
Differential.	3-15% (5% typical)	Wire-Break Protection	Incorporated
Voltage Drop		Short Circuit Protected	No
(Across Conducting Sensor) at I _e . .	400 m V	Transient Protection.	Per EN 60947-5-2
Continuous Load Current	≤6 Amp	Shock	30 g, 11 ms
Off-State (leakage) Current	≤0.1 mA	Vibration	55 Hz, 1 mm Amplitude,
Inrush Current	≤8.0 A (10.0 ms max)		in all 3 planes
No-Load Current	≤25 mA	Repeatability	≤2%

Specifications

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2-Wire AC w/o Short-Circuit Protection - (AZ, RZ, FZ)

Line Frequency	40-60 Hz
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA
	8 and 12 mm ≤6.0 V at 100 mA
Continuous Load Current.	≤400 mA
	8 and 12 mm ≤100 mA
Off-State (Leakage) Current	≤1.7 mA
Minimum Load Current	≥5.0 mA
Inrush Current.	≤8.0 A (≤10 ms, 5% Duty Cycle)
Power-On Effect	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability.	≤2% of Rated Operating Distance

2-Wire AC/DC w/Short-Circuit Protection - (ADZ, RDZ, FDZ, VDZ)

Line Frequency	40-60 Hz
Differential Travel (Hysteresis).	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA
	8 and 12 mm ≤6.0 V at 100 mA
Trigger Current for Overload Protection	AC: ≥440 mA; DC: ≥330 mA
	8 and 12 mm AC: ≥120 mA; DC: ≥120 mA
Continuous Load Current.	AC: ≤400 mA; DC: ≤300 mA
	8 and 12 mm AC: ≥100 mA; DC: ≥100 mA
Off-State (Leakage) Current	≤1.7 mA (AC)
	≤1.5 mA (DC)
Minimum Load Current	≥3.0 mA
Inrush Current.	4.0 A (≤20 ms, 10% Duty Cycle)
Power-On Effect.	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability.	≤2% of Rated Operating Distance

3-Wire DC Capacitive - (AP, RP, AN, RN)

Ripple	≤10%
Differential Travel (Hysteresis)	2-20% (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA
Off-State (Leakage) Current	<100 μA
No-Load Current	≤15 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Wire-Break Protection	Yes
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance
Temperature Drift	<±20% of Rated Operating Distance

4-Wire DC Capacitive - (VP, VN)

Ripple	≤10%
Differential Travel (Hysteresis)	2-20 (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA
Leakage (Off-State) Current	<100 μA
No-Load Current	≤15 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance
Temperature Drift	<±20% of Rated Operating Distance

2-Wire AC Capacitive - (AZ, RZ)

Line Frequency	50-60 Hz
Hysteresis (Differential Travel)	2-20% (5% typical)
Voltage Drop Across Conducting Sensor	≤7.0 V at 500 mA
Off-State (Leakage) Current	≤1.7 mA
Minimum Load Current	≥5.0 mA
Inrush Current	≤8.0 A (≤10 ms, 5% Duty Cycle)
Power-On Effect	Per IEC 947-5-2
Transient Protection	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude in all 3 Planes
Repeatability	≤2% of Rated Operating Distance
Temperature Drift	<±20% of Rated Operating Distance

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4-Wire DC Analog - (LIU)

Ripple	≤10%	Wire-Break Protection	Incorporated
No-Load Current	≤8.0 mA	Transient Protection	Per EN 60947-5-2
Voltage Output	0-10 V/R _L ≥4.7 kΩ	Shock	30 g, 11 ms
Current Output	0-20 mA/R _L ≤500 Ω	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Linearity Tolerance	±3% of full scale	Repeatability	≤1% (0.5% after 30 min. warm up)
Temperature Tolerance	±0.06% / °C		
Reverse Polarity Protection	Incorporated		

3-Wire DC Analog - (LI2)

Ripple	≤10%	Wire-Break Protection	Incorporated
No-Load Current	≤8.0 mA	Transient Protection	Per EN 60947-5-2
Current Output	4-20 mA/R _L ≤500 Ω	Shock	30 g, 11 ms
Linearity Tolerance	±3% of full scale	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Temperature Drift	±0.06% / °C	Repeatability	≤1% (0.5% after 30 min. warm up)
Reverse Polarity Protection	Incorporated		

LI = indicates current output only.
2 = Indicates a variance to standard which is 0-20 mA.

