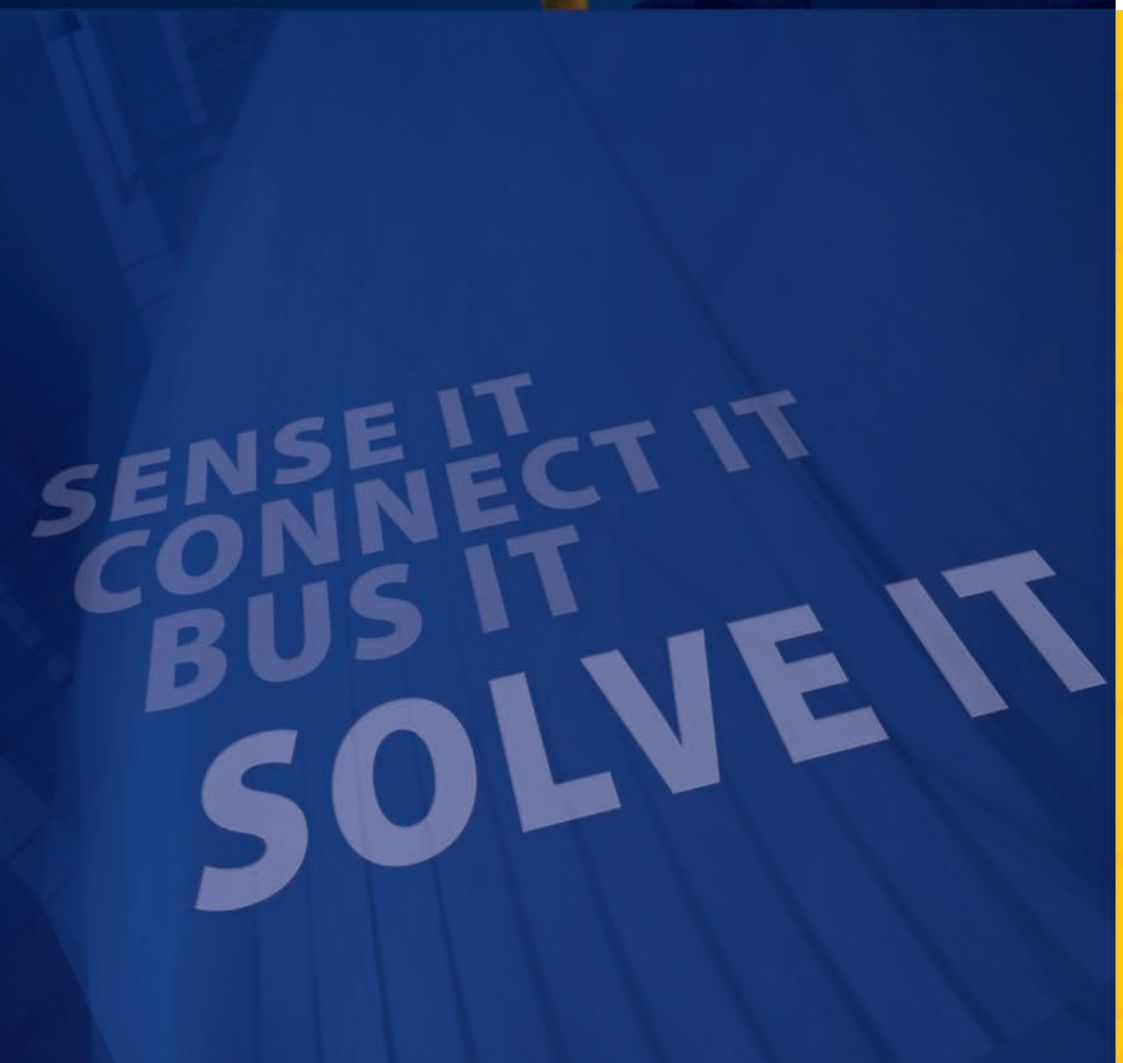
SENSORS

TURCK

Industrial Automation

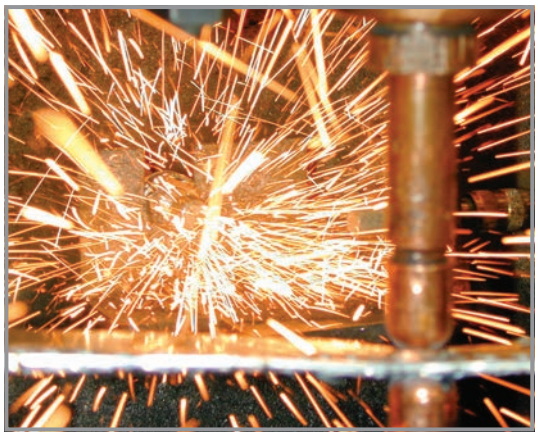
WELDING SOLUTIONS



www.turck.com

TURCK SOLUTIONS FOR WELDING ENVIRONMENTS

Proximity sensors in welding environments are damaged and destroyed for a variety of reasons including molten metal slag from MIG/TIG welding, and weld spatter from resistance (spot) welding. To help our customers increase productivity in weld cells, **TURCK** designed and tested specialty sensors and cordsets to withstand the high heat and rigors associated with this harsh environment.



Weld slag and spatter are not the only factors that can harm your sensors in these locations. Sensors are exposed to physical damage caused by either physical impact or abrasion from the target that is being sensed. Continuously exerting this kind of stress on a sensor will cause its internal electronics to fault and/or its exterior to break, leading to replacement.

TURCK's solution protects the sensor from impact and abrasion, extending its service life exponentially.

Common proximity sensors are non-contact, meaning they do not need to touch the actual target to sense it. However, in many applications the physical target inadvertently does touch the sensor. Friction between the target rubbing against the sensor can cause the sensing face to wear and eventually lead to sensor failure. **TURCK** has a solution for this too.

Above all, it is important to remember that every application is different, and no one solution will work to protect these components from every environmental hazard. **TURCK's** experienced engineers are eager to help you find the solution that is best for you. Simply call at 800-544-7769 and request to speak with an application engineer or visit www.turck.com to find which of our 2,500 sales people is nearest you.

TURCK SENSORS FOR WELDING ENVIRONMENTS

weldguard

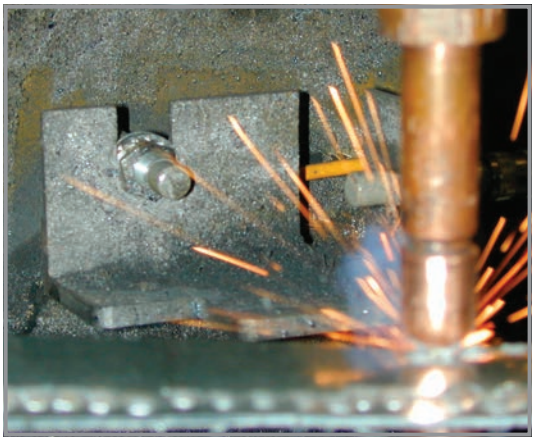
TURCK's *weldguard* sensors use a proprietary material on the sensing face that is:

- Independently tested to over 25,000 operations without failure
- Impervious to weld spatter that creates pitting, chipping and cracking caused by resistance welding
- Resistant to pitting, chipping and cracking caused by molten metal traveling at high velocity
- A superior replacement for any type of material used on a sensing face
- Able to withstand high heat

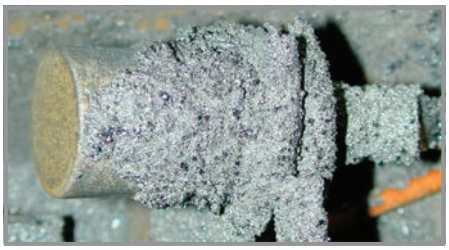
RESISTANCE WELDING

See page 16.

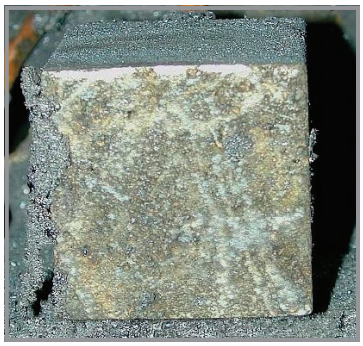
weldguard®



Over 25,000 operations without failure!



Competitors failed at less than 2,000 welds. TURCK ***weldguard*** lasted 34,256 welds.



Competitors failed between 449 and 1,869 welds. TURCK ***weldguard*** lasted 25,691 welds.

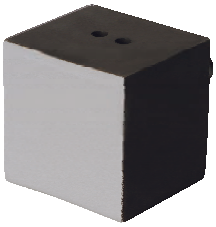
TURCK **Competition**

armorguard

TURCK's *armorguard* provides built-in durability that:

- Protects sensor face from impact
- Includes ***weldguard***® material on sensing face to resist weld slag
- Extends the life of the sensor dramatically
- Available in 8, 12, 18 or 30 mm barrel diameters, as well as cube style sensors

armorguard®



IMPACT

Also Protects Against:
Weld Slag and Abrasion

See page 66.

armorguard ACCESSORIES

- **TURCK's *armorguard*** sleeves are available as an accessory to the sensor to protect the sensing face from lateral impact when not in a direct weld environment.

IMPACT

See page 117.

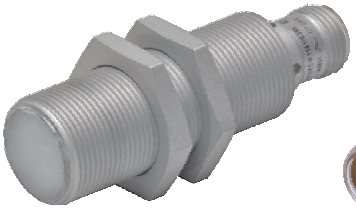
STAINLESS STEEL FRONT FACE

TURCK's heavy-duty stainless steel construction:

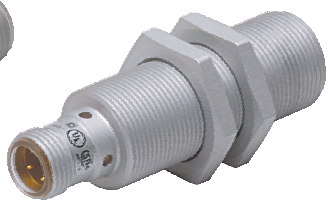
- Protects the barrel and internal electronics from damage due to impact
- Protects the sensing face from damage due to abrasion
- Available with PTFE or ***weldguard***® coating for protection against weld slag
- No areas of entry, preventing oils and lubricants from seeping into the sensor
- One piece stainless steel housing
- Ext range

IMPACT

Also Protects Against:
Abrasion



Stainless Steel ***weldguard***
with PTFE Coating

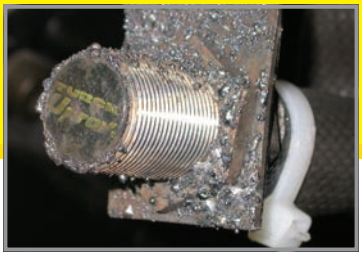


Stainless Steel with
PTFE Coating

IMPACT

Also Protects Against:
Weld Slag and Abrasion

Stainless Steel



stoneface

TURCK's *stoneface* sensors use a glass filled thermoset plastic material on the sensing face that:

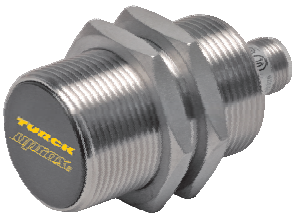
- Protects the sensing face from abrasion
- Is resistant to weld slag buildup that is often a result of MIG/TIG welding
- Is available with PTFE coated barrels to shed weld slag

stoneface®

MIG WELDING

Also Protects Against:
Weld Slag and Abrasion

See page 92.



SENSOR ACCESSORIES

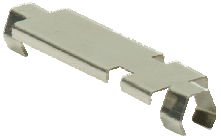
A variety of accessories are available to help protect sensors from weld spatter and physical damage.

- Cushion mount accessory protects sensor when used as an end stop
- PTFE and ceramic caps protect the sensor face from weld spatter

PTFE cover for CK40 style sensor.

PTFE and ceramic thread on covers for barrel sensors.

PTFE covers for ***QPak***



SST cover for Bim-unt

WELD SLAG

See pages 118-119.

IMPACT

See page 120.

Cushion Mount

TURCK INSTRUMENTATION KEEP QUALITY, CONTROL WELDS

FLOW MONITORS FOR WELD TIP PROTECTION

Flow monitors are used in the welding industry to detect the loss of coolant to weld tips, preventing damage to equipment.

Digital Readout Flow/Temperature Monitors

- Provides flow/no flow monitoring for water, water/glycol (0-70%) mixtures and Galden® (HT110 and HT135)
- Inline, non-intrusive design
- Available with flow and temperature switchpoints, analog or relay outputs

Probe Style Flow Monitors

- Self contained
- Fits standard plumbing tees
- Stainless steel construction
- Compact design allows mounting near weld tip

See page 122.

Inert Gas Flow Monitors

- Verify presence of Argon, Helium and other MIG welding gases
- Verify ventilation system is working in fume hoods

PRESSURE SENSORS FOR WELD CELL MONITORING

See page 129.

High Accuracy Pressure Sensors

- Hydraulic system monitoring
- Pneumatic system monitoring
- Material handling
- Vacuum and positive pressure ranges available

TURCK CONNECTIVITY
WELD SLAG PROTECTION

Depending on your application, you can choose from many different levels of protection. Plug body, coupling nuts, accessories and cable jacket are all components of the cordset that can be altered to provide weld slag protection.

PLUG BODY & COUPLING NUTS

See pages 145-146 (notelines).

TPE (Thermo-Plastic Elastomer) and PTFE Coating

- TPE used as mold material in cordset plug body
- Coupling nuts coated with PTFE
- Provide excellent resistance to weld-slag buildup

ACCESSORIES

Viton Coated Fiberglass Sleeving

- Slides over the quick disconnect area
- Prevents accumulation of weld slag, dust and grease

See page 153.

Expandable Silicone Sleeving

- Provides a 'heat shrink' like fit
- Protects cable, mold and coupling nut

See page 154.

Silicone Tubing

- Made of translucent rubber
- Assembled on cordsets end to end up to 4 meters!

See page 154.

Clear Weld Seal Tape

- Protects open areas between silicone tubing and mold body

Wrap Around Weld Shield Sleeving

- Provides excellent resistance in welding environment
- Used in wide operating temperature range
- Rugged fiberglass material with hook and loop closure

See page 155.

See page 156.

CABLE JACKET

CPE (Chlorinated Polyethylene) Jacket Over EPDM Rubber

- Excellent resistance to flame and temperature extremes
- Superior resistance to tears, cuts and abrasions
- ***flexlife*** rating of over 2 million cycles

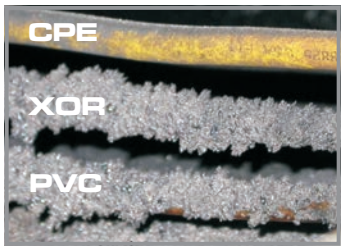
The cable jacket most commonly used in weld environments is CPE rubber.

TPE (Thermo-Plastic Elastomer)

- Excellent resistance to weld slag buildup
- Available in more configurations
- Allows for easier cable stripping
- ***flexlife*** rating of over 2 million cycles

If your environment doesn't need cable quite as rugged as the CPE rubber we also offer TPE jacket material, sometimes called TPR (Thermo-Plastic Rubber).

CPE - Resistance Welding



TURCK CPE cable still performing after 24,000 welds.

TPE - Resistance Welding

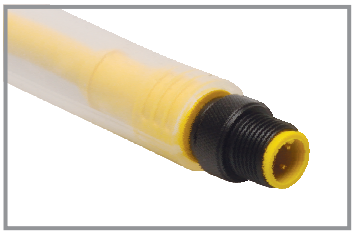
TURCK TPE cable still performing after 6,000 welds.

TPE - MIG Welding

TURCK TPE cable is excellent for MIG welding applications.

COMBINE ALL THREE FOR ULTIMATE PROTECTION

See pages 145-146 (notelines).



PTFE Coated Coupling Nut,
TPE Mold Plug Body and Silicone Tubing

ADDITIONAL SOLUTIONS

See page 148.

Has weld/mig slag 'fused' your sensor to the cordset coupling nut? Replace a short, armored "Sacrificial Cordset" instead of redressing 20' of tie wrapped cordset.

- Protects internal wires from extreme weld flash
- Provides mechanical protection
- Extreme duty plug body
- Quick replacement

TURCK WELDING TIPS

- Use PTFE coated threads and ***weldguard***® front faces to protect sensor surfaces wherever extreme accumulation of weld slag is common.
- Specialty tubing can be used to further protect a sensor and cordset from weld slag accumulation. Tubing that is resistant to both the accumulation of weld slag and high heat may be placed over the cordset and connector, fitting against the barrel end.

Weld Slag Cleaning/Removal

- Clean weld slag accumulation from PTFE coatings or covers using a gloved hand, if possible. Avoid cleaning PTFE with a tool or steel brush, as this can lead to slag accumulation quickly re-attaching to the areas worn by the tool or steel brush.
- Avoid cleaning surfaces coated with **TURCK's *weldguard*** material. The ***weldguard*** material sheds weld slag, and should not require regular cleaning.
- Stainless steel faced sensors will stand up to much more frequent and abusive wire brushing or other cleaning. However, if the sensors are coated in PTFE or weldguard, the coatings will suffer damage.

Sensor Abuse

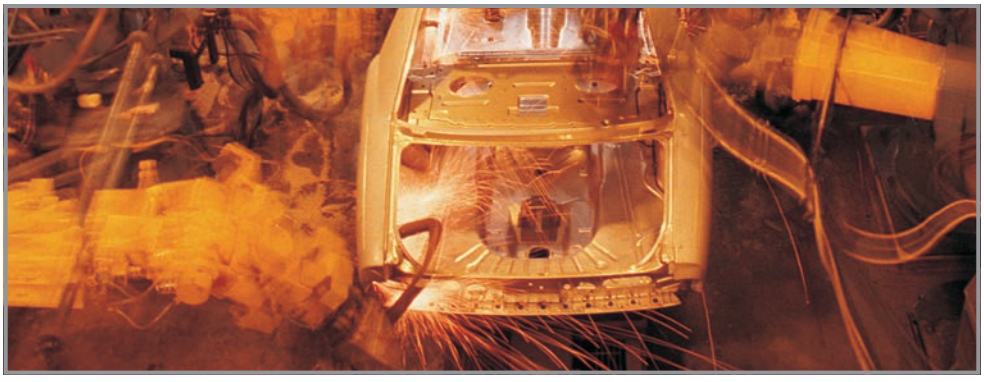
- If contact with the sensor is a "glancing" blow across the entire sensing face and/or threads or side, use the extremely durable armorguard tool steel protective products.
- If the abuse occurs in the center of the sensing face or due impact directly on the sensing face, use a stainless steel sensor.

40 mm Cubed Sensors

- Always remember a cubed sensor's face orientation before removal.
- When working with popular CA40 sensors with the metal BS 2.1 or BS 2.0 brackets, use a 5/32 socket instead of the 2.5mm Allen wrench. This allows for quicker and easier removal and reinstallation.

Cordsets

- Avoid cross threading and the occasional difficulty attaching cordsets to sensors by turning the cordset's coupling nut in reverse (counter-clockwise) for about a turn (adjust to personal preference), watching to hold it as straight as possible before turning in the clockwise direction to tighten.
- If LED visibility is a problem, use an extension cordset with LED's molded on the connector.



Industrial Automation

Sensor Accessories

Instrumentation

Connectivity

weldguard® Selection Guide 16-65

Style	BIM-UNR	Rectangular	Embeddable/Nonembeddable Metal Barrel				
Housing		30 mm	5 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range		2-50 mm	1-2 mm	1.5 - 4 mm	2 - 10 mm	5 - 14 mm	10 - 30 mm
Pages	17-20	21-26	33	27 - 36	37 - 46	47 - 58	59 - 64

armorguard® Selection Guide 66 - 81

Style	Rectangular	Embeddable/Nonembeddable Metal Barrel			
Housing	40 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range	20 mm	2 mm	3 - 4 mm	5 - 8 mm	10 - 15 mm
Pages	67-68	69-70	71-74	75-78	79-80

Special Designations Key:

.../S1589 Barrel sensors with ***weldguard***® laminate.

.../S1590 CA40 sensors with ***weldguard*** laminate.

.../S1591 CA40 sensors with ***weldguard*** laminate encased in ***armorguard***® sleeve.

.../S1610 8/12/18/30 mm PTFE or stainless steel barrel w/added 7 mm ***armorguard*** tool steel sleeve. Sensor then coated with ***weldguard***. Sensor can be ***uprox***® or ferrite core.

Stainless Steel Selection Guide 82-91

Style	Stainless Steel Front Face Barrel			
Housing	8 mm	12 mm	18 mm	30 mm
Sensing Range	3 mm	2 mm	5 mm	10 mm
Pages	83-84	85-86	87-88	89-90

stoneface® Selection Guide 92-111

Style	Embeddable Metal Barrel		
Housing	12 mm	18 mm	30 mm
Sensing Range	2 - 4 mm	5 - 8 mm	10 - 15 mm
Pages	93-100	101-106	107-110

Nut Detection Sensor Selection Guide 112-115

Style	Nut Sensor	
Housing	12 mm	
Nut Sizes	6-12 mm	10-20 mm
Pages	113-114	113-114

Sensor Accessories 116-121

Instrumentation Selection Guide 122 - 143




Style	Inline Flow Monitor	Self-Contained Monitor	Air Flow Monitor	Pressure Sensor	Accessories
Pages	123-124	125-126	125-126	129-140	141-143

Connectivity Selection Guide 144 - 157




Style	*eurofast*® Cordsets	*microfast*® Cordsets	*minifast*® Cordsets	Accessories
Pages	145-148	149	150-151	153 - 156

TURCK
General Specifications

2-Wire DC

Ripple	≤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	≤2% of Rated Operating Distance

3-Wire DC

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

2-Wire AC/DC w/Short-Circuit Protection

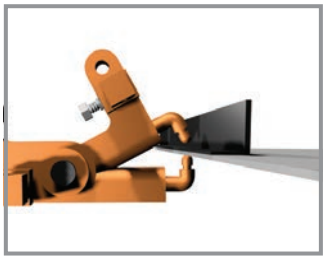
Line Frequency	40-60 Hz
Differential Travel (Hysteresis)	3-15% (5% Typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 400 mA 8 and 12 mm ≤6.0 V at 100 mA
Trigger Current for Overload Protection	AC: ≥440 mA; DC: ≥330 mA 8 and 12 mm AC: ≥120 mA; DC: ≥120 mA
Continuous Load Current	AC: ≤400 mA; DC: ≤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

Weldguard®

TURCK's *weldguard* sensors use a proprietary material on the sensing face that is:

- Independently tested to over 25,000 operations without failure
- Impervious to weld spatter that creates pitting, chipping and cracking caused by resistance welding
- Resistant to pitting, chipping and cracking caused by molten metal traveling at high velocity

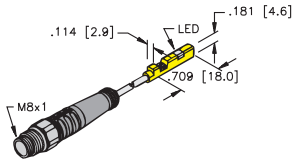
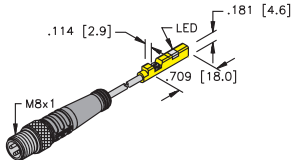
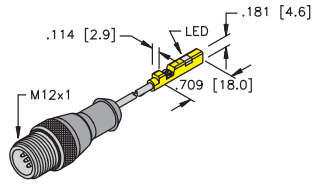
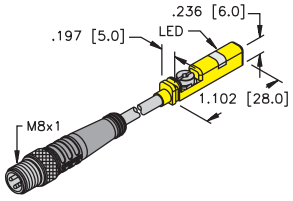
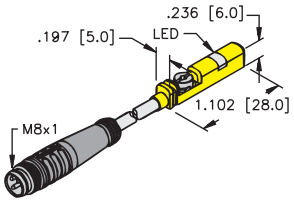
weld guard®



RESISTANCE WELDING

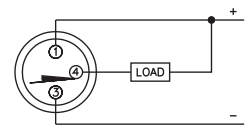
weldguard® Selection Guide 16-65

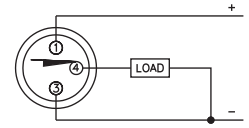
Style	BIM-UNR	Rectangular	Embeddable/Nonembeddable Metal Barrel				
Housing		30 mm	5 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range		2-50 mm	1-2 mm	1.5 - 4 mm	2 - 10 mm	5 - 14 mm	10 - 30 mm
Pages	17-20	21-26	33	27 - 36	37 - 46	47 - 58	59 - 64

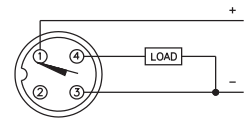
Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
UNR - *picofast*® Stainless Steel Connector 	BIM-UNR-AN6X-2M-PSGV 3M/S1819	S4685847-000		•		**3-Wire DC PNP**
UNR - *picofast*® Connector 	BIM-UNR-AP6X-0.3M-PSG 3M/S1764 W/M	S4685889		•		**3-Wire DC PNP**
	BIM-UNR-AP6X-0.5M-PSG 3M/S1768 W/M	S4685991		•		
	BIM-UNR-AP6X-0.3M-PSG 3M/S1778 W/M	S4685830-000		•		
UNR - *eurofast*® Connector 	BIM-UNR-AP6X-0.3M-RS 4T/S1778 W/M	S4685830-001		•		**3-Wire DC PNP**
UNT - *picofast*® Threaded Connector 	BIM-UNT-AN6X-1M-PSG 3M/S1764	S4685796				**3-Wire DC NPN**
	BIM-UNT-AN6X-2M-PSG 3M/S1764	S4685797				
	BIM-UNT-AP6X-0.3M-PSG 3M/S1764	S4688097		•		**3-Wire DC PNP**
	BIM-UNT-AP6X-0.5M-PSG 3M/S1764	S4685794				
	BIM-UNT-AP6X-0.3M-PSG 3M/S1765	S4685799				
UNT - *picofast*® Snap Connector 	BIM-UNT-AN6X-0.3M-PSG 3F/S1764	S4685862				**3-Wire DC NPN**
	BIM-UNT-AP6X-0.3M-PSG 3F/S1764	S4685784				**3-Wire DC PNP**

"/S1764" = Weldguard coated sensor with viton/fiberglass sleeving. Sleeve starts on sensor end, and covers all but 100mm of cable held in place by shrink tube.
"/S1765" = Weldguard coated sensor with 1/4" diameter Silicone tubing. Length of tubing is 200mm less than total cable length.
"/S1768" = 1/8" viton sleeving added to cable. Viton is pushed up over the back of sensor body, and covers entire cable length molded into backside of connector.
"/S1778" = KLTR-2 UNR (A9664) Support Bracket packaged together with any BIM-UNR sensor. Added mounting support for use in round groove cylinders.

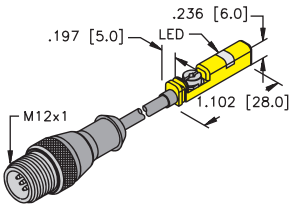
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	300	≤100	-25 to +70	IP67	PP	PP	NA	YE	PKGV 3M-*	1	Diagram 1
10-30 VDC	300	≤100	-25 to +70	IP67	WG	PP	NA	YE	PKG 3M-*/S1587	2	Diagram 2
	300	≤100	-25 to +70	IP67	PP	PP	NA	YE	PKG 3M-*/S1587	2	
	300	≤100	-25 to +70	IP67	PP	PP	NA	YE	PKG 3M-*/S1587	2	
10-30 VDC	300	≤100	-25 to +70	IP67	PP	PP	NA	YE	RK 4T-*/S1587	3	Diagram 3
10-30 VDC	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	1	
	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	1	
10-30 VDC	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	2	
	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	2	
	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	2	
10-30 VDC	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	1	
10-30 VDC	1000	≤200	-25 to +70	IP67	WG	PA12	NA	YE	PKG 3M-*/S1587	2	





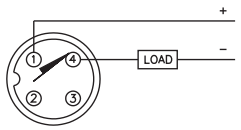


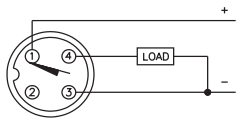
* Length in meters.

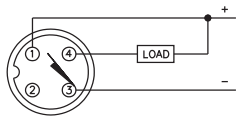
Housing Style	Part Number	ID Number	Feature	Magnetic Actuation Strength (Guass)	Output
UNT - *eurofast*® Connector 	BIM-UNT-AG41X-0.2M-RS 4.2T/S1139/S1160	S4685888	**See**	20-350	**2-Wire DC**
	BIM-UNT-AG41X-0.2M-RS 4.23T/S1139/S1160/S1764	S4688098	**Notes**	20-350	
	BIM-UNT-AG41X-0.5M-RS 4.23T/S1139/S1160/S1764	S4685766-000		20-350	
	BIM-UNT-AP6X-0.2M-RS 4T/S1764	S4685798	**See**	20-350	**3-Wire DC PNP**
	BIM-UNT-AP6X-0.5M-RS 4T/S1764	S4685793	**Notes**	20-350	
	BIM-UNT-AP6X-0.5M-RS 4T/S1765	S4685990		20-350	
	BIM-UNT-AN6X-0.2M-RS 4T/S1773	S4685786	**See** **Notes**	20-350	**3-Wire DC NPN**

"/S1139" = Cylinder Position Sensor with a wider travel, a.k.a. more range.
"/S1160" = Potted TPU cable for use in welding applications.
"/S1764" = Weldguard coated sensor with viton/fiberglass sleeving. Sleeve starts on sensor end, and covers all but 100mm of cable held in place by shrink tube.
"/S1765" = Weldguard coated sensor with 1/4" diameter Silicone tubing. Length of tubing is 200mm less than total cable length.
"/S1773" = Weldguard coated sensor with Firefast Viton sleeve and Silicone tubing covering the cable. Sleeve covers entire cable, molded into connector. Tubing covers entire cable from sensor end to coupling nut of connector.