3-Wire DC Analog - (LF10)

Ripple	≤10%	Transient Protection	Per EN 60947-5-2
No-Load Current	≤8.0 mA	Shock	30 g, 11 ms
Frequency Output	1-10 kHz	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Linearity Tolerance	±5% of full scale	Repeatability	≤1% (0.5% after 30 min. warm up)
Temperature Tolerance	±0.06% / °C		
Reverse Polarity Protection	Incorporated		
Wire-Break Protection	Incorporated		

LF = Linear frequency (1-10 kHz) output.

4-Wire DC Analog - (LUAP6X)

Ripple	≤10%	Voltage Drop Across Conducting Sensor	≤1.8 V
No-Load Current	≤8.0 mA	Trigger Current for	
Voltage Output	0-10 V/R _L ≥4.7 kΩ	Overload Protection	≥220 mA on 200 mA load current
Linearity Tolerance	±5% of full scale	No-Load Current	<10 mA
Temperature Tolerance	±0.06% / °C	Vibration	55 Hz, 1 mm Amplitude, in all 3 planes
Reverse Polarity Protection	Incorporated	Repeatability	≤1% (0.5% after 30 min. warm up)
Wire-Break Protection	Incorporated		
Transient Protection	Per EN 60947-5-2		
Shock	30 g, 11 ms		
Off-State (Leakage) Current	<100 mA		

3-Wire DC Analog - (LU)

4-Wire DC Analog - (LIU5)

Ripple	≤10%
No-Load Current	≤8.0 mA
Voltage Output	0-10 V/R _L ≥4.7 kΩ
Current Output	4-20 mA/R _L ≤500 Ω
Linearity Tolerance	±3% of full scale
Temperature Drift	±0.06% / °C
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
Transient Protection.	Per EN 60947-5-2
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude, in all 3 planes

Repeatability	≤1%
	(0.5% after 30 min. warm up)

LIU = Linear voltage or current output.
5 = Indicates 4-20 mA and 0-10 V output.

Variations:

No Load Current	
WIM 40-Q20L60	≤23.0 mA
WIM 70-Q20L100.	≤23.0 mA
WIM 40-NTL/STL	≤23.0 mA
Linearity Tolerance	
WIM 40-Q20L60	≤2%

LIU = Linear voltage or current output.
5 = Indicates 4-20 mA and 0-10 V output.

Variations:

No Load Current	
WIM 40-Q20L60	≤23.0 mA
WIM 70-Q20L100.	≤23.0 mA
WIM 40-NTL/STL	≤23.0 mA
Linearity Tolerance	
WIM 40-Q20L60	≤2%
WIM 70-Q20L100.	≤8%
WIM 40-NTL/STL	≤2%

Relative Temp. Drift	
WIM 40-Q20L60	≤±0.06% °C
WIM 70-Q20L100.	≤±0.06% °C
WIM 40-NTL/STL	≤±0.06% °C

2-Wire DC Analog NAMUR - (LI-EXI)

Linearity Tolerance	≤5% of final value
Nominal Voltage	8.2 VDC (EN 50227)
Current Output	4-20 mA
Power-On Effect	Realized in Amplifier
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Realized in Amplifier
Transient Protection.	Realized in Amplifier

Temperature Drift	≤±0.06% per °C
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm Amplitude, in all 3 Planes
Repeatability	≤1%
	(0.5% after 30 min. warm up)

Third Party Compliances



CSA - Canadian Standards Association

CSA certifies devices for use in Canadian and American hazardous and non-hazardous locations.