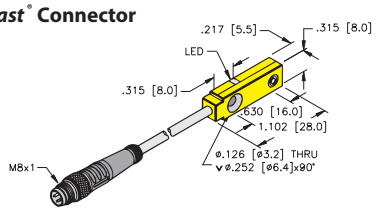
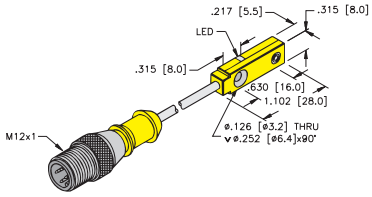
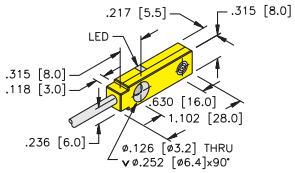
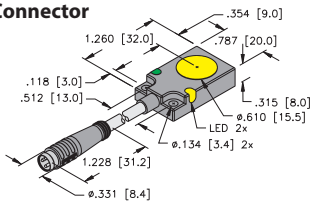
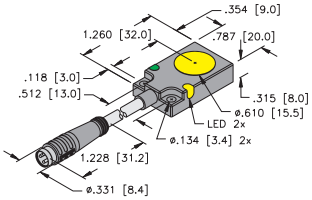
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-55 VDC	300	≤100	-25 to +70	IP67	PA12	PA12	NA	YE	RK 4.2T-*/S1587	1	Diagram 1
	300	≤100	-25 to +70	IP67	WG	WG	NA	YE	RK 4.23T-*/S1587	1	
	300	≤100	-25 to +70	IP67	WG	WG	NA	YE	RK 4.23T-*/S1587	1	
10-30 VDC	1000	≤150	-25 to +70	IP67	WG	WG	NA	YE	RK 4T-*/S1587	2	Diagram 2
	1000	≤150	-25 to +70	IP67	WG	WG	NA	YE	RK 4T-*/S1587	2	
	1000	≤150	-25 to +70	IP67	WG	WG	NA	YE	RK 4T-*/S1587	2	
10-30 VDC	1000	≤150	-25 to +70	IP67	WG	WG	NA	YE	RK 4T-*/S1587	3	Diagram 3





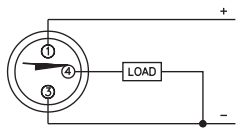


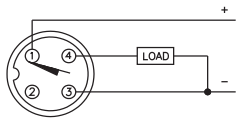
* Length in meters.

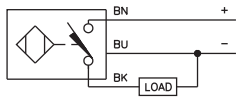
Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
5.5 mm - Embeddable, Potted-In Cable, *picofast*® Connector 	Bi 2-Q5.5-AP6X-0.5M-PSG 3M/S1764	S1613079		•	2	**3-Wire DC PNP**
5.5 mm - Embeddable, Potted-In Cable, *eurofast*® Connector 	Bi 2-Q5.5-AP6X-0.5M-RS 4T/S1764 Bi 2-Q5.5-AP6X-0.4M-RS 4T/S34/S1764	S1613000-001 S1613063		• •	2 2	**3-Wire DC PNP**
5.5 mm - Embeddable, Potted-In Cable 	Bi 2-Q5.5-AP6X/S1589	S1613057		•	2	**3-Wire DC PNP**
8.0 mm - Embeddable, Potted-In Cable, *picofast*® Connector 	Bi 7-Q08-AP6X2-0.5M-PSG 3M/S1764	S1601677		•	7	**3-Wire DC PNP**
8.0 mm - Embeddable, Potted-In Cable, *picofast*® Connector 	Bi 7-Q08-AP6X2-0.5M-PSG 3M/S1765	S1601678		•	7	**3-Wire DC PNP**

"/S1764" = Weldguard coated sensor with viton/fiberglass sleeving. Sleeve starts on sensor end, and covers all but 100mm of cable held in place by shrink tube.
"/S1765" = Weldguard coated sensor with 1/4" diameter Silicone tubing. Length of tubing is 200mm less than total cable length.

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	2000	≤150	-25 to +85	IP67	WG	WG	N/A	YE	PKG 3M-*/S1587	1	Diagram 1
10-30 VDC	2000	≤150	-25 to +85	IP67	WG	WG	N/A	YE	RK 4T-*/S1587	2	Diagram 2
	2000	≤150	-25 to +70	IP67	WG	WG	N/A	YE	RK 4T-*/S1587	2	
10-30 VDC	2000	≤150	-25 to +85	IP67	WG	WG	N/A	YE	2M PUR	3	Diagram 3
10-30 VDC	500	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	PKG 3M-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	PKG 3M-*/S1587	1	







* Length in meters.

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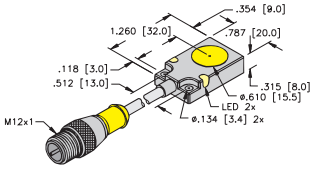
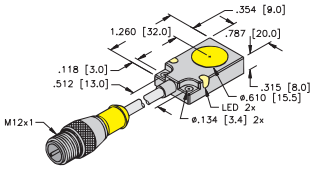
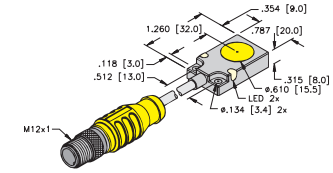
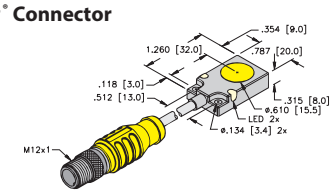
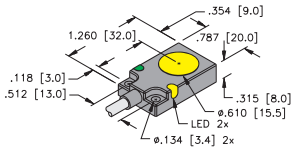
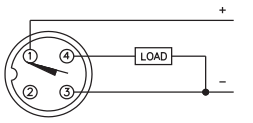
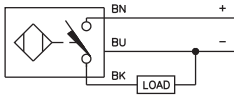
Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
8.0 mm - Embeddable, Potted-In Cable, *eurofast*® Connector 	Bi 5-Q08-AP6X2-0.3M-RS 4T/S34/S1764	S1600887		•	5	**3-Wire DC PNP**
	Bi 7-Q08-AP6X2-0.5M-RS 4T/S1764	S1601676		•	7	
	Bi 8U-Q08-AP6X2-1M-RS 4T/S1764	S1662089	***uprox***	•	8	
8.0 mm - Embeddable, Potted-In Cable, *eurofast*® Connector 	Bi 5-Q08-AP6X2-0.3M-RS 4T/S1765	S1600595		•	5	**3-Wire DC PNP**
	Bi 8U-Q08-AP6X2-0.5M-RS 4T/S1765	S1662087	***uprox***	•	8	
8.0 mm - Embeddable, Potted-In Cable, *eurofast*® Connector 	Bi 7-Q08-AP6X2-.5-RSE 4T-P7X2/S1764	S1601679		•	7	**3-Wire DC PNP**
8.0 mm - Embeddable, Potted-In Cable, *eurofast*® Connector 	Bi 7-Q08-AP6X2-0.5-RSE 4T-P7X2/S1765	S1601672		•	7	**3-Wire DC PNP**
8.0 mm - Embeddable, Potted-In Cable, *eurofast*® Connector 	Bi 8U-Q08-AP6X2/S1589	S1662090	***uprox***	•	8	**3-Wire DC PNP**

"/S1764" = Weldguard coated sensor with viton/fiberglass sleeving. Sleeve starts on sensor end, and covers all but 100mm of cable held in place by shrink tube.
"/S1765" = Weldguard coated sensor with 1/4" diameter Silicone tubing. Length of tubing is 200mm less than total cable length.

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	500	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	RK 4T-*/S1587	1	Diagram 1
	250	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	RK 4T-*/S1587	1	
	250	≤200	-25 to +70	IP68	Zinc	WG	GN	YE	RK 4T-*/S1587	1	
10-30 VDC	1000	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	RK 4T-*/S1587	1	Diagram 2
	250	≤200	-25 to +70	IP68	Zinc	WG	GN	YE	RK 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	RK 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	Zinc	WG	GN	YE	RK 4T-*/S1587	1	
10-30 VDC	250	≤200	-25 to +70	IP68	Zinc	WG	GN	YE	2M PUR	2	





* Length in meters.

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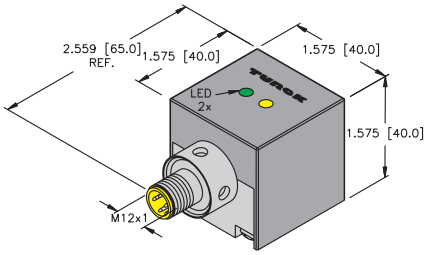
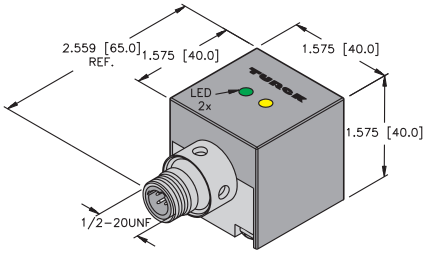
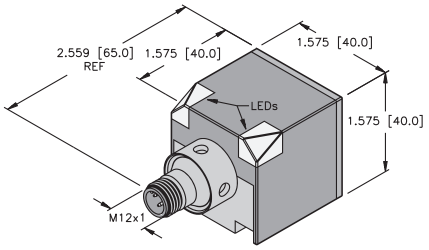
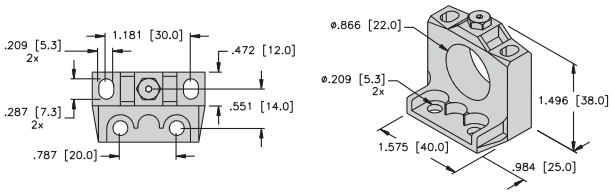
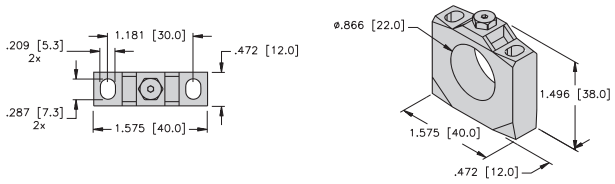
Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CA40 - Embeddable, *eurofast*® Connector 	Bi2OU-CA40-AP6X2-H1141/S1590 W/BS2.0	M1627297	***uprox***	•	20	**3-Wire DC PNP**
	Bi2OU-CA40-AP6X2-H1141/S1590 W/BS2.1	M1627295	***uprox***	•	20	
CA40 - Embeddable, *microfast*® Connector 	Bi2O-CA40-ADZ30X2-B3131/S34/S1590	M4283594	***WFI***	•	20	**2-Wire AC/DC**
CK40 - Embeddable/Nonmbeddable, *eurofast* Connector 	Bi3OU-CK40-AP6X2-H1141/S1590 W/BS4	M1625893	***uprox+***	•	30	**3-Wire DC PNP**
	Ni5OU-CK40-AP6X2-H1141/S1590 W/BS4	M1625891	***uprox+***		50	

"/S1590" = CA40 sensors with WELDGUARD laminate.



BS 2.1 Mounting Bracket



BS 2.0 Mounting Bracket

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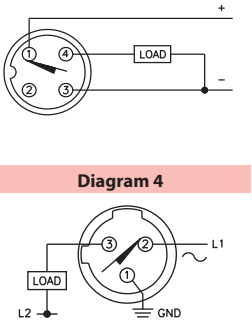
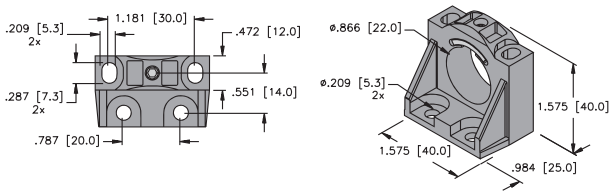
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	0 to +70	IP67	AL	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1
	250	≤200	0 to +70	IP67	AL	WG	GN	YE	RKC 4T-*/S1587	1	
10-300 VDC 20-250 VAC	20	≤400/300	-25 to +70	IP67	AL	WG	GN	YE	KBE 3T-*/S600	2	Diagram 4
10-30 VDC	250	≤200	-10 to +60	IP68	PBT	WG	GN	YE	RKC 4T-*/S1587	1	
	250	≤200	-25 to +70	IP68	PBT	WG	GN	YE	RKC 4T-*/S1587	1	



* Length in meters.



BS 4 Mounting Bracket

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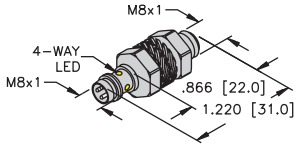
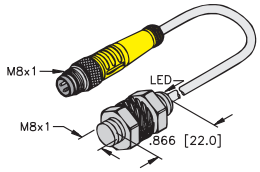
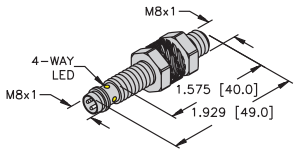
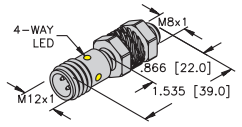
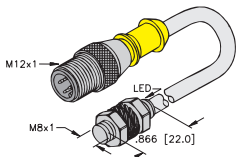
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, *picofast*® Quick Disconnect, Stainless Steel Short Length Barrel 	Bi 2-EG08K-AP6X-V1131/S1589	S46694003	***Short Barrel***	2	**3-Wire DC PNP**
8 mm - Embeddable, Miniature Threaded, *picofast*® Quick Disconnect, Stainless Steel Short Length Barrel 	BI 2-EGT08K-AP6X-0.5M-PSG 3M/S1765	S4602580	***Short Barrel***	2	**3-Wire DC PNP**
8 mm - Embeddable, Miniature Threaded, *picofast*® Quick Disconnect, Stainless Steel Barrel 	Bi 2-EG08-AN6X-V1131/S1589	S46021500		2	**3-Wire DC NPN**
	Bi 2-EG08-AP6X-V1131/S1589	S4602050-1		2	**3-Wire DC PNP**
	Bi 2-EGT08-AP6X-V1131/S100/S1589	S4602072		2	
	Bi 2U-EGT08-AP6X-V1131/S1589	S46020701	***uprox+***	2	
8 mm - Embeddable, Miniature Threaded, *eurofast*® Quick Disconnect, Stainless Steel Short Length Barrel 	Bi 2-EG08K-AG41X-H1341/S1589	S4562090	***Short Barrel***	2	**2-Wire DC**
	Bi 2-EGT08K-AG41X-H1341/S1589	S4602599	***Short Barrel***	2	
	Bi 2-EG08K-AN6X-H1341/S1589	S4669580	***Short Barrel***	2	**3-Wire DC NPN**
	Bi 2-EG08K-AP6X-H1341/S1589	S4669486	***Short Barrel***	2	**3-Wire DC PNP**
8 mm - Embeddable, Miniature Threaded, *eurofast*® Quick Disconnect, Stainless Steel Short Length Barrel 	Bi 2-EGT08K-AP6X-.5-RS4T/S100/S1765	S4602585	***Short Barrel***	2	**3-Wire DC PNP**
	Bi 2-EGT08K-AP6X-0.3M-RS 4T/S1764	S4602596	***Short Barrel***	2	

"/S1764" = Weldguard coated sensor with viton/fiberglass sleeving. Sleeve starts on sensor end, and covers all but 100mm of cable held in place by shrink tube.
"/S1765" = Weldguard coated sensor with 1/4" diameter Silicone tubing. Length of tubing is 200mm less than total cable length.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Output LED	Mating Cordset	Wiring Diagram #
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	YE	PKG 3M-*/S1587	1
10-30 VDC	1000	≤150	-25 to +70	IP67	SS/PTFE	WG	YE	PKG 3M-*/S1587	1
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	YE	PKG 3M-*/S1587	2
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	YE	PKG 3M-*/S1587	1
	1000	≤150	-25 to +100	IP68	SS/PTFE	WG	YE	PKG 3M-*/S1587	1
	1000	≤150	-30 to +85	IP68	SS/PTFE	WG	YE	PKG 3M-*/S1587	1
									1
10-55 VDC	1000	≤100	-25 to +70	IP67	SS	WG	YE	RK 4.2T-*/S1587	5
	1000	≤100	-25 to +70	IP67	SS/PTFE	WG	YE	RK 4.2T-*/S1587	5
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	YE	RK 4T-*/S1587	4
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	YE	RK 4T-*/S1587	3
10-30 VDC	1000	≤150	-25 to +100	IP67	PTFE	WG	YE	RK 4T-*/S1587	3
	1000	≤150	-25 to +70	IP67	PTFE	WG	YE	RK 4T-*/S1587	3

Wiring Diagrams

Diagram 1

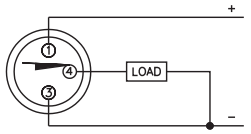


Diagram 2

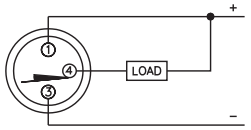


Diagram 3

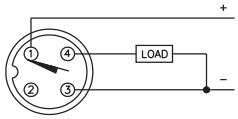


Diagram 4

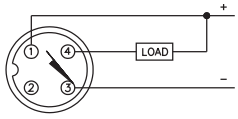
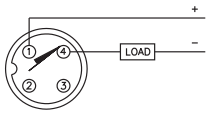
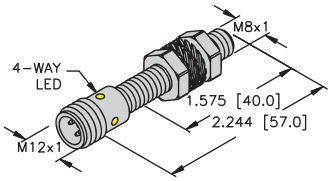
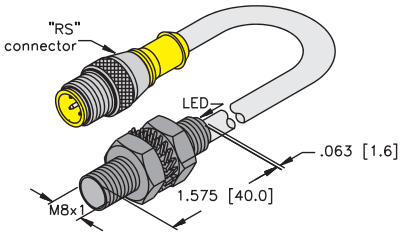


Diagram 5

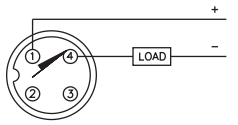


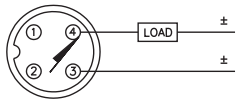
* Length in meters.

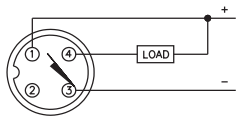
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Miniature Threaded, *eurofast* Quick Disconnect, Stainless Steel Barrel 	Bi 2-EG08-AG41X-H1341/S1589	S4562095		2	**2-Wire DC**
	Bi 1.5-EG08-AD6X-H1341/S1589	S4600298		1.5	**2-Wire DC**
	Bi 2-EG08-AN6X-H1341/S1589	S4602182		2	**3-Wire DC NPN**
	Bi 1.5U-EG08-AP6X-H1341/S1589	S4600540-1	***uprox***	1.5	**3-Wire DC PNP**
	Bi 2-EG08-AP6X-H1341/S1589	S4602086		2	
	Bi 2-EGT08-AP6X-H1341/S100/S1589	S4602079		2	
	Bi 2U-EG08-AP6X-H1341/S1589	S46020340	***uprox+***	2	
	Bi 2U-EGT08-AP6X-H1341/S1589	S46020702	***uprox+***	2	
8 mm - Embeddable, Miniature Threaded, Potted-In Cable with Molded *eurofast* Connector, PTFE Coated Barrel 	Bi 2-EGT08-AG41X-0.2M-RS4.23T/S1589	S4602593		2	**2-Wire DC**

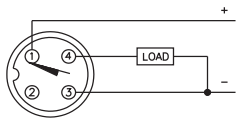
"/S1589" = Barrel sensors with Weldguard laminate coating

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-55 VDC	1000	≤100	-25 to +70	IP67	SS	WG	N/A	YE	RK 4.23T-*/S1587	1	Diagram 1
10-30 VDC	1000	≤100	-25 to +70	IP67	SS	WG	N/A	YE	RK 4.2T-*/S1587	2	
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	3	
10-30 VDC	2000	≤150	-30 to +85	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	4	Diagram 2
	3000	≤150	-25 to +70	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	4	
	3000	≤150	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4T-*/S1587	4	
	1000	≤150	-30 to +85	IP68	SS	WG	N/A	YE	RK 4T-*/S1587	4	
	1000	≤150	-30 to +85	IP68	PTFE	WG	N/A	YE	RK 4T-*/S1587	4	
10-55 VDC	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	1	Diagram 3
											Diagram 4



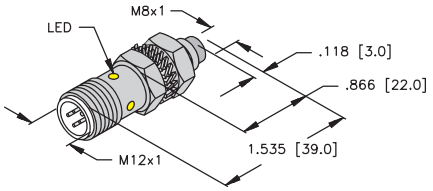
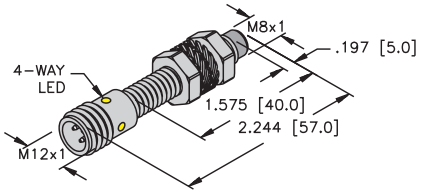






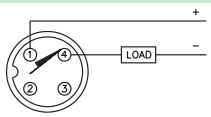
* Length in meters.

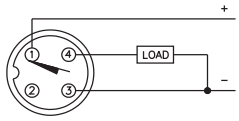
TURCK
weldguard Sensors

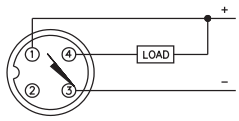
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded, *eurofast*® Quick Disconnect, Stainless Steel Short Length Barrel 	Ni 4-EG08K-AG41X-H1341/S1589	S4561090	***Short Barrel***	4	**2-Wire DC**
8 mm - Nonembeddable, Miniature Threaded, *eurofast* Quick Disconnect, Stainless Steel Barrel 	Ni 4-EG08-AG41X-H1341/S1589	S4561091		4	**2-Wire DC**
	Ni 3-EG08-AN6X-H1341/S1589	S4602889		3	**3-Wire DC NPN**
	Ni 3-EG08-AP6X-H1341/S1589	S4602799		3	**3-Wire DC PNP**
	Ni 4U-EG08-AP6X-H1341/S1589	S4600640-1	***uprox***	4	
	Ni 6U-EGT08-AP6X-H1341/S1589	S4635989	***uprox***	6	

"/S1589" = Barrel sensors with Weldguard laminate coating

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-55 VDC	1000	≤100	-25 to +70	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	1	Diagram 1
10-55 VDC	1000	≤100	-25 to +70	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	1	Diagram 2
10-30 VDC	3000	≤100	-25 to +70	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	3	Diagram 3
10-30 VDC	3000	≤100	-25 to +70	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	2	
	2000	≤100	-30 to +85	IP67	SS	WG	N/A	YE	RK 4T-*/S1587	2	
	1000	≤150	-25 to +70	IP68	PTFE	WG	N/A	YE	RK 4T-*/S1587	2	

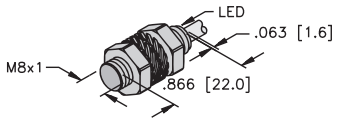
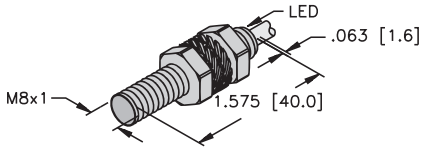
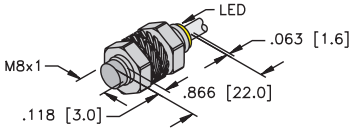
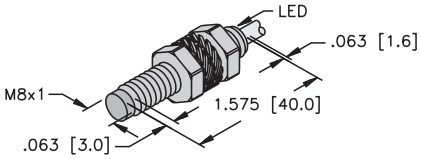






* Length in meters.

TURCK
weldguard Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
5 mm - Embeddable, Miniature Threaded Stainless Steel Barrel, Potted-In Cable 	Bi 1-EG05-AP6X/S1589	S4609790-1		1	**3-Wire DC PNP**
8 mm - Embeddable, Miniature Threaded Stainless Steel Barrel, Potted-In Cable 	Bi 2-EG08-AZ14X/S1589	S41000920		2	**2-Wire AC/DC**
8 mm - Embeddable, Miniature Threaded Stainless Steel Barrel, Potted-In Cable 	Bi 2-EG08K-AG41X/S1589	S4562091	***Short Barrel***	2	**2-Wire DC**
	Bi 2-EG08K-AN6X/S1589	S4669587	***Short Barrel***	2	**3-Wire DC NPN**
	Bi 2-EG08K-AP6X/S1589	S46694002	***Short Barrel***	2	**3-Wire DC PNP**
	Bi 2-EGT08K-AP6X/S1589	S46025413			
8 mm - Embeddable, Miniature Threaded Stainless Steel Short Length Barrel, Potted-In Cable 	Bi 2-EG08-AG41X/S1589	S4562088		2	**2-Wire DC**
	Bi 2-EGT08-AG41X/S1589	S46020003	**PTFE Coated**	2	
	Bi 2-EG08-AN6X/S1589	S4602181		2	**3-Wire DC NPN**
	Bi 1.5-EGT08-AP6/S100/S1589	S46022562	***High Temp.***	1.5	**3-Wire DC PNP**
	Bi 2-EG08-AP6X/S1589	S4602085		2	
	Bi 2-EG08-AP6X/S1610	S4602086-1		2	
	Bi 2-EGT08-AP6X/S100/S1589	S4602269	***High Temp.***	2	

"/S1589" = Barrel sensors with Weldguard laminate coating

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 #
10-30 VDC	3000	≤100	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	4
20-132 VAC 10-140 VDC	20	≤100	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	2
10-55 VDC	1000	≤100	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	1
10-30 VDC	3000	≤150	-25 to +100	IP67	SS	WG	TROG	N/A	YE	2M/PUR	3
10-30 VDC	1000	≤100	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	4
	1000	≤100	-25 to +70	IP67	PTFE	WG	TROG	N/A	YE	2M/PUR	4
10-55 VDC	1000	≤100	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	1
	1000	≤100	-25 to +70	IP67	PTFE	WG	TROG	N/A	YE	2M/PUR	1
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	2
10-30 VDC	3000	≤150	-25 to +100	IP67	PTFE	WG	TROG	N/A	YE	2M/PUR	4
	3000	≤150	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	4
	3000	≤150	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	4
	1000	≤150	-25 to +100	IP67	PTFE	WG	TROG	N/A	YE	2M/PUR	4

Wiring Diagrams

Diagram 1

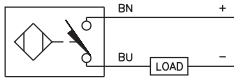


Diagram 2

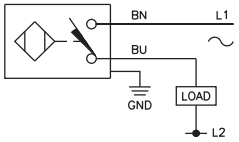


Diagram 3

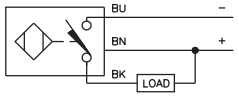
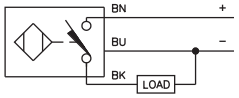
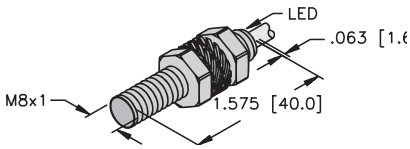


Diagram 4

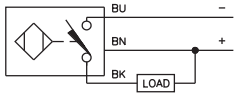
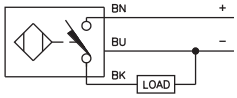


* Length in meters.

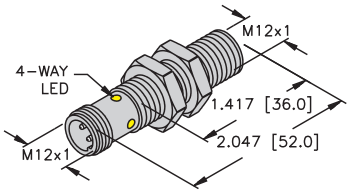
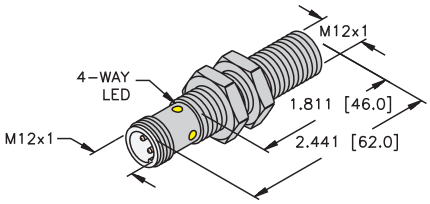
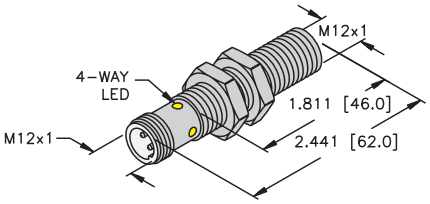
TURCK
weldguard Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Nonembeddable, Miniature Threaded Stainless Steel Barrel, Potted-In Cable 	Ni 3-EG08-AN6X/S1589	S4602888		3	**3-Wire DC NPN**
	Ni 3-EG08-AP6X/S1589	S4602789		3	**3-Wire DC PNP**

"/S1589" = Barrel sensors with Weldguard laminate coating

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	IP67	SS	WG	TROG	N/A	YE	2M/PUR	1	Diagram 1 
10-30 VDC	3000	≤150	-25 to +70	IP67	SS	WG	TROG	N/A	YE	2M/PUR	2	Diagram 2 

* Length in meters.

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *eurofast*® Connection, PTFE Coated Barrel 	Bi 3-MT12-AD4X-H1141/S1589	T4405082		3	**2-Wire DC**
	Bi 3-MT12-AD4X-H1144/S1589	T4405084		3	
	Bi 4-MT12-AN6X-H1141/S1589	T4607188	***Ext. Range***	4	**3-Wire DC NPN**
	Bi 4U-MT12-AN6X-H1141/S1589	M16348290	***uprox+***	4	
	Bi 3U-MT12-AP6X-H1141/S1589	M16342121	***uprox***	3	**3-Wire DC PNP**
	Bi 3U-MT12-AP6X2-H1141/S1589	M1634293	***uprox***	3	
	Bi 4-MT12-AP6X-H1141/S1589	T4607099	***Ext. Range***	4	
	Bi 4U-EM12-AP6X-H1141/S1589	M1634897-1	***uprox+***	4	
	Bi 4U-MT12-AP6X-H1141/S1589	M1634997	***uprox+***	4	
12 mm - Embeddable, *eurofast* Connection, Extended Barrel Length, Stainless Steel Barrel 	Bi 3U-EM12E-AN6X2-H1141/S1589	M1634397	***uprox***	3	**3-Wire DC NPN**
	Bi 4-EM12E-AN6X-H1141/S1589	T4607185	***Ext. Range***	4	
	Bi 3U-EM12E-AP6X2-H1141/S1589	M1634398	***uprox***	3	**3-Wire DC PNP**
	Bi 4-EM12E-AP6X-H1141/S1589	T4607184	***Ext. Range***	4	
12 mm - Embeddable, *eurofast* Connection, Extended Barrel Length, PTFE Coated Barrel 	Bi 3-MT12E-AD4X-H1141/S1589	T4405086		3	**2-Wire DC**
	Bi 3-MT12E-AD4X-H1144/S1589	T4405087		3	
	Bi 3U-MT12E-AN6X2-H1141/S1589	M1634290	***uprox***	3	**3-Wire DC NPN**
	Bi 4-MT12E-AN6X-H1141/S1589	T4607187	***Ext. Range***	4	
	Bi 3U-MT12E-AP6X2-H1141/S1589	M1634291	***uprox***	3	**3-Wire DC PNP**
	Bi 4-MT12E-AP6X-H1141/S1589	T4608094	***Ext. Range***	4	
	Bi 4U-MT12E-AP6X2-H1141/S1589	M1644797	***uprox***	4	

"/S1589" = Barrel sensors with Weldguard laminate coating

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.2T-*/S1587	2
	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	3
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	4
	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	4
10-30 VDC	3000	≤200	-30 to +85	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1
	3000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1
	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1
	2000	≤200	-30 to +85	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	1
	2000	≤200	-30 to +85	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1
10-30 VDC	3000	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	4
	2000	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	4
10-30 VDC	1000	≤200	-30 to +85	IP68	SS	WG	N/A	YE	RKC 4T-*/S1587	1
	1000	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	1
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.2T-*/S1587	2
	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	3
10-30 VDC	3000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	4
	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	4
10-30 VDC	3000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1
	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1
	2000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	1

Wiring Diagrams

Diagram 1

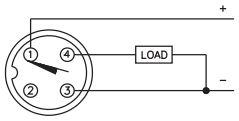


Diagram 2

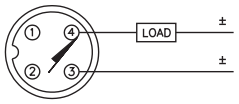


Diagram 3

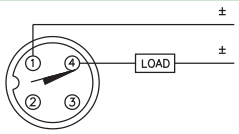
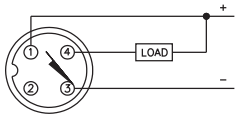


Diagram 4



* Length in meters.

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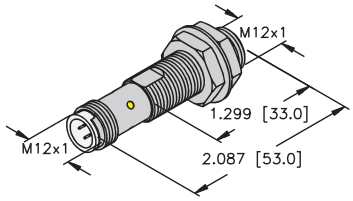
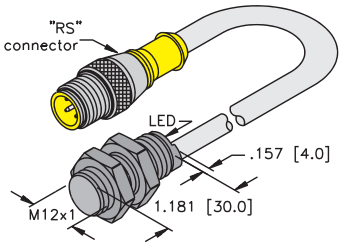
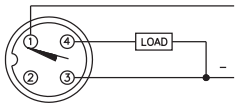
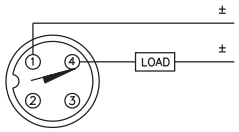
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, *eurofast* Connection Fully Threaded Stainless Steel Barrel 	Bi 2-EG12F-AP6X-H1141/S1589	M4614696		2	**3-Wire DC PNP**
12 mm - Embeddable, Potted-In Cable with Molded *eurofast*® Connector, Short Length PTFE Coated Barrel 	Bi 3-GT12K-AD4X-0.2M-RS4.23T/S1589	T4405088-1	**See Notes**	3	**2-Wire DC**
	Bi 3-GT12K-AD4X-0.5M-RS 4.23T/S1765	T4405072		3	

Notes:
"/S1589" = Barrel sensors with Weldguard laminate coating
"/S1765" = Weldguard coated sensor with 1/4" diameter Silicone tubing. Length of tubing is 200mm less than total cable length.
"/S1589" = Barrel sensors with Weldguard laminate coating

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	100	≤200	-25 to +70	IP68/IP69k	SS	SS	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	2	Diagram 2
	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	2	





* Length in meters.

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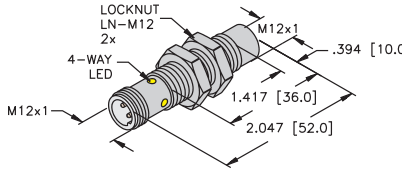
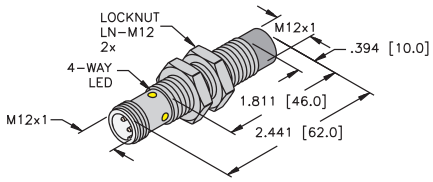
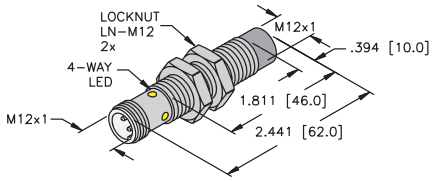
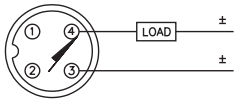
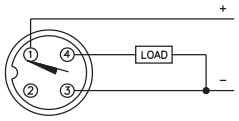
weldguard Sensors

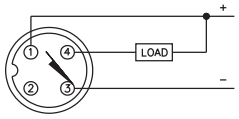
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, *eurofast*® Connection, PTFE Coated Barrel 	Ni 8-MT12-AD4X-H1141/S1589	T4411291		8	**2-Wire DC**
	Ni10U-MT12-AP6X-H1141/S1589	M1634810-1	***uprox+***	10	**3-Wire DC PNP**
	Ni 8U-MT12-AP6X2-H1141/S1589	M1644292	***uprox***	8	
12 mm - Nonembeddable, *eurofast* Connection Extended Length Stainless Steel Barrel 	Ni 8-EM12E-AN6X-H1141/S1589	T4611395	***Ext. Range***	8	**3-Wire DC NPN**
	Ni 8U-EM12E-AN6X2-H1141/S1589	M1644391	***uprox***	8	
	Ni 8-EM12E-AP6X-H1141/S1589	T4611396	***Ext. Range***	8	**3-Wire DC PNP**
	Ni 8U-EM12E-AP6X2-H1141/S1589	M1644392	***uprox***	8	
12 mm - Nonembeddable, *eurofast* Connection Extended Length PTFE Coated Barrel 	Ni 8-MT12E-AN6X-H1141/S1589	T4611397	***Ext. Range***	8	**3-Wire DC NPN**
	Ni 8U-MT12E-AN6X2-H1141/S1589	M1644248	***uprox***	8	
	Ni 8-MT12E-AP6X-H1141/S1589	T4611398	***Ext. Range***	8	**3-Wire DC PNP**
	Ni 8U-MT12E-AP6X2-H1141/S1589	M1644299	***uprox***	8	
	Ni10U-MT12E-AP6X2-H1141/S1589	M1634994	***uprox+***	10	

"/S1589" = Barrel sensors with Weldguard laminate coating

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	IP67	PTFE	WG	N/A	YE	RKC 4.2T-*/S1587	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +75	IP68	PTFE	WG	N/A	TE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	3	Diagram 2
	2000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 3
	2000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	3	
	2000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
	1000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	







* Length in meters.

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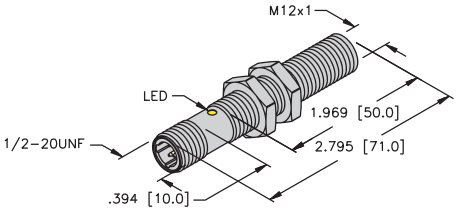
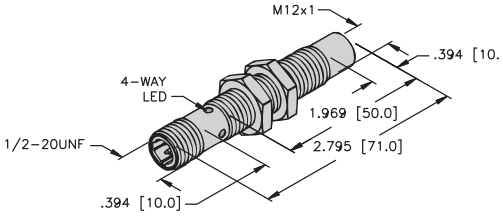
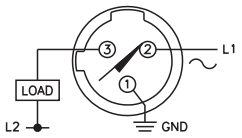
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *microfast*® Connection, PTFE Coated Barrel 	Bi 2-GT12-ADZ32X-B3131/S34/S1589	T4205096	*WFI*	2	**2-Wire AC/DC Short-Circuit Protected**
	Bi 4-GT12-ADZ32X-B3131/S1589	T4205087		4	
12 mm - Nonembeddable, *microfast* Connection, PTFE Coated Barrel 	Ni 4-GT12-ADZ32X-B3131/S34/S1589	T4205293	*WFI*	4	**2-Wire AC/DC Short-Circuit Protected**
	Ni 8-GT12-ADZ32X-B3131/S1589	T4205480-1		8	

"/S1589" = Barrel sensors with Weldguard laminate coating

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	IP67	PTFE	WG	N/A	YE	KBE 3T-*/S600	4	Diagram 4
	20	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	KBE 3T-*/S600	4	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	KBE 3T-*/S600	4	
	20	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	KBE 3T-*/S600	4	



* Length in meters.

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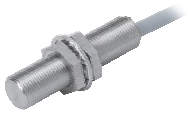
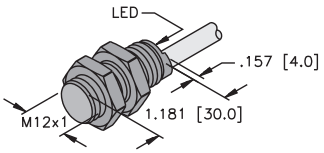
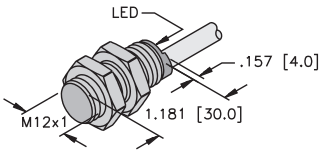
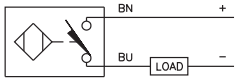
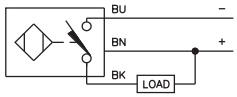


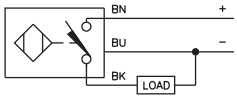
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable, Short Length PTFE Coated Barrel 	Bi 3-GT12K-AD4X/S1589	T4405084-1	***Short Barrel***	3	**2-Wire DC**
12 mm - Embeddable, Potted-In Cable, Short Length Stainless Steel Barrel 	Bi 2-EG12K-AN6X/S1589	T4605192	***Short Barrel***	2	**3-Wire DC NPN**
	Bi 4-G12K-AP6X/S1589	T46702500	***Short Barrel***	4	**3-Wire DC PNP**

"/S1589" = Barrel sensors with Weldguard laminate coating.
"/S1610" = 8/12/18/30mm PTFE or stainless steel barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

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	IP67	PTFE	WG	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-30 VDC	2000	≤100	-25 to +70	IP67	SS	WG	EPTR	N/A	YE	2M/PVC	2	Diagram 2
10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	WG	EPTR	N/A	YE	2M/PVC	3	Diagram 3







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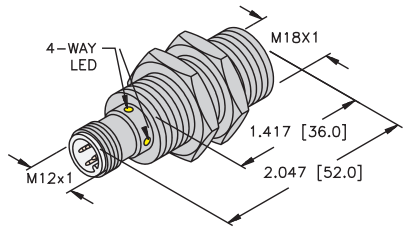
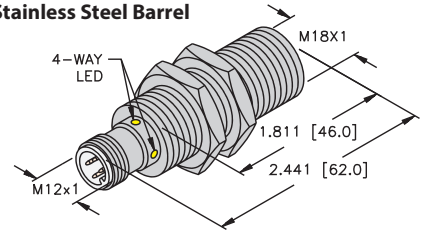
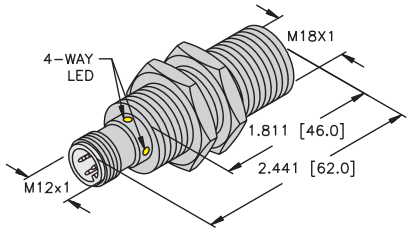
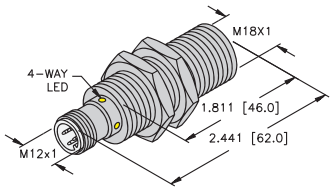
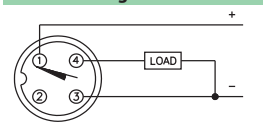
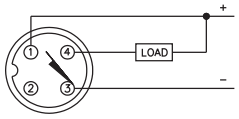
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 5U-MT18-AP6X2-H1141/S1589	M1635292	***uprox***	5	**3-Wire DC PNP**
	Bi 5U-MT18-AP6X-H1141/S1589	M1635294	***uprox***	5	
	Bi 8U-MT18-AP6X-H1141/S1589	M1644791	***uprox+***	8	
	Bi 8-EMT18-AP6X-H1141/S1589	T461509410		8	
	Bi 8-EM18-AP6X2-H1141/S1589	T4615099	***Ext. Range***	8	
	Bi 8U-MT18-AN6X-H1141/S1589	M1644789	***uprox+***	8	**3-Wire DC NPN**
18 mm - Embeddable, *eurofast* Connection, Stainless Steel Barrel 	Bi 5U-EM18-AN6X2-H1141/S395/S1589	M1635196	***uprox***	5	**3-Wire DC NPN**
	Bi 5U-EM18-AP6X2-H1141/S395/S1589	M1635197	***uprox***	5	**3-Wire DC PNP**
18 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 5U-MT18-AN6X2-H1141/S395/S1589	M1635290	***uprox***	5	**3-Wire DC NPN**
	Bi 5U-MT18-AP6X2-H1141/S395/S1589	M1635291	***uprox***	5	**3-Wire DC PNP**
18 mm - Embeddable, *eurofast* Connection, Medium Length PTFE Coated Barrel 	Bi 8U-EM18M-AP6X2-H1141/S1589	M1644771	***uprox***	8	**3-Wire DC PNP**
	Bi 8U-MT18M-AP6X2-H1141/S1589	M16447411	***uprox***	8	

"/S1589" = Barrel sensors with Weldguard laminate coating.
"/S1610" = 8/12/18/30mm PTFE or stainless steel barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

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	2500	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1
	2500	≤200	-30 to +85	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	
	1500	≤200	-30 to +85	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	
	500	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	
	500	≤200	-25 to +70	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	1500	≤200	-30 to +85	IP68	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
10-30 VDC	2500	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2500	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2500	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	1	
	2500	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	





* Length in meters.

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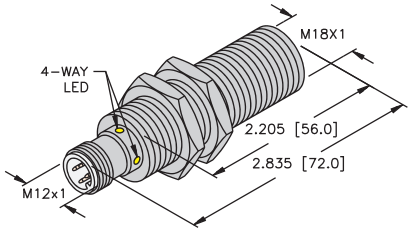
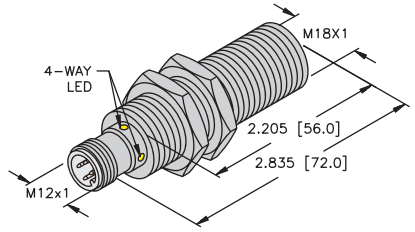
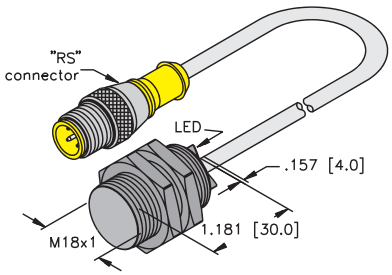
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *eurofast*® Connection, Extended Length Stainless Steel Barrel 	Bi 8-EM18E-AN6X-H1141/S1589	T4615193	***Ext. Range***	8	**3-Wire DC NPN**
	Bi 8-EM18E-AP6X-H1141/S1589	T4615096	***Ext. Range***	8	**3-Wire DC**
	Bi 5-MT18E-AP6X-H1141/S100/S1589	T4652470	**High Temp.**	5	
18 mm - Embeddable, *eurofast* Connection, Extended Length PTFE Coated Barrel 	Bi 7-MT18E-AD4X-H1141/S1589	T4414588		7	**2-Wire DC**
	Bi 7-MT18E-AD4X-H1144/S1589	T4414599		7	
18 mm - Embeddable, Potted-In Cable with *eurofast* Connector, Short Length PTFE Coated Barrel 	Bi 7-GT18K-AD4X-0.2M-RS4.23T/S1589	T4414592-1	***Short Barrel***	7	**2-Wire DC**

"/S1589" = Barrel sensors with Weldguard laminate coating.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-30 VDC	500	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	500	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	4
	500	≤200	-25 to +100	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	4
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.2T-*/S1587	1
	1000	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	2
10-65 VDC	500	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	2

Wiring Diagrams

Diagram 1

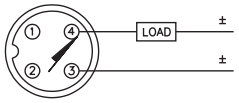


Diagram 2

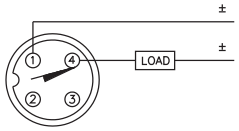


Diagram 3

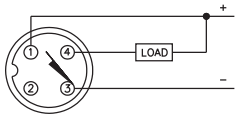
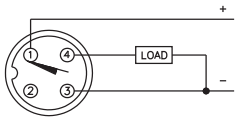


Diagram 4



* Length in meters.

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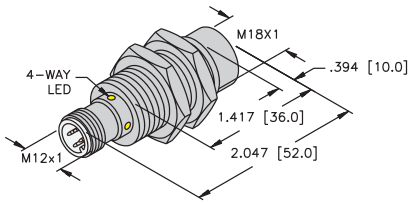
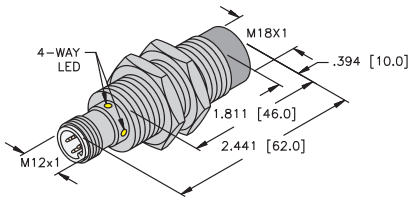
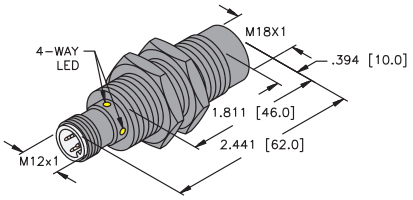
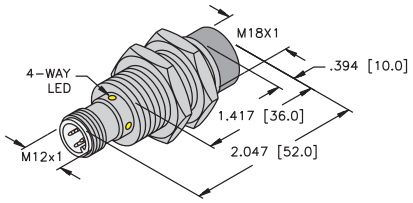
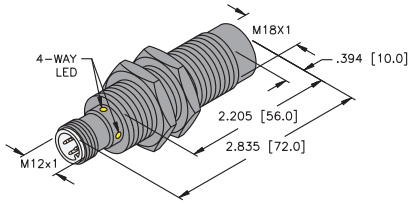
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, *eurofast*® Connection, PTFE Coated Barrel 	Ni12U-MT18-AP6X-H1141/S1589	M1645292	***uprox***	12	**3-Wire DC PNP**
	Ni12U-MT18-AP6X2-H1141/S1589	M1645293	***uprox***	12	
	Ni15U-MT18-AP6X-H1141/S1589	M1635333-1	***uprox+***	15	
18 mm - Nonembeddable, *eurofast* Connection, Stainless Steel Barrel 	Ni12U-EM18-AP6X2-H1141/S395/S1589	M1645490	***uprox***	12	**3-Wire DC PNP**
	Ni12U-EM18-AN6X2-H1141/S395/S1589	M1645491	***uprox***	12	**3-Wire DC NPN**
18 mm - Nonembeddable, *eurofast* Connection, PTFE Coated Barrel 	Ni12U-MT18-AN6X2-H1141/S395/S1589	M1645290	***uprox***	12	**3-Wire DC NPN**
	Ni12U-MT18-AP6X2-H1141/S395/S1589	M1645291	***uprox***	12	**3-Wire DC PNP**
	Ni15U-MT18M-AP6X2-H1141/S1589	M16352920	***uprox***	15	
18 mm - Nonembeddable, *eurofast* Connection, Stainless Steel Barrel 	Ni14-EM18-AN6X-H1141/S1589	T4611494	***Ext. Range***	14	**3-Wire DC NPN**
	Ni14-EM18-AP6X-H1141/S1589	T4611495	***Ext. Range***	14	**3-Wire DC PNP**
18 mm - Nonembeddable, *eurofast* Connection, PTFE Coated Barrel 	Ni14-MT18E-AN6X-H1141/S1589	T4611496	***Ext. Range***	14	**3-Wire DC NPN**
	Ni14-MT18E-AP6X-H1141/S1589	T4611497	***Ext. Range***	14	**3-Wire DC PNP**

"/S1589" = Barrel sensors with Weldguard laminate coating

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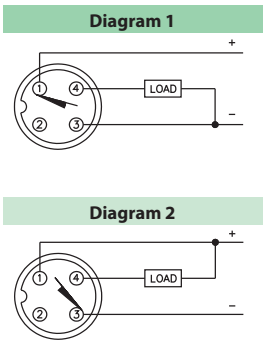
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-30 to +85	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	2000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
	1000	≤200	-30 to +85	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-30 to +85	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
10-30 VDC	2000	≤200	-30 to +85	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
	1000	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	1000	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	1000	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	



* Length in meters.

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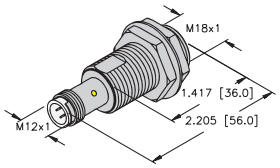
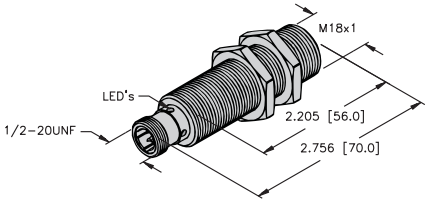
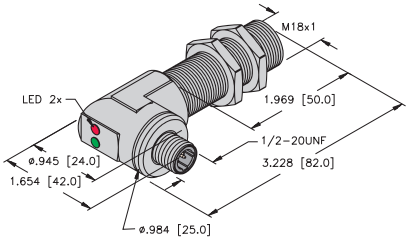
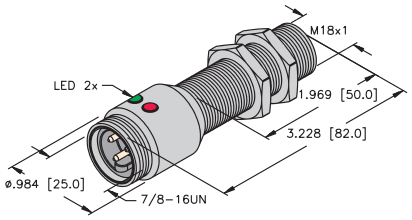
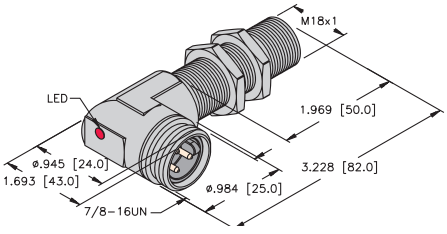
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *eurofast*® Connection, Stainless Steel Barrel 	Bi 5-EG18F-AP6X-H1141/S1589	M4614674		5	**3-Wire DC PNP**
18 mm - Embeddable, *microfast*® Connection, PTFE Coated Barrel 	Bi 5-GT18-ADZ30X2-B3331/S34/S1589	T4255283	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**
18 mm - Embeddable, *microfast* Right Angle Connection, PTFE Coated Barrel 	Bi 5-GT18-ADZ30X2-B3431/S34/S1589	T425582	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**
18 mm - Embeddable, *minifast*® Connection PTFE Coated Barrel 	Bi 5-GT18-ADZ30X2-B1331/S34/S1589	T4255284	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**
18 mm - Embeddable, *minifast* Right Angle Connection, PTFE Coated Barrel 	Bi 5-GT18-ADZ30X2-B1431/S34/S1589	T45255285	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**

"/S1589" = Barrel sensors with Weldguard laminate coating

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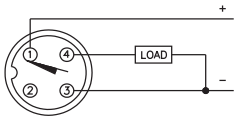
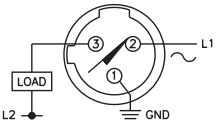
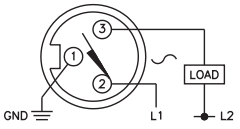
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	100	≤200	-25 to +70	IP68/69k	SS	SS	N/A	YE	RKC 4T-*/S1587	3	Diagram 1
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	KBE 3T-*/S600	2	Diagram 2
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	KBE 3T-*/S600	2	Diagram 3
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	RKM 311-*M/S600	3	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	RKM 311-*M/S600	3	







* Length in meters.

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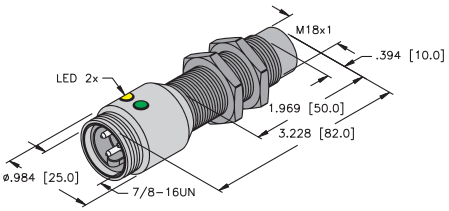
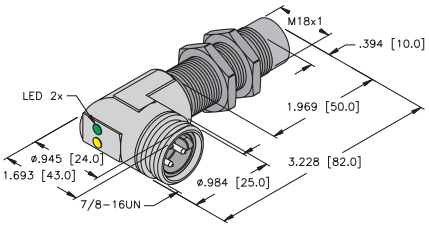
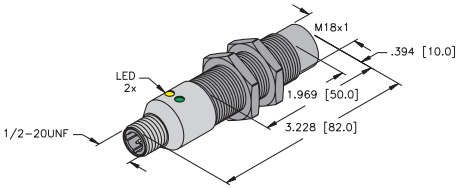
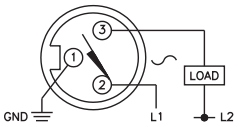
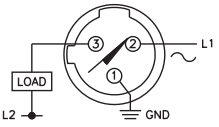
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, *minifast*® Connection, PTFE Coated Barrel 	Ni 5-GT18-ADZ30X2-B1331/S34/S1589	T4208890	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**
	Ni 5-GT18-ADZ30X2-B1331/S1589	T4205484		5	
18 mm - Nonembeddable, *minifast* Right Angle Connection, PTFE Coated Barrel 	Ni 5-GT18-ADZ30X2-B1431/S34/S1589	T4208990	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**
18 mm - Nonembeddable, *microfast*® Connection, PTFE Coated Barrel 	Ni 8-GT18-ADZ30X2-B3331/S34/S1589	T4208891	***WFI***	8	**2-Wire AC/DC Short-Circuit Protected**
	Ni 14-GT18-ADZ30X2-B3331/S1589	T4205491		14	

"/S1589" = Barrel sensors with Weldguard laminate coating.

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	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	RKM 311-*M/S600	1	Diagram 1  Diagram 2 
	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	RKM 311-*M/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	RKM 311-*M/S600	1	
20-250 VAC 10-300 VDC	60	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	KBE 3T-*/S600	2	
	60	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	KBE 3T-*/S600	2	

* Length in meters.

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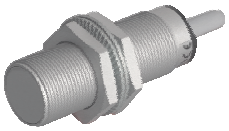
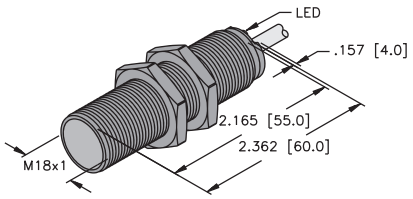
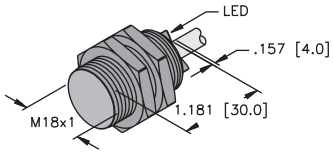
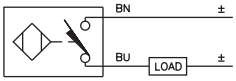
weldguard Sensors



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Potted-In Cable, Extended Barrel Length, Partial Threading PTFE Coated Barrel 	Bi 7-MT18E-AD4X/S1589	T4414583		7	**2-Wire DC**
18 mm - Embeddable, Potted-In Cable, Short Barrel Length, Full Threading PTFE Coated Barrel 	Bi 7-GT18K-AD4X/S1589	T4414581	***Short Barrel***	7	**2-Wire DC**

"/S1589" = Barrel sensors with Weldguard laminate coating.

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 Diagram
10-65 VDC	1000	≤200	-25 to +70	IP67	PTFE	WG	EPTR	N/A	YE	2M/PVC	1	**Diagram 1** 
10-65 VDC	500	≤100	-25 to +70	IP67	PTFE	WG	EPTR	N/A	YE	2M/PVC	1	

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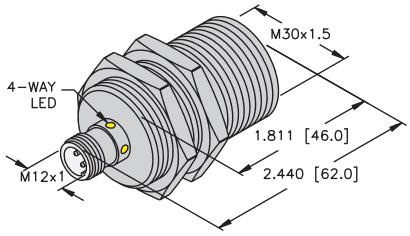
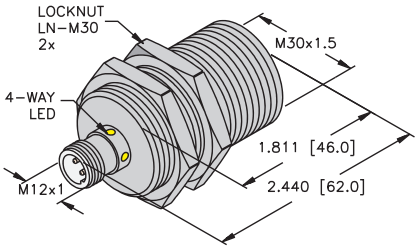
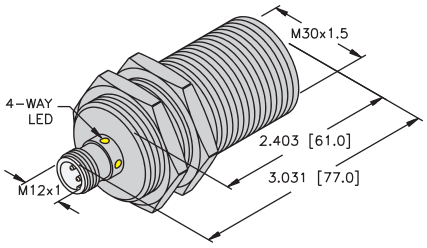
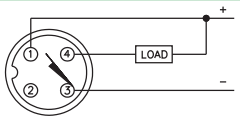
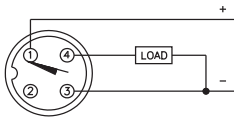
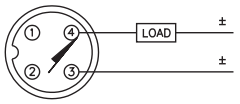
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, *eurofast*® Connection Stainless Steel Barrel 	Bi10U-EM30-AN6X2-H1141/S1589	M1636490	***uprox***	10	**3-Wire DC NPN**
	Bi15-EM30-AN6X2-H1141/S1589	T4618693	***Ext. Range***	15	
	Bi10U-EM30-AP6X2-H1141/S1589	M1636491	***uprox***	10	**3-Wire DC PNP**
	Bi15-EM30-AP6X-H1141/S1589	T4618593		15	
	Bi15U-EM30-AP6X-H1141/S1589	M1636790	***uprox+***	15	
30 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi12-MT30-AD4X-H1141/S1589	T4417097		12	**2-Wire DC**
	Bi12-MT30-AD4X-H1144/S1589	T4417098		12	
	Bi10-MT30-AP6X2-H1141/S34/S1589	M1669480	***WFI***	10	**3-Wire DC PNP**
	Bi10U-MT30-AP6X2-H1141/S1589	M1636291	***uprox***	10	
	Bi15-MT30-AP6X-H1141/S1589	M16367341	***Ext. Range***	15	
	Bi15U-MT30-AP6X-H1141/S1589	M1636793	***uprox***	15	
30 mm - Embeddable, *eurofast* Connection, Extended Length Stainless Steel Barrel 	Bi15-EM30E-AP6X-H1141/S1589	T4618587	***Ext. Range***	15	**3-Wire DC PNP**

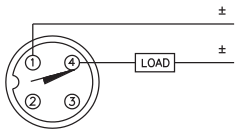
"/S1589" = Barrel sensors with Weldguard laminate coating.