FM - Approvals

FM approves devices for use in explosive hazardous locations in the US. Intrinsically safe (IS) devices are approved for Division 1 areas; nonincendive (NI) devices are approved for Division 2 areas.



UL - Underwriter's Laboratories

UL is a nationally recognized US test laboratory that tests equipment to meet US standards and jurisdictional requirements. UL lists stand-alone devices, such as sensors, and recognizes system components, such as relays.



Note: TURCK products comply with many International standards. Consult factory for more information.

Hazardous Location Approvals

The NAMUR sensors shown in this catalog are Intrinsically Safe per the following:

EUROPE: CENELEC Standards EN 50 014 and EN 50 020; EC Directive 94/9/EC (ATEX)



USA, CANADA: Class I, II, III Division 1 Groups A, B, C, D, E, F, G*

Any FM approved or CSA certified associated apparatus with the following Entity Concept parameters can be used with these sensors:

$$V_{OC} \text{ or } V_T \leq 15 \text{ V} \quad C_a \geq C_{cable} + 220 \text{ nF}$$

$$I_{SC} \text{ or } I_T \leq 60 \text{ mA} \quad L_a \geq L_{cable} + 280 \mu\text{H}$$

* Note: CSA does not allow the use of quick disconnects in Groups E and F

Many 3-wire DC sensors are Nonincendive for Class I, Division 2 hazardous areas. Only those 3-wire sensors identified with the FM logo have this approval.

USA: Class I Division 2 Groups A, B, C, D

-AN6X, -AP6X
 -RN6X, -RP6X

Factory P/N's ending in /S1751

Integrated cables and cordsets must have ITC-ER Rating.



More on Hazardous Locations

Standards for Intrinsically Safe systems in hazardous locations are found in the following publications:

- United States: National Electrical Code 1996 (ANSI/NFPA 70) Articles 504 and 505
Factory Mutual Approval Standard Class No. 3610
Underwriters Laboratory Standard UL 913
- Canada: Canadian Electrical Code C22.1-94 Section 18 and Appendix F.
- Europe: CENELEC Standards EN 50 020 and EN 50 014

Hazardous Location Definitions (U.S. and Canada)

- Class I Locations in which flammable gases or vapors exist or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.
- Class II Locations that are hazardous because of the presence of combustible dust.
- Class III Locations that are hazardous because of the presence of easily ignitable fibers or flyings, but in which such fibers or flyings are not likely to be suspended in the air in quantities sufficient to produce ignitable mixtures.
- Division 1 Locations in which hazardous concentrations in the air exist continuously, intermittently, or periodically under normal operating conditions.
- Division 2 Locations in which hazardous materials are handled, processed or used, but in which they are normally confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown.
- Group A Atmospheres containing acetylene.
- Group B Atmospheres containing hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume, or gases or vapors of equivalent hazard such as butadiene, ethylene oxide, propylene oxide and acrolein.
- Group C Atmospheres such as ethyl ether, ethylene, acetaldehyde, cyclopropane, or gases or vapors of equivalent hazard.
- Group D Atmospheres such as acetone, alcohol, ammonia, benzene, butane, cyclopropane, ethylene dichloride, gasoline, hexane, lacquer solvent vapors, methane, natural gas, naphtha, propane, xylene, or gases or vapors of equivalent hazard.
- Group E Atmospheres containing combustible metal dusts, including aluminum, magnesium, and their commercial alloys, and other combustible dusts with similarly hazardous characteristics.
- Group F Atmospheres containing combustible carbonaceous dusts, including carbon black, charcoal and coal.
- Group G Atmospheres containing other combustible dusts, such as chemical, agricultural or plastic dusts.

Excerpt from National Electrical Code:

Intrinsically safe apparatus and wiring shall be permitted in any hazardous (classified) location for which it is approved, and the provisions of Articles 501 through 503 and 510 through 516 shall not be considered applicable to such installations except as required by Article 504.