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	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1
	300	≤200	-25 to +70	IP67	SS	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	2	Diagram 2
	2000	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
	750	≤200	-30 to +85	IP68	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
10-65 VDC	500	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.2T-*/S1587	3	Diagram 3
	500	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	4	
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	Diagram 4
	2000	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
	750	≤200	-30 to +85	IP68	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	
	1000	≤200	-30 to +85	IP68	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	300	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	









* Length in meters.

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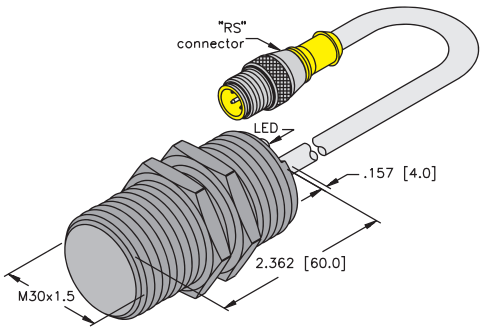
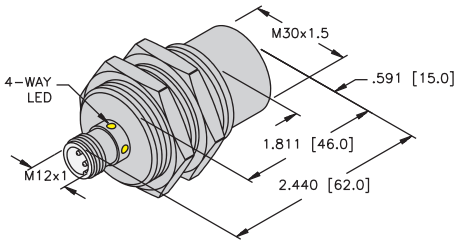
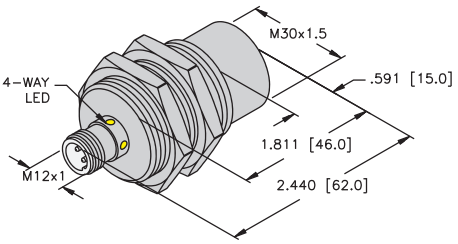
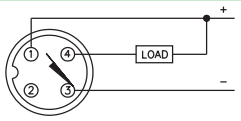
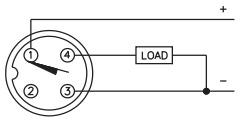
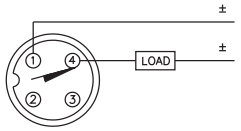
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable with *eurofast* Connector, PTFE Coated Barrel 	Bi12-GT30-AD4X-0.3M-RS4.23T/S1589	T4417085		12	**2-Wire DC**
30 mm - Nonembeddable, *eurofast* Connection Stainless Steel Barrel 	Ni20-EM30-AN6X-H1141/S1589	T4670599	***Ext. Range***	20	**3-Wire DC NPN**
	Ni20U-EM30-AN6X2-H1141/S1589	M1646191	***uprox***	20	
	Ni20-EM30-AP6X-H1141/S1589	T4670590	***Ext. Range***	20	**3-Wire DC PNP**
	Ni20U-EM30-AP6X2-H1141/S1589	M1646490	***uprox***	20	
30 mm - Nonembeddable, *eurofast* Connection, PTFE Coated Barrel 	Ni20-MT30-AN6X-H1141/S1589	T4670589	***Ext. Range***	20	**3-Wire DC NPN**
	Ni20U-MT30-AN6X2-H1141/S1589	M1646290	***uprox***	20	
	Ni20-MT30-AP6X-H1141/S1589	T4670588	***Ext. Range***	20	**3-Wire DC PNP**
	Ni20U-MT30-AP6X2-H1141/S1589	M1646291	***uprox***	20	
	Ni30U-MT30-AP6X-H1141/S1589	M16466331	***uprox+***	30	
	Ni30U-MT30-AP6X2-H1141/S1589	M16466351	***uprox+***	30	

"/S1589" = Barrel sensors with Weldguard laminate coating.

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	500	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	RK 4.23T-*/S1587	3	Diagram 1
10-30 VDC	500	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 2
	1500	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 3
	1500	≤200	-30 to +85	IP68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	
	150	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	
	1500	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	
	500	≤200	-30 to +85	IP68	PTFE	WG	N/A	YE	RKC 4T-*/S1587	2	
	500	≤200	-30 to +85	IP68	PTFE	WG	GN	YE	RKC 4T-*/S1587	2	







* Length in meters.

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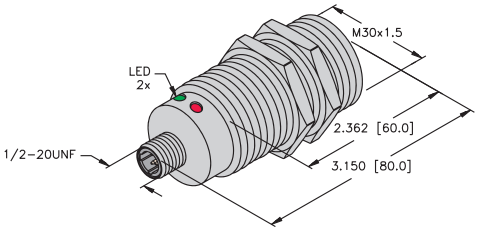
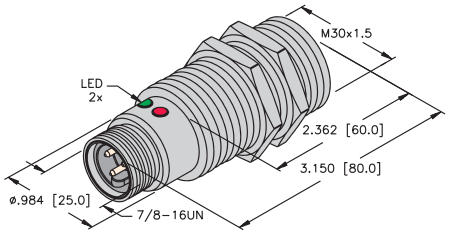
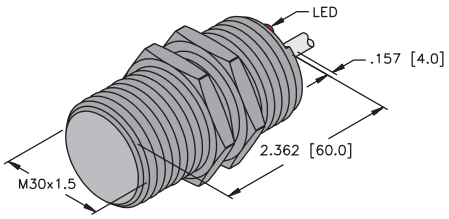
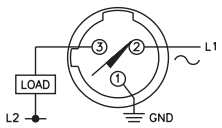
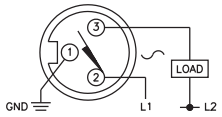
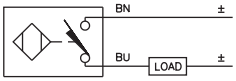
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, *microfast*® Connection, PTFE Coated Barrel 	Bi10-GT30-ADZ30X2-B3131/S34/S1589	T4255281	***WFI***	10	**2-Wire AC/DC Short-Circuit Protected**
30 mm - Embeddable, *minifast*® Connection, PTFE Coated Barrel 	Bi10-GT30-ADZ30X2-B1131/S34/S1589	T4255280	***WFI***	10	**2-Wire AC/DC Short-Circuit Protected**
30 mm - Embeddable, Potted-In Cable, PTFE Coated Barrel 	Bi12-GT30-AD4X/S1589	T4417084		12	**2-Wire DC**

"/S1589" = Barrel sensors with Weldguard laminate coating.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/	Mating Cordset	Wiring Diagram #	Wiring Diagram
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	N/A	KBE 3T-*/S600	1	Diagram 1
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	WG	GN	RD	N/A	KBE 3T-*/S600	2	Diagram 2
10-65 VDC	500	≤100	-25 to +70	IP67	PTFE	WG	N/A	YE	2M/PVC	N/A	1	Diagram 3







Notes:

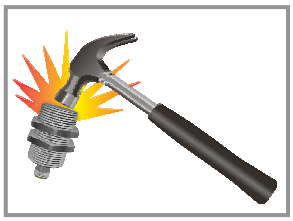
armorguard®

TURCK's *armorguard* provides built-in durability that:

- Protects sensor face from impact
- Includes ***weldguard***® material on sensing face to resist weld slag
- Extends the life of the sensor dramatically

Available in 8, 12, 18 or 30 mm barrel diameters, as well as cube style sensors

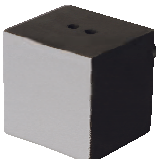
armor guard®



IMPACT

Also Protects Against:
Weld Slag and Abrasion

armorguard Selection Guide 66-81





Style	Rectangular	Embeddable/Nonembeddable Metal Barrel			
Housing	40 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range	20 mm	2 mm	3 - 4 mm	5 - 8 mm	10 - 15 mm
Pages	67 - 68	69 - 70	71 - 74	75 - 78	79 - 80

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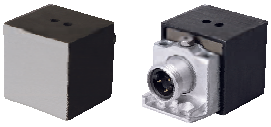
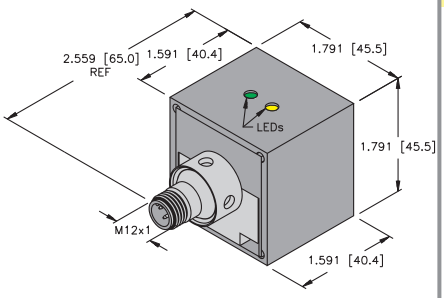
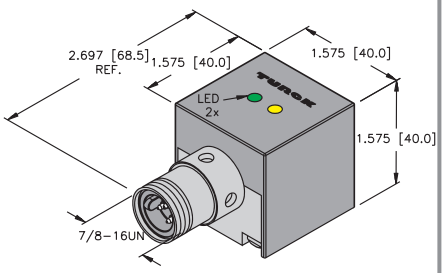
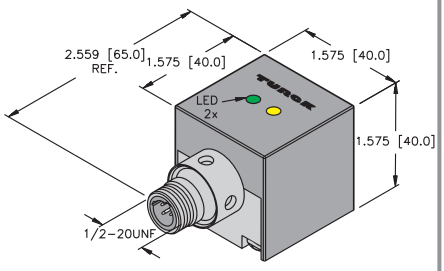
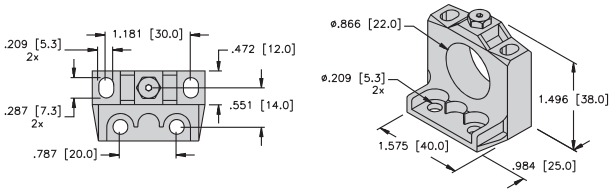


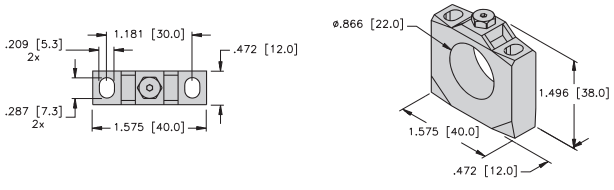
armor guard®

Housing Style - Rectangular	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CA40 - Embeddable, *eurofast*® Connector 	Bi20U-CA40-AP6X2-H1141/S1591 W/BS2.0	M1627296	***uprox***	•	20	**3-Wire DC PNP**
	Bi20U-CA40-AP6X2-H1141/S1591 W/BS2.1	M1627294	***uprox***	•	20	
CA40 - Embeddable, *minifast*® Connector 	Bi20-CA40-ADZ30X2-B1131/S34/S1591 W/BS2.1	M4283595	***WFI***	•	20	**2-Wire AC/DC Short-Circuit Protected**
CA40 - Embeddable, *microfast*® Connector 	Bi20-CA40-ADZ30X2-B3131/S34/S1591 W/BS2.1	M4283596	***WFI***	•	20	**2-Wire AC/DC Short-Circuit Protected**

"/S1591" = CA40 sensors with WELDGUARD laminate encased in ARMORGUARD sleeve

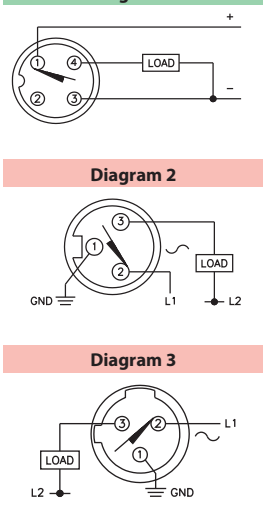


BS 2.1 Mounting Bracket



BS 2.0 Mounting Bracket

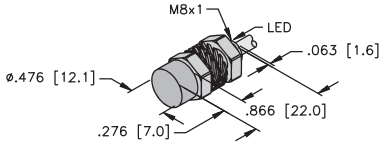
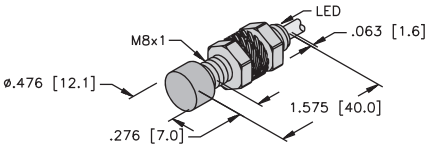
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Front Cap/Face	Power LED	Output LED	Mating Cord, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	250	≤200	-0 to +70	IP67	AG	WG	GN	YE	RKG 4T-*/S600	1	Diagram 1
10-300 VDC 20-250 VAC	300	≤400/300	-25 to +70	IP67	AG	WG	GN	YE	RKM 311-*M/S600	2	Diagram 2
10-300 VDC 20-250 VAC	300	≤400/300	-25 to +70	IP67	AG	WG	GN	YE	KBE 3T-*/S600	3	Diagram 3



* Length in meters.

TURCK
armorgaurd Sensors

armor guard®

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, Potted-In Cable, Miniature Threaded, Stainless Steel Short Length Barrel 	Bi 2-EG08K-AG41X/S1610	S4562096	***Short Barrel***	2	**2-Wire DC**
8 mm - Embeddable, Potted-In Cable, Miniature Threaded Stainless Steel Barrel 	Bi 2-EG08-AP6X/S1610	S4602086-1		2	**3-Wire DC PNP**

"/S1610" = Barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

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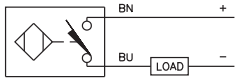
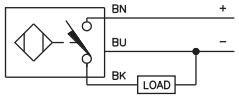
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/	Wiring Diagram #	Wiring Diagrams
10-55 VDC	1000	≤100	-25 to +70	IP67	AG/SS	WG	TROG	N/A	YE	2M/PUR	1	Diagram 1  Diagram 2 
10-30 VDC	3000	≤150	-25 to +70	IP67	AG/SS	WG	TROG	N/A	YE	2M/PUR	2	

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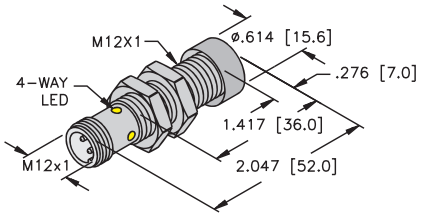
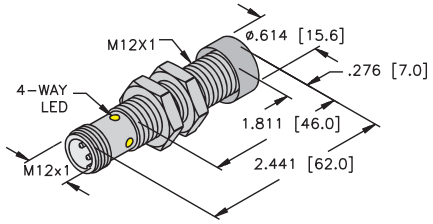
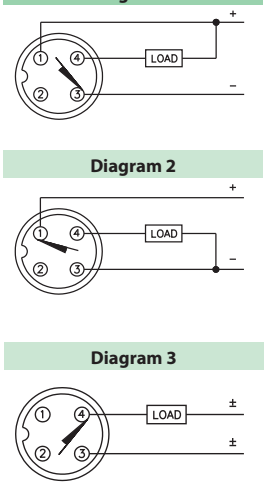
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *eurofast*® Connection, PTFE Coated Barrel 	Bi 4U-MT12-AP6X-H1141/S1610	M1634809-2	***uprox***	4	**3-Wire DC PNP**
12 mm - Embeddable, *eurofast* Connection, Extended Barrel Length, PTFE Coated Barrel 	Bi 3-MT12E-AD4X-H1141/S1610	T4405087-1		3	**2-Wire DC**
	Bi 3-MT12E-AN6X2-H1141/S1610	M1634230-1		3	**3-Wire DC NPN**
	Bi 3U-MT12E-AP6X2-H1141/S1610	M1634292	***uprox, Ext. Range***	3	**3-Wire DC PNP**
	Bi 4-MT12E-AP6X-H1141/S1610	T4608093-1	***Ext. Range***	4	

"/S1610" = Barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

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	IP68	AG/PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-65 VDC	1000	≤100	-25 to +70	IP67	AG/PTFE	WG	N/A	YE	RK 4.2T-*/S1587	3	Diagram 2
10-30 VDC	3000	≤200	-25 to +70	IP67	AG/PTFE	WG	GN	YE	RKC 4T-*/S1587	2	Diagram 3
10-30 VDC	3000	≤200	-30 to +85	IP67	AG/PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
	2000	≤200	-25 to +70	IP67	AG/PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	



* Length in meters.

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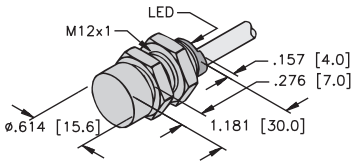
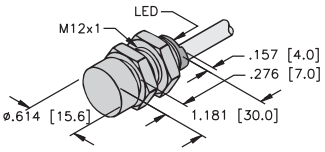
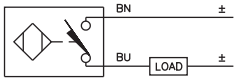
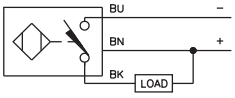
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable PTFE Coated Short Length Barrel 	Bi 3-GT12K-AD4X/S1610	T4405083-2	***Ext. Range, Short Barrel***	3	**2-Wire DC**
12 mm - Embeddable, Potted-In Cable PTFE Coated Short Length Barrel 	Bi 4 - G12K - AN6X/S1610	T1	**Short Barrel**	4	**3-Wire DC NPN**

"/S1610" = Barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Cable Length/	Wiring Diagram #	Wiring Diagram
10-65 VDC	1000	≤100	-25 to +70	IP67	AG/PTFE	WG	EPTR	N/A	YE	2M/PVC	1	Diagram 1  Diagram 2 
10-30 VDC	2000	≤200	-25 to +70	IP67	CPB	WG	EPTR	N/A	YE	2M/PVC	2	

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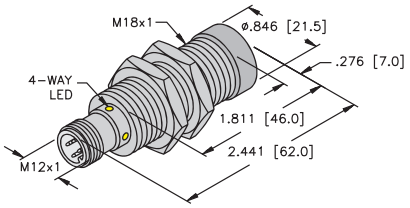
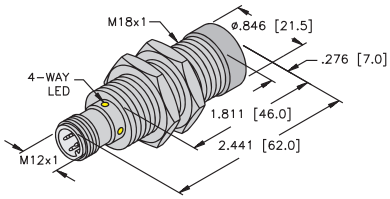
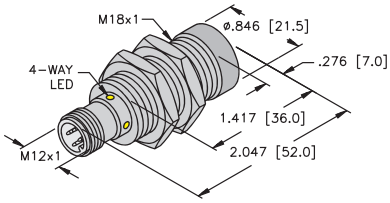
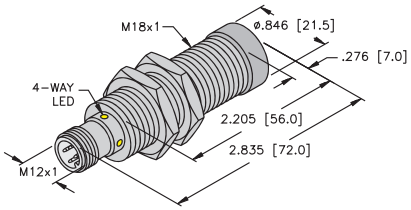
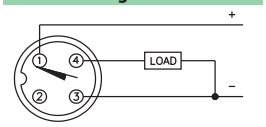
armor guard®

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *eurofast*® Connection, Stainless Steel Barrel 	Bi 5U-MT18-AP6X2-H114/S395/S1610	M1635293		8	**3-Wire DC PNP**
18 mm - Embeddable, *eurofast*® Connection, Stainless Steel Barrel 	Bi 5U-EM18-AP6X2-H1141/S395/S1610	M1635198	***uprox***	5	**3-Wire DC PNP**
	Bi 5U-MT18-AP6X2-H1141/S395/S1610	M1635293	***uprox***	5	
18 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 8U-MT18-AP6X-H1141/S1610	M1644730-2	***uprox+***	8	**3-Wire DC PNP**
18 mm - Embeddable, *eurofast* Connection, Stainless Steel Extended Length Barrel 	Bi 8-EM18E-AP6X-H1141/S1610	T4615095-1	***Ext. Range***	8	**3-Wire DC PNP**

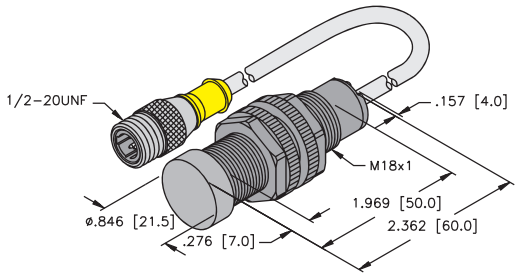
"/S1610" = Barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

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	2500	≤200	-30 to +85	IP67	PTFE	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	2500	≤200	-30 to +85	IP68	AG/PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
	2500	≤200	-30 to +85	IP68	AG/PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	1500	≤200	-30 to +85	IP68	AG/PTFE	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	

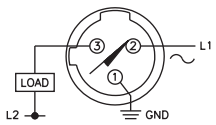


* Length in meters.

TURCK
armorgaurd Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Potted-In Cable with Molded *microfast*® Connector, PTFE Coated Barrel 	Bi 5-GT18-ADZ30X2-0.3-SB 3T/S1610	T4255280-1	***Molded microfast Connector***	5	**2-Wire AC/DC Short-Circuit Protected**

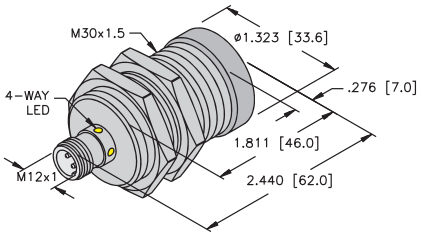
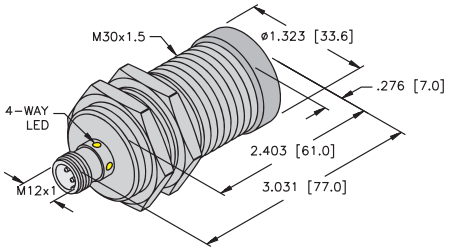
"/S1610" = Barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	End Cap	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagram
20-250 VAC 10-300 VDC	150	≤400/300	-25 to +70	IP67	AG/PTFE	WG	EPTR	GN	RD	KBE 3T-*/S600	1	Diagram 1 

* Length in meters.

TURCK
armorgaurd Sensors

armor guard®

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, *eurofast*® Connection, Stainless Steel Barrel 	Bi 15-EM30-AP6X-H1141/S1610	T4618589		15	**3-Wire DC PNP**
	Bi 10U-MT30-AP6X2-H1141/S1610	M1636292	***uprox***	10	
30 mm - Embeddable, *eurofast* Connection, Stainless Steel Extended Length Barrel 	Bi 15-EM30E-AP6X-H1141/S1610	T4618589-1	***Ext. Range***	15	**3-Wire DC PNP**

"/S1610" = Barrel w/added 7mm Armorguard tool steel sleeve. Sensor then coated with Weldguard.

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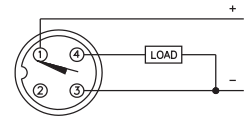
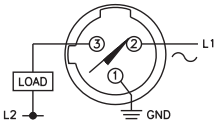
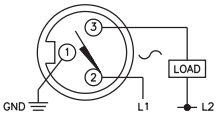
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	300	≤200	-25 to +70	IP67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	2000	≤200	-30 to +85	IP68	AG/PTFE	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-25 to +70	IP67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 2
											Diagram 3







* Length in meters.

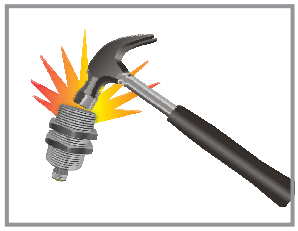
Notes:

STAINLESS STEEL SENSORS

TURCK's heavy-duty stainless steel construction:

- Protects the barrel and internal electronics from damage due to impact
- Protects the sensing face from damage due to abrasion
- Available with PTFE or ***weldguard*** ® coating for protection against weld slag
- No areas of entry, preventing oils and lubricants from seeping into the sensor

One piece stainless steel housing



IMPACT

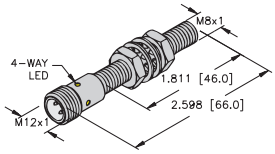
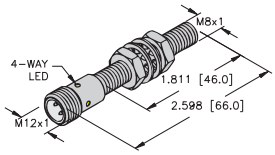
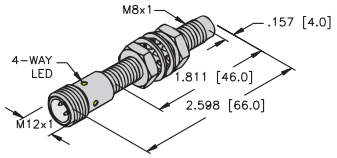
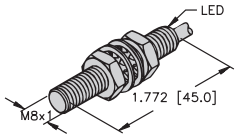
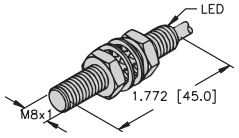
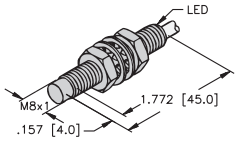
Also Protects Against:
Abrasion

Stainless Steel Front Face Selection Guide 82-91



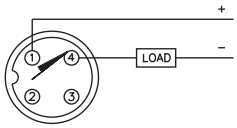

Style	Stainless Steel Front Face Barrel			
Housing	8 mm	12 mm	18 mm	30 mm
Sensing Range	3mm	6 mm	10 mm	20 mm
Pages	83-84	85-86	87-88	89-90

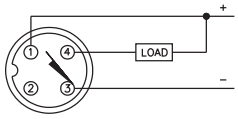
TURCK
Stainless Steel Front Face

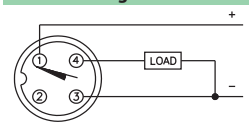

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
8 mm - Embeddable, *eurofast*® Connection, Stainless Steel Front Face 	Bi 1.5-EG08F-AG6X-H1341	M4614631		1.5	**2-Wire DC**
8 mm - Embeddable, *eurofast* Connection, Stainless Steel Front Face 	Bi 1.5-EG08F-AN6X-H1341	M4614630		1.5	**3-Wire DC NPN**
	Bi 3-EG08FE-AN6X-H1341	M4614711	**Ext. Range**	3	
	Bi 1.5-EG08F-AP6X-H1341	M4614629		1.5	**3-Wire DC PNP**
	Bi 1.5-EGT08F-AP6X-H1341	M4614678		1.5	
	Bi 3-EG08FE-AP6X-H1341	M4614703	**Ext. Range**	3	
8 mm - Nonembeddable, *eurofast* Connection, Stainless Steel Front Face 	Ni 6-EG08FE-AN6X-H1341	M4614713	**Ext. Range**	6	**3-Wire DC NPN**
	Ni 6-EG08FE-AP6X-H1341	M4614705	**Ext. Range**	6	**3-Wire DC PNP**
8 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi 1.5-EG08F-AG6X	M4614628		1.5	**2-Wire DC**
	Bi 1.5-EGT08F-AG6X	M4614677		1.5	
8 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi 1.5-EG08F-AN6X	M4614627		1.5	**3-Wire DC NPN**
	Bi 3-EG08FE-AN6X	M4614712	**Ext. Range**	3	
	Bi 1.5-EG08F-AP6X	M4614626		1.5	**3-Wire DC PNP**
	Bi 3-EG08FE-AP6X	M4614704	**Ext. Range**	3	
8 mm - Nonembeddable, Potted-In Cable, Stainless Steel Front Face 	Ni 6-EG08FE-AP6X	M4614719	**Ext. Range**	6	**3-Wire DC PNP**

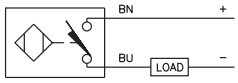
Note: weldguard and PTFE coating available upon request.

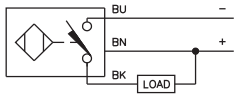
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset, Cable Length/Jacket	Wiring Diagram #	Wiring Diagrams
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3	Diagram 3
	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3	
	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2	Diagram 4
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	4	Diagram 5
	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	4	
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	5	Diagram 6
	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	5	
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	6	
	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	6	
10-30 VDC	1000	≤200	-25 to +70	IP67 /IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	6	

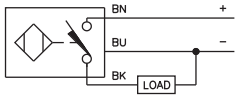






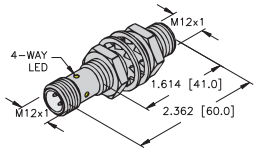
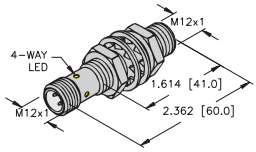
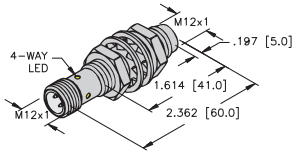
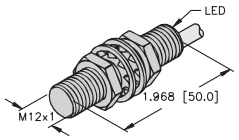
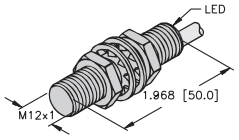






* Length in meters.

TURCK
Stainless Steel Front Face

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *eurofast*® Connection, Stainless Steel Front Face 	Bi 2-EG12F-AG6X-H1141	M4614637		2	**2-Wire DC**
	Bi 2-EGT12F-AG6X-H1141	M4614698		2	
12 mm - Embeddable, *eurofast* Connection, Stainless Steel Front Face 	Bi 2-EG12F-AN6X-H1141	M4614636		2	**3-Wire DC NPN**
	Bi 2-EGT12F-AN6X-H1141	M4614699	**PTFE**	2	
	Bi 6-EG12FE-AN6X-H1141	M4614714	**Ext. Range**	6	
	Bi 2-EG12F-AP6X-H1141	M4614635		2	**3-Wire DC PNP**
	Bi 2-EGT12F-AP6X-H1141	M4614697	**PTFE**	2	
	Bi 6-EG12FE-AP6X-H1141	M4614706	**Ext. Range**	6	
12 mm - Nonembeddable, *eurofast* Connection, Stainless Steel Front Face 	Ni10-EG12FE-AN6X-H1141	M4614715	**Ext. Range**	10	**3-Wire DC NPN**
	Ni10-EG12FE-AP6X-H1141	M4614707	**Ext. Range**	10	**3-Wire DC PNP**
12 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi 2-EG12F-AG6X	M4614634		2	**2-Wire DC**
12 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi 2-EG12F-AN6X	M4614633		2	**3-Wire DC NPN**
	Bi 6-EG12FE-AN6X	M4614721	**Ext. Range**	6	
	Bi 2-EG12F-AP6X	M4614632		2	**3-Wire DC PNP**
	Bi 6-EG12FE-AP6X	M4614720	**Ext. Range**	6	

Note: weldguard and PTFE coating available upon request.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	1
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE		1
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	4
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	5
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PUR	5
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	6
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PUR	6

Wiring Diagrams

Diagram 1

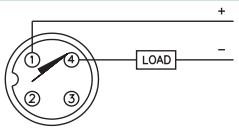


Diagram 2

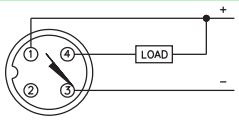


Diagram 3

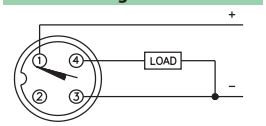


Diagram 4

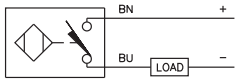


Diagram 5

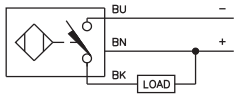
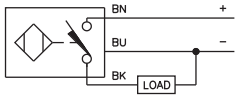
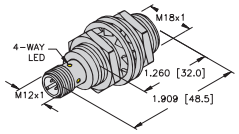
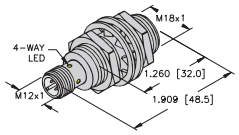
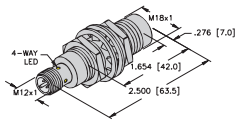
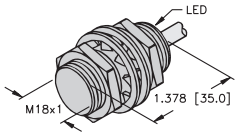
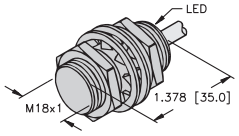


Diagram 6



* Length in meters.