Wiring of intrinsically safe circuits shall be physically separated from wiring of all other circuits that are not intrinsically safe. Means shall be provided to minimize the passage of gases and vapors. Installation of intrinsically safe apparatus and wiring shall be in accordance with the requirements of Article 504.

Enclosure Ratings

NEMA 250-1991

- NEMA 1** Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt.
- NEMA 3** Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust, and damage from external ice formation.
- NEMA 4** Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.
- NEMA 4X** Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation.
- NEMA 6** Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during occasional temporary submersion at a limited depth, and damage from external ice formation.

IEC 529

- IP 40** Protection against solid bodies larger than 1 mm. No protection against liquids.
- IP 65** Dust tight. Protection against water spray from all directions at 14.2 PSI through a 12.5 mm nozzle.
- IP 67** Dust tight. Protection against the effects of immersion in water for 30 minutes at 1 meter.
- IP 68** Dust tight. Protection against the effects of indefinite immersion in water at a pressure specified by the manufacturer. Ex. TURCK's IP 68 definitions is IP 67 plus.
- 24 hours at 70°C
 - 24 hours at -25°C
 - 7 days at 1 meter under water at a constant temperature
 - 10 cycles +70°C and -25°C, minimum of 1 hour at each temperature

IP 69K

Hot steam jet cleaning per EN 60529 (IP enclosure ratings) and DIN 40050-9.

TURCK TIP



For oily environments - Use plastic sensors with quick disconnects and TURCK PUR "/>590" cordsets.



For washdown environments - Use TURCK's WashdownSensors and appropriate mating cordsets.

Material Descriptions

Plastics

ABS - Acrylonitrile-Butadiene-Styrene	Impact resistant, rigid. Resistant to aqueous acids, alkalis, salts, alcohols, oils, concentrated hydrochloric acid; disintegrated by concentrated sulfuric or nitric acids, esters, ketones
CPE, Thermoset (rubber cables)	Excellent resistance to oils, acids, chemicals, ozone, extreme temperatures, cuts, abrasions; flame retardant in welding applications
PA - Polyamide (nylon)	Good mechanical strength, temperature resistant
PA, Amorphous (Trogamid T)	Similar properties to nylon, but transparent. Hard, rigid, good chemical resistance.
PA 12-GF30	Nylon 12, 30% glass filled
PA 66-GF25-V0	Nylon 66, 25% glass filled, self-extinguishing
PBT - Polybutylene Terephthalate (when glass reinforced, Crastin [®])	Good mechanical strength; resistant to abrasion; resistant to alcohols, oils, some acids, trichloroethylene
PBT-GF30-V0	PBT, 30% glass filled, self-extinguishing
PEI - Polyetherimide (Ultem [®])	Excellent resistance to most commercial automotive fluids, fully hydrogenated hydrocarbons, alcohols, weak aqueous solutions. Withstands higher temperatures.
POM - Polyoxymethylene / Polyacetal (Delrin [®])	High impact resistance; good mechanical strength; good resistance to oils, alcohols, alkalis, gasoline, xylene, toluene. Dielectric constant 3.7
PP - Polypropylene	Excellent resistance against chemicals including acids, solvents and solutions. High temperature resistance and good mechanical strength
PTFE - Polytetrafluoroethylene	Optimum resistance against high temperature and chemicals; low dielectric constant (2.0)
TPU, Thermoplastic Polyurethane	Elastic, resistant to abrasion, impact-resistant, oil- and grease-tolerant
PVC - Polyvinylchloride	Good mechanical strength, viscosity to impact; resistant to acids, alkalis
PVC, irradiated	Heat and chemical resistant, withstands short-term temperatures to 482° F
PVDF - Polyvinylidene fluoride (Kynar [®])	Resistant to high and low temperatures, good resistance to chemicals (similar to PTFE), high mechanical strength
Silicon	For use at high or low ambient temperatures (-50...+180 °C), moderate mechanical strength, average resistance against alkalis, acids, oils, and solvents
IRPA12 - Irradiated Polyamide (nylon)	Good mechanical strength, temp. resistant
EPTR - Elastomer, Polymer Thermal Plastic	Good fluid resistance
TROG - Trogamid T	Hard, rigid, good chemical resistance

Metals

AG	armorguard[®]
SS - 306 Stainless Steel	Excellent atmospheric resistance
CPB	Chrome Plated Brass
CuZn - Brass	Generally good resistance to industrial atmospheres
GD - AlSi12 - Aluminum, die-cast	Low specific weight, long-life characteristics
GD - ZnAl4Cu1 (Z410) - Zinc, die-cast	Long-life characteristics
TC	PTFE Coated
WG	weldguard[®]
AL - Anodized Aluminum	Long-life characteristics
SF - Stoneface [®]	High abrasion resistance, excellent for MIG welding applications, high heat and weld flow immunity
TS - Tool Steel	Excellent durability

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Matrix of TURCK Sensor Materials *

Housing Style	ABS	PA, Trog. T	PA	PBT	POM	PP	PUR	PVC	PVDF	PEI	306 SS	Al	Brass	Zinc	Thermoset Plastic
CA25, CA40												X	X	X	X
CK40				X									X	X	
CP40			X**	X											
CP80, K90SR		X	X	X											
DS20				X				X							
EG			X				X	X			X				
EM			X								X				
G, M (potted-in cable)			X				X	X					X		
G, M (connector)			X										X		
G..SK		X	X										X		
G47SR	X		X										X		
INR, INT			X				X						X		
K..SK, P..SK		X	X												
K40SR, P30SR	X		X												
KT34									X						
M..T			X					X					X		
PCS				X			X	X					X		
P, S (potted-in cable)			X				X	X							
P, S (connector)			X												
P../S139			X		X		X								
PT30									X						
QF5.5						X									
Q06			X					X							
Q6.5 (World Clamp)				X			X						X		
Q6.5				X			X								
Q5.5, Q9.5, ISI			X			X	X								
Q08, Q8SE			X					X					X	X	
Q10				X											
Q10S			X				X	X							
Q11S, Q12				X				X							
Q14, Q20				X			X	X					X		
Q14, Q20 Ring				X	X			X					X		
Q18, Q25, Q30				X			X	X							
Q26			X	X				X							
Q34, Q80				X									X		
S185							X	X	X						
Cable Gland			X												
Wet Suit				X					X	X					

Matrix of TURCK Sensor Materials *

Housing Style	ABS	PA, Trog. T	PA	PBT	POM	PUR	PVC	PVDF	PEI	306 SS	Al	Brass	Zinc	Thermoset Plastic
A23			X				X				X	X	X	
AKT			X				X			X	X		X	
CRS			X									X	X	
FST, NST, QST			X				X				X	X		
IKE, IKM, IKT			X				X				X	X	X	
KST			X				X			X		X	X	
PSM			X				X			X	X	X		
PST			X				X			X		X		

Chemical Compatability

The information in this chart is derived from reputable industry sources and is to be used only as a guide in selecting materials suitable for your application. TURCK does not warrant in any fashion that the information in this chart is accurate or complete, or that any material is suitable for any purpose.

Most ratings listed here apply to a 48-hour exposure period.

Ratings: A - No effect

B - Minor effect

C - Moderate effect

D - Severe effect

φ - No specific data, but probable rating.