TURCK
Stainless Steel Front Face

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *eurofast*® Connection, Stainless Steel Front Face 	Bi 5-EG18F-AG6X-H1141	M4614643		5	**2-Wire DC**
18 mm - Embeddable, *eurofast* Connection, Stainless Steel Front Face 	Bi 5-EG18F-AN6X-H1141	M4614642		5	**3-Wire DC NPN**
	Bi 5-EGT18F-AN6X-H1141	M4614672	**PTFE**	5	
	Bi10-EG18F-AN6X-H1141	M4614716	**Ext. Range**	10	
	Bi 5-EG18F-AP6X-H1141	M4614641		5	**3-Wire DC PNP**
	Bi 5-EGT18F-AP6X-H1141	M4614675	**PTFE**	5	
	Bi10-EG18F-AP6X-H1141	M4614708	**Ext. Range**	10	
18 mm - Nonembeddable, *eurofast* Connection, Stainless Steel Front Face 	Ni20-EG18FM-AN6X-H1141	M4614717	**Ext. Range**	20	**3-Wire DC NPN**
	Ni20-EG18FM-AP6X-H1141	M4614709	**Ext. Range**	20	**3-Wire DC PNP**
18 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi 5-EG18F-AG6X	M4614640		5	**2-Wire DC**
18 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi 5-EG18F-AN6X	M4614639		5	**3-Wire DC NPN**
	Bi10-EG18F-AN6X	M4614723	**Ext. Range**	10	
	Bi10-EG18F-AP6X	M4614722	**Ext. Range**	10	**3-Wire DC PNP**

Note: weldguard and PTFE coating available upon request.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-30 VDC	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	1
10-30 VDC	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
10-30 VDC	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2
10-30 VDC	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	200	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	4
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	5
	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PUR	5
10-30 VDC	600	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PUR	6

Wiring Diagrams

Diagram 1

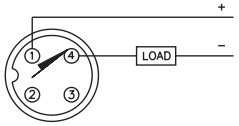


Diagram 2

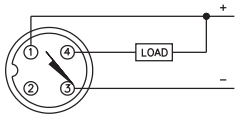


Diagram 3

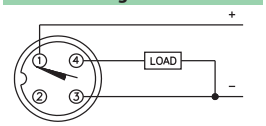


Diagram 4

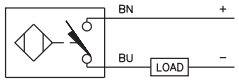


Diagram 5

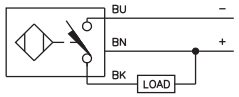
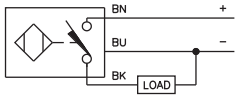
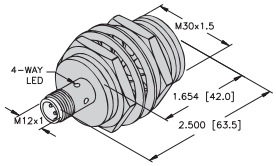
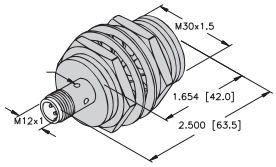
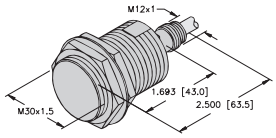


Diagram 6



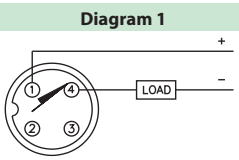
* Length in meters.

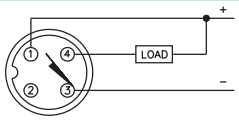
TURCK
Stainless Steel Front Face

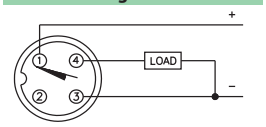
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, *eurofast*® Connection, Stainless Steel Front Face 	Bi10-EG30F-AG6X-H1141	M4614649		10	**2-Wire DC**
30 mm - Embeddable, *eurofast* Connection, Stainless Steel Front Face 	Bi10-EG30F-AN6X-H1141	M4614648		10	**3-Wire DC NPN**
	Bi10-EG30F-AP6X-H1141	M4614647		10	**3-Wire DC PNP**
	Bi20-EG30F-AP6X-H1141	M4614710	**Ext. Range**	20	
30 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face 	Bi10-EG30F-AG6X	M4614646		10	**2-Wire DC**
30 mm - Embeddable, Potted-In Cable, Stainless Steel Front Face	Bi10-EG30F-AN6X	M4614645		10	**3-Wire DC NPN**
	Bi10-EG30F-AP6X	M4614644		10	**3-Wire DC PNP**

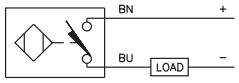
Note: weldguard and PTFE coating available upon request.

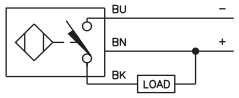
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
10-30 VDC	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3	Diagram 3
	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	4	Diagram 4
10-30 VDC	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	5	Diagram 5
10-30 VDC	50	≤200	-25 to +70	IP67/IP68	SS	SS	N/A	YE	2M/PVC	6	Diagram 6

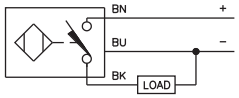












* Length in meters.

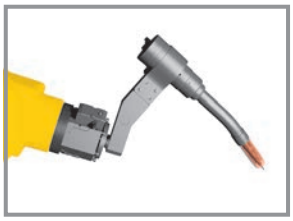
Notes:

Stoneface ®

TURCK's *stoneface* sensors use a glass filled thermoset plastic material on the sensing face that:

- Protects the sensing face from abrasion
- Is resistant to weld slag buildup that is often a result of MIG/TIG welding

Is available with PTFE coated barrels to shed weld slag



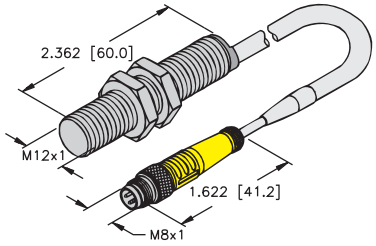
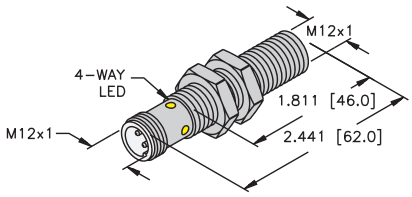
MIG WELDING

Also Protects Against:
Weld Slag and Abrasion

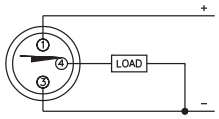
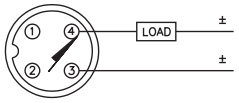
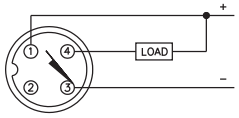
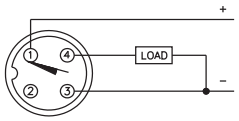
stoneface Selection Guide 92-111

Style	Embeddable Metal Barrel		
Housing	12 mm	18 mm	30 mm
Sensing Range	2 - 4 mm	5 - 8 mm	10 - 15 mm
Pages	93-100	101-106	107-110

TURCK
stoneface Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *picofast*® Connection, PTFE Coated Barrel 	Bi 4-GT12H-AP6X-0.5M-PSG 3M/S1732	T4670267		4	**3-Wire DC PNP**
12 mm - Embeddable, *eurofast*® Connection, Extended Barrel Length, PTFE Coated Barrel 	Bi 3-MT12HE-AD4X-H1141	T4405088		3	**2-Wire DC**
	Bi 3U-MT12HE-AN6X2-H1141	M1634230	***uprox***	3	**3-Wire DC NPN**
	Bi 4-MT12HE-AN6X-H1141	T4607197	***Ext. Range***	4	
	Bi 3U-MT12HE-AP6X2-H1141	M1634220	***uprox***	3	**3-Wire DC PNP**
	Bi 4-MT12HE-AP6X-H1141	T4608093	***Ext. Range***	4	

"/S1732" = Sensor cable with silicone tubing overtop.

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	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	PKG 3M-*/S1587	1	Diagram 1  Diagram 2 
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.2T-*/S1587	2	Diagram 3 
10-30 VDC	3000	≤200	-30 to +85	IP67	PTFE	SF	GN	YE	RKC 4T-*/S1587	3	
	2000	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	3	Diagram 4 
10-30 VDC	3000	≤200	-30 to +85	IP67	PTFE	SF	GN	YE	RKC 4T-*/S1587	4	
	2000	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	4	

* Length in meters.

TURCK
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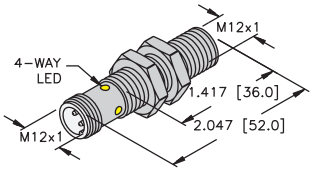
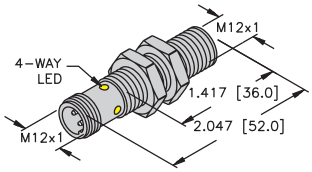
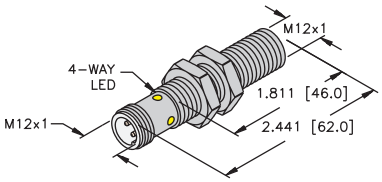
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *eurofast* Connection, Stainless Steel Barrel 	Bi 3U-EM12H-AP6X-H1141	M1634312	***uprox***	3	**3-Wire DC PNP**
12 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	BI 3-MT12H-AD4X-H1144	T44050983		3	**2-Wire DC**
	Bi 4-MT12H-AN6X-H1141	T4607194	***Ext. Range***	4	**3-Wire DC NPN**
	Bi 3U-MT12H-AP6X-H1141	M1634212	***uprox***	3	**3-Wire DC PNP**
	Bi 4-MT12H-AP6X-H1141	T4607093	***Ext. Range***	4	
12 mm - Embeddable, *eurofast* Connection, Extended Length Stainless Steel Barrel 	Bi 3U-EM12HE-AN6X2-H1141	M1634311	***uprox***	3	**3-Wire DC NPN**
	Bi 3U-EM12HE-AP6X2-H1141	M1634310	***uprox***	3	**3-Wire DC PNP**

MIG WELDING

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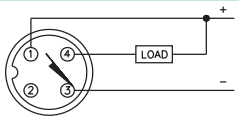
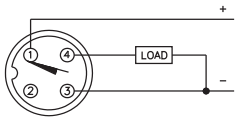
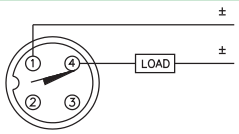
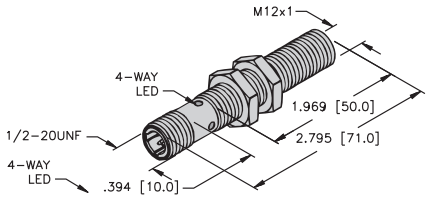
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-30 VDC	3000	≤200	-30 to +85 -	IP68	SS	SF	N/A	YE	RKC 4T-*/S1587	2	Diagram 1
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.23T-*/S1587	3	Diagram 2
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	3000	≤200	-30 to +85	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	2	Diagram 3
	2000	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	3000	≤200	-30 to +85	IP68	SS	SF	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	3000	≤200	-30 to +85	IP68	SS	SF	GN	YE	RKC 4T-*/S1587	2	





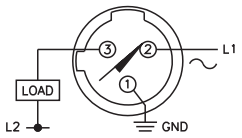


* Length in meters.

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, *microfast*® Connection, PTFE Coated Barrel  	Bi 2-GT12H-ADZ32X-B3131/S34	T4205093	***WFI***	2	**2-Wire AC/DC Short-Circuit Protected**
	Bi 4-GT12H-ADZ32X-B3131	T4205097		4	

MIG WELDING

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	IP67	PTFE	SF	N/A	YE	KBE 3T-*/S600	1	Diagram 1
	20	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	KBE 3T-*/S600		



* Length in meters.

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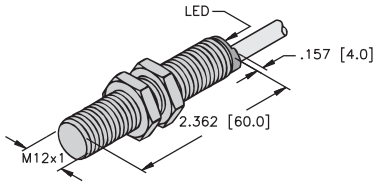
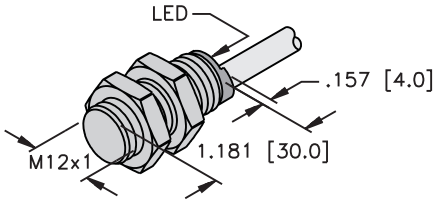
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable, PTFE Coated Barrel 	Bi 4-GT12H-AN6X	T4670264			**3-Wire DC NPN**
	Bi 4-GT12H-AP6X	T4670280		4	**3-Wire DC PNP**
12 mm - Embeddable, Potted-In Cable, PTFE Coated Short Barrel 	Bi 3-GT12HK-AD4X	T4405073	***Short Barrel***	3	**2-Wire DC**

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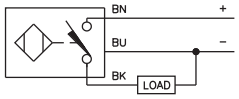
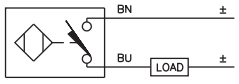
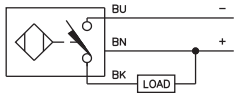
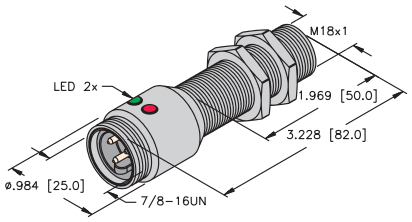
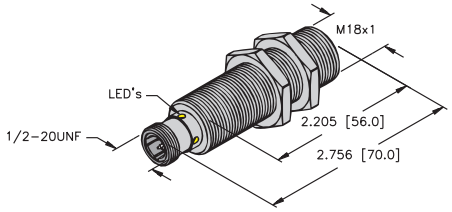
MIG WELDING

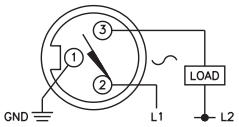
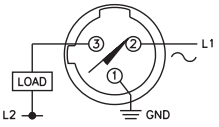
Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/ Cable Mat.	Wiring Diagram #	Wiring Diagrams
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	2M/PVC	3	Diagram 1
10-30 VDC	2000	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	2M/PVC	1	Diagram 2
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	2M/PVC	2	Diagram 3







Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *minifast*® Connection, PTFE Coated Barrel 	Bi 5-GT18H-ADZ30X2-B1331/S34	T4255299	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**
18 mm - Embeddable, *microfast*® Connection, PTFE Coated Barrel 	Bi 5-GT18H-ADZ30X2-B3331/S34	T4255289	***WFI***	5	**2-Wire AC/DC Short-Circuit Protected**

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	≤400/300	-25 to +70	IP67	PTFE	SF	GN	RD	RKM 311-*M/S600	1	**Diagram 1**  **Diagram 2** 
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70 -	IP67	PTFE	SF	GN	RD	KBE 3T-*/S600	2	

* Length in meters.

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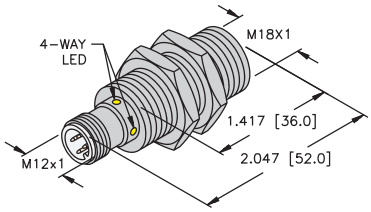
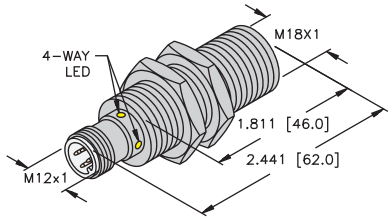
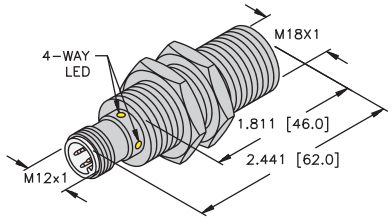
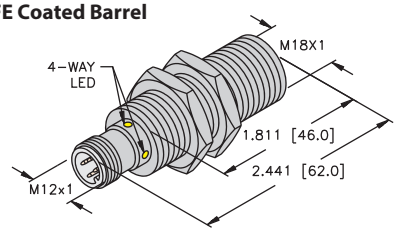
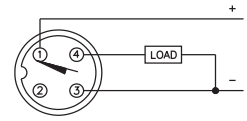
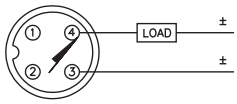
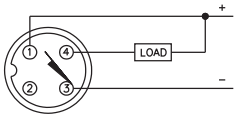
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, *eurofast*® Connection Stainless Steel Barrel 	Bi 5-EM18H-AP6X-H1141	T4614687		5	**3-Wire DC PNP**
	Bi 5U-EM18H-AP6X-H1141	M1635112	***uprox***	5	
	Bi 8-EM18H-AP6X-H1141	T4615094	***Ext. Range***	8	
18 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 7-MT18H-AD4X-H1141	T4414580-1	***Ext. Range***	7	**2-Wire DC**
18 mm - Embeddable, *eurofast* Connection Stainless Steel Barrel 	Bi 5U-EM18H-AN6X2-H1141/S395	M1635146	***uprox***	5	**3-Wire DC NPN**
	Bi 5U-EM18H-AP6X2-H1141/S395	M1635158	***uprox***	5	**3-Wire DC PNP**
18 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 5U-MT18H-AN6X2-H1141/S395	M1635225	***uprox***	5	**3-Wire DC NPN**
	Bi 5U-MT18H-AP6X2-H1141/S395	M1635220	***uprox***	5	**3-Wire DC PNP**

"/S395" = 62 mm barrel length

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	500	≤200	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	2500	≤200	-25 to +70	IP68	SS	SF	N/A	YE	RKC 4T-*/S1587	1	
	500	≤400	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4T-*/S1587	1	
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.2T-*/S1587	2	Diagram 2
10-30 VDC	2500	≤200	-30 to +85	IP68	SS	SF	GN	YE	RKC 4T-*/S1587	3	Diagram 3
10-30 VDC	2500	≤200	-30 to +85	IP68	SS	SF	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2500	≤200	-30 to +85	IP67	PTFE	SF	GN	YE	RKC 4T-*/S1587	3	
10-30 VDC	2500	≤200	-30 to +85	IP67	PTFE	SF	GN	YE	RKC 4T-*/S1587	1	

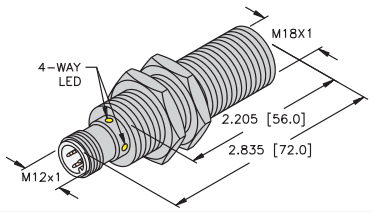
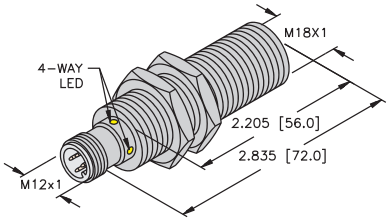
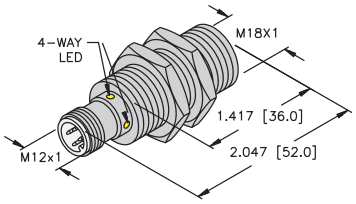
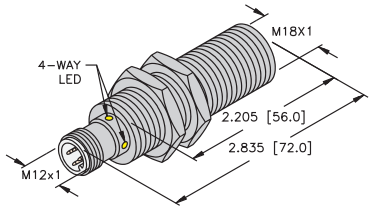
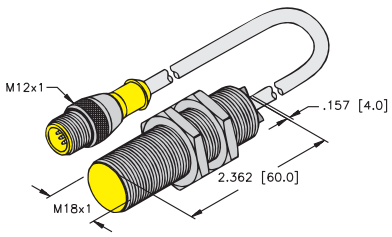






* Length in meters.

TURCK
stoneface Sensors

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Ext. Barrel Length, *eurofast*® Connection, Stainless Steel Barrel 	Bi 8-EM18HE-AN6X-H1141	T4615194	***Ext. Range***	8	**3-Wire DC NPN**
	Bi 8-EM18HE-AP6X-H1141	T4615095	***Ext.Range***	8	**3-Wire DC PNP**
18 mm - Embeddable, Ext. Barrel Length, *eurofast* Connection, PTFE Coated Barrel 	Bi 7-MT18HE-AD4X-H1141	T4414597		7	**2-Wire DC**
	Bi 7-MT18HE-AD4X-H1144	T4414598		7	
18 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 8-EMT18H-AN6X-H1141	T46150942	***Ext.Range***	8	**3-Wire DC NPN**
	Bi 8-EMT18H-AP6X-H1141	T46150941	***Ext.Range***	8	**3-Wire DC PNP**
18 mm - Embeddable, Ext. Barrel Length, *eurofast* Connection, Stainless Steel Barrel 	Bi 7-EM18HE-AD4X-H1141	T44145802		7	**2-Wire DC**
18 mm - Embeddable, Barrel, *eurofast* Connection 	Bi 7-GT18H-AD4X-0.5M-RS 4.23T/S1732	T44145921		7	**2-Wire DC**

"/S1732" = Sensor cable with silicone tubing overtop.

Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #
10-30 VDC	500	≤200	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	500	≤200	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4T-*/S1587	4
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.2T-*/S1587	1
	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.23T-*/S1587	2
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	3
10-30 VDC	500	≤200	-25 to +70	IP67	PTFE	SF	N/A	YE	RKC 4T-*/S1587	4
10-65 VDC	1000	≤100	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4.2T-*/S1587	1
10-65 VDC	1000	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.23T-*/S1587	2

Wiring Diagrams

Diagram 1

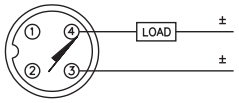


Diagram 2

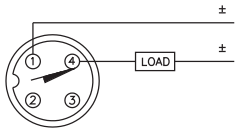


Diagram 3

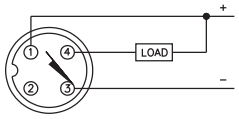
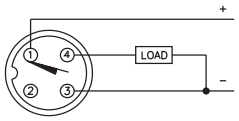
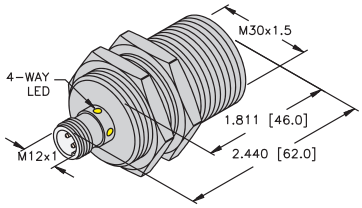
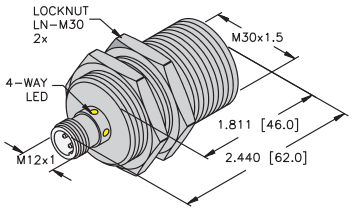
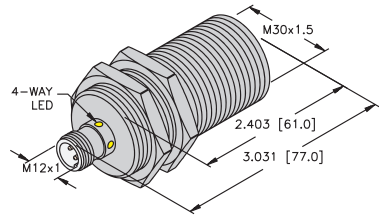


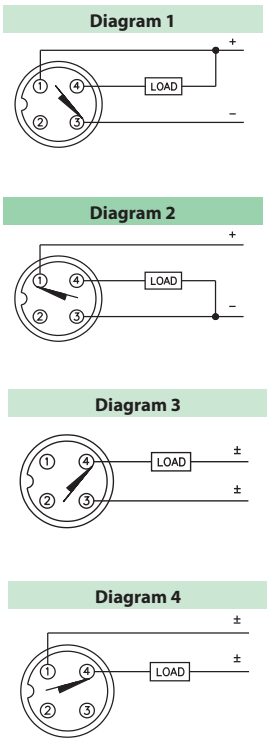
Diagram 4



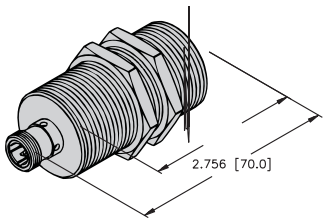
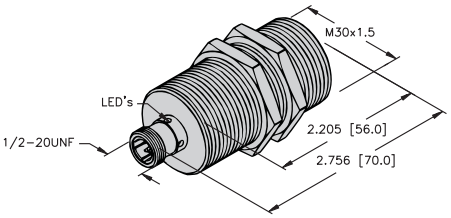
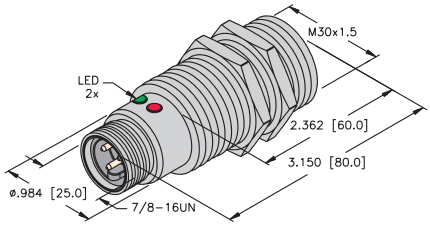
* Length in meters.

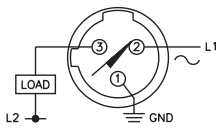
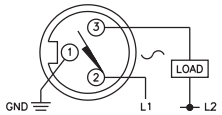
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, *eurofast*® Connection Stainless Steel Barrel 	Bi15-EM30H-AN6X-H1141	T4618692	***Ext. Range***	15	**3-Wire DC NPN**
	Bi15-EM30H-AP6X-H1141	T4618592	***Ext. Range***	15	**3-Wire DC PNP**
30 mm - Embeddable, *eurofast* Connection, PTFE Coated Barrel 	Bi 12-MT30H-AD4X-H1141	T4417094		12	**2-Wire DC**
	Bi 12-MT30H-AD4X-H1144	T4417095		12	
	Bi10U-MT30H-AN6X2-H1141	M1636220	***uprox***	10	**3-Wire DC NPN**
	Bi10U-MT30H-AP6X2-H1141	M1636415	***uprox***	10	**3-Wire DC PNP**
30 mm - Embeddable, *eurofast* Connection, Extended Length Stainless Steel Barrel 	Bi10U-EM30HE-AP6X2-H1141	T46150942	***uprox***	10	**3-Wire DC PNP**

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	300	≤200	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	300	≤200	-25 to +70	IP67	SS	SF	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
10-65 VDC	500	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.2T-*/S1587	3	Diagram 3
	500	≤100	-25 to +70	IP67	PTFE	SF	N/A	YE	RK 4.23T-*/S1587	4	
10-30 VDC	2000	≤200	-30 to +85	IP67	PTFE	SF	GN	YE	RKC 4T-*/S1587	1	Diagram 4
10-30 VDC	2000	≤200	-30 to +85	IP67	PTFE	SF	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-30 to +85	IP68	SS	SF	GN	YE	RKC 4T-*/S1587	2	



* Length in meters.

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, *microfast*® Connection, Stainless Steel Barrel 	Bi15-EG30H-ADZ30X2-B3131	T4207284		15	**2-Wire AC/DC Short-Circuit Protected**
30 mm - Embeddable, *microfast* Connection, PTFE Coated Barrel 	Bi10-GT30H-ADZ30X2-B3131/S34	T4256094	***WFI***	10	**2-Wire AC/DC Short-Circuit Protected**
30 mm - Embeddable, *minifast*® Connection, Stainless Steel Barrel 	Bi15-EG30H-ADZ30X2-B1131	T4207292	***Ext. Range***	15	**2-Wire AC/DC Short-Circuit Protected**

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	≤400/300	-25 to +70	IP67	SS	SF	GN	RD	KBE 3T-*/S600	1	Diagram 1  Diagram 2 
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	PTFE	SF	GN	RD	KBE 3T-*/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP67	SS	SF	GN	RD	RKM 311M-*/S600	2	

* Length in meters.

Notes:

Nut Detection Sensors

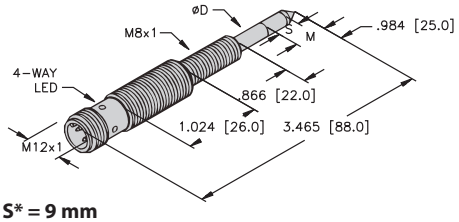
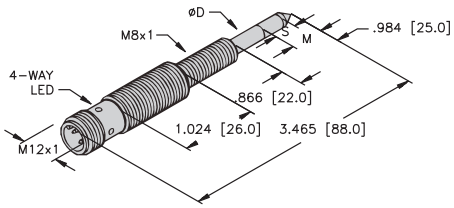
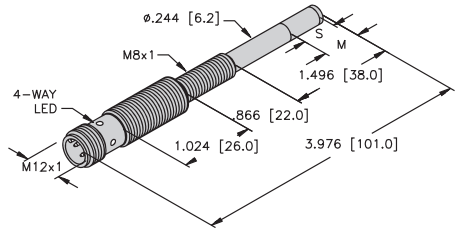
TURCK's weld nut sensors provide efficient and economical detection of weld nuts in automotive applications.

- Rejection-free process for detecting weld nuts
- An economical alternative to more expensive optical or vision-based systems that often malfuntion due to:
  Dirt and weldplatter residue
  Frequently changing lighting conditions in welding zones
- Rugged construction delivers dependable performance
- Teflon coated
- TiN coated
- Simple programming
- Bright LEDs indicate the output status

Nut Detection Sensor Selection Guide 112-115

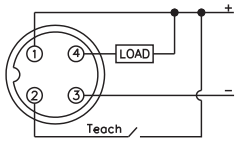
Style	Nut Sensor	
Housing	12 mm	
Nut Sizes	6 -12 mm	10-20 mm
Pages	113-114	113-114

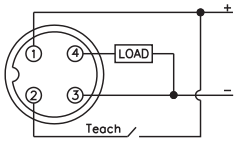
TURCK
Nut Detection Sensors

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

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.