	ABS	Trog. T	PA 12	PBT	PEI	POM	PP	PTFE	PUR	PVC	PVDF	306 SS	Al	Brass	Zinc
Ammonia, liquid	B	B	A	B	D	C/D	A	A	C	A	A	B	A	D	A
Chlorine anhydrous liquid	nd	nd	D	D	nd	C	D	A	C	D	A	C	D	D	nd
De-ionized water	nd	nd	A	nd	A	nd	A	A	nd	A	A	A	A	A	nd
Formic acid	D	D	D	A	nd	C	A	A	C	A	A	A/B	A	D	D
Gasoline	D	A	A	A	A	A	C	A	A	C	A	A	A	A	nd
Hydrochloric acid <40%	A	A/B	D	A	A	C	C	A	D	B	A	D	D	D	D
Hydrofluoric acid <50%	C	D	D	B	A	D	A	A	C	B	A	D	D	D	nd
Methanol	D	D	B	A	A	A	A	A	B	A	A	A	A	A	A
Phosphoric acid <40%	B(C)	D	B	A	A	D	A	A	D ^φ	B	B	D	C	D	D
Potassium hydroxide <15%	A	A	C	B	A	B	A	A	C	A	A	B	D	D	nd
Sodium hydroxide <55%	A	A	C	B	A	B	A	A	B	A	D	B	D	D	D
Sodium hypochlorite ≤13%	B	nd	B	A	nd	C	A	A	B	A	A	C	D	D	A
Sulfuric acid <75%	B	A	D	A	A	D	A	A	C	A	A	D	D	D	D
Toluene	D	A	A	A	A	A	C	A	C	D	A	A	A	A	nd
Trichloroethylene	D	A	C	A	nd	B		A	D	D	B	A/B	D	A	A

Specifications

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ASB-3	J19	BC 5-QF5.5-Y0X/S250	G17	BC10-Q14-AN4X2/S400	G19
ASB-4	J19	BC 5-QF5.5-Y1X/S250	G17	BC10-Q14-AN4X2-V1131	G19
ASB-5	J19	BC 5-S185-AN4X	G35	BC10-Q14-AN4X2-V1131/S400	G19
ASB-6	J19	BC 5-S185-AN4X/S100	G35	BC10-Q14-AP4X2	G19
ASB-7	J19	BC 5-S185-AN4X-0.3M-RS 4T	G33	BC10-Q14-AP4X2/S400	G19
ASB-8	J10	BC 5-S185-AP4X	G35	BC10-Q14-AP4X2-V1131	G19
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T-CK40-D-FC	L17	TWD-18S	L19	WIM125-Q25L166-LIU5X2-H1141	J57
T-CK40-T-FC	L17	TWD-18S-1	G51	WIM160-Q25L201-LIU5X2-H1141	J57
T-CK40-T-MCB	L17	TWD-18S-1	L19	WIM200-Q25L241-LIU5X2-H1141	J57
T-CK40-T-MCC	L17	TWD-18S-1NPT	G51	WIM40-Q20L60-LIU5-H1141	J55
T-CP40-T-C	L17	TWD-30S	L20	WIM40-Q20L60-LIU5-H1141/S400	J55
T-CP80-T	L17	TWD-30S-SHORT	G51	WIM45-UNTL-0.3-BIM-UNT-LUAP6X4-H1141	J53
TMF	L22	TWD-40S	L20	WIM45-UNTL-LIU5X2-0.3M-PSG 4M	J53
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TMF 13.5-14	L22	TWT-18S	L19	WIM70-Q20L100-LIU5-H1141	J55
TMF 18-G	L22	TWT-18S-1	L19	WP-08-50-03	L4
TMF 18-MS	L22	TWT-18S-1NPT	G51	WP-12-100-06	L4
TMF 30-G	L22	TWT-30S	L20	WP-12-50-03	L4
TMF 30-MS	L22	TWT-30S-SHORT	G51	WP-12-50-06	L4
TMF 47-G	L22	TWT-30S-SHORT	L20		
TMF 9-14	L22	TWT-40S	L20		
T-Q08-T-MCC	L18	TWTS-1.5-30	G52		
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TSG-12	L21	TWTS-2-30	G52		
TSG-18	G52	TWTS-2-30	L19		

Warranty Terms and Conditions

RISK OF LOSS

Delivery of the equipment to a common carrier shall constitute delivery to the Purchaser and the risk of loss shall transfer at that time to Purchaser. Should delivery be delayed due to an act or omission on the part of the Purchaser, risk of loss shall transfer to the Purchaser upon notification by **TURCK Inc.** that the order is complete and ready for shipment.

WARRANTIES

TURCK INC. (hereinafter "**TURCK**") offers five (5) **WARRANTIES** to cover all products sold. They are as follows:

- 1) The **12-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME, 5-YEAR, 24-MONTH** or **18-MONTH** warranty. No registration required.
- 2) The **18-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME** or **5-YEAR WARRANTY**. No registration is required.
- 3) The **24-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME, 5-YEAR** or **18-MONTH**. No registration is required.
- 4) The **5-YEAR WARRANTY** is available generally for the products listed. No registration is required.
- 5) A **LIFETIME WARRANTY** is available for the products listed. It becomes effective when the accompanying **TURCK LIFETIME WARRANTY REGISTRATION** is completed and returned to **TURCK**.

GENERAL TERMS AND CONDITIONS FOR ALL WARRANTIES

- **12-MONTH STANDARD WARRANTY**
- **18-MONTH STANDARD WARRANTY**
- **24-MONTH STANDARD WARRANTY**
- **5-YEAR WARRANTY**
- **LIFETIME WARRANTY**

TURCK warrants the Products covered by the respective **WARRANTY AGREEMENTS** to be free from defects in material and workmanship under normal and proper usage for the respective time periods listed above from the date of shipment from **TURCK**. In addition, certain specific terms apply to the various **WARRANTIES**.

THESE EXPRESS WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER REPRESENTATIONS MADE - BOTH EXPRESSED AND IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE FOR PRODUCTS COVERED BY THESE TERMS AND CONDITIONS.

TURCK warrants that the goods sold are as described, but no promise, description, affirmation of fact, sample model or representation, oral or written shall be part of an order, unless set forth in these terms and conditions, or are in writing and signed by an authorized representative of **TURCK**. These **WARRANTIES** do not apply to any Product which has been subject to misuse, negligence, or accident - or to any Product which has been modified or repaired, improperly installed, altered, or disassembled -except according to **TURCK's** written instructions.

These **WARRANTIES** are subject to the following conditions:

- 1) These **WARRANTIES** are limited to the electronic and mechanical performance only, as expressly detailed in the Product specifications and **NOT** to cosmetic performance.
- 2) These **WARRANTIES** shall not apply to any cables attached to, or integrated with the Product. However, the **18-MONTH WARRANTY** shall apply to cables sold separately by **TURCK**.
- 3) These **WARRANTIES** shall not apply to any Products which are stored, or utilized, in harsh environmental or electrical conditions outside **TURCK's** written specifications.
- 4) The **WARRANTIES** are applicable only to Products shipped from **TURCK** subsequent to January 1, 1988.

ADDITIONAL SPECIFIC TERMS FOR -

(12-MONTH STANDARD WARRANTY) for Linear Displacement Transducers (EZ-Track) and RFID products, Draw Wire Assemblies / Slip Rings.

(18-MONTH STANDARD WARRANTY) FOR Q-TRACK INDUCTIVE SENSORS, ULTRASONIC SENSORS, FLOW SENSORS, PRESSURE SENSORS, TEMPERATURE SENSORS, CABLES AND ALL NON-SENSING PRODUCTS SOLD BY TURCK INC. INCLUDING MULTI-SAFE, MULTI-MODUL, MULTI-CART AND RELATED AMPLIFIER PRODUCTS, RELAYS AND TIMERS.

(24-MONTH STANDARD WARRANTY) FOR ENCODERS.

5-YEAR WARRANTY FOR INDUCTIVE AND CAPACITIVE PROXIMITY SENSORS: The periods covered for the above WARRANTIES and Products shall be 12 MONTHS, 18-MONTHS, 24-MONTHS and 5-YEARS, respectively, from the date of shipment from TURCK.