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	Diagram 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	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	Diagram 2
10-30 VDC	N/A	≤200	-25 to +70	IP67	CPB	GN	YE	RK 4.4T-*	1	
	N/A	≤200	-25 to +70	IP67	SS	GN	YE	RK 4.4T-*	1	
	N/A	≤200	-25 to +70	IP67	SS	GN	YE	RK 4.4T-*		
10-30 VDC	N/A	≤200	-25 to +70	IP67	CPB	GN	YE	RK 4.4T-*	2	
	N/A	≤200	-25 to +70	IP67	SS	GN	YE	RK 4.4T-*	2	
	N/A	≤200	-25 to +70	IP67	SS	GN	YE	RK 4.4T-*	2	





* Length in meters.

Notes:

SENSOR ACCESSORIES

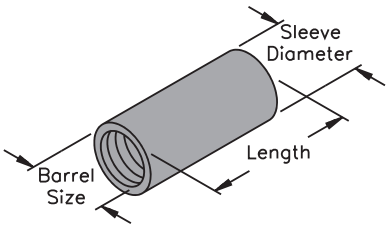
A variety of accessories are available to help protect sensors from weld splatter and physical damage.

- Cushion mount accessory protects sensor when used as an end stop
- PTFE and ceramic caps protect the sensor face from weld splatter
- ***armorguard***® sleeves protect against physical abuse

PTFE coated quick mount allow for quick change mounting

armorguard® Sleeves

Part Number	ID Number	Barrel Size	Sleeve Diameter	Length
MBS-08TS 7MM	A0835	M8x1	Ø0.48 [12.1]	0.28 [7.0]
MBS-08TS 15MM	A0835-01			0.59 [15.0]
MBS-12TS 15MM	A3152-04	M12x1	Ø0.61 [15.6]	0.59 [15.0]
MBS-12TS 35MM	A3152-01			1.38 [35.0]
MBS-12TS 45MM	A3152-02			1.77 [45.0]
MBS-12TS 50MM	A3152-03			1.97 [50.0]
MBS-18TS 7MM	A0837	M18x1	Ø0.85 [21.5]	0.28 [7.0]
MBS-18TS 15MM	A3143-03			0.59 [15.0]
MBS-18TS 35MM	A3143-01			1.38 [35.0]
MBS-18TS 45MM	A3143-02			1.77 [45.0]
MBS-18TS 50MM	A3143			1.97 [50.0]
MBS-30TS 7MM	A9123	M30x1	Ø1.32 [33.6]	0.28 [7.0]
MBS-30TS 15MM	A9124			0.59 [15.0]

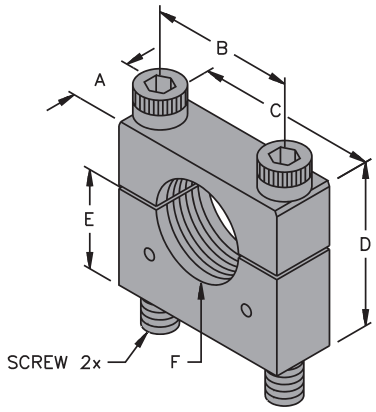


Inches [mm]

armorguard® Mounting Bracket

Part Number	ID Number	Barrel Diameter	Dimensions						
			A	B	C	D	E	F	Screw
BS-TS12	A3152	12 mm	0.50 [12.7]	0.78 [20.0]	1.25 [31.8]	1.35 [34.3]	0.81 [20.5]	Ø0.61 [15.5]	10x24x1.75
BS-TS18	A3076	18 mm	0.50 [12.7]	1.81 [30.0]	1.50 [38.1]	1.35 [34.3]	0.81 [20.5]	Ø0.85 [21.5]	1/4-20UNC

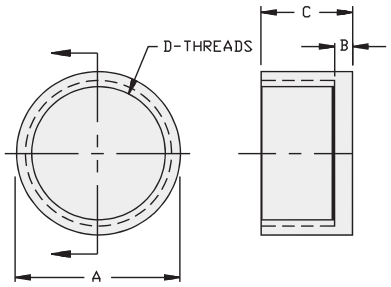
Inches [mm]



PTFE/Ceramic Covers

Part Number	ID Number	Barrel Diameter	Dimensions			
			A	B	C	D
CAP 08-PTFE	A3055-1	8 mm Embeddable	0.37 [9.5]	0.03 [0.7]	0.44 [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

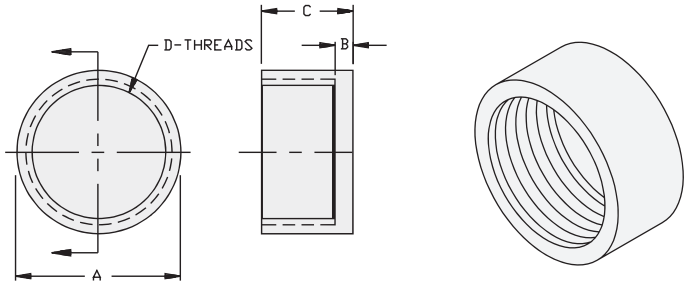
Material: PTFE
Inches [mm]



For use with metal barrel sensors. * Other dimensions available, please consult factory.

Part Number	ID Number	Dimensions				Max. Temp.	Density	Porosity	Thermal Conductivity (@20°C)
		A	B	C	D				
CAP 12-CER	A2530	0.63 [16.0]	0.04 [1.10]	.352 [8.94]	M12x1	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 18-CER	A2531	0.88 [22.3]	0.04 [1.10]	.352 [8.94]	M18x1				
CAP 30-CER	A2532	1.34 [34.0]	0.08 [2.00]	.352 [8.94]	M30x1.5				

Inches [mm]
Material: Ceramic



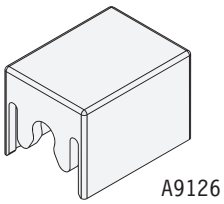
For use with embeddable metal barrel sensors. Longer sleeves available, please consult factory.

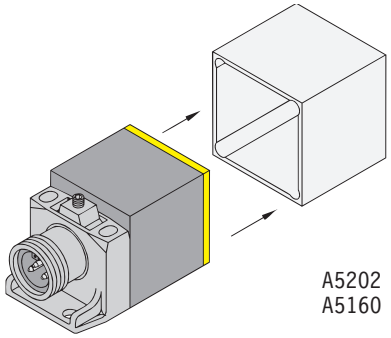
TURCK
Sensor Accessories

CK40 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

Inches [mm]



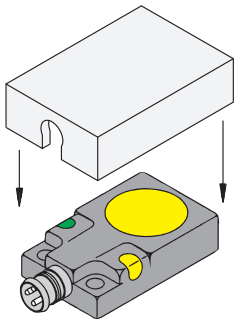


For use with ***CK40*** style sensors.

QPak PTFE Covers

Part Number	ID Number
T-Q08-T-MCC	A5155
T-08-D-MC-WG*	A5153
T-Q14-T-MCC	A5154
T-Q20-T-MCC	A5156

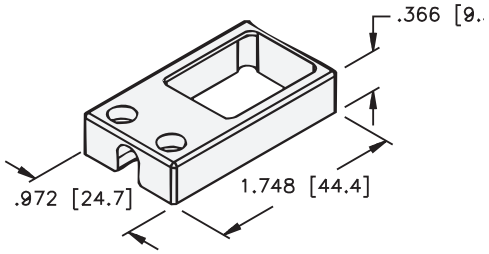
Material: PTFE
Inches [mm]
* Cover coated with ***weldguard***® laminate.



For use with ***QPak*** style sensors.

Part Number	ID Number
MBS-Q08TS	A9492

Material: Nickel-plated steel
Inches [mm]
* Cover coated with ***weldguard***® laminate.



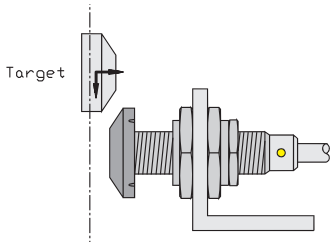
For use with ***QPak*** style sensors.

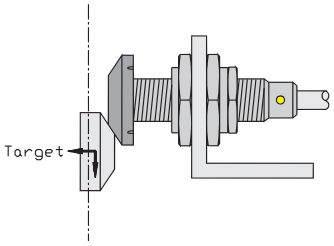
Other dimensions available, please consult factory.

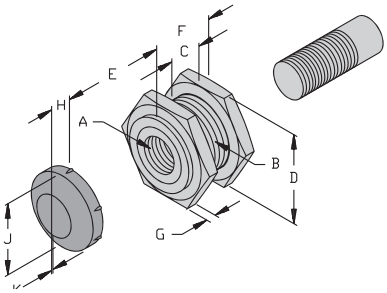
Cushion Mount

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]	.750 [19.1]	.155 [3.94]	.200 [5.08]	.600 [15.2]	.0004 [.010]
CM-12 CM-12N	A2505 A2506	M12x1	M22x1.5	.433 [11.0]	1.19 [30.2]	.395 [10.0]	.750 [19.1]	.155 [3.94]	.245 [6.22]	.860 [21.8]	.010 [.250]
CM-18 CM-18N	A2507 A2508	M18x1	M30x1.5	.598 [15.2]	1.38 [35.1]	.395 [10.0]	1.00 [25.4]	0.02 [5.08]	.315 [8.00]	1.18 [30.0]	.001 [.035]
CM-30 CM-30N	A2509 A2510	M30x1.5	M47x1.5	.972 [24.7]	2.05 [52.1]	.591 [15.0]	1.37 [34.9]	0.20 [5.08]	.315 [8.00]	1.75 [44.5]	.035 [.890]

Inches [mm]



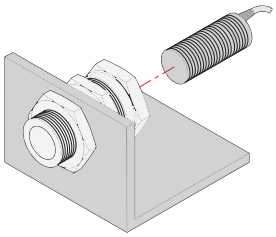


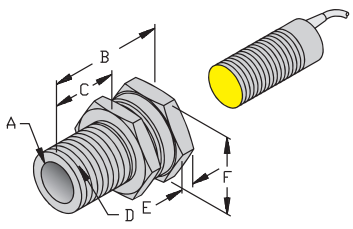


Quick Mount, PTFE Coated

Part Number	ID Number	Dimensions					
		A	B	C	D	E	F
QM-12L-T	A2542	0.48 [12.1]	1.76 [44.8]	1.18 [30.0]	M16x1	0.16 [4.01]	0.86 [21.8]
QM-12-T	A2545	0.48 [12.1]	1.33 [33.7]	0.77 [19.5]	M16x1	0.16 [4.01]	0.86 [21.8]
QM-18L-T	A2543	0.71 [18.1]	2.28 [58.0]	1.57 [40.0]	M24x1.5	0.19 [4.95]	1.18 [30.0]
QM-18-T	A2546	0.71 [18.1]	1.51 [38.5]	0.79 [20.0]	M24x1.5	0.19 [4.95]	1.18 [30.0]
QM-30L-T	A2544	1.19 [30.1]	2.28 [58.0]	0.79 [20.0]	M36x1.5	0.24 [6.13]	1.61 [41.0]

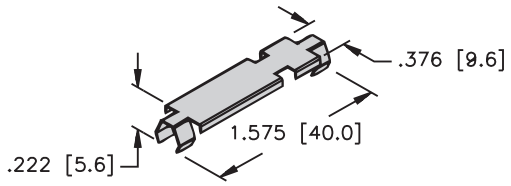
Inches [mm]





Part Number	ID Number
SG-UNT	A9800

Material: Nickel-plated steel
Inches [mm]



For use with UNT style sensors.

INSTRUMENTATION

Flow Monitors For Weld Tip Protection

- Flow monitors are used in the welding industry to detect the loss of coolant to weld tips
- Prevents damage to equipment

Keep quality, control welds

Pressure Sensors For Weld Cell Automation

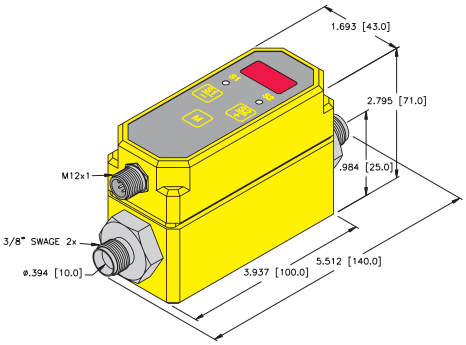
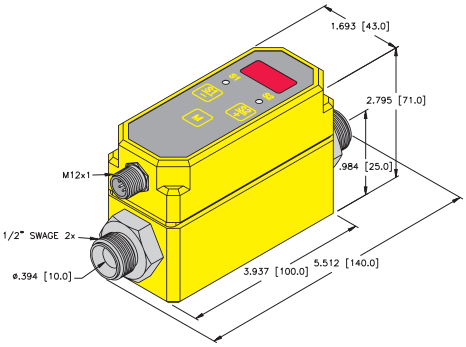
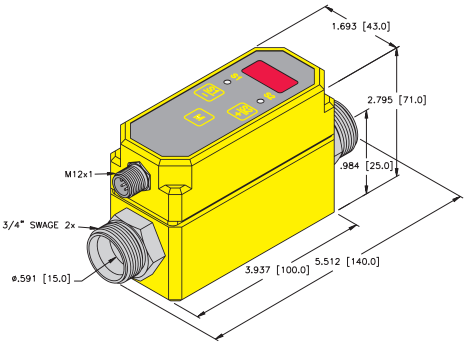
- Pressure sensors for monitoring material transfers
- Hydraulic or pneumatic monitoring

Mastic dispensing monitoring

Instrumentation Selection Guide 122-143




Style	Inline Flow Monitor	Self-Contained Monitor	Air Flow Monitor	Pressure Sensor	Accessories
Pages	123 -124	125-126	125-126	129-140	141-143

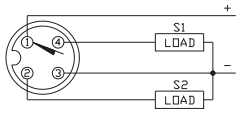
Housing Style	Part Number	ID Number	Flow Detection Range (GPM)	Temperature Monitoring Range (°C)	Output 1: Flow	Output 2: Temperature or Flow
Inline Flow Monitor, Digital Readout, 3/8" Tubing Connection 	FTCI-3/8D10A4P-2UP8X-H1141	M6870806	0.2 to 4	-10 to +90	**PNP N.O./N.C.**	**PNP N.O./N.C.**
Inline Flow Monitor, Digital Readout, 1/2" Tubing Connection 	FTCI-1/2D10A4P-2UP8X-H1141	M6870807	0.2 to 5	-10 to +90	**PNP N.O./N.C.**	**PNP N.O./N.C.**
Inline Flow Monitor, Digital Readout, 3/4" Tubing Connection 	FTCI-3/4D15A4P-2UP8X-H1141	M6870808	1 to 12	-10 to +90	**PNP N.O./N.C.**	**PNP N.O./N.C.**

Compatible Fluids: Water, Deionized Water, Ethylene Glycol (0-70%), Galden® HT110, Galden® HT135

For DRO Flow accessories see page 107.

Material

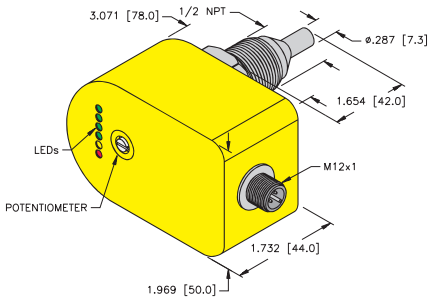
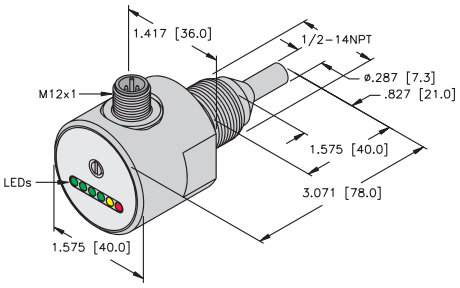
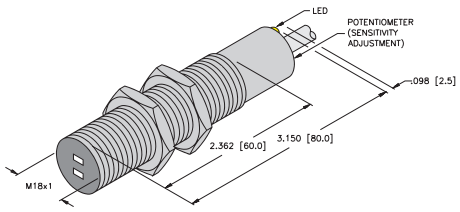
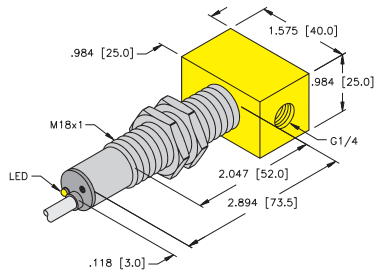
Housing	PBT
Wetted Parts	316 Ti Stainless Steel
O-Ring	FKM

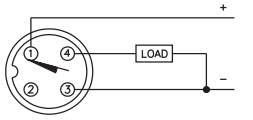
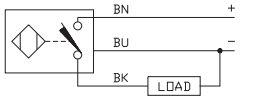
Voltage	Current Consumption (mA)	Switching Current (mA)	Pressure Rating (psi)	Fluid Connection	Operating Temp. (°C) (ambient)	Protection	Mating Cordset	Wiring Diagram #	Wiring Diagram
21.6-26.4 VDC	≤100	200	290	3/8" swage	0 to +60	IP65	RK 4.4T-*	1	Diagram 1 
21.6-26.4 VDC	≤100	200	290	1/2" swage	0 to +60	IP65	RK 4.4T-*	1	
21.6-26.4 VDC	≤100	200	290	3/4" swage	0 to +60	IP65	RK 4.4T-*	1	

* Length in meters.

TURCK
Instrumentation



Housing Style	Part Number	ID Number	Flow Detection Range (water)	Flow Detection Range (oil)	Flow Detection Range (air)	Output
Self-Contained Plastic Housing (PBT) 	FCS-N1/2A4P-AP8X-H1141	M6871032	1 to 150 cm/sec.	3 to 300 cm/sec.	N/A	**PNP N.O.**
Self-Contained 316 Stainless Steel Housing 	FCS-N1/2A4-AP8X-H1141	M6871004	1 to 150 cm/sec.	3 to 300 cm/sec.	N/A	**PNP N.O.**
Self-Contained Air Flow Monitor, Nickel Plated Brass Housing 	FCS-M18-AP8X	M6870704	N/A	N/A	0.5 to 15 m/sec.	**PNP N.O.**
Self-Contained Air Flow Monitor, Delrin/PBT/Nickel Plated Brass Housing 	FCS-M18-AP8X/D041	M6870705	N/A	N/A	0.1 to 15 cm/sec.	**PNP N.O.**

Voltage	Current Consumption (mA)	Switching Current (mA)	Pressure Rating (psi)	Fluid Connection	Operating Temp. (°C) (ambient)	Operating Temp. (°C) (fluid)	Protection	Mating Cordset	Cable Length/	Wiring Diagram #	Wiring Diagram
19.2-28.8 VDC	≤60	≤400	1450	1/2 NPT	-25 to +70	-20 to +80	IP65	RK 4T-*	N/A	1	Diagram 1  Diagram 2 
19.2-28.8 VDC	≤70	≤400	1450	1/2 NPT	-25 to +80	-20 to +80	IP67	RK 4T-*	N/A	1	
19.2-28.8 VDC	≤70	200	145	M18x1	-20 to +70	-20 to +70	IP67	N/A	2M/PVC*	2	
19.2-28.8 VDC	≤70	200	145	M18x1	-20 to +70	-20 to +70	IP67	N/A	2M/PVC*	2	

* Length in meters.

Notes:

High Accuracy Programmable Pressure Sensor Part Number Key

PS	010V	-	5	03	-	LI2UPN	8	X	-	H1141

Pressure Sensor

Nominal Pressure Range

01VR = -1 to 0 bar gauge (-14.5 to 0 psi)
001R = 0 to 1 bar gauge (0 to 14.5 psi)
001V = -1 to 1 bar gauge (-14.5 to 14.5 psi)
003V = -1 to 2.5 bar gauge (-14.5 to 36 psi)
010V = -1 to 10 bar gauge (-14.5 to 145 psi)
016V = -1 to 16 bar gauge (-14.5 to 232 psi)
025V = -1 to 25 bar gauge (-14.5 to 362 psi)
040V = -1 to 40 bar gauge (-14.5 to 580 psi)
100R = 0 to 100 bar gauge (0 to 1450 psi)
250R = 0 to 250 bar gauge (0 to 3625 psi)
400R = 0 to 400 bar gauge (0 to 5800 psi)
600R = 0 to 600 bar gauge (0 to 8700 psi)
001A = 0 to 1 bar absolute (0 to 14.5 psi)
003A = 0 to 2.5 bar absolute (0 to 36 psi)
010A = 0 to 10 bar absolute (0 to 145 psi)
016A = 0 to 16 bar absolute (0 to 232 psi)
025A = 0 to 25 bar absolute (0 to 362 psi)

Housing

5 = Rotatable
3 = IP69k

Pressure Connection

01 = G1/4" female thread
02 = 1/4" NPT femals thread
03 = 1/4"-18 NPT male thread
04 = G1/4" male thread
05 = 7/16"-20 UNF male thread

Electrical Output	Output 1	Output 2
2UPN	switching output	switching output
LUUPN	switching output	voltage output
LI2UPN	switching output	current/switching output

Operating Voltage

8 = 15(18)...30 VDC

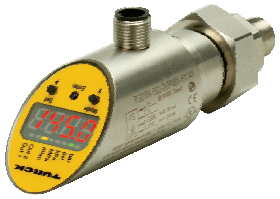
with LED

Connection

H1141 = 4-pin male, M12x1 (***eurofast***®)

PS500 Rotatable Programmable Pressure Sensors

- Great for Hydraulic and Pneumatic Applications
- IP67
- Dual Switch Point Output or Analog Current and One Switchpoint Programmable



Part Number	Operating Range		OverPressure Rating		Set Point Range	Reset Point Range	Fluid Connection	Drawing #
	Bar	PSI	Bar	PSI	PSI	PSI		
PS01VR-503-LI2UPN8X-H1141	0 to -1	0 to -14.5	3	43.5	-0.15 to -14.5	-0.07 to -14.4	1/4"-18 NPT Male	1
PS001R-503-LI2UPN8X-H1141	0 to 1	0 to14.5	3	43.5	0.15 to 14.50	0.07 to14.43	1/4"-18 NPT Male	1
PS001V-503-LI2UPN8X-H1141	-1 to 1	-14.5 to 14.5	3	43.5	-14.21 to 14.50	-14.36 to 14.43	1/4"-18 NPT Male	1
PS003V-503-LI2UPN8X-H1141	-1 to 2.5	-14.5 to 36.25	7	101.5	-13.99 to 36.25	-14.14 to 36.07	1/4"-18 NPT Male	1
PS010V-503-LI2UPN8X-H1141	-1 to 10	-14.5 to 145	25	362.5	-12.91 to 145	-13.05 to 144.28	1/4"-18 NPT Male	1
PS016V-503-LI2UPN8X-H1141	-1 to 16	-14.5 to 232	40	580	-12.04 to 232	-12.18 to 230.84	1/4"-18 NPT Male	1
PS025V-503-LI2UPN8X-H1141	-1 to 25	-14.5 to 362.5	65	942.5	-10.73 to 362.5	-10.88 to 360.69	1/4"-18 NPT Male	1
PS040V-503-LI2UPN8X-H1141	-1 to 40	-14.5 to 580	100	1,450	-8.55 to 580	-8.70 to 577.1	1/4"-18 NPT Male	1
PS100R-503-LI2UPN8X-H1141	0 to 100	0 to 1,450	250	3,625	14.5 to 1,450	7.25 to 1,442.75	1/4"-18 NPT Male	1
PS250R-503-LI2UPN8X-H1141	0 to 250	0 to 3,625	625	9,062.5	36.25 to 3,625	18.13 to 3,606.8	1/4"-18 NPT Male	1
PS400R-503-LI2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	1/4"-18 NPT Male	1
PS600R-503-LI2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	1/4"-18 NPT Male	1
PS01VR-505-LI2UPN8X-H1141	0 to-1	0 to -14.5	3	43.5	-0.15 to -14.5	-0.07 to -14.43	7/16"-20 UNF Male	2
PS001R-505-LI2UPN8X-H1141	0 to1	0 to14.5	3	43.5	0.15 to 14.5	0.07 to 14.43	7/16"-20 UNF Male	2
PS001V-505-LI2UPN8X-H1141	-1 to1	-14.5 to 14.5	3	43.5	-14.21 to 14.5	-14.36 to 14.43	7/16"-20 UNF Male	2
PS003V-505-LI2UPN8X-H1141	-1 to2.5	-14.5 to 36.25	7	101.5	-13.99 to 36.25	-14.14 to 36.07	7/16"-20 UNF Male	2
PS010V-505-LI2UPN8X-H1141	-1 to 10	-14.5 to 145	25	362.5	-12.91 to 145	-13.05 to 144.28	7/16"-20 UNF Male	2
PS016V-505-LI2UPN8X-H1141	-1 to 16	-14.5 to 232	40	580	-12.04 to 232	-12.18 to 230.84	7/16"-20 UNF Male	2
PS025V-505-LI2UPN8X-H1141	-1 to 25	-14.5 to 362.5	65	942.5	-10.73 to 362.5	-10.88 to 360.7	7/16"-20 UNF Male	2
PS040V-505-LI2UPN8X-H1141	-1 to 40	-14.5 to 580	100	1,450	-8.55 to 580	-8.70 to 577.1	7/16"-20 UNF Male	2
PS100R-505-LI2UPN8X-H1141	0 to 100	0 to 1,450	250	3,625	14.5 to 1,450	7.25 to 1,442	7/16"-20 UNF Male	2
PS250R-505-LI2UPN8X-H1141	0 to 250	0 to 3,625	625	9,062.5	36.25 to 3,625	18.13 to 3,606	7/16"-20 UNF Male	2
PS400R-505-LI2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	7/16"-20 UNF Male	2
PS600R-505-LI2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	7/16"-20 UNF Male	2

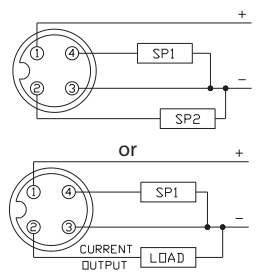
PS500 Pressure Sensor Specifications

Electrical	
Operating Voltage	18-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	Meets NEMA 4, 6, 12, 13 and IP67
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303

Operational continued	
Accuracy	
Set Point Accuracy	±0.5% of Full Scale
Analog Accuracy**	≤±0.5% of Full Scale
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Programmable Analog	
Analog Start Point	Programmable from 0-75% of measuring range
Analog End Point	Programmable from 25-100% of measuring range
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	±0.5% of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second

Wiring Diagram

Wiring Diagram



Mating Cordset:
RK 4.4T-*/S618

Drawings

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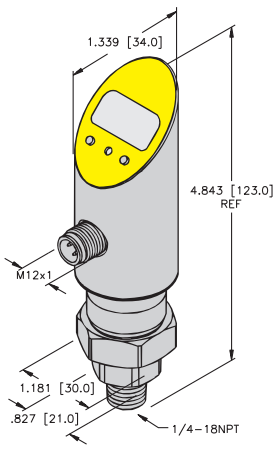

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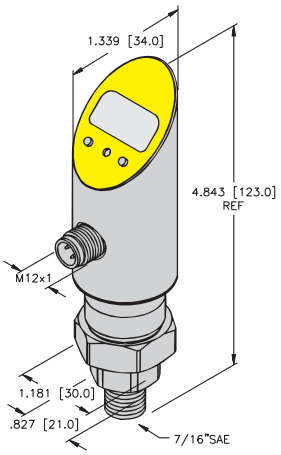
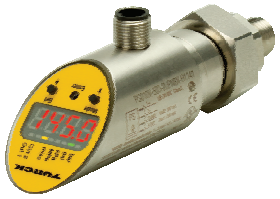


PS500 Rotatable Pressure Sensors

- Great for Hydraulic & Pneumatic Applications
- IP67
- Voltage Analog Output with One Switchpoint



Part Number	Operating Range		Overpressure Rating		Set Point Range	Reset Point Range	Fluid Connection	Drawing #
	Bar	PSI	Bar	PSI	PSI	PSI		
PS01VR-503-LUUPN8X-H1141	0 to -1	0 to -14.5	3	43.5	-0.15 to -14.5	-0.07 to -14.4	1/4"-18 NPT Male	1
PS001R-503-LUUPN8X-H1141	0 to 1	0 to14.5	3	43.5	0.15 to 14.50	0.07 to14.43	1/4"-18 NPT Male	1
PS001V-503-LUUPN8X-H1141	-1 to 1	-14.5 to 14.5	3	43.5	-14.21 to 14.50	-14.36 to 14.43	1/4"-18 NPT Male	1
PS003V-503-LUUPN8X-H1141	-1 to 2.5	-14.5 to 36.25	7	101.5	-13.99 to 36.25	-14.14 to 36.07	1/4"-18 NPT Male	1
PS010V-503-LUUPN8X-H1141	-1 to 10	-14.5 to 145	25	362.5	-12.91 to 145	-13.05 to 144.28	1/4"-18 NPT Male	1
PS016V-503-LUUPN8X-H1141	-1 to 16	-14.5 to 232	40	580	-12.04 to 232	-12.18 to 230.84	1/4"-18 NPT Male	1
PS025V-503-LUUPN8X-H1141	-1 to 25	-14.5 to 362.5	65	942.5	-10.73 to 362.5	-10.88 to 360.69	1/4"-18 NPT Male	1
PS040V-503-LUUPN8X-H1141	-1 to 40	-14.5 to 580	100	1,450	-8.55 to 580	-8.70 to 577.1	1/4"-18 NPT Male	1
PS100R-503-LUUPN8X-H1141	0 to 100	0 to 1,450	250	3,625	14.5 to 1,450	7.25 to 1,442.75	1/4"-18 NPT Male	1
PS250R-503-LUUPN8X-H1141	0 to 250	0 to 3,625	625	9,062.5	36.25 to 3,625	18.13 to 3,606	1/4"-18 NPT Male	1
PS400R-503-LUUPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	1/4"-18 NPT Male	1
PS600R-503-LUUPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	1/4"-18 NPT Male	1
PS01VR-505-LUUPN8X-H1141	0 to-1	0 to -14.5	3	43.5	-0.15 to -14.5	-0.07 to -14.43	7/16"-20 UNF Male	2
PS001R-505-LUUPN8X-H1141	0 to1	0 to14.5	3	43.5	0.15 to 14.5	0.07 to 14.43	7/16"-20 UNF Male	2
PS001V-505-LUUPN8X-H1141	-1 to1	-14.5 to 14.5	3	43.5	-14.21 to 14.5	-14.36 to 14.43	7/16"-20 UNF Male	2
PS003V-505-LUUPN8X-H1141	-1 to2.5	-14.5 to 36.25	7	101.5	-13.99 to 36.25	-14.14 to 36.07	7/16"-20 UNF Male	2
PS010V-505-LUUPN8X-H1141	-1 to 10	-14.5 to 145	25	362.5	-12.91 to 145	-13.05 to 144.28	7/16"-20 UNF Male	2
PS016V-505-LUUPN8X-H1141	-1 to 16	-14.5 to 232	40	580	-12.04 to 232	-12.18 to 230.84	7/16"-20 UNF Male	2
PS025V-505-LUUPN8X-H1141	-1 to 25	-14.5 to 362.5	65	942.5	-10.73 to 362.5	-10.88 to 360.69	7/16"-20 UNF Male	2
PS040V-505-LUUPN8X-H1141	-1 to 40	-14.5 to 580	100	1,450	-8.55 to 580	-8.70 to 577.1	7/16"-20 UNF Male	2
PS100R-505-LUUPN8X-H1141	0 to 100	0 to 1,450	250	3,625	14.5 to 1,450	7.25 to 1,442.75	7/16"-20 UNF Male	2
PS250R-505-LUUPN8X-H1141	0 to 250	0 to 3,625	625	9,062.5	36.25 to 3,625	18.13 to 3,606	7/16"-20 UNF Male	2
PS400R-505-LUUPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	7/16"-20 UNF Male	2
PS600R-505-LUUPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	7/16"-20 UNF Male	2

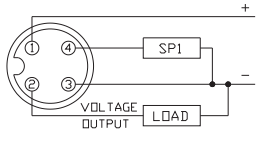
PS500 Pressure Sensor Specifications

Electrical	
Operating Voltage	18-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	Meets NEMA 4, 6, 12, 13 and IP67
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303

Operational continued	
Accuracy	
Set Point Accuracy	±0.5% of Full Scale
Analog Accuracy**	≤±0.5% of Full Scale
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Programmable Analog	
Analog Start Point	Programmable from 0-75% of measuring range
Analog End Point	Programmable from 25-100% of measuring range
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	±0.5% of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	

Wiring Diagram

Wiring Diagram



Mating Cordset:
RK 4.4T-*/S618

Drawings

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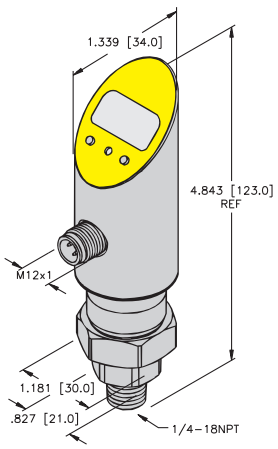

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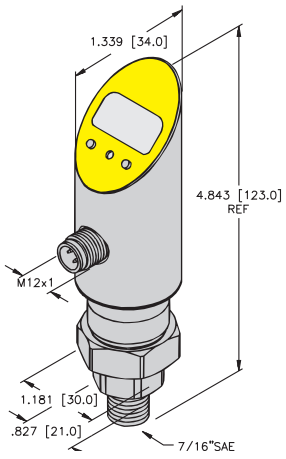
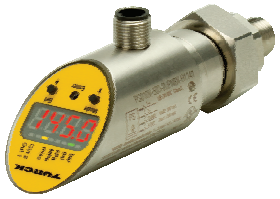


Instrumentation

PS500 Rotatable Programmable Pressure Sensors

- Great for Hydraulic & Pneumatic Application
- IP67
- Dual Switch points



Part Number	Operating Range		Overpressure Rating		Set Point Range	Reset Point Range	Fluid Connection	Drawing #
	Bar	PSI	Bar	PSI	PSI	PSI		
PS01VR-503-2UPN8X-H1141	0 to -1	0 to -14.5	3	43.5	-0.15 to -14.5	-0.07 to -14.4	1/4"-18 NPT Male	1
PS001R-503-2UPN8X-H1141	0 to 1	0 to14.5	3	43.5	0.15 to 14.50	0.07 to14.43	1/4"-18 NPT Male	1
PS001V-503-2UPN8X-H1141	-1 to 1	-14.5 to 14.5	3	43.5	-14.21 to 14.50	-14.36 to 14.43	1/4"-18 NPT Male	1
PS003V-503-2UPN8X-H1141	-1 to 2.5	-14.5 to 36.25	7	101.5	-13.99 to 36.25	-14.14 to 36.07	1/4"-18 NPT Male	1
PS010V-503-2UPN8X-H1141	-1 to 10	-14.5 to 145	25	362.5	-12.91 to 145	-13.05 to 144.28	1/4"-18 NPT Male	1
PS016V-503-2UPN8X-H1141	-1 to 16	-14.5 to 232	40	580	-12.04 to 232	-12.18 to 230.84	1/4"-18 NPT Male	1
PS025V-503-2UPN8X-H1141	-1 to 25	-14.5 to 362.5	65	942.5	-10.73 to 362.5	-10.88 to 360.69	1/4"-18 NPT Male	1
PS040V-503-2UPN8X-H1141	-1 to 40	-14.5 to 580	100	1,450	-8.55 to 580	-8.70 to 577.1	1/4"-18 NPT Male	1
PS100R-503-2UPN8X-H1141	0 to 100	0 to 1,450	250	3,625	14.5 to 1,450	7.25 to 1,442.75	1/4"-18 NPT Male	1
PS250R-503-2UPN8X-H1141	0 to 250	0 to 3,625	625	9,062.5	36.25 to 3,625	18.13 to 3,606	1/4"-18 NPT Male	1
PS400R-503-2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	1/4"-18 NPT Male	1
PS600R-503-2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	1/4"-18 NPT Male	1
PS01VR-505-2UPN8X-H1141	0 to-1	0 to -14.5	3	43.5	-0.15 to -14.5	-0.07 to -14.43	7/16"-20 UNF Male	2
PS001R-505-2UPN8X-H1141	0 to1	0 to14.5	3	43.5	0.15 to 14.5	0.07 to 14.43	7/16"-20 UNF Male	2
PS001V-505-2UPN8X-H1141	-1 to1	-14.5 to 14.5	3	43.5	-14.21 to 14.5	-14.36 to 14.43	7/16"-20 UNF Male	2
PS003V-505-2UPN8X-H1141	-1 to2.5	-14.5 to 36.25	7	101.5	-13.99 to 36.25	-14.14 to 36.07	7/16"-20 UNF Male	2
PS010V-505-2UPN8X-H1141	-1 to 10	-14.5 to 145	25	362.5	-12.91 to 145	-13.05 to 144.28	7/16"-20 UNF Male	2
PS016V-505-2UPN8X-H1141	-1 to 16	-14.5 to 232	40	580	-12.04 to 232	-12.18 to 230.84	7/16"-20 UNF Male	2
PS025V-505-2UPN8X-H1141	-1 to 25	-14.5 to 362.5	65	942.5	-10.73 to 362.5	-10.88 to 360.69	7/16"-20 UNF Male	2
PS040V-505-2UPN8X-H1141	-1 to 40	-14.5 to 580	100	1,450	-8.55 to 580	-8.70 to 577.1	7/16"-20 UNF Male	2
PS100R-505-2UPN8X-H1141	0 to 100	0 to 1,450	250	3,625	14.5 to 1,450	7.25 to 1,442.75	7/16"-20 UNF Male	2
PS250R-505-2UPN8X-H1141	0 to 250	0 to 3,625	625	9,062.5	36.25 to 3,625	18.13 to 3,606	7/16"-20 UNF Male	2
PS400R-505-2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	7/16"-20 UNF Male	2
PS600R-505-2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	7/16"-20 UNF Male	2

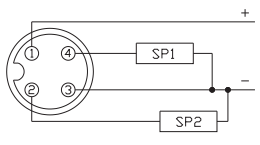
PS500 Programmable Pressure Sensor Specifications

Electrical	
Operating Voltage	15-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	Meets NEMA 4, 6, 12, 13 and IP67
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303

Operational continued	
Accuracy	
Set Point Accuracy	±0.5% Of Full Scale
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	±0.5% Of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	
Measuring Value	4-digit 7-segment display Programming

Wiring Diagram

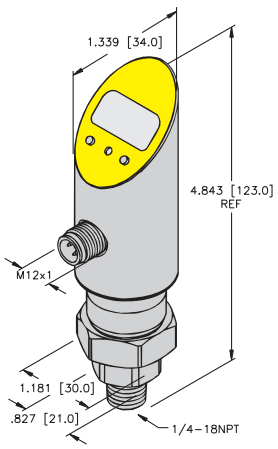
Wiring Diagram



Mating Cordset:
RK 4.4T-*

Drawings

1



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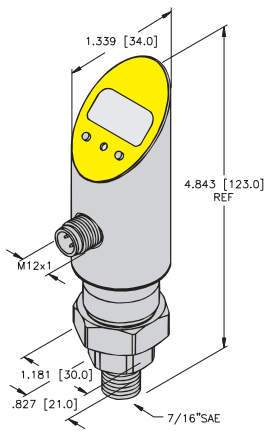
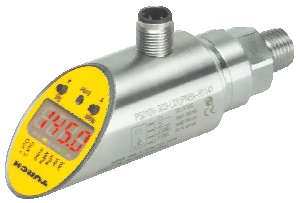


PS300 Programmable Pressure Sensors

- **Great for Hydraulic and Pneumatic Applications**
- **IP69K**
- **Dual Switch Point or Analog Current and One Switch Point Output**



Part Number	Operating Range		Overpressure Rating		Set Point Range	Reset Point Range	Fluid Connection	Drawing #
	Bar	PSI	Bar	PSI	PSI	PSI		
PS01VR-303-LI2UPN8X-H1141	-1 to 0	-14.5 to 0	5.5	79.7	-0.15 to -14.5	-0.07 to -14.4	1/4"-18 NPT Male	1
PS001R-303-LI2UPN8X-H1141	0 to 1	0 to 14.5	5.5	79.7	0.15 to 14.5	0.07 to 14.43	1/4"-18 NPT Male	1
PS001V-303-LI2UPN8X-H1141	-1 to 1	-14.5 to 14.5	5.5	79.7	-14.21 to 14.5	-14.36 to 14.43	1/4"-18 NPT Male	1
PS003V-303-LI2UPN8X-H1141	-1 to 2.5	-14.5 to 36.25	12	101.5	-13.99 to 36.25	-14.14 to 36.07	1/4"-18 NPT Male	1
PS010V-303-LI2UPN8X-H1141	-1 to 10	-14.5 to 145	50	362.5	-12.91 to 145	-13.05 to 144.28	1/4"-18 NPT Male	1
PS016V-303-LI2UPN8X-H1141	-1 to 16	-14.5 to 232	80	580	-12.04 to 232	-12.18 to 230.84	1/4"-18 NPT Male	1
PS025V-303-LI2UPN8X-H1141	-1 to 25	-14.5 to 362.5	120	942.5	-10.73 to 362.5	-10.88 to 360.69	1/4"-18 NPT Male	1
PS040V-303-LI2UPN8X-H1141	-1 to 40	-14.5 to 580	200	1,450	-8.55 to 580	-8.70 to 577.1	1/4"-18 NPT Male	1
PS100R-303-LI2UPN8X-H1141	0 to 100	0 to 1,450	450	3,625	14.5 to 1,450	7.25 to 1,442.75	1/4"-18 NPT Male	1
PS250R-303-LI2UPN8X-H1141	0 to 250	0 to 3,625	800	9,062.5	36.25 to 3,625	18.13 to 3,606	1/4"-18 NPT Male	1
PS400R-303-LI2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	1/4"-18 NPT Male	1
PS600R-303-LI2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	1/4"-18 NPT Male	1
PS01VR-301-LI2UPN8X-H1141	-1 to 0	-14.5 to 0	5.5	79.7	-0.15 to -14.5	-0.07 to -14.4	G1/4" Female	2
PS001R-301-LI2UPN8X-H1141	0 to 1	0 to 14.5	5.5	79.7	0.15 to 14.5	0.07 to 14.43	G1/4" Female	2
PS001V-301-LI2UPN8X-H1141	-1 to 1	-14.5 to 14.5	5.5	79.7	-14.21 to 14.5	-14.36 to 14.43	G1/4" Female	2
PS003V-301-LI2UPN8X-H1141	-1 to2.5	-14.5 to 36.25	12	101.5	-13.99 to 36.25	-14.14 to 36.07	G1/4" Female	2
PS010V-301-LI2UPN8X-H1141	-1 to 10	-14.5 to 145	50	362.5	-12.91 to 145	-13.05 to 144.28	G1/4" Female	2
PS016V-301-LI2UPN8X-H1141	-1 to 16	-14.5 to 232	80	580	-12.04 to 232	-12.18 to 230.84	G1/4" Female	2
PS025V-301-LI2UPN8X-H1141	-1 to 25	-14.5 to 362.5	120	942.5	-10.73 to 362.5	-10.88 to 360.69	G1/4" Female	2
PS040V-301-LI2UPN8X-H1141	-1 to 40	-14.5 to 580	200	1,450	-8.55 to 580	-8.70 to 577.1	G1/4" Female	2
PS100R-301-LI2UPN8X-H1141	0 to 100	0 to 1,450	450	3,625	14.5 to 1,450	7.25 to 1,442.75	G1/4" Female	2
PS250R-301-LI2UPN8X-H1141	0 to 250	0 to 3,625	800	9,062.5	36.25 to 3,625	18.13 to 3,606	G1/4" Female	2
PS400R-301-LI2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	G1/4" Female	2
PS600R-301-LI2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	G1/4" Female	2

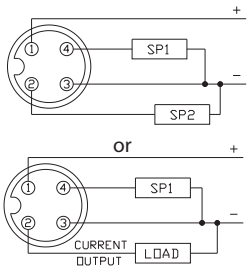
PS300 Programmable Pressure Sensor Specifications

Electrical	
Operating Voltage	18-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	IP69K
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303

Operational continued	
Accuracy	
Set Point Accuracy	±0.5% of Full Scale
Analog Accuracy	≤±0.5% of Full Scale
Response time	<3 ms
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Programmable Analog	
Analog Start Point	Programmable from 0-75% of measuring range
Analog End Point	Programmable from 25-100% of measuring range
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	0.5% of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	
Measuring Value	4-digit 7-segment display
Programming Status Display	LEDs indicate output status and selected measuring units
Display Reaction Time	Slow 600 ms update Normal 200 ms update Fast 50 ms update
I/O Link Parameters	

Wiring Diagram

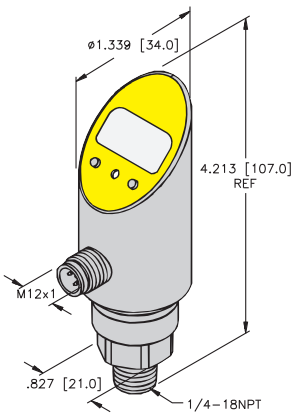
Wiring Diagram



Mating Cordset:
RK 4.4T-*/S618

Drawings

1



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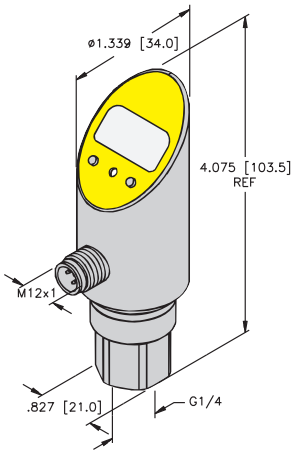
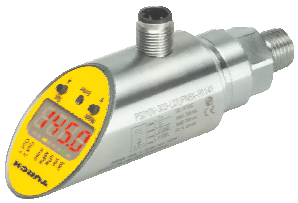


PS300 Programmable Pressure Sensors

- Great for Hydraulic and Pneumatic Applications
- IP69K
- Analog Voltage and One Switch Point Output



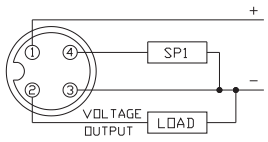
Part Number	Operating Range		OverPressure Rating		Set Point Range	Reset Point Range	Fluid Connection	Drawing #
	Bar	PSI	Bar	PSI	PSI	PSI		
PS01VR-303-LUUPN8X-H1141	-1 to 0	-14.5 to 0	5.5	79.7	-0.15 to -14.5	-0.07 to -14.4	1/4"-18 NPT Male	1
PS001R-303-LUUPN8X-H1141	0 to 1	0 to 14.5	5.5	79.7	0.15 to 14.5	0.07 to 14.43	1/4"-18 NPT Male	1
PS001V-303-LUUPN8X-H1141	-1 to 1	-14.5 to 14.5	5.5	79.7	-14.21 to 14.5	-14.36 to 14.43	1/4"-18 NPT Male	1
PS003V-303-LUUPN8X-H1141	-1 to 2.5	-14.5 to 36.25	12	101.5	-13.99 to 36.25	-14.14 to 36.07	1/4"-18 NPT Male	1
PS010V-303-LUUPN8X-H1141	-1 to 10	-14.5 to 145	50	362.5	-12.91 to 145	-13.05 to 144.28	1/4"-18 NPT Male	1
PS016V-303-LUUPN8X-H1141	-1 to 16	-14.5 to 232	80	580	-12.04 to 232	-12.18 to 230.84	1/4"-18 NPT Male	1
PS025V-303-LUUPN8X-H1141	-1 to 25	-14.5 to 362.5	120	942.5	-10.73 to 362.5	-10.88 to 360.69	1/4"-18 NPT Male	1
PS040V-303-LUUPN8X-H1141	-1 to 40	-14.5 to 580	200	1,450	-8.55 to 580	-8.70 to 577.1	1/4"-18 NPT Male	1
PS100R-303-LUUPN8X-H1141	0 to 100	0 to 1,450	450	3,625	14.5 to 1,450	7.25 to 1,442.75	1/4"-18 NPT Male	1
PS250R-303-LUUPN8X-H1141	0 to 250	0 to 3,625	800	9,062.5	36.25 to 3,625	18.13 to 3,606.88	1/4"-18 NPT Male	1
PS400R-303-LUUPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	1/4"-18 NPT Male	1
PS600R-303-LUUPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	1/4"-18 NPT Male	1
PS01VR-301-LUUPN8X-H1141	-1 to 0	-14.5 to 0	5.5	79.7	-0.15 to -14.5	-0.07 to -14.4	G1/4" Female	2
PS001R-301-LUUPN8X-H1141	0 to 1	0 to 14.5	5.5	79.7	0.15 to 14.5	0.07 to 14.43	G1/4" Female	2
PS001V-301-LUUPN8X-H1141	-1 to 1	-14.5 to 14.5	5.5	79.7	-14.21 to 14.5	-14.36 to 14.43	G1/4" Female	2
PS003V-301-LUUPN8X-H1141	-1 to2.5	-14.5 to 36.25	12	101.5	-13.99 to 36.25	-14.14 to 36.07	G1/4" Female	2
PS010V-301-LUUPN8X-H1141	-1 to 10	-14.5 to 145	50	362.5	-12.91 to 145	-13.05 to 144.28	G1/4" Female	2
PS016V-301-LUUPN8X-H1141	-1 to 16	-14.5 to 232	80	580	-12.04 to 232	-12.18 to 230.84	G1/4" Female	2
PS025V-301-LUUPN8X-H1141	-1 to 25	-14.5 to 362.5	120	942.5	-10.73 to 362.5	-10.88 to 360.69	G1/4" Female	2
PS040V-301-LUUPN8X-H1141	-1 to 40	-14.5 to 580	200	1,450	-8.55 to 580	-8.70 to 577.1	G1/4" Female	2
PS100R-301-LUUPN8X-H1141	0 to 100	0 to 1,450	450	3,625	14.5 to 1,450	7.25 to 1,442.75	G1/4" Female	2
PS250R-301-LUUPN8X-H1141	0 to 250	0 to 3,625	800	9,062.5	36.25 to 3,625	18.13 to 3,606	G1/4" Female	2
PS400R-301-LUUPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	G1/4" Female	2
PS600R-301-LUUPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	G1/4" Female	2

PS300 Programmable Pressure Sensor Specifications

Electrical	
Operating Voltage	18-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	IP69K
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303

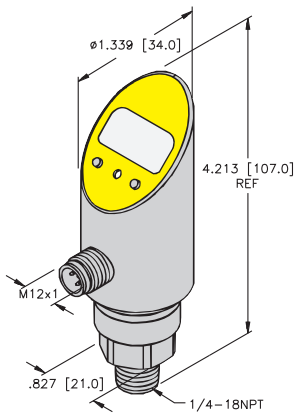
Operational continued	
Accuracy	
Set Point Accuracy	±0.5% of Full Scale
Analog Accuracy**	≤±0.5% of Full Scale
Response time	<3 ms
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Programmable Analog	
Analog Start Point	Programmable from 0-75% of measuring range
Analog End Point	Programmable from 25-100% of measuring range
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	0.5% of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	
Measuring Value	4-digit 7-segment display
Programming Status Display	LEDs indicate output status and selected measuring units
Display Reaction Time	Slow 600 ms update Normal 200 ms update Fast 50 ms update

Wiring Diagram



Drawings

1



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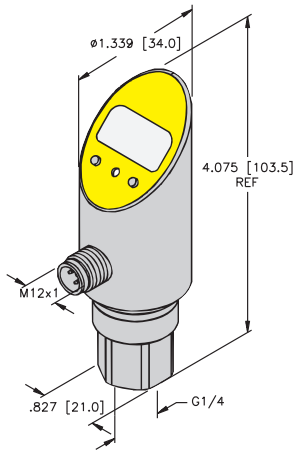
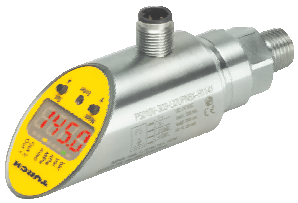


PS300 Programmable Pressure Sensors

- Great for Hydraulic and Pneumatic Applications
- IP69K
- Dual Switch Point Output



Part Number	Operating Range		Overpressure Rating		Set Point Range	Reset Point Range	Fluid Connection	Drawing #
	Bar	PSI	Bar	PSI	PSI	PSI		
PS01VR-303-2UPN8X-H1141	-1 to 0	-14.5 to 0	5.5	79.7	-0.15 to -14.5	-0.07 to -14.4	1/4"-18 NPT Male	1
PS001R-303-2UPN8X-H1141	0 to 1	0 to 14.5	5.5	79.7	0.15 to 14.5	0.07 to 14.43	1/4"-18 NPT Male	1
PS001V-303-2UPN8X-H1141	-1 to 1	-14.5 to 14.5	5.5	79.7	-14.21 to 14.5	-14.36 to 14.43	1/4"-18 NPT Male	1
PS003V-303-2UPN8X-H1141	-1 to 2.5	-14.5 to 36.25	12	101.5	-13.99 to 36.25	-14.14 to 36.07	1/4"-18 NPT Male	1
PS010V-303-2UPN8X-H1141	-1 to 10	-14.5 to 145	50	362.5	-12.91 to 145	-13.05 to 144.28	1/4"-18 NPT Male	1
PS016V-303-2UPN8X-H1141	-1 to 16	-14.5 to 232	80	580	-12.04 to 232	-12.18 to 230.84	1/4"-18 NPT Male	1
PS025V-303-2UPN8X-H1141	-1 to 25	-14.5 to 362.5	120	942.5	-10.73 to 362.5	-10.88 to 360.69	1/4"-18 NPT Male	1
PS040V-303-2UPN8X-H1141	-1 to 40	-14.5 to 580	200	1,450	-8.55 to 580	-8.70 to 577.1	1/4"-18 NPT Male	1
PS100R-303-2UPN8X-H1141	0 to 100	0 to 1,450	450	3,625	14.5 to 1,450	7.25 to 1,442.75	1/4"-18 NPT Male	1
PS250R-303-2UPN8X-H1141	0 to 250	0 to 3,625	800	9,062.5	36.25 to 3,625	18.13 to 3,606	1/4"-18 NPT Male	1
PS400R-303-2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	1/4"-18 NPT Male	1
PS600R-303-2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	1/4"-18 NPT Male	1
PS01VR-301-2UPN8X-H1141	-1 to 0	-14.5 to 0	5.5	79.7	-0.15 to -14.5	-0.07 to -14.4	G1/4" Female	2
PS001R-301-2UPN8X-H1141	0 to 1	0 to 14.5	5.5	79.7	0.15 to 14.5	0.07 to 14.43	G1/4" Female	2
PS001V-301-2UPN8X-H1141	-1 to 1	-14.5 to 14.5	5.5	79.7	-14.21 to 14.5	-14.36 to 14.43	G1/4" Female	2
PS003V-301-2UPN8X-H1141	-1 to2.5	-14.5 to 36.25	12	101.5	-13.99 to 36.25	-14.14 to 36.07	G1/4" Female	2
PS010V-301-2UPN8X-H1141	-1 to 10	-14.5 to 145	50	362.5	-12.91 to 145	-13.05 to 144.28	G1/4" Female	2
PS016V-301-2UPN8X-H1141	-1 to 16	-14.5 to 232	80	580	-12.04 to 232	-12.18 to 230.84	G1/4" Female	2
PS025V-301-2UPN8X-H1141	-1 to 25	-14.5 to 362.5	120	942.5	-10.73 to 362.5	-10.88 to 360.69	G1/4" Female	2
PS040V-301-2UPN8X-H1141	-1 to 40	-14.5 to 580	200	1,450	-8.55 to 580	-8.70 to 577.1	G1/4" Female	2
PS100R-301-2UPN8X-H1141	0 to 100	0 to 1,450	450	3,625	14.5 to 1,450	7.25 to 1,442.75	G1/4" Female	2
PS250R-301-2UPN8X-H1141	0 to 250	0 to 3,625	800	9,062.5	36.25 to 3,625	18.13 to 3,606	G1/4" Female	2
PS400R-301-2UPN8X-H1141	0 to 400	0 to 5,800	900	13,050	58 to 5,800	29 to 5,771	G1/4" Female	2
PS600R-301-2UPN8X-H1141	0 to 600	0 to 8,700	900	13,050	87 to 8,700	43.5 to 8,656.5	G1/4" Female	2

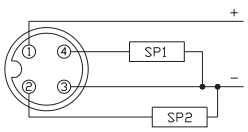
PS300 Programmable Pressure Sensor Specifications

Electrical	
Operating Voltage	15-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	IP69K
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6

Operational continued	
Accuracy	
Set Point Accuracy	±0.5% Of Full Scale
Analog Accuracy**	≤±0.5% Of Full Scale
Response time	<3 ms
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	0.5%
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	
Measuring Value/	4-digit 7-segment display
Programming Status Display	LEDs indicate output status and selected measuring units
Display Reaction Time	Slow 600 ms update Normal 200 ms update Fast 50 ms update
I/O Link Parameters	

Wiring Diagram

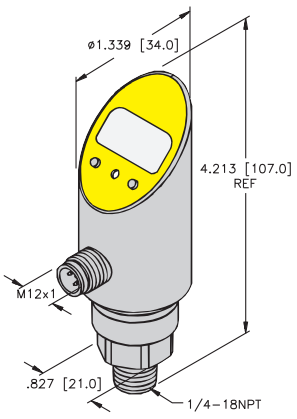
Wiring Diagram



Mating Cordset:
RK 4.4T-*

Drawings

1



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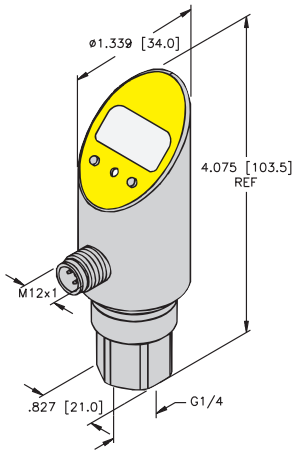


TTM - Miniature Temperature Transmitters

- 4-20 mA output
- Two wire loop power
- IP67

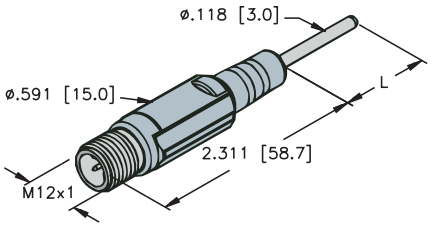
Part Number	Temperature Range (°C)	Process Connection	Probe Length (mm)	Drawing
TTM100C-203A-CF-LI6-H1140-L100	0-100	Compression Fitting	100	1
TTM150C-203A-CF-LI6-H1140-L100	0-150	Compression Fitting	100	1
TTM150C-203A-CF-LI6-H1140-L100-50…150°C	-50-150	Compression Fitting	100	1
TTM050C-203A-CF-LI6-H1140-L100-50…50°C	-50-50	Compression Fitting	100	1
TTM100C-206A-CF-LI6-H1140-L050	0-100	Compression Fitting	50	2
TTM100C-206A-CF-LI6-H1140-L100	0-100	Compression Fitting	100	2
TTM150C-206A-CF-LI6-H1140-L100	0-150	Compression Fitting	100	2
TTM150C-206A-CF-LI6-H1140-L100-50…150°C	-50-150	Compression Fitting	100	2
TTM050C-206A-CF-LI6-H1140-L100-50…50°C	-50-50	Compression Fitting	100	2
TTM100C-203A-CF-LI6-H1140-L150	0-100	Compression Fitting	150	1
TTM150C-203A-CF-LI6-H1140-L150	0-150	Compression Fitting	150	1
TTM150C-203A-CF-LI6-H1140-L150-50…150°C	-50-150	Compression Fitting	150	1
TTM050C-203A-CF-LI6-H1140-L150-50…50°C	-50-50	Compression Fitting	150	1
TTM100C-206A-CF-LI6-H1140-L150	0-100	Compression Fitting	150	2
TTM150C-206A-CF-LI6-H1140-L150	0-150	Compression Fitting	150	2
TTM150C-206A-CF-LI6-H1140-L150-50…150°C	-50-150	Compression Fitting	150	2
TTM050C-206A-CF-LI6-H1140-L150-50…50°C	-50-50	Compression Fitting	150	2
TTM100C-103A-G1/8-LI6-H1140-L013	0-100	G 1/8"	13	3
TTM100C-103A-N1/4-LI6-H1140-L013	0-100	1/4 NPT	13	4
TTM050C-103A-G1/8-LI6-H1140-L013-50…50°C	-50-50	G 1/8"	13	3
TTM100C-103A-G1/8-LI6-H1140-L024	0-100	G 1/8"	24	3
TTM100C-103A-N1/4-LI6-H1140-L024	0-100	1/4 NPT	24	4
TTM050C-103A-G1/8-LI6-H1140-L024-50…50°C	-50-50	G 1/8"	24	3

Specifications

Electrical	
Operating Voltage	10-24 VDC
No-load current	≤20 mA
Current Output	4-20 mA
Short-circuit Protection	Yes
Reverse Polarity Protection	Yes
Environmental	
Accuracy (Lin. + Hys. + Rep.)	< ± 0.1% of final value BFSL
Accuracy	Class A
Ambient Temperature	-40 to +80 °C
Storage Temperature	-40 to +80 °C

Drawings

1



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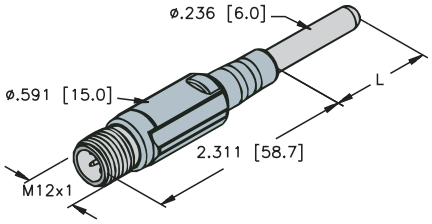

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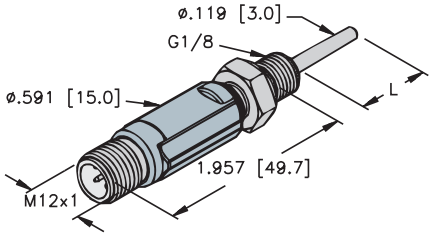

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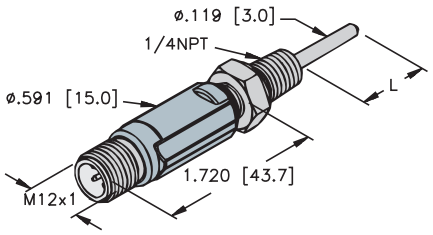
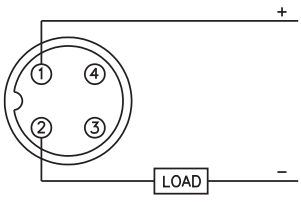
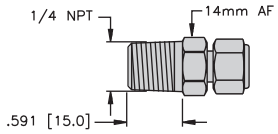
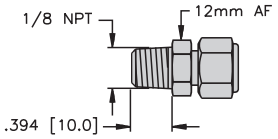
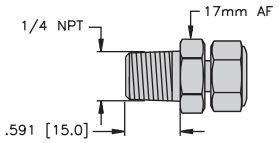
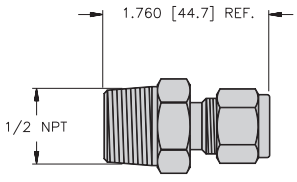


L = Probe length, see table on previous page.

Wiring Diagram



Compression Fittings

Housing Style	Part Number	ID Number	Compatible Probe Diameter	Compression Fitting	Temperature Range	Pressure Rating (psi)
Compression Fitting, 1/4" Male NPT 	CF-M-3-N1/4-A4	M9910408	3 mm	Metal	350°C (662°F)	580
	CF-P-3-N1/4-A4	M9910412	3 mm	PTFE	100°C (212°F)	87
Compression Fitting, 1/8" Male NPT 	CF-M-3-N1/8-A4	M9910406	3 mm	Metal	350°C (662°F)	580
	CF-P-3-N1/8-A4	M9910410	3 mm	PTFE	100°C (212°F)	87
Compression Fitting, 1/4" Male NPT 	CF-M-6-N1/4-A4	M9910484	6 mm	Metal	350°C (662°F)	580
	CF-P-6-N1/4-A4	M9910486	6 mm	PTFE	100°C (212°F)	87
Compression Fitting, 1/2" Male NPT 	CF-M-6-N1/2-A4	A0950	6 mm	Metal	350°C (662°F)	580

Note: Material is AISI 316L/1.4404

CONNECTIVITY

Weld Slag Protection

TURCK connectivity offers many different levels of weld slag protection. You'll find M12x1 ***eurofast***®, 1/2-20UNF ***microfast***®, 7/8-16UN ***minifast***® cordsets and the following options:

- CPE, TPE, or Armor cables
- PTFE coated coupling nuts
- Protective sleeving, tubing and tape

Connectivity Selection Guide 144 - 157

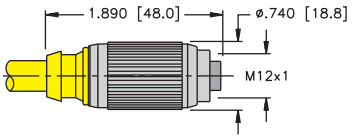
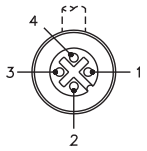
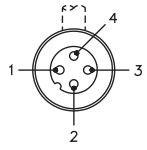
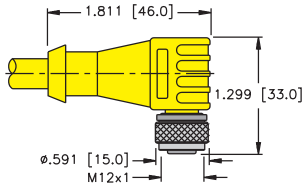
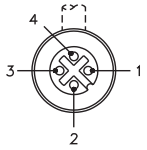
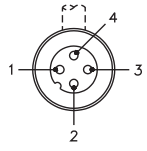
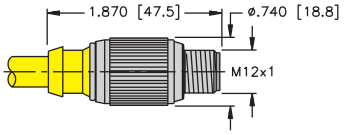
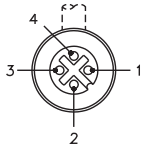
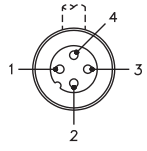
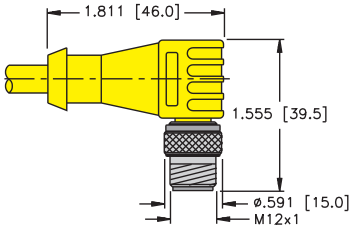



Style	*eurofast*® Cordsets	*microfast*® Cordsets	*minifast*® Cordsets	Accessories
Pages	145-148	149	150-151	153-156

TURCK
Industrial Connectivity Products

3 and 4-Wire *eurofast*® Cordsets, Large, Robust Plug Body

- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **250 VAC/VDC, 4 A**

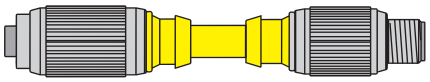
Housing Style	Part Number	Cable	Features	Pinout	
RKG ..** 	RKG 4T-*/S600	**SJOOW, CPE Yellow 3x18 AWG 105 °C 8.0 mm OD Cable #RF50654-*M**	***Weld Flash Immune, Flame Resistance***	1. BN 2. N/C 3. BU 4. BK	
	WKE 4T-*/S600				
	RSG 4T-*/S600				
	WSE 4T-*/S600				
WKE ..** 	RKG 4.4T-*/S600	**SJOOW, CPE Yellow 4x18 AWG 105 °C 8.5 mm OD Cable #RF50644-*M**		1. BN 2. WH 3. BU 4. BK	
	WKE 4.4T-*/S600				
	RSG 4.4T-*/S600				
	WSE 4.4T-*/S600				
RSG ..** 	RKG 4.4T-*/S1587	**ITC TPE Yellow 4x18 AWG 105 °C 6.9 mm OD Cable #RF50956-*M**	***weldlife, Weld Flash Immune***	1. BN 2. WH 3. BU 4. BK	
	WKE 4.4T-*/S1587				
	RSG 4.4T-*/S1587				
	WSE 4.4T-*/S1587				
WSE ..** 					

* 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/WKE/RSG/WSE.."; "RKGV/WKEV/RSGV/WSEV.." indicates 316 stainless steel.

Add "/S1077" to end of part number for silicone tubing assembled to pigtail or extension cordsets up to 4 meters (0.5 meter min. on extensions).

Extension Example:



RKG .. - RSG ..

RKG | 4T | - | 0.3 | - | RSG | 4T | /S600

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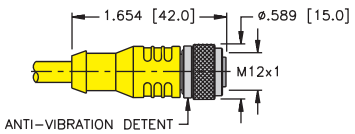
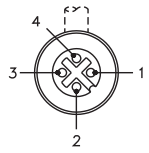
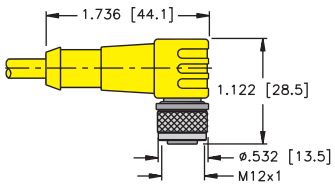
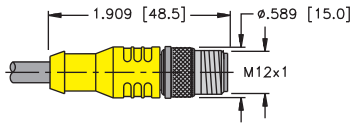
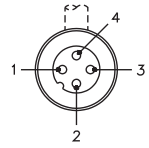
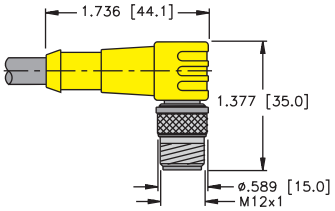
See pages B11-B12 in the Connectivity catalog (B2005) for more extension examples.

TURCK
Industrial Automation

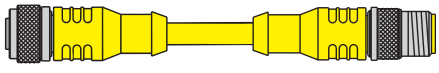
4-Wire *eurofast*® Cordsets, "C" Style Medium Plug Body

- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **250 VAC/VDC, 4 A**

Housing Style	Part Number	Cable	Features	Pinout	
RKC ..** 	RKC 4.4T-*/S1587	**ITC TPE Yellow 4x18 AWG 105 °C 6.9 mm OD Cable #RF50956-*M**	***Weld Flash Immune***	1. BN 2. WH 3. BU 4. BK	
WKC ..** 	WKC 4.4T-*/S1587				
RSC ..** 	RSC 4.4T-*/S1587				
WSC ..** 	WSC 4.4T-*/S1587				

* 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/WK/RS/WS.."; "RKV/WKV/RSV/WSV.." indicates 316 stainless steel.
Add "/S1092" to the end of part number for PTFE coated coupling nuts.
Add "/S1077" to end of part number for silicone tubing assembled to pigtail or extension cordsets up to 4 meters (0.5 meter min. on extensions).

Extension Example:



RKC .. - RSC ..

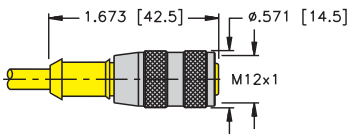
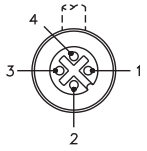
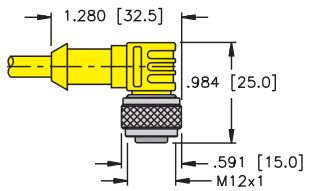
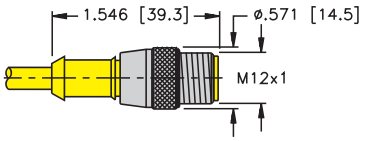
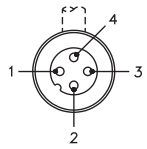
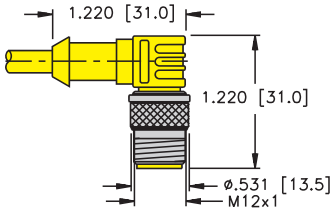
RKC | 4.4T | - | 0.3 | - | RSC | 4.4T | /S1587

See pages B11-B12 in the Connectivity catalog (B2005) for more extension examples.

TURCK
Industrial Connectivity Products

4-Wire *eurofast*® Cordsets, Standard Plug Body

- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **250 VAC/VDC, 4 A**

Housing Style	Part Number	Cable	Features	Pinout	
RK ..** 	RK 4.4T-*/S1587	**ITC TPE Yellow 4x22 AWG 105 °C 5.3 mm OD Cable #RF51132-*M**	**weldlife, Weld Flash Immune**	1. BN 2. WH 3. BU 4. BK	
WK ..** 	WK 4.4T-*/S1587				
RS ..** 	RS 4.4T-*/S1587				
WS ..** 	WS 4.4T-*/S1587				

* 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/WK/RS/WS.."; "RKV/WKV/RSV/WSV.." indicates 316 stainless steel.
Add "/S1077" to end of part number for silicone tubing assembled to pigtail or extension cordsets up to 4 meters (0.5 meter min. on extensions).

Extension Example:

RK .. - RS ..

RK | 4.4T | - | 2 | - | RS | 4.4T | /S1587

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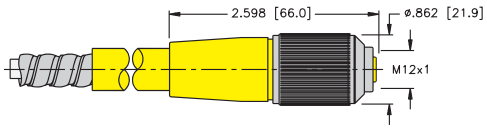
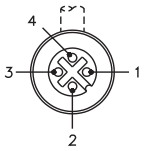
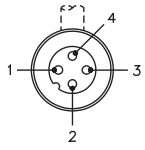
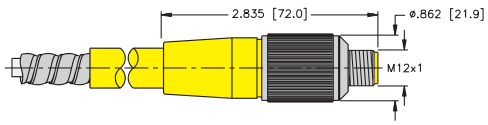
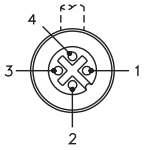
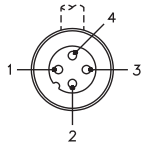
See pages B11-B12 in the Connectivity catalog (B2005) for more extension examples.

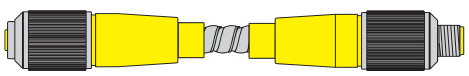
3 and 4-Wire *eurofast*® Cordsets, Extreme Duty Armored Plug Body

- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **250 VAC/VDC, 4 A**

Housing Style	Part Number	Cable	Features	Pinout	
RKA ..** 	RKA 4A-*	**Interlock Al Armor ITC/PLTC/ERDB/ACIC PVC Yellow 3x18 AWG 105 °C 14.9 mm OD Cable #RF51040-*M**	***Extreme Duty Armored Cable, Tray Rated Cable***	1. BK 2. N/C 3. WH 4. GN	
	RSA 4A-*				
RSA ..** 	RKA 4.4A-*	**Interlock Al Armor ITC/PLTC/ERDB/ACIC PVC Yellow 4x18 AWG 105 °C 15.2 mm OD Cable #RF51041-*M**		1. BK 2. RD 3. WH 4. GN	
	RSA 4.4A-*				

* 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.
** Standard coupling nut material is nickel plated brass "RKA/RSA"; "RKAV/RSAV" indicates 316 stainless steel.

Sacrificial Extension Example:



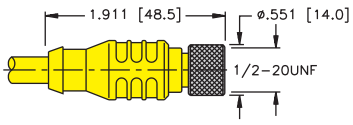
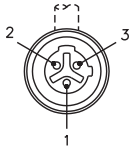
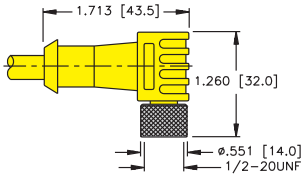
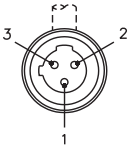
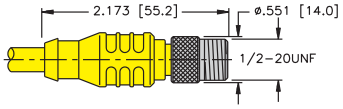
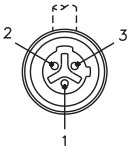
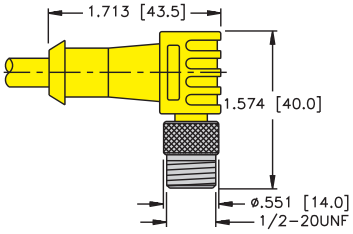
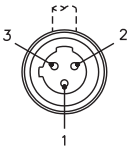
RKA .. - RSA ..

RKA | 4.4A | - | 0.5 | - | RSA | 4.4A

Connectivity

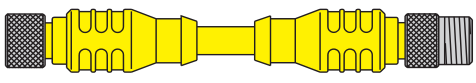
3-Wire *microfast*® Cordsets, Large Plug Body

- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **250 VAC/VDC, 4 A**

Housing Style	Part Number	Cable	Features	Pinout	
KBE ..** 	KBE 3T-*/S600	**SJOOW, CPE Yellow 3x18 AWG 105 °C 8.0 mm OD Cable #RF50658-*M**	***Weld Flash Immune, Flame Resistance, Automotive Color Code***	1. GN 2. RD/BK 3. RD/WH	
WKBE ..** 	WKBE 3T-*/S600				
	SBE 3T-*/S600				
	WSBE 3T-*/S600				
SBE ..** 	KBE 3T-*/S1587				
	WKBE 3T-*/S1587	**ITC TPE Yellow 3x18 AWG 105 °C 6.2 mm OD Cable #RF50957-*M**	***weldlife, Weld Flash Immune, Automotive Color Code***		
WSBE..** 	SBE 3T-*/S1587				
	WSBE 3T-*/S1587				

* 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.
Add "/S1077" to end of part number for silicone tubing assembled to pigtail or extension cordsets up to 4 meters (0.5 meter min. on extensions).

Extension Example:



KBE .. - SBE ..

KBE | 3T | - | 2 | - | SBE | 3T | /S600

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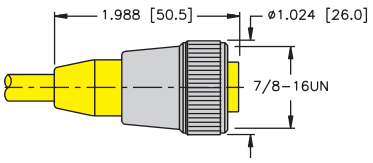
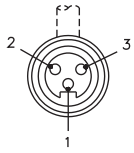
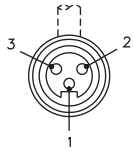
See pages F7-F8 in the Connectivity catalog (B2005) for more extension examples.

3-Wire *minifast*® Cordsets, Standard

- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **300 VAC/VDC, 9 A**

Housing Style	Part Number	Cable	Features	Pinout	
RKM 31 ..** 	RKM 31-*M/S600	**SJOOW, CPE Yellow 3x18 AWG 105 °C 8.0 mm OD Cable #RF50654-*M**	***Weld Flash Immune, Flame Resistance***	1. BK 2. BN 3. BU	
	WKM 31-*M/S600				
	RSM 31-*M/S600				
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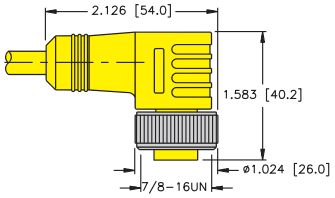
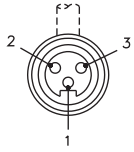
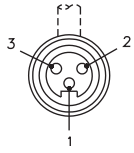
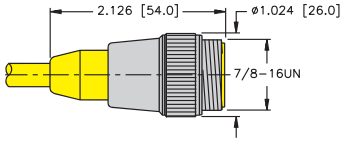
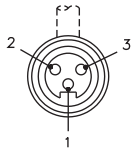
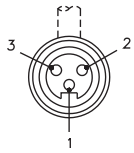
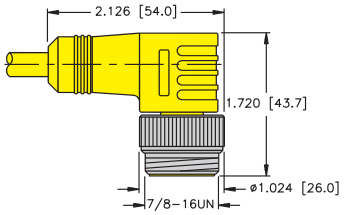
WKM 31 ..** 	RKM 311-*M/S600	**SJOOW, CPE Yellow 3x18 AWG 105 °C 8.0 mm OD Cable #RF50658-*M**	***Weld Flash Immune, Flame Resistance, Automotive Color Code***	1. GN 2. RD/BK 3. RD/WH	
	WKM 311-*M/S600				
	RSM 311-*M/S600				
	WSM 311-*M/S600				
RSM 31 ..** 	RKM 311-*M/S1587	**ITC TPE Yellow 3x18 AWG 105 °C 6.2 mm OD Cable #RF50957-*M**	***weldlife, Weld Flash Immune, Automotive Color Code***	1. GN 2. RD/BK 3. RD/WH	
	WKM 311-*M/S1587				
	RSM 311-*M/S1587				
WSM 31 ..** 	WSM 311-*M/S1587				

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

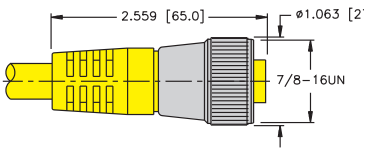
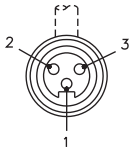
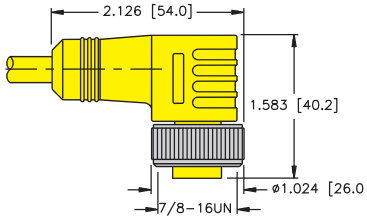
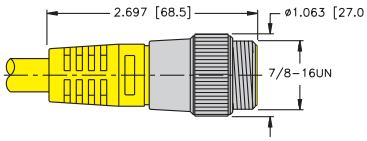
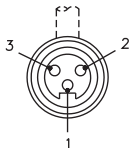
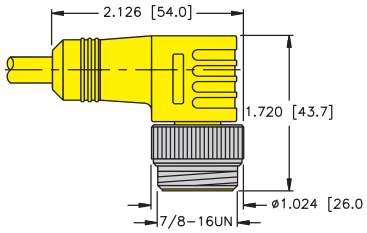
** Standard coupling nut material is nickel plated brass "RKM/WKM/RSM/WSM.."; "RK/WK/RS/WS.." indicates nylon and "RKV/WKV/RSV/WSV.." indicates 316 stainless steel.

Add "/S1077" to end of part number for silicone tubing assembled to pigtail or extension cordsets up to 4 meters (0.5 meter min. on extensions).

TURCK
Industrial Connectivity Products

3-Wire *minifast*® Cordsets, Heavy Duty

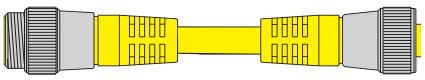
- **NEMA 1, 3, 4, 6P and IEC IP68 Protection**
- **600 VAC/VDC, 9 A**

Housing Style	Part Number	Cable	Features	Pinout	
RKM 35 ..** 	RKM 35-*M/S600	**SJOOW, CPE Yellow 3x16 AWG 105 °C 10.3 mm OD Cable #RF50596-*M**	***Weld Flash Immune, Flame Resistance***	1. GN 2. RD 3. RD	
WKM 35 ..** 	WKM 35-*M/S600				
RSM 35 ..** 	RSM 35-*M/S600				
WSM 35 ..** 	WSM 35-*M/S600				

* 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 "RKM/WKM/RSM/WSM.."; "RK/WK/RS/WS.." indicates nylon and "RKV/WKV/RSV/WSV.." indicates 316 stainless steel.

Extension Example:



RSM .. - RKM ..

RSM | RKM | 35 | - | 2M | /S600

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See pages E7-E8 in the Connectivity catalog (B2005) for more extension examples.

Notes:

Braided Fiberglass Sleeving (Bulk)

Viton Coated

Part Number	Specifications	Application	Features
FFV 1/4INCH BLACK 50 FOOT ROLL† FFV 1/4INCH BLACK (10/BAG-6IN)†	**Viton (fluoroelastomer) coated, braided fiberglass, black 1/4" diameter -70 to +220°C NEMA TF-1**	**Protective sleeving for insulation of cable.**	***Excellent chemical and solvent resistance, coating offers improved flexibility and protection throughout a wide operating temperature range.***
FFV 3/8INCH BLACK 50 FOOT ROLL† FFV 3/8INCH BLACK (10/BAG-6IN)†	**Viton (fluoroelastomer) coated, braided fiberglass, black 3/8" diameter -70 to +220°C NEMA TF-1**		
FFV 1/2INCH BLACK 50 FOOT ROLL† FFV 1/2INCH BLACK (10/BAG-6IN)†	**Viton (fluoroelastomer) coated, braided fiberglass, black 1/2" diameter -70 to +220°C NEMA TF-1**		
FFV 5/8INCH BLACK 50 FOOT ROLL† FFV 5/8INCH BLACK (10/BAG-6IN)†	**Viton (fluoroelastomer) coated, braided fiberglass, black 5/8" diameter -70 to +220°C NEMA TF-1**		
FFV 1INCH BLACK 50 FOOT ROLL† FFV 1INCH BLACK (10/BAG-6IN)†	**Viton (fluoroelastomer) coated, braided fiberglass, black 1" diameter -70 to +220°C NEMA TF-1**		
FFV 1 1/2INCH BLACK 50 FOOT ROLL† FFV 1 1/2INCH BLACK (10/BAG-6IN)†	**Viton (fluoroelastomer) coated, braided fiberglass, black 1 1/2" diameter -70 to +220°C NEMA TF-1**		

Acryl Coated

Part Number	Specifications	Application	Features
FF 3/4INCH BLACK (10/BAG)† FF 3/4INCH BLACK 50 FOOT ROLL†	**Acryl-coated braided fiberglass 3/4" diameter -70 to +240°C NEMA TF-1**	**Protective sleeving for insulation of cable.**	***Excellent chemical and solvent resistance.***
FF 1/2INCH BLACK (10/BAG)† FF 1/2INCH BLACK 50 FOOT ROLL†	**Acryl-coated braided fiberglass 1/2" diameter -70 to +240°C NEMA TF-1**		

MSDS sent upon request.
† Sleeving part numbers only; cordset not included.

Expandable Silicone Rubber Coated, Fiberglass Sleeving (Bulk)

Part Number	Specifications	Application	Features
FFFS WHT ID 3/8-INCH-30M † FFFS WHT ID 3/8-INCH (10/BAG-6IN)†	**Fiberglass braid, silicone rubber coating, white 3/8" diameter, -55 to +200°C NEMA TF-1**	**Expandable silicone coated fiberglass sleeving for protection of cable and coupling nut.**	***"Heat shrink" like fit with abrasion, moisture, cut-through chemical and weld slag resistance.***
FFFS WHT ID 5/8-INCH-30M † FFFS WHT ID 5/8-INCH (10/BAG-6IN)†	**Fiberglass braid, silicone rubber coating, white 5/8" diameter, -55 to +200°C NEMA TF-1**		
FFFS BLK ID 3/4-INCH-30M † FFFS BLK ID 3/4-INCH (10/BAG-6IN)†	**Fiberglass braid, silicone rubber coating, black 3/4" diameter, -55 to +200°C NEMA TF-1**		
FFFS BLK ID 1-INCH-30M † FFFS BLK ID 1-INCH (10/BAG-6IN)†	**Fiberglass braid, silicone rubber coating, black 1" diameter, -55 to +200°C NEMA TF-1**		

† Sleeving part numbers only; cordset not included.

Silicone Tubing (*Bulk)

Part Number	Specifications	Application	Features
ST ID 1/4-INCH-30M † ST ID 1/4-INCH (10/BAG-6IN)†	**Silicone rubber tubing, translucent 1/4" diameter UL**	**Protective tubing for insulation of cable.**	***Excellent weld slag resistance.***
ST ID 3/8-INCH-30M † ST ID 3/8-INCH (10/BAG-6IN)†	**Silicone rubber tubing, translucent 3/8" diameter UL**		
ST ID 1/2-INCH-30M † ST ID 1/2-INCH (10/BAG-6IN)†	**Silicone rubber tubing, translucent 1/2" diameter UL**		
ST ID 3/4-INCH-30M † ST ID 3/4-INCH (10/BAG-6IN)†	**Silicone rubber tubing, translucent 3/4" diameter UL**		

Add "/S1077" to end of part number to get silicone tubing assembled to pigtail or extension cordsets up to 4 meters (***picofast***®, ***eurofast***®, ***microfast***® and ***minifast***®; 0.5 meter min. on extensions).

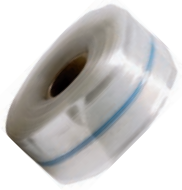
† Sleeving part numbers only; cordset not included.

Weld Shield Sleeve - Hook and Loop Closure

Part Number	Specifications	Application	Features
FFW 1INC 2FOOT	**Plain weave fiberglass, neoprene coated, black 1" Bundle OD, 3.25" circumference 4" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**	**Appliable sleeve for protection of cable.**	***Sleeve offers excellent resistance to abrasion, water, most chemicals, heat, sparks, and flame in a wide operating temperature range, while being lightweight, tough and highly flexible.***
FFW 2INC 2FOOT	**Plain weave fiberglass, neoprene coated, black 2" Bundle OD, 6" circumference 7.75" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		
FFW 3INC 2FOOT*	**Plain weave fiberglass, neoprene coated, black 3" Bundle OD, 9.4" circumference 11" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		
FFW 4INC 2FOOT*	**Plain weave fiberglass, neoprene coated, black 4" Bundle OD, 12.5" circumference 14" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		
FFW 5INC 2FOOT	**Plain weave fiberglass, neoprene coated, black 5" Bundle OD, 15.75" circumference 17.25" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		
FFW 6INC 2FOOT	**Plain weave fiberglass, neoprene coated, black 6" Bundle OD, 18.8" circumference 20.375" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		
FFW 7INC 2FOOT	**Plain weave fiberglass, neoprene coated, black 7" Bundle OD, 22" circumference 23.5" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		
FFW 8INC 2FOOT	**Plain weave fiberglass, neoprene coated, black 8" Bundle OD, 25.125" circumference 26.625" Sleeve Width Flat, Tested to ISO 6945 -40°C to +204°C Temperature Resistance**		

* 25 foot spool also available.

Weld Seal Tape



Part Number	Specifications	Application	Features
FST 1IN 12YARDS	**Silicone rubber, Clear 1" width, 12 yard length, -40°C to +204°C**	**Appliable clear tape protecting open areas between silicone tubing and mold.**	***Tape offers excellent resistance to water, most chemicals, heat, sparks, and flame in a wide operating temperature range, while being lightweight, and highly flexible.***

Notes:

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TURCK Welding Solutions
Index

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