Warranty Terms and Conditions

ADDITIONAL SPECIFIC TERMS FOR - (continued)

LIFETIME WARRANTY (OPTIONAL - REGISTRATION REQUIRED) FOR INDUCTIVE, INDUCTIVE MAGNET OPERATED AND CAPACITIVE PROXIMITY SENSORS SOLD TO THE ORIGINAL PURCHASER FOR THE LIFETIME OF THE ORIGINAL APPLICATION.

The following terms apply to the LIFETIME WARRANTY in addition to the General Terms:

- 1) This WARRANTY shall be effective only when the LIFETIME WARRANTY REGISTRATION has been completed, signed by the End User and an authorized **TURCK** Representative or Distributor and has been received by **TURCK** no later than six (6) months after installation in the End User’s Plant, or two (2) years from the date product was shipped from **TURCK**, whichever is sooner.
- 2) This warranty is available only to **TURCK’s** authorized Representatives, Distributors and to the Original User. (The term “Original User” means that person, firm, or corporation which first uses the Product on a continuous basis in connection with the operation of a production line, piece of machinery, equipment, or similar device.) In the event the ownership of the product is transferred to a person, firm or corporation other than the Original User, this WARRANTY shall terminate.
- 3) This WARRANTY is applicable only to the Original Application. In the event the machinery, equipment, or production line to which the Product is connected, or on which it is installed, is substituted, changed, moved or replaced, the WARRANTY shall terminate.
- 4) This WARRANTY shall be valid only if the Product was purchased by the Original User from **TURCK**, or from an authorized **TURCK** Distributor, or was an integral part of a piece of machinery and equipment obtained by the Original user from an Original Equipment Manufacturer, which itself, was purchased directly from **TURCK** or from an authorized Distributor.

PURCHASER’S REMEDIES

This Remedy shall apply to all WARRANTIES. If a TURCK Distributor desires to make a WARRANTY Claim, the Distributor shall, if requested by TURCK, ship the Product to **TURCK’s** factory in Minneapolis, Minnesota, postage or freight prepaid. If the User desires to make a WARRANTY Claim, they shall notify the authorized **TURCK** Distributor from whom it was purchased or, if such Distributor is unknown, shall notify **TURCK**. **TURCK** shall, at its option, take any of the following two courses of action for any products which **TURCK** determines are defective in materials or workmanship.

- 1) Repair or replace the Product and ship the Product to the Original Purchaser or to the authorized **TURCK** Distributor, postage or freight prepaid; or
- 2) Repay to the Original Purchaser that price paid by the Original Purchaser; provided that if the claim is made under the LIFETIME WARRANTY, and such Product is not then being manufactured by **TURCK**, then the amount to be repaid by **TURCK** to the Original Purchaser shall be reduced according to the following schedule:

<u>Number of Years Since Date of Purchase by Original Purchaser</u>	<u>Percent of Original Purchase Price To Be Paid by TURCK</u>
10	50%
15	25%
20	10%
More than 20	5%

PURCHASER’S REMEDIES SHALL BE LIMITED EXCLUSIVELY TO THE RIGHT OF REPLACEMENT, REPAIR OR REPAYMENT AS PROVIDED AND DOES NOT INCLUDE ANY LABOR COST OR REPLACEMENT AT ORIGINAL PURCHASER’S SITE. TURCK SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY WARRANTY, EXPRESSED OR IMPLIED, APPLICABLE TO THE PRODUCT, INCLUDING WITHOUT LIMITATION, ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTERRUPTION.

CONSIDER SAFETY AND PROTECTION PRECAUTIONS

TURCK takes great care to design and build reliable and dependable products, however, some products can fail eventually. You must take precautions to design your equipment to prevent property damage and personal injury in the unlikely event of failure. As a matter of policy, TURCK does NOT recommend the installation of electronic controls as the sole device FOR THE PROTECTION OF PERSONNEL in connection with power driven presses, brakes, shears and similar equipment and, therefore, the customer should build in redundancy or dual control using approved safety devices for these applications.

GOVERNING LAW

The sale and purchase of Products covered hereby and all terms and conditions hereof shall be governed by the law of the State of Minnesota.

Sensors Index

Notes: