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Industrial
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DieGuard™
Protection
Sensing

TURCK DieGuard™ SENSORS





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**NEED A MORE
RELIABLE WAY TO PROTECT
YOUR EXPENSIVE DIES?**

TURCK
DieGuard
SENSORS

Protect Your Die Investment with Rugged TURCK Sensors

With all the time and money spent on your dies, protecting them with affordable, easy-to-apply **TURCK DieGuard™** sensors is a smart investment. From our miniature 4 mm diameter barrel sensors, to our ultra-narrow **Q-Pak™** Series, rugged **TURCK** sensors are designed for feed, slug, stripper plate and part-out detection applications—preventing double hits and crashes.

TURCK sensors can be embedded in dies or positioned around them in the tightest spaces. Able to withstand severe shock and vibration, fully-encapsulated **TURCK** sensors are sealed against harsh liquids and the sensing field is completely immune to oil.

Don't rely on luck. Go to www.turck.com, or call 1-800-544-7769.

www.turck.com/dieguard



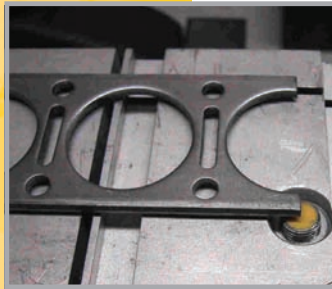
....Sense It!....Connect It!....Bus It!

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TURCK DieGuard™ SENSORS

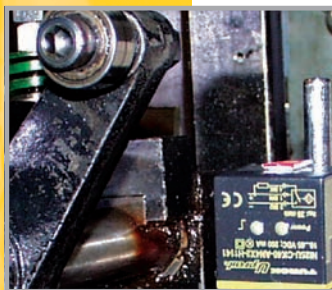
Metal Forming Sensors Common Applications



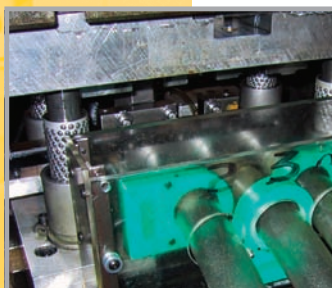
**Inductive proximity
sensor used for strip feed**



**Inductive proximity
sensor used for strip feed,
N.O. switch**

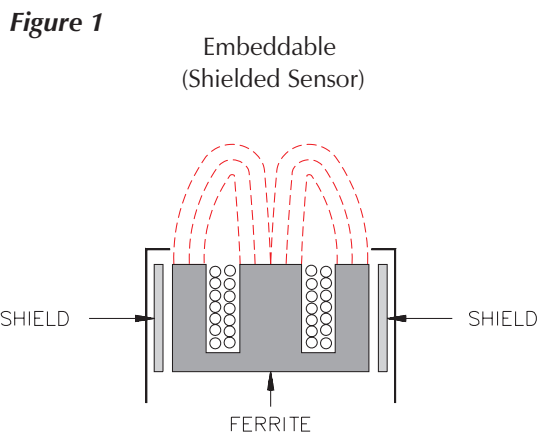


Material feed monitoring

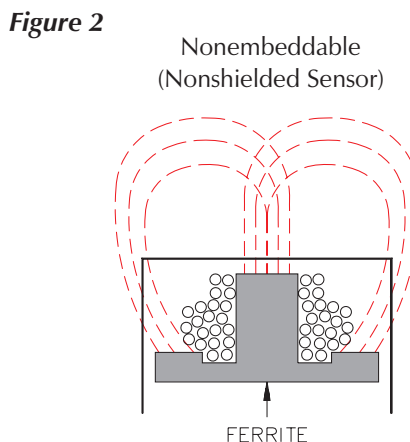


**Ring type inductive
proximity sensor used
for part out detection**

Embeddable (Shielded) vs. Nonembeddable (Nonshielded)



Embeddable construction includes a metal band that surrounds the ferrite core and coil arrangement. This helps to “bundle” or direct the electromagnetic field to the front of the sensor.

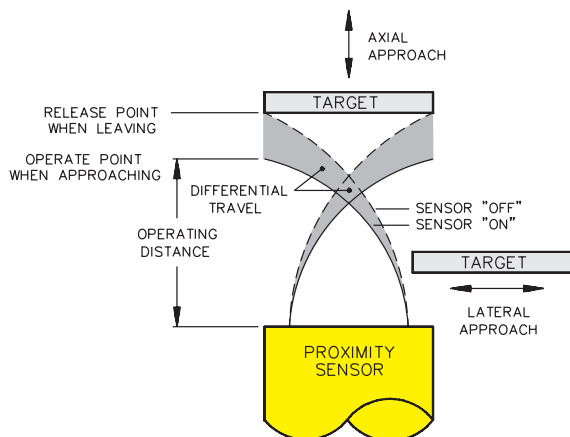


Nonembeddable sensors do not have a metal band; therefore, they have a longer operating distance and are side sensitive.

Differential Travel (Hysteresis)

Figure 3

The difference between the “operate” and “release” points is called differential travel (see shaded area in Figure 3). It is factory set at less than 15% of the effective operating distance. Differential travel is needed to keep proximity sensors from “chattering” when subjected to shock and vibration, slow moving targets, or minor disturbances such as electrical noise and temperature drift.



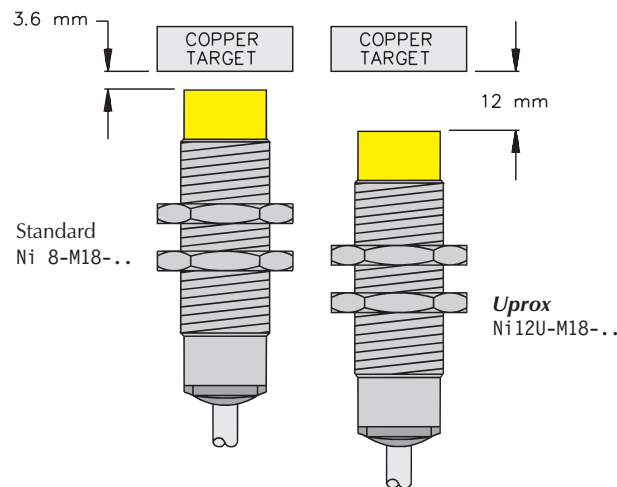
Actuation Mode

Inductive sensors can be actuated in an axial or lateral approach (see Figure 3). It is important to maintain an air gap between the target and the sensing face to prevent physically damaging the sensors.

Uprox[®] Characteristics

- **No Correction Factor** - Same rated operating distance for all metals.
- **Extended Operating Distance** - Up to 400% greater than standard inductive sensors when using non-ferrous targets (Figure 4).
- **Weld Field Immunity** - *Uprox* is unaffected by strong electromagnetic AC or DC fields because of its unique patented design.
- **High Switching Frequencies** - Up to 10 times faster than standard inductive sensors.
- **Extended Temperature Range** - *Uprox* can withstand temperatures up to 85°C (+185°F) with a ±15% temperature drift.

Figure 4

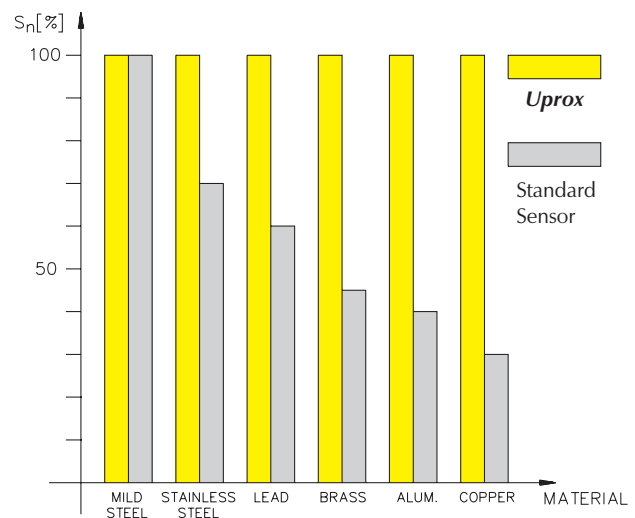


Operating Principle *Uprox*

TURCK *Uprox* is a patented next generation development of inductive sensors that uses a three-coil system. One coil induces eddy currents on the metal target and the other two coils are affected by these eddy currents. Ferrous and nonferrous metals have the same effect on the two coils. Therefore, all metals, including galvanized metals, have the same rated operating distance.

TURCK standard inductive sensors use a single coil randomly wound around a ferrite core. The single coil both induces eddy currents on the metal target and is affected by these eddy currents. Ferrous and nonferrous metals affect the sensor differently, making it impossible to detect both types of metals at the same rated operating distance.

Figure 5



Operating distances comparison of *Uprox* sensors and standard inductive sensors.

Operating Distance (Sensing Range) Considerations

The operating distance (S) of the different models is basically a function of the diameter of the sensing coil. Maximum operating distance is achieved with the use of a standard or larger target. Rated operating distance (Sn) for each model is given in the manual. **When using a proximity sensor the target should be within the assured range (Sa).**

Standard Target

A square piece of mild steel having a thickness of 1 mm (0.04 in) is used as a standard target to determine the following operating tolerances. The length and width of the square is equal to either the diameter of the circle inscribed on the active surface of the sensing face or three times the rated operating distance Sn, whichever is greater.

Operating Distance = S

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

Rated Operating Distance = Sn

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

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

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

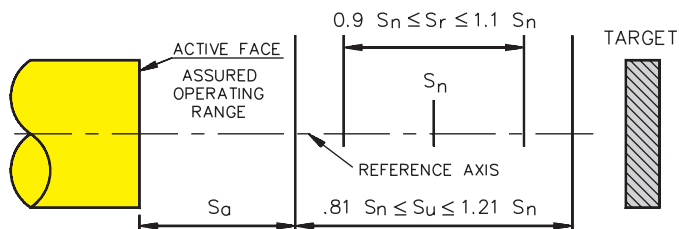
Usable Operating Distance = Su $0.81 S_n \leq S_u \leq 1.21 S_n$

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

Assured Operating Range = Sa $0 \leq S_a \leq 0.81 S_n$

The assured actuating range is between 0 and 81% of the rated operating distance. It is the range within which the correct operation of the proximity sensor under specified voltage and temperature ranges is assured.

Figure 6



Notes:

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Note: All dimensions in this manual are shown as: **inches [mm]**

Sensor Selection Guide

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Rectangular Style

Q5.5



See Drawing #1a & 1b

Q5.5 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 2-Q5.5-AN6X Bi 2-Q5.5K-AP6X Bi 2-Q5.5K-AN6X	S1613100 S1613015 S1613016
	PNP Diagram B	Bi 2-Q5.5-AP6X Bi 2-Q5.5-AP6X/S34 ²⁾	S1613000 S1613001

Q5.5 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3.5 mm (.138) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Ni 3.5-Q5.5-AN6X	S4613610
	PNP Diagram B	Ni 3.5-Q5.5-AP6X	S4613601

Q06



See Drawing #2

Q06 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 2 Cable ····· PUR Jacket	NPN Diagram A	Bi 3-Q06-AN6X2	S1620150
	PNP Diagram B	Bi 3-Q06-AP6X2	S1620100

Q6.5



See Drawing #3

Q6.5 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1 mm (.039) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 0 Cable ····· PUR Jacket	NPN Diagram A	Bi 1-Q6.5-AN6	S4613420
	PNP Diagram B	Bi 1-Q6.5-AP6 Bi 1-Q6.5-AP6/S34 ²⁾	S4613400 S4613401

Q6.5 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 0 Cable ····· PUR Jacket	NPN Diagram A	Ni 2-Q6.5-AN6	S4613520
	PNP Diagram B	Ni 2-Q6.5-AP6 Ni 2-Q6.5-AP6/S34 ²⁾	S4613500 S1650023

Notes:

1. **Uprox** technology. Sense all metals at the same range. Inherently weld-field immune.
2. "/S34" designates weld-field immune sensor.
3. All products available with Normally Closed output. Consult **TURCK**.
4. For detailed dimensional drawings see pages 25-30.
5. For wiring diagrams see pages 31-32.
6. For sensor activation point details see pages 33-39.

Rectangular Style

Q08 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 5...) ··· 5 mm (.197) Sensing Range (Bi 7...) ··· 7 mm (.276) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 2 Cable ····· PUR Jacket	NPN Diagram A	Bi 5U-Q08-AN6X2 ¹⁾	S1608911
		Bi 7-Q08-AN6X2	S1601620
	PNP Diagram B	Bi 5U-Q08-AP6X2 ¹⁾	S1608901
		Bi 5-Q08-AP6X2/S34 ²⁾	S1600800
		Bi 7-Q08-AP6X2	S1601600

Q08



See Drawing #4

Q08 with Snap-lock <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 5...) ··· 5 mm (.197) Sensing Range (Bi 7...) ··· 7 mm (.276) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 2	NPN Diagram C	Bi 5U-Q08-AN6X2-V1131 ¹⁾	S1608910
		Bi 5-Q08-AN6X2-V1131	S1600600
		Bi 7-Q08-AN6X2-V1131	S1601622
	PNP Diagram D	Bi 5U-Q08-AP6X2-V1131 ¹⁾	S1608900
		Bi 5-Q08-AP6X2-V1131	S1600500
		Bi 7-Q08-AP6X2-V1131	S1601602

Q08



See Drawing #5

Q08 with threaded <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 5...) ··· 5 mm (.197) Sensing Range (Bi 7...) ··· 7 mm (.276) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 2	NPN Diagram C	Bi 5-Q08-AN6X2-V2131	S1600602
		Bi 7-Q08-AN6X2-V2131	S1601623
	PNP Diagram D	Bi 5-Q08-AP6X2-V2131	S1600502
		Bi 7-Q08-AP6X2-V2131	S1601603

Q08



See Drawing #6

Q08-ES with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 3...) ··· 3 mm (.118) Power Supply ····· 10-30 VDC Number of LEDs ····· 0 Cable ····· PUR Jacket	Analog	Bi 3-Q08-ES-0.2	M1044601
		Bi 3-Q08-ES-1.22	M1044602

Q08-ES



See Drawing #7

To be used only with Helm Microscan

Q08-ES with Amphenol Connector (31-342-RFX)	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 3...) ··· 3 mm (.197) Power Supply ····· 10-30 VDC Number of LEDs ····· 0 Cable ····· PUR Jacket	Analog	Bi 3-Q08-ES-0.2/S1027 ⁴⁾	M1044691

Q08-ES



See Drawing #8

Notes:

1. *Uprox* technology. Sense all metals at the same range. Inherently weld-field immune.
2. "/S34" designates weld-field immune sensor.
3. All products available with Normally Closed output. Consult **TURCK**.
4. "/S1027" defines a BNC connector.
5. For detailed dimensional drawings see pages 25-30.
6. For wiring diagrams see pages 31-32.
7. For sensor activation point details see pages 33-39.

Rectangular Style

Q8SE



See Drawing #9

Q8SE with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount	NPN Diagram A	Ni 4U-Q8SE-AN6X	S4635809
Sensing Range ····· 4 mm (.157)			
Power Supply ····· 10-30 VDC (3-wire)	PNP Diagram B	Ni 4U-Q8SE-AP6X	S4635807
Number of LEDs ····· 1			
Cable ····· PUR Jacket			

Q9.5



See Drawing #10

Rectangular Style with Potted-In Cable	Output	Part Number	ID #
Installation ····· Non-Flush Mount	PNP Diagram B	Ni 2-Q9.5-AP6/S34 ¹⁾	S1650077
Sensing Range ····· 2 mm (.079)			
Power Supply ····· 10-30 VDC (3-wire)			
Number of LEDs ····· 0			
Cable ····· PUR Jacket			

Q10S



See Drawing #11

Rectangular Style with Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount	NPN Diagram A	Bi 2-Q10S-AN6X	S1619310
Sensing Range ····· 2 mm (.079)			
Power Supply ····· 10-30 VDC (3-wire)	PNP Diagram B	Bi 2-Q10S-AP6X	S1609360
Number of LEDs ····· 1			
Cable ····· PUR Jacket			

CA40



See Drawing #12 & 13

Rectangular Style with <i>minifast</i> ® Connector	Output	Part Number	ID #
Installation ····· Flush Mount	AC Diagram G	Bi20-CA4080-ADZ30X2-B1131 Bi20-CA40130-ADZ30X2-B1131/S1009	T4283400 T4283503
Sensing Range ····· 20 mm (.787)			
Power Supply ····· 20-250 VAC 10-300 VDC (2-wire)			
Number of LEDs ····· 2			

Notes:

1. "/S34" designates weld-field immune sensor.
2. All products available with Normally Closed output. Consult **TURCK**.
3. **Uprox** technology. Sense all metals at the same range. Inherently weld-field immune.
4. For detailed dimensional drawings see pages 25-30.
5. For wiring diagrams see pages 31-32.
6. For sensor activation point details see pages 33-39.

Smooth Barrel Style

EH04 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1 mm (.039) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	5V TTL Diagram A	Bi 1-EH03-AN7X	S1619323
	5V TTL Diagram B	Bi 1-EH03-AP7X	S1619322

EH03



See Drawing #14

EH04 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1 mm (.039) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 1-EH04-AN6X	S4609640
	PNP Diagram B	Bi 1-EH04-AP6X	S4609540

EH04



See Drawing #15

EH6.5 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 1.5-EH6.5-AN6X	S4612100
		Bi 2-EH6.5-AN6X	S4612300
	PNP Diagram B	Bi 1.5-EH6.5-AP6X	S4612000
		Bi 2-EH6.5-AP6X	S4612200

EH6.5



See Drawing #16

EH6.5 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Ni 3-EH6.5-AN6X	S4612500
	PNP Diagram B	Ni 3-EH6.5-AP6X	S4612400

EH6.5



See Drawing #17

EH6.5K with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 1.5-EH6.5K-AN6X	S4610640
		Bi 1.5-EH6.5K-AP6X	S4610100
	PNP Diagram B	Bi 1.5-EH6.5K-AP6X	S4610540
		Bi 2-EH6.5K-AP6X	S4610000

EH6.5K



See Drawing #18

EH6.5K with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Ni 3-EH6.5K-AN6X	S4610300
	PNP Diagram B	Ni 3-EH6.5K-AP6X	S4610200

EH6.5K



See Drawing #19

Notes:

1. All products available with Normally Closed output. Consult **TURCK**.
2. For detailed dimensional drawings see pages 25-30.
3. For wiring diagrams see pages 31-32.
4. For sensor activation point details see pages 33-39.

Smooth Barrel Style

EH08



See Drawing #20

EH08 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1.5 mm (.059) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram A	Bi 1.5-H08-AN6X	S1614300
Cable ····· PUR Jacket	PNP Diagram B	Bi 1.5-H08-AP6X	S1604300

H08



See Drawing #21

EH08 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram A	Ni 3-H08-AN6X	S1614900
Cable ····· PUR Jacket	PNP Diagram B	Ni 3-H08-AP6X	S1604900

H08K



See Drawing #22

EH08K with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram A	Ni 2-H08K-AN6X	S1614700
Cable ····· PUR Jacket	PNP Diagram B	Ni 2-H08K-AP6X	S1604700

EH04



See Drawing #23

EH04 with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1 mm (.039) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1-EH04-AN6X-V1331	S4608540
	PNP Diagram D	Bi 1-EH04-AP6X-V1331	S4608440

EH6.5



See Drawing #24

EH6.5 with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1.5-EH6.5-AN6X-V1131 Bi 2-EH6.5-AN6X-V1131	S4612120 S4612320
	PNP Diagram D	Bi 1.5-EH6.5-AP6X-V1131 Bi 2-EH6.5-AP6X-V1131	S4612020 S4612220

Notes:

1. All products available with Normally Closed output. Consult **TURCK**
2. For detailed dimensional drawings see pages 25-30.
3. For wiring diagrams see pages 31-32.
4. For sensor activation point details see pages 33-39.

Smooth Barrel Style

EH6.5 with <i>picofast</i> ® Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Ni 3-EH6.5-AN6X-V1131	S4612520
	PNP Diagram D	Ni 3-EH6.5-AP6X-V1131	S4612420

EH6.5



See Drawing #25

EH6.5K with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1.5-EH6.5K-AN6X-V1131 Bi 2-EH6.5K-AN6X-V1131	S4610840 S4610120
	PNP Diagram D	Bi 1.5-EH6.5K-AP6X-V1131 Bi 2-EH6.5K-AP6X-V1131	S4610740 S4610020

EH6.5K



See Drawing #26

EH6.5K with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Ni 3-EH6.5K-AN6X-V1131	S4610320
	PNP Diagram D	Ni 3-EH6.5K-AP6X-V1131	S4610220

EH6.5K



See Drawing #27

H08K with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1.5 mm (.059) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1.5-H08K-AN6X-V1131	S1604340
	PNP Diagram D	Bi 1.5-H08K-AP6X-V1131	S1604330

H08K



See Drawing #28

H08K with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Ni 2-H08K-AN6X-V1131	S1614800
	PNP Diagram D	Ni 2-H08K-AP6X-V1131	S1604800

H08K



See Drawing #29

Notes:

1. All products available with Normally Closed output. Consult **TURCK**.
2. For detailed dimensional drawings see pages 25-30.
3. For wiring diagrams see pages 31-32.
4. For sensor activation point details see pages 33-39.

Threaded Barrel Style

EG05



See Drawing #30

EG05 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1 mm (.039) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 1-EG05-AN6X	S4609840
	PNP Diagram B	Bi 1-EG05-AP6X	S4609740

EG08



See Drawing #31

EG08 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 1.5U-EG08-AN6X ¹⁾	S4600510
		Bi 1.5-EG08-AN6X	S4602340
		Bi 2-EG08-AN6X	S4602140
	PNP Diagram B	Bi 1.5U-EG08-AP6X ¹⁾	S4600500
		Bi 1.5-EG08-AP6X	S4602240
		Bi 2-EG08-AP6X Bi 2-EG08-AP6X/S374 ³⁾	S4602040 S4602009

EG08



See Drawing #32

EG08 with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range (Ni 3...) ··· 3 mm (.118) Sensing Range (Ni 3...) ··· 4 mm (.157) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Ni 3-EG08-AN6X	S4602840
		Ni 4U-EG08-AN6X ¹⁾	S4600610
	PNP Diagram B	Ni 3-EG08-AP6X	S4602740
		Ni 4U-EG08-AP6X ¹⁾	S4600600

EG08K



See Drawing #33

EG08K with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Bi 1.5-EG08K-AN6X	S4669140
		Bi 2-EG08K-AN6X	S4669500
	PNP Diagram B	Bi 1.5-EG08K-AP6X	S4669040
		Bi 2-EG08K-AP6X	S4669400

EG08K



See Drawing #34

EG08K with Potted-In Cable Connection	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1 Cable ····· PUR Jacket	NPN Diagram A	Ni 3-EG08K-AN6X	S4669700
	PNP Diagram B	Ni 3-EG08K-AP6X	S4669600

Notes:

1. **Uprox** technology. Sense all metals at the same range. Inherently weld-field immune.
2. All products available with Normally Closed output. Consult **TURCK**
3. "/S374" Cable diameter 3 mm.
4. For detailed dimensional drawings see pages 25-30.
5. For wiring diagrams see pages 31-32.
6. For sensor activation point details see pages 33-39.

Threaded Barrel Style

EG05 with <i>picofast</i> ® Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1 mm (.039) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1-EG05-AN6X-V1331	S4608740
	PNP Diagram D	Bi 1-EG05-AP6X-V1331	S4608640

EG05



See Drawing #35

EG08 with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1.5U-EG08-AN6X-V1131 ¹⁾	S4600530
		Bi 1.5-EG08-AN6X-V1131	S4602350
		Bi 2-EG08-AN6X-V1131	S4602150
	PNP Diagram D	Bi 1.5U-EG08-AP6X-V1131 ¹⁾	S4600520
		Bi 1.5-EG08-AP6X-V1131	S4602220
		Bi 2-EG08-AP6X-V1131	S4602050

EG08



See Drawing #36

EG08 with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range (Ni 3...) ··· 1.5 mm (.118) Sensing Range (Ni 4...) ··· 4 mm (.157) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Ni 3-EG08-AN6X-V1131	S4602850
		Ni 4U-EG08-AN6X-V1131 ¹⁾	S4600630
	PNP Diagram D	Ni 3-EG08-AP6X-V1131	S4602750
		Ni 4U-EG08-AP6X-V1131 ¹⁾	S4600620

EG08



See Drawing #37

EG08K with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range (Bi 1.5...) ··· 1.5 mm (.059) Sensing Range (Bi 2...) ··· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 1.5-EG08K-AN6X-V1131	S4672540
		Bi 2-EG08K-AN6X-V1131	S4669550
	PNP Diagram D	Bi 1.5-EG08K-AP6X-V1131	S4672440
		Bi 2-EG08K-AP6X-V1131	S4669450

EG08K



See Drawing #38

EG08K with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 3 mm (.118) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Ni 3-EG08K-AN6X-V1131	S4669750
	PNP Diagram D	Ni 3-EG08K-AP6X-V1131	S4669650

EG08K



See Drawing #39

Notes:

1. **Uprox** technology. Sense all metals at the same range. Inherently weld-field immune.
2. All products available with Normally Closed output. Consult **TURCK**.
3. For detailed dimensional drawings see pages 25-30.
4. For wiring diagrams see pages 31-32.
5. For sensor activation point details see pages 33-39.

Threaded Barrel Style

EG08



See Drawing #40

EG08 with <i>eurofast</i> ® Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 1.5 mm (.059) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram E	Bi 1.5U-EG08-AN6X-H1341 ¹⁾	S4600550
	PNP Diagram F	Bi 1.5U-EG08-AP6X-H1341 ¹⁾	S4600540

EG08



See Drawing #41

EG08 with <i>eurofast</i> Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 4 mm (.157) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram E	Ni 4U-EG08-AN6X-H1341 ¹⁾	S4600650
	PNP Diagram F	Ni 4U-EG08-AP6X-H1341 ¹⁾	S4600640

G12



See Drawing #42

G12 with <i>picofast</i> ® Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Bi 2-G12-AN6X-V1131	T4635583
	PNP Diagram D	Bi 2-G12-AP6X-V1131	T4606597

G12



See Drawing #43

G12 with <i>picofast</i> Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount Sensing Range ····· 5 mm (.197) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram C	Ni 5-G12-AN6X-V1131	T4635721
	PNP Diagram D	Ni 5-G12-AP6X-V1131	T4635690

G12



See Drawing #44

G12 with <i>eurofast</i> Connector	Output	Part Number	ID #
Installation ····· Flush Mount Sensing Range ····· 2 mm (.079) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram E	Bi 2-G12-AN6X-H1141	T4606693
	PNP Diagram F	Bi 2-G12-AP6X-H1141	T4606595

Notes:

1. **Uprox** technology. Sense all metals at the same range. Inherently weld-field immune.
2. All products available with Normally Closed output. Consult **TURCK**.
3. For detailed dimensional drawings see pages 25-30.
4. For wiring diagrams see pages 31-32.
5. For sensor activation point details see pages 33-39.

Threaded Barrel Styles

G12 with eurofast Connector	Output	Part Number	ID #
Installation ····· Non-Flush Mount	NPN Diagram E	Ni 5-G12-AN6X-H1141	T4635793
Sensing Range ····· 5 mm (.197)		PNP Diagram F	Ni 5-G12-AP6X-H1141
Power Supply ····· 10-30 VDC (3-wire)			
Number of LEDs ····· 1			

G12



See Drawing #45

Threaded & Smooth Side Sensing Barrel Styles

HS540 with Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount	NPN Diagram A	Bi 1-HS540-AN6X	S4604101
Sensing Range ····· 1 mm (.039)		PNP Diagram B	Bi 1-HS540-AP6X
Power Supply ····· 10-30 VDC (3-wire)			
Number of LEDs ····· 1			
Cable ····· PUR Jacket			

HS540



See Drawing #46

HS865 with Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount	NPN Diagram A	Bi 1.5-HS865-AN6X	S4604301
Sensing Range ····· 1.5 mm (.059)		PNP Diagram B	Bi 1.5-HS865-AP6X
Power Supply ····· 10-30 VDC (3-wire)			
Number of LEDs ····· 1			
Cable ····· PUR Jacket			

HS865



See Drawing #47

GS880 with Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount	NPN Diagram A	Bi 1.5-GS880-AN6X	S4604501
Sensing Range ····· 1.5 mm (.059)		PNP Diagram B	Bi 1.5-GS880-AP6X
Power Supply ····· 10-30 VDC (3-wire)			
Number of LEDs ····· 1			
Cable ····· PUR Jacket			

GS880



See Drawing #48

Notes:

1. All products available with Normally Closed output. Consult **TURCK**.
2. For detailed dimensional drawings see pages 25-30.
3. For wiring diagrams see pages 31-32.
4. For sensor activation point details see pages 33-39.

Rectangular Style Ring Sensors

Q14



See Drawing #49

Q14 with Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Minimum Target Size: (Bi 6...) ····· 6.1 mm (.240) (Bi 10...) ····· 10.1 mm (.398) (Bi 15...) ····· 15.1 mm (.594) (Bi 20...) ····· 20.1 mm (.791) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 2	NPN Diagram A	Bi 6R-Q14-AN6X2 Bi 10R-Q14-AN6X2 Bi 15R-Q14-AN6X2 Bi 20R-Q14-AN6X2	M1406020 M1406120 M1406220 M1406320
	PNP Diagram B	Bi 6R-Q14-AP6X2 Bi 10R-Q14-AP6X2 Bi 15R-Q14-AP6X2 Bi 20R-Q14-AP6X2	M1406000 M1406100 M1406200 M1406300

Q20



See Drawing #50

Q20 with eurofast® Connector	Output	Part Number	ID #
Installation ····· Flush Mount Minimum Target Size ··· 30.1 mm (1.185) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 2	NPN Diagram E	Bi 30R-Q20-AN6X2-H1141	M1407520
	PNP Diagram F	Bi 30R-Q20-AP6X2-H1141	M1407500

W30



See Drawing #51

W30 with eurofast Connector	Output	Part Number	ID #
Installation ····· Flush Mount Minimum Target Size: (Bi 6...) ····· 6.1 mm (.240) (Bi10...) ····· 10.1 mm (.398) (Bi15...) ····· 15.1 mm (.594) (Bi20...) ····· 20.1 mm (.791) (Bi30...) ····· 30.1 mm (1.185) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 1	NPN Diagram E	Bi 6R-W30-DAN6X-H1141 Bi 10R-W30-DAN6X-H1141 Bi 15R-W30-DAN6X-H1141 Bi 20R-W30-DAN6X-H1141 Bi 30R-W30-DAN6X-H1141	M1403700 M1403900 M1404100 M1404300 M1404500
	PNP Diagram F	Bi 6R-W30-DAP6X-H1141 Bi 10R-W30-DAP6X-H1141 Bi 15R-W30-DAP6X-H1141 Bi 20R-W30-DAP6X-H1141 Bi 30R-W30-DAP6X-H1141	M1403600 M1403800 M1404000 M1404200 M1404500

Notes:

1. For detailed dimensional drawings see pages 25-30.
2. For wiring diagrams see pages 31-32.
3. For sensor activation point details see pages 33-39.

Rectangular Style Ring Sensors

80 mm - Rectangular, Ring Sensor	Output	Part Number	ID #
Installation ····· Flush Mount Minimum Target Size: (Bi50...) ····· 8 mm (0.315) (Bi65...) ····· 10 mm (0.394) Power Supply ····· 10-30 VDC (3-wire) Number of LEDs ····· 4	PNP Diagram F	Bi 50R-Q80-AP6X2-H1141 Bi 65R-Q80-AP6X2-H1141	M1407530 M1407531

Q80



See Drawing #52

80 mm - Rectangular, Ring Sensor	Output	Part Number	ID #
Installation ····· Flush Mount Minimum Target Size ··· 10 mm (0.394) Power Supply ····· 10-55 VDC (4-wire) Number of LEDs ····· 1	PNP Diagram N	Ni 100R-S32XL-VP44X-H1141 ¹⁾	M1510301

S32XL



See Drawing #53

Notes:

1. Adj. Pot Versions
2. For detailed dimensional drawings see pages 25-30.
3. For wiring diagrams see pages 31-32.
4. For sensor activation point details see pages 33-39.

Analog Sensing Styles

Q08



See Drawing #54

8 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 1-4 mm (.039 - .157) Power Supply ····· 15-30 VDC Output Voltage/Current ··· 0-10 V/0-20 mA	DC Analog Diagram H	Bi 7-Q08-LIU	M1534605

Q14



See Drawing #55

14 mm - Embeddable, <i>picofast</i> ® Quick Disconnect	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 3-8 mm (.118 - .315) Power Supply ····· 15-30 VDC Output Voltage/Current ··· 0-10 V/0-20 mA	DC Analog Diagram I	Bi 10-Q14-LIU-V1141	M1534603

Q14



See Drawing #56

14 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 3-8 mm (.118 - .315) Power Supply ····· 15-30 VDC Output Voltage/Current ··· 0-10 V/0-20 mA	DC Analog Diagram H	Bi 10-Q14-LIU	M1534602

Q20



See Drawing #57

20 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 4-11 mm (.157 - .433) Power Supply ····· 15-30 VDC Output Voltage/Current ··· 0-10 V/0-20 mA	DC Analog Diagram J	Bi 15-Q20-LIU	M1534600

Q20



See Drawing #58

20 mm - Embeddable, <i>eurofast</i> ® Quick Disconnect	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 4-11 mm (.157 - .433) Power Supply ····· 15-30 VDC Output Voltage/Current ··· 0-10 V/0-20 mA	DC Analog Diagram J	Bi 15-Q20-LIU-H1141	M1534601

Notes:

1. For detailed dimensional drawings see pages 25-30.
2. For wiring diagrams see pages 31-32.
3. For sensor activation point details see pages 33-39.

Analog Sensing Styles

4 mm - Embeddable <i>euromast</i> ® Connection *SIU indicates non-linear measuring range.	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 0.1-1.5 mm (.004 - .059) Power Supply ····· 15-30 VDC Output Voltage/Current · 0-10 V/0-20 mA	DC Analog Diagram J	Bi 1.5-EH04-0.3M-M12-SIU-H1141*	M1533001



5 mm - Embeddable <i>euromast</i> Connection *SIU indicates non-linear measuring range.	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 0.1-1.5 mm (.004 - .059) Power Supply ····· 15-30 VDC Output Voltage/Current · 0-10 V/0-20 mA	DC Analog Diagram J	Bi 1.5-EG05-0.3M-M12-SIU-H1141*	M1533005



6.5 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 0.25-1.25 mm (.009 - .049) Power Supply ····· 15-30 VDC Output Voltage/Current · 0-10 V	DC Analog Diagram L	Bi 1.5-EH6.5-LU	S1533002



8 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 0.25-1.25 mm (.009 - .049) Power Supply ····· 15-30 VDC Output Voltage/Current · 0-10 V	DC Analog Diagram L	Bi 1.5-EG08-LU Bi 1.5-EG08-LU/S374 ¹⁾	S1533003 S1533007



8 mm - Embeddable, <i>euromast</i> Quick Disconnect	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 0.25-1.25 mm (.009 - .049) Power Supply ····· 15-30 VDC Output Voltage/Current · 0-10 V	DC Analog Diagram K	Bi 1.5-EG08-LU-H1341	S1533004



Notes:

1. "S374" Cable diameter 3 mm.
2. For detailed dimensional drawings see pages 25-30.
3. For wiring diagrams see pages 31-32.
4. For sensor activation point details see pages 33-39.

Analog Sensing Styles

M12



See Drawing #64

12 mm - Embeddable <i>eurofast</i> ® Connection	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range (Bi 2...) · 1-2.5 mm (.039 - .098) Operating Range (Bi 4...) · 0.5-3 mm (.019 - .118) Power Supply ····· 15-30 VDC Output Voltage/Current ·· 0-10 V	DC Analog Diagram J	Bi 2-M12-LIU-H1141 Bi 4-M12-LIU-H1141	M1535533 M1535531

M12



See Drawing #65

12 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range (Bi 2...) · 1-2.5 mm (.039 - .098) Operating Range (Bi 4...) · 0.5-3 mm (.019 - .118) Power Supply ····· 15-30 VDC Output Voltage/Current ·· 0-10 V/0-20 mA	DC Analog Diagram H	Bi 2-M12-LIU Bi 4-M12-LIU	M1535534 M1535532

M18



See Drawing #66

18 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range (Bi 5...) · 2-4 mm (.079 - .157) Operating Range (Bi 8...) · 1-5 mm (.039 - .197) Power Supply ····· 15-30 VDC Output Voltage/Current ·· 0-10 V/0-20 mA	DC Analog Diagram H	Bi 5-M18-LIU Bi 8-M18-LIU	M1536000 M1535538

M30



See Drawing #67

30 mm - Embeddable, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range (Bi10...) · 3-8 mm (.118 - .315) Operating Range (Bi15...) · 2-10 mm (.079 - .394) Power Supply ····· 15-30 VDC Output Voltage/Current ·· 0-10 V/0-20 mA	DC Analog Diagram H	Bi10-M30-LIU Bi15-M30-LIU	M1535500 M1535543

Q14



See Drawing #68

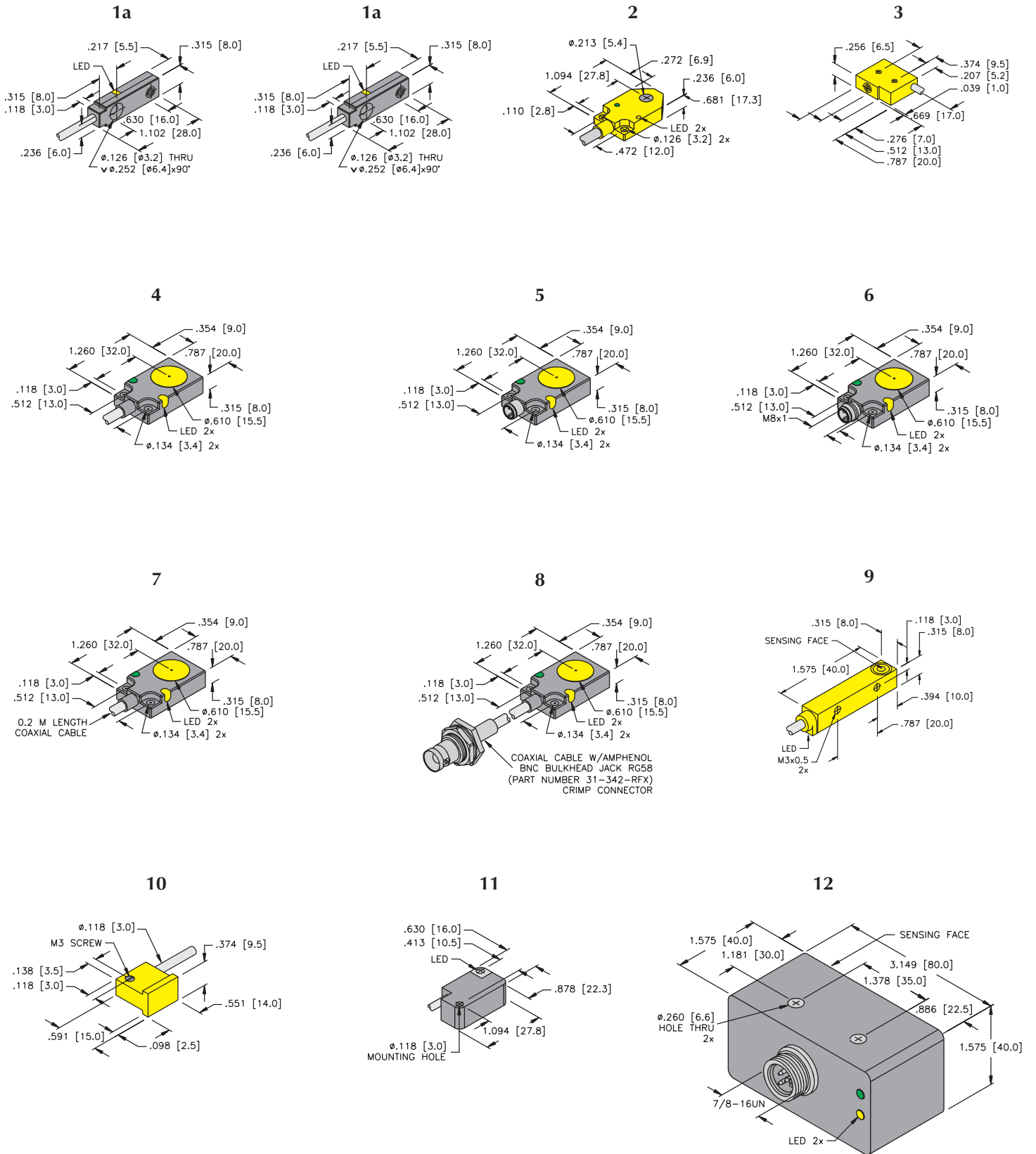
14 mm - Embeddable, Ring Sensor, Potted-In Cable	Output	Part Number	ID #
Installation ····· Flush Mount Operating Range ····· 1-19 mm (.039 - .748) Power Supply ····· 15-30 VDC Output Voltage/Current ·· 0-10 V	DC Analog Diagram M	Bi20R-Q14-LU	M1535546

Notes:

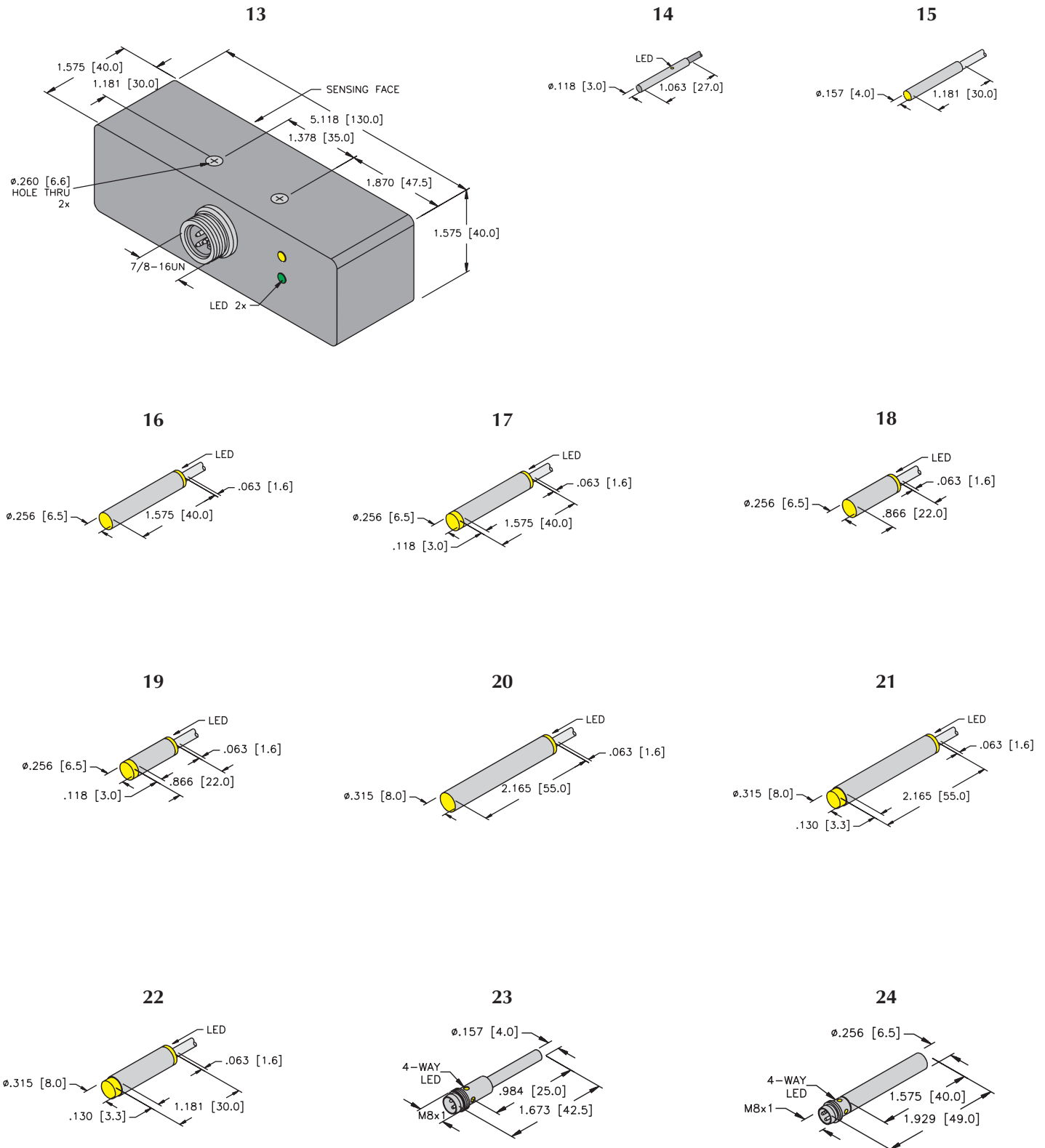
1. For detailed dimensional drawings see pages 25-30.
2. For wiring diagrams see pages 31-32.
3. For sensor activation point details see pages 33-39.

Notes:

Dimensional Drawings

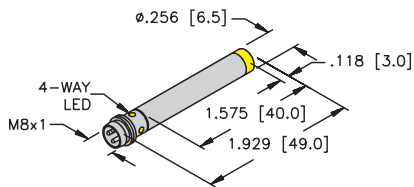


Dimensional Drawings

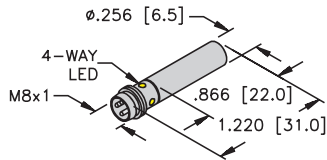


Dimensional Drawings

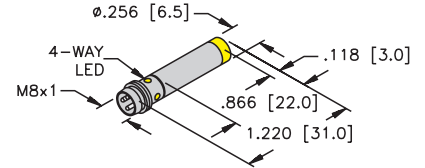
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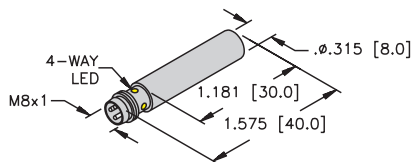
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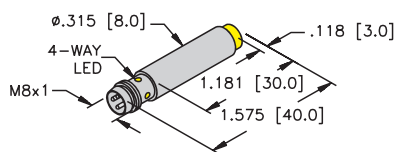
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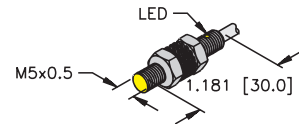
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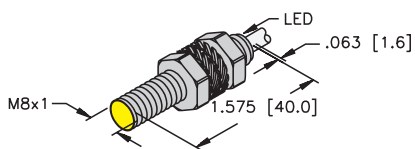
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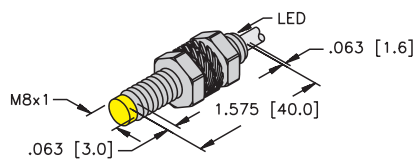
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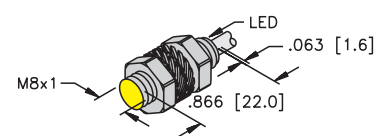
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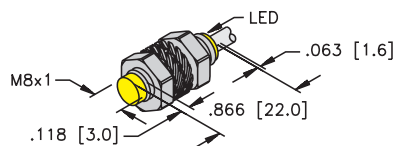
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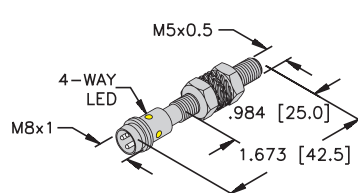
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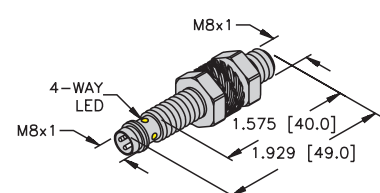
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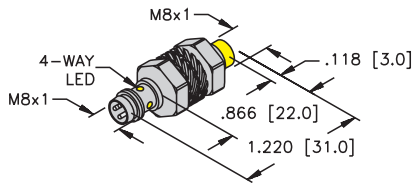


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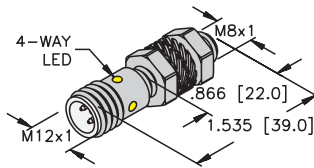


Dimensional Drawings

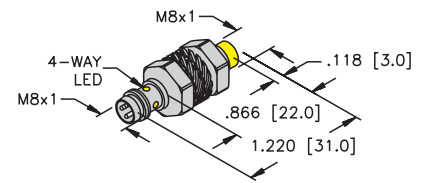
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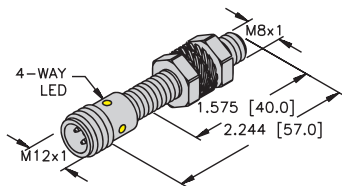
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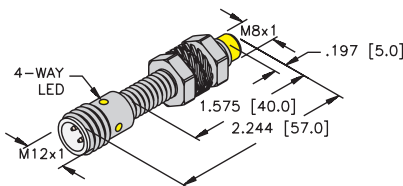
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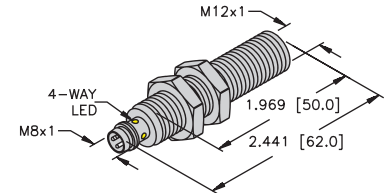
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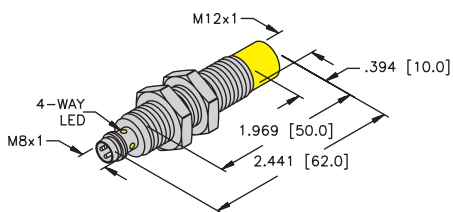
41



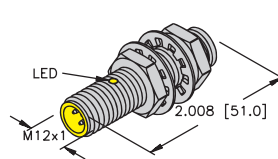
42



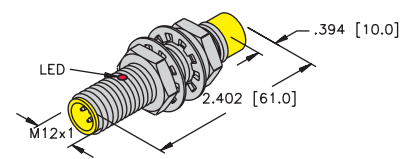
43



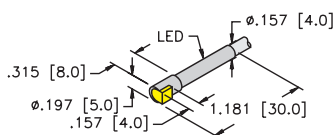
44



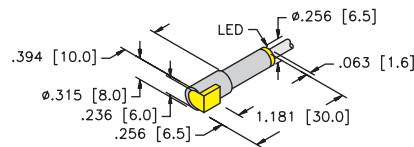
45



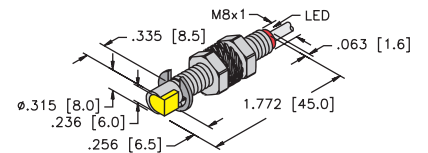
46



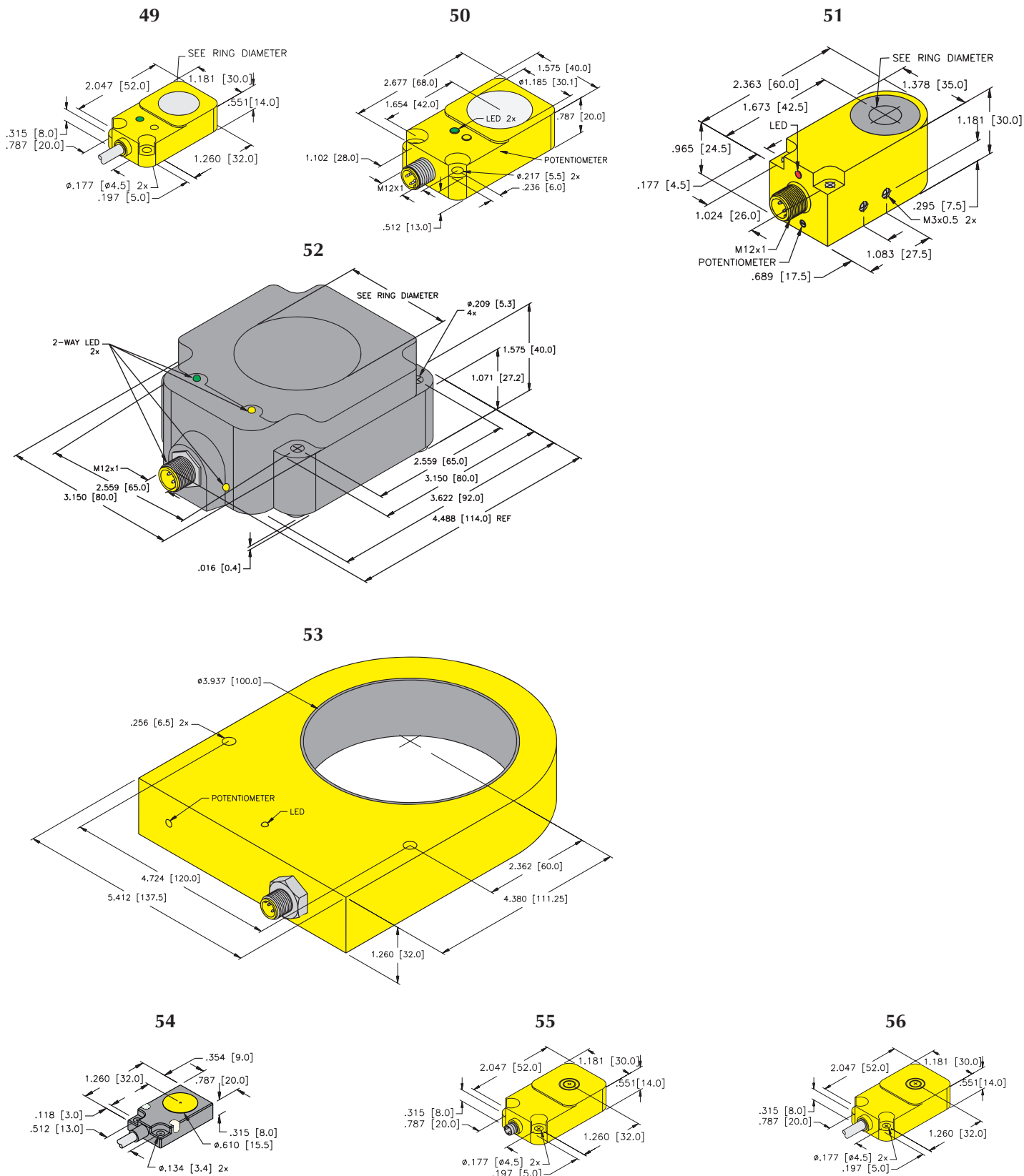
47



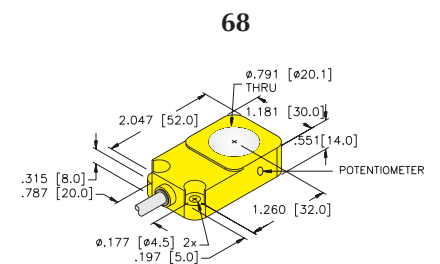
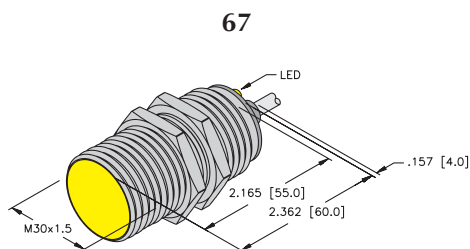
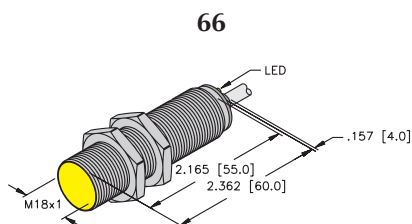
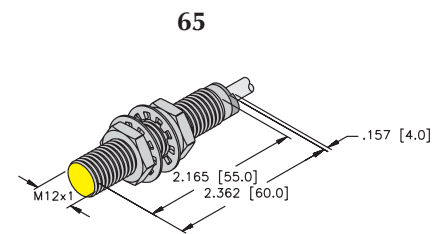
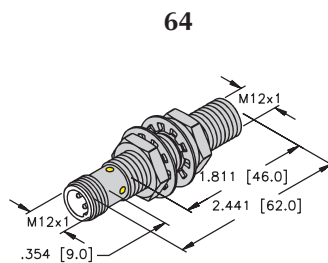
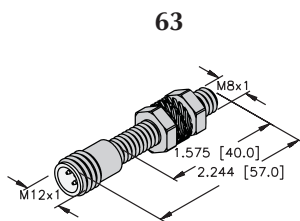
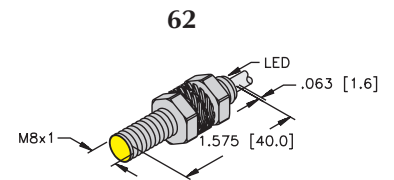
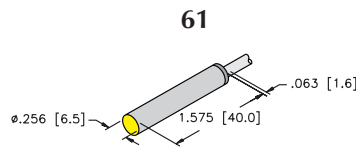
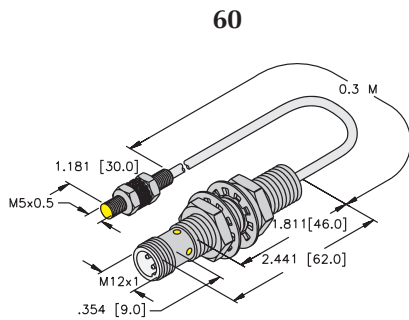
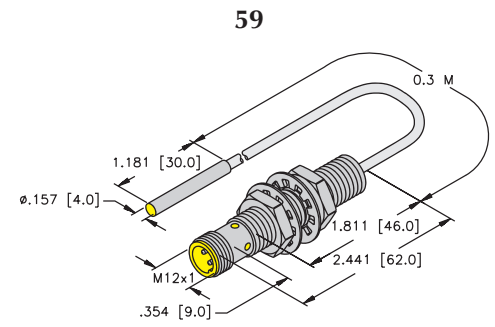
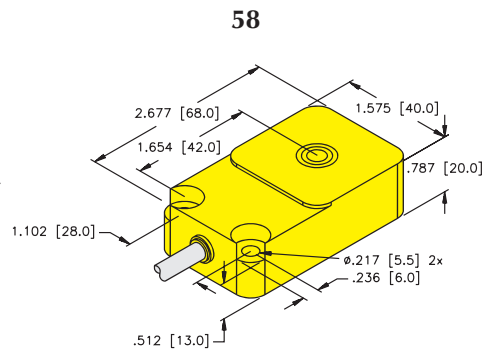
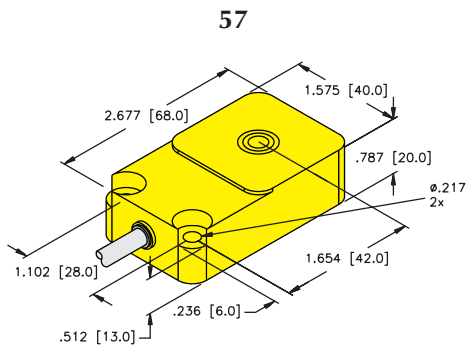
48



Dimensional Drawings



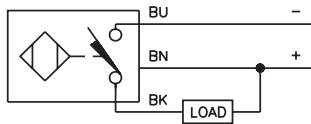
Dimensional Drawings



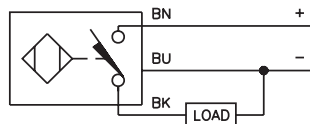
Wiring Diagrams

3-Wire DC, Potted-In Cable

A NPN (Sinking)

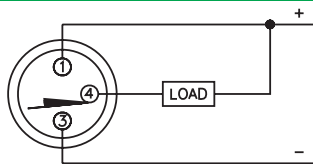


B PNP (Sourcing)

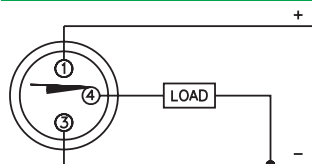


3-Wire DC, Quick Disconnect, *picofast*®

C NPN (Sinking)

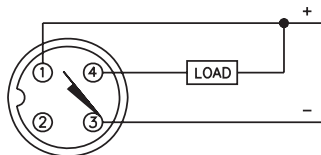


D PNP (Sourcing)

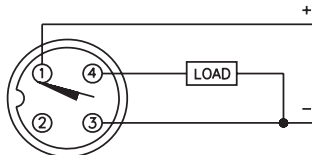


3-Wire DC, Quick Disconnect, *eurofast*®

E NPN (Sinking)

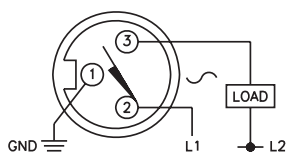


F PNP (Sourcing)



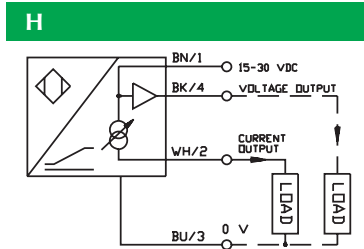
3-Wire AC, Quick Disconnect, *minifast*®

G Normally Open

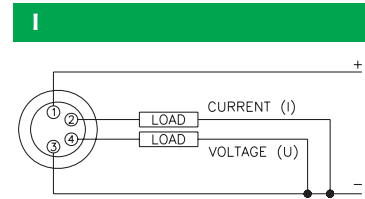


Wiring Diagrams

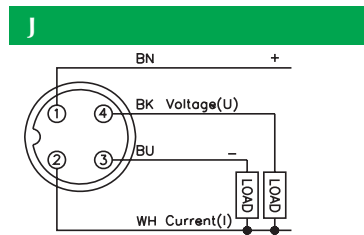
4-Wire DC Analog, Potted-In Cable



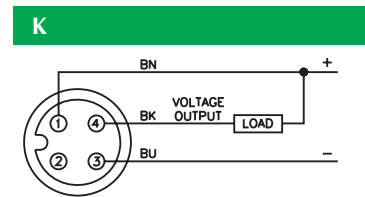
4-Wire DC Analog, Quick Disconnect, *picofast*®



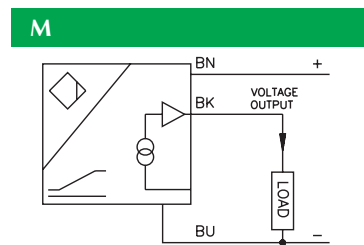
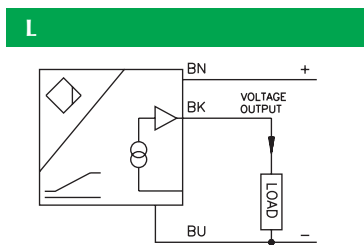
4-Wire DC Analog, Quick Disconnect, *euofast*®



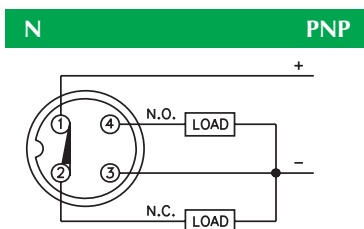
3-Wire DC Analog, Quick Disconnect, *euofast*®



3-Wire DC Analog, Potted-In Cable



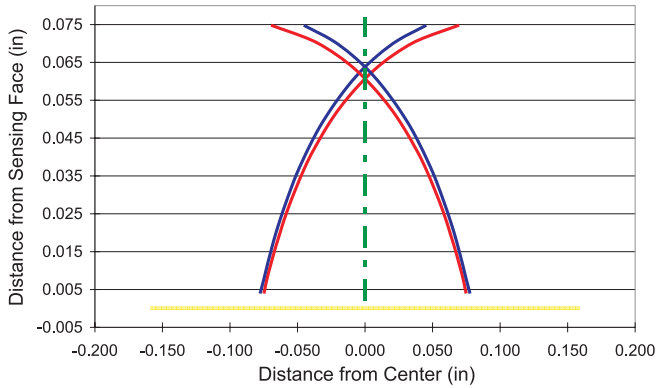
4-Wire DC, Quick Disconnect, *euofast*®



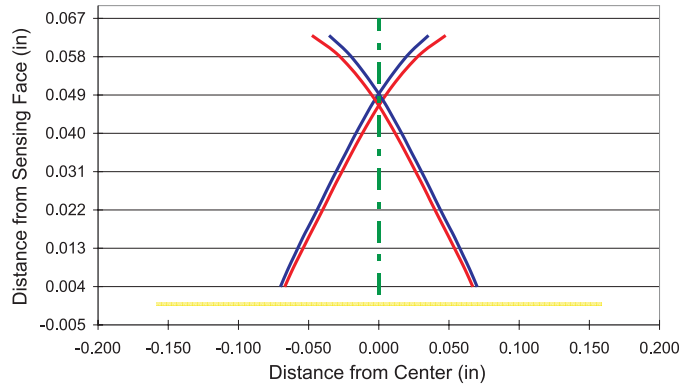
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

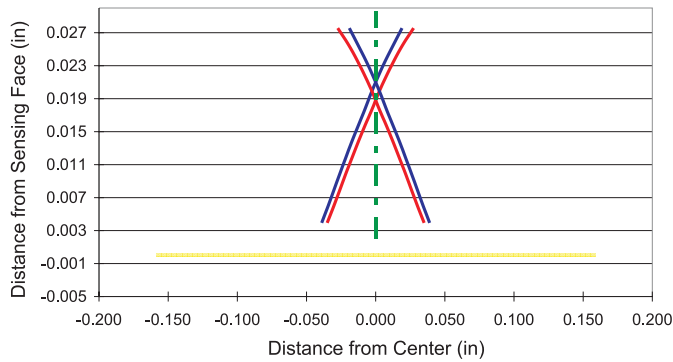
**Q5.5 - Lateral Approach
 6x6x3 mm Steel Target**



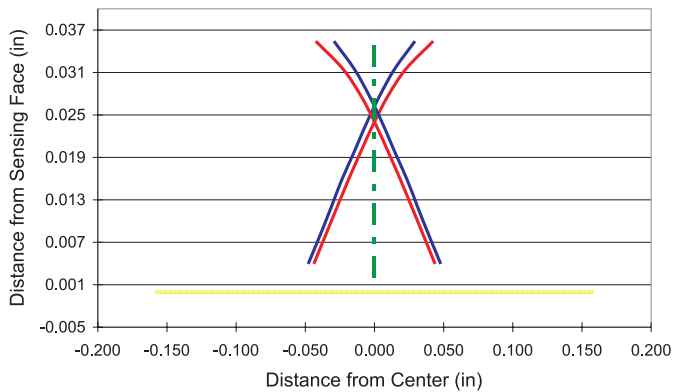
**Q5.5 - Lateral Approach
 6x6x3 mm Stainless Steel Target (316)**



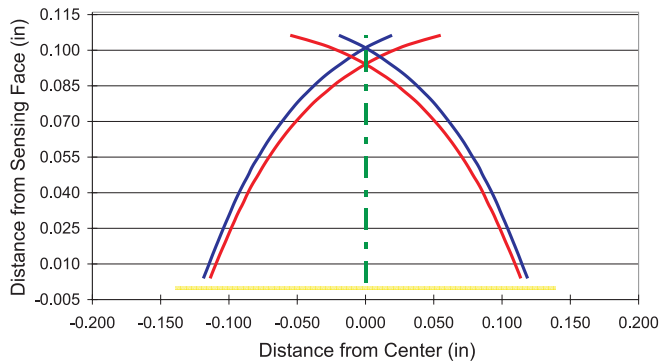
**Q5.5 - Lateral Approach
 6x6x3 mm Copper Target**



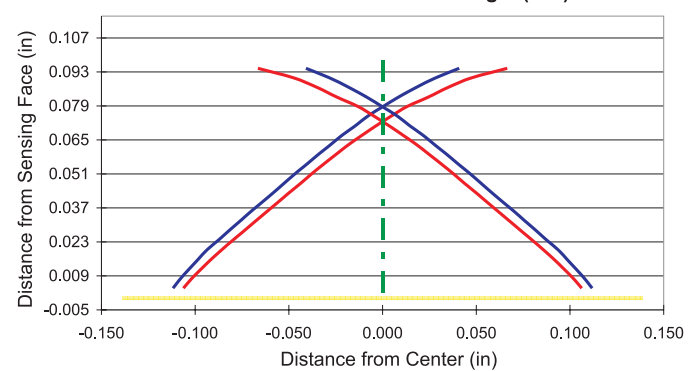
**Q5.5 - Lateral Approach
 6x6x3 mm Aluminum Target**



**Q06 - Lateral Approach
 6x6x3 mm Steel Target**



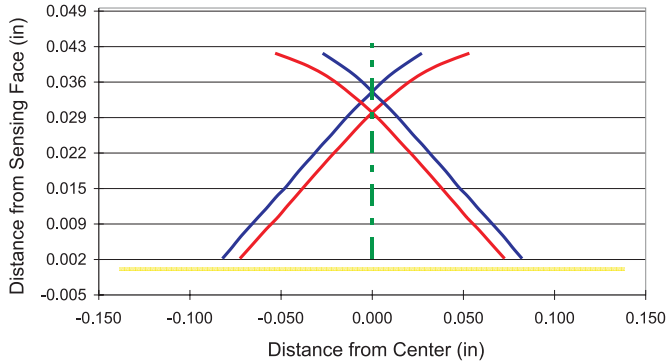
**Q06 - Lateral Approach
 6x6x3 mm Stainless Steel Target (316)**



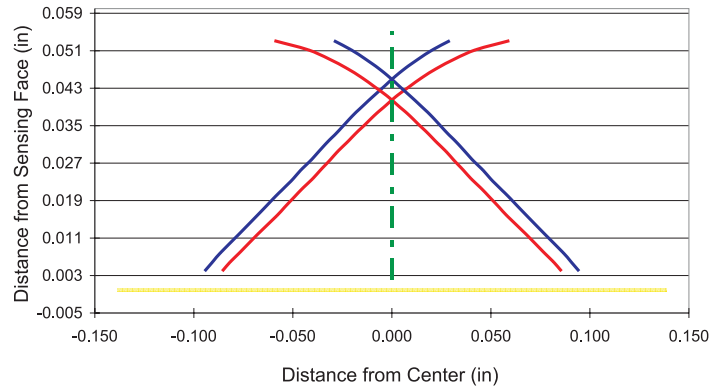
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

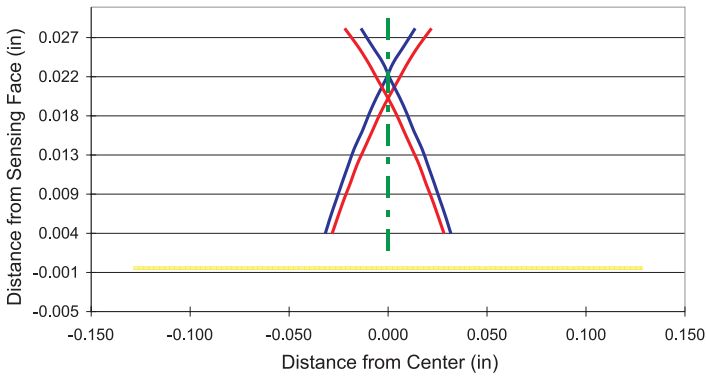
Q06 - Lateral Approach
6x6x3 mm Copper Target



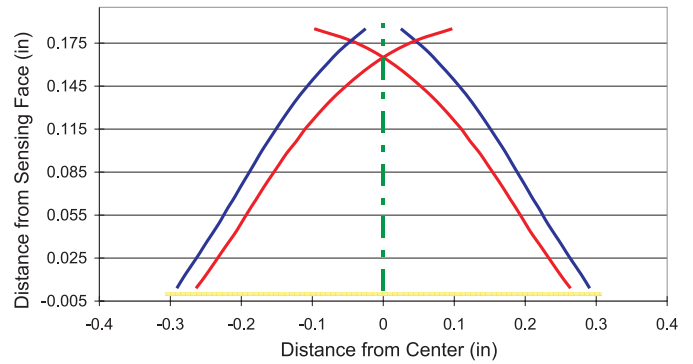
Q06 - Lateral Approach
6x6x3 mm Aluminum Target



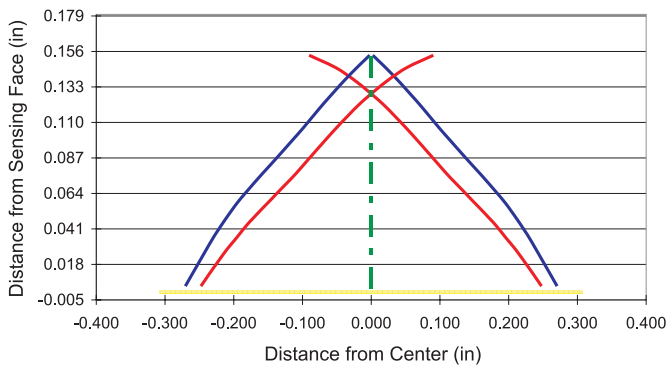
Q6.5 - Lateral Approach
6x6x3 mm Steel Target



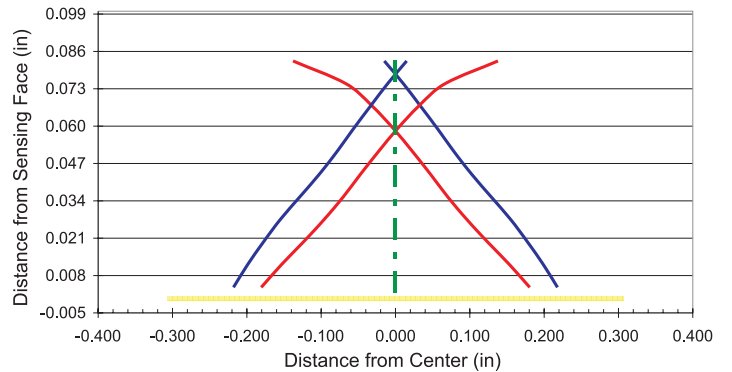
Q08 - Lateral Approach
8x8x3 mm Steel Target



Q08 - Lateral Approach
8x8x3 mm Stainless Steel Target (316)



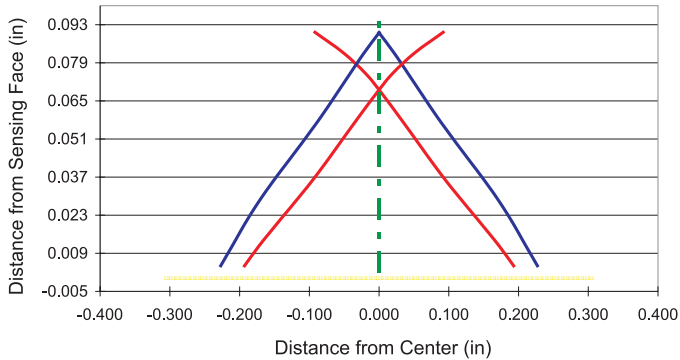
Q08 - Lateral Approach
8x8x3 mm Copper Target



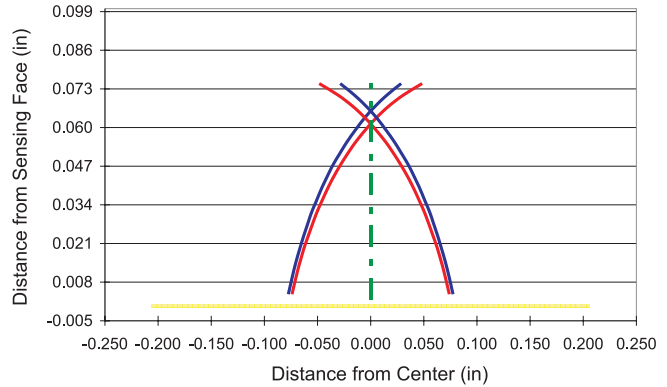
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

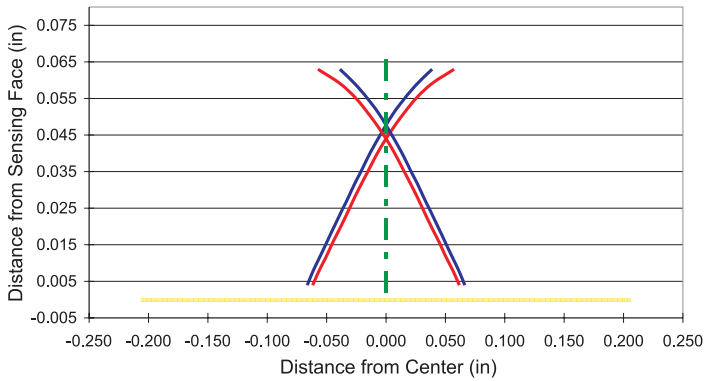
Q08 - Lateral Approach
8x8x3 mm Aluminum Target



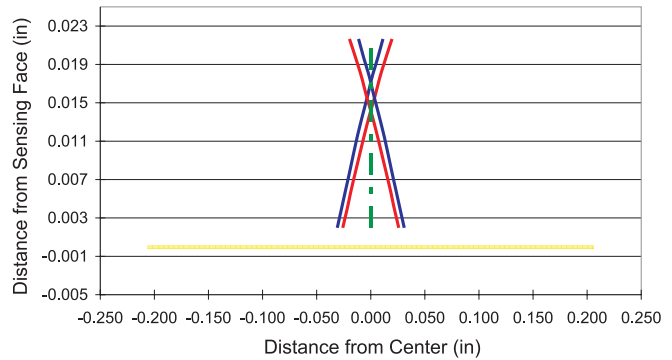
Q10S - Lateral Approach
10x10x3 mm Steel Target



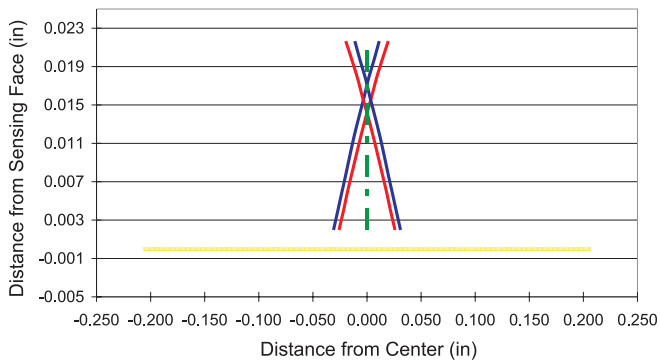
Q10S - Lateral Approach
10x10x3 mm Stainless Steel Target (316)



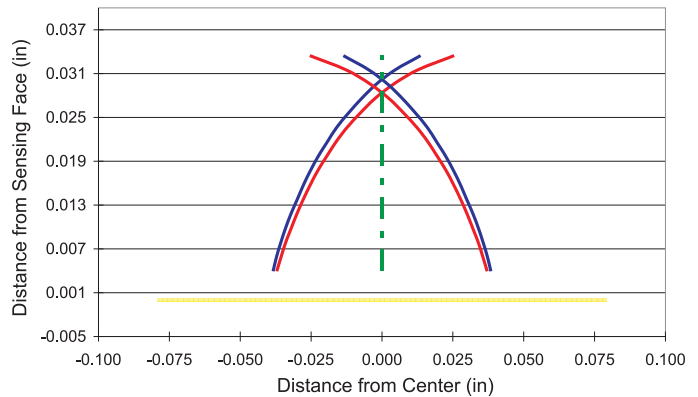
Q10S - Lateral Approach
10x10x3 mm Copper Target



Q10S - Lateral Approach
10x10x3 mm Copper Target



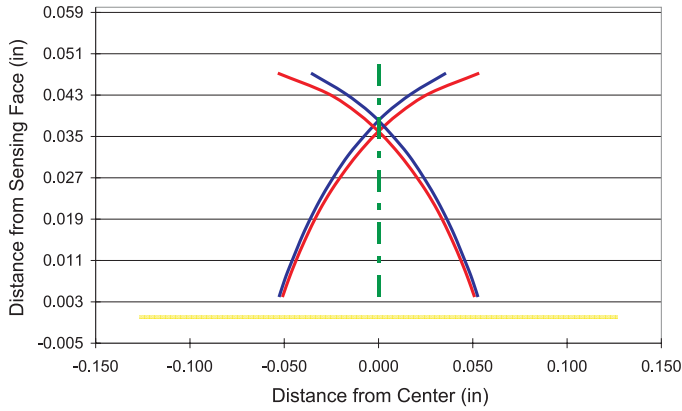
EH04 - Lateral Approach
6x6x3 Steel Target



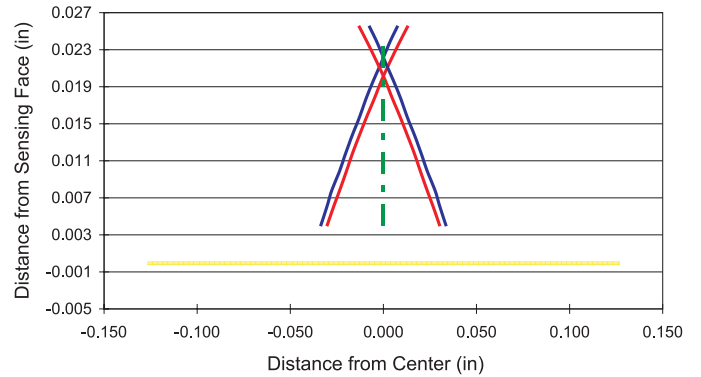
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

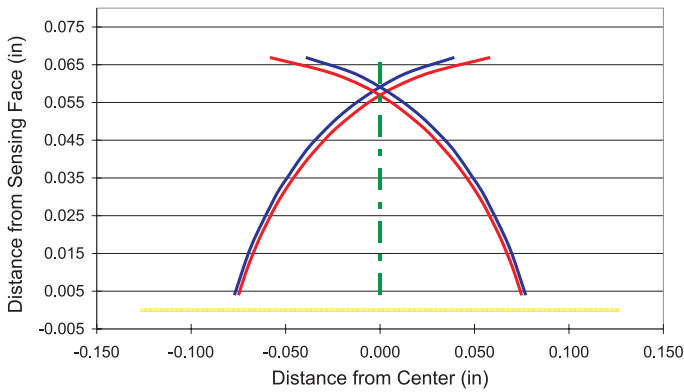
Bi 1.5-EH6.5 - Lateral Approach
 6x6x3 mm Steel Target



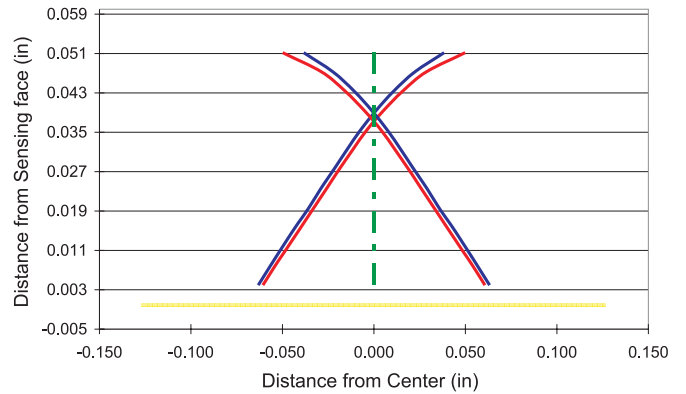
Bi 1.5-EH6.5 - Lat. Approach
 6x6x3 mm Stainless Steel Target (316)



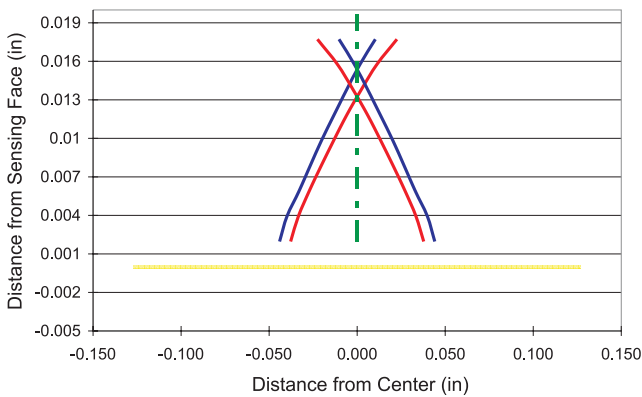
Bi 2-EH6.5 - Lateral Approach
 6x6x3 mm Steel Target



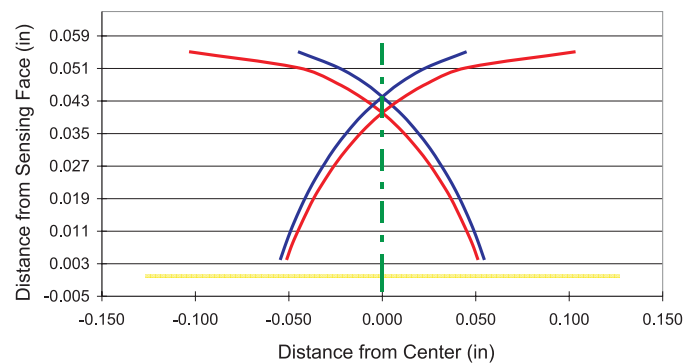
Bi 2-EH6.5 - Lateral Approach
 6x6x3 mm Stainless Steel Target (316)



Bi 2-EH6.5 - Lateral Approach
 6x6x3 mm Aluminum Target



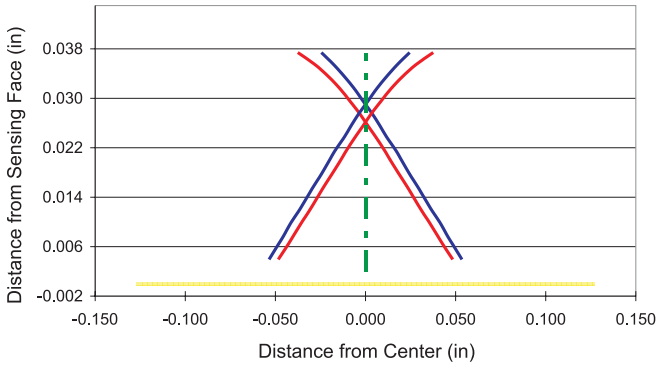
Bi 1.5-EG08 - Lateral Approach
 8x8x3 mm Steel Target



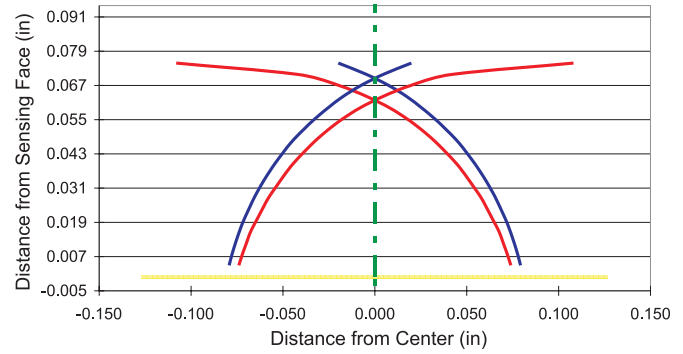
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

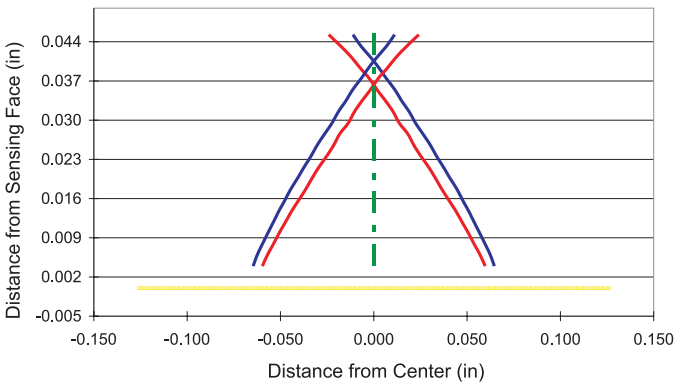
Bi 1.5-EG08 - Lateral Approach
8x8x3 mm Stainless Steel Target (316)



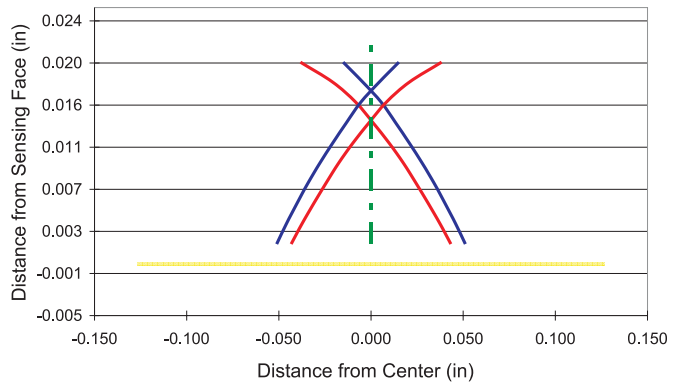
Bi 2-EG08 - Lateral Approach
8x8x3 mm Steel Target



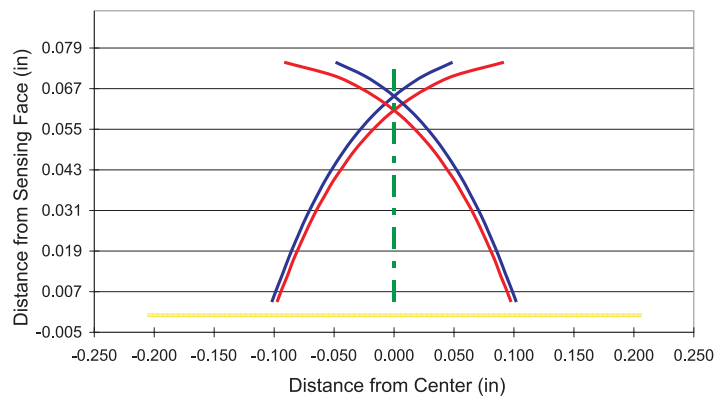
Bi 2-EG08 - Lateral Approach
8x8x3 mm Stainless Steel Target (316)



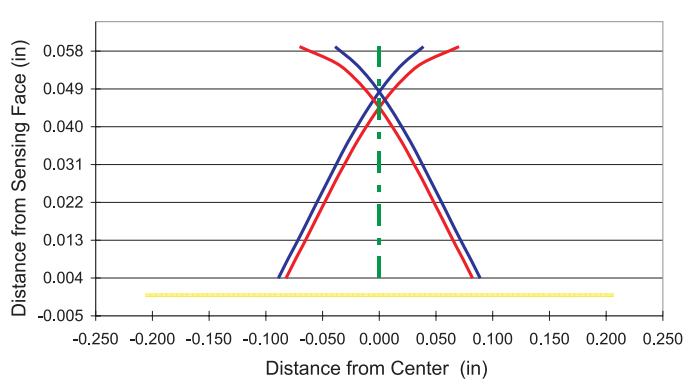
Bi 2-EG08 - Lateral Approach
8x8x3 mm Aluminum Target



Bi 2-G12 - Lateral Approach
12x12x3 mm Steel Target



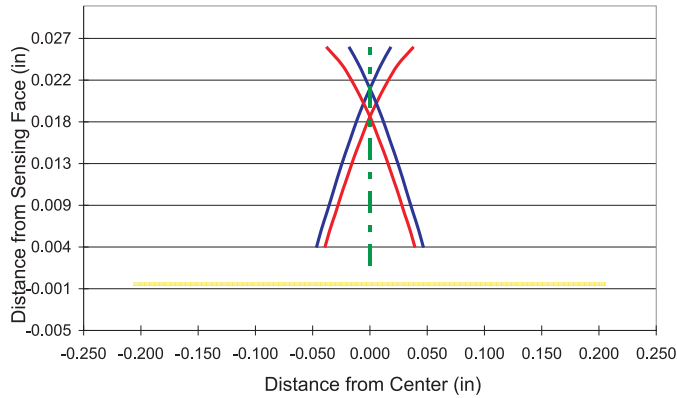
Bi 2-G12 - Lateral Approach
12x12x3 mm Stainless Steel Target (316)



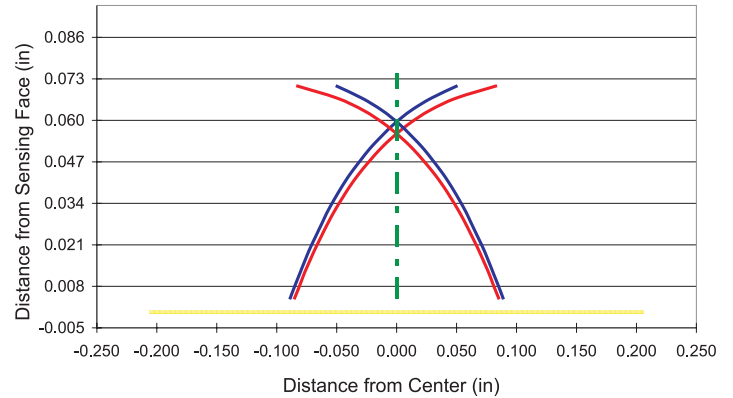
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

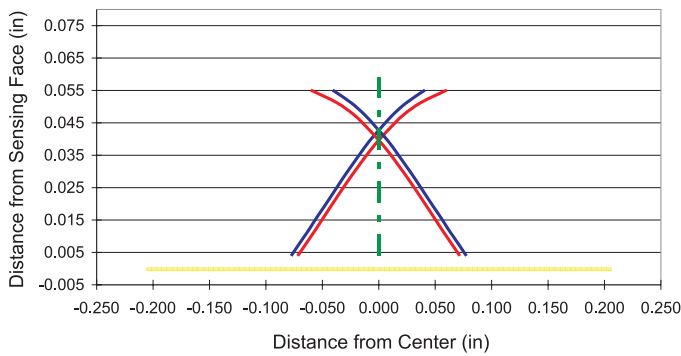
Bi 2-G12 - Lateral Approach
12x12x3 mm Aluminum Target



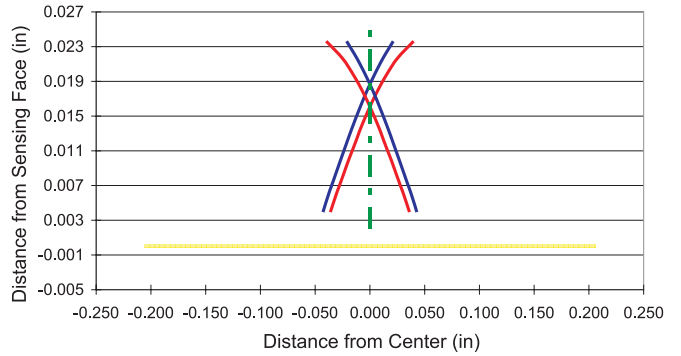
Bi 2-EG12 - Lateral Approach
12x12x3 mm Steel Target



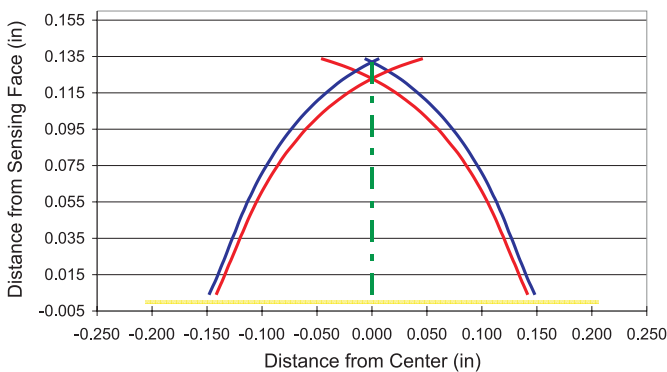
Bi 2-EG12 - Lat. Approach
12x12x3 mm Stainless Steel Target (316)



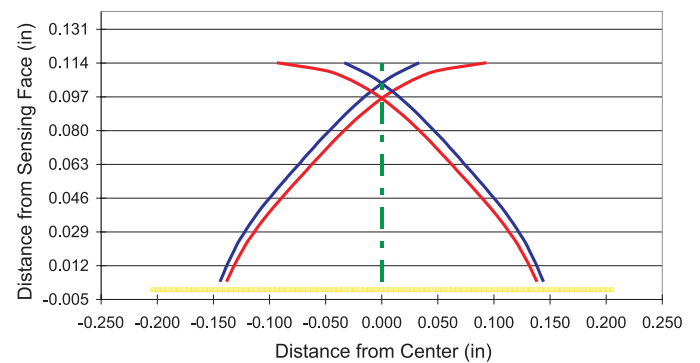
Bi 2-EG12 - Lateral Approach
12x12x3 mm Aluminum Target



Bi 4-M12 - Lateral Approach
12x12x3 mm Steel Target



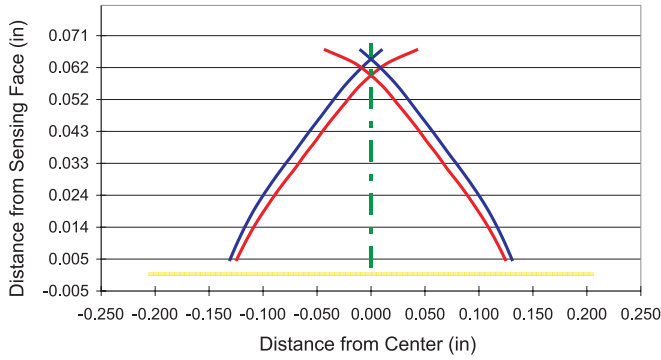
Bi 4-M12 - Lat. Approach
12x12x3 mm Stainless Steel Target (316)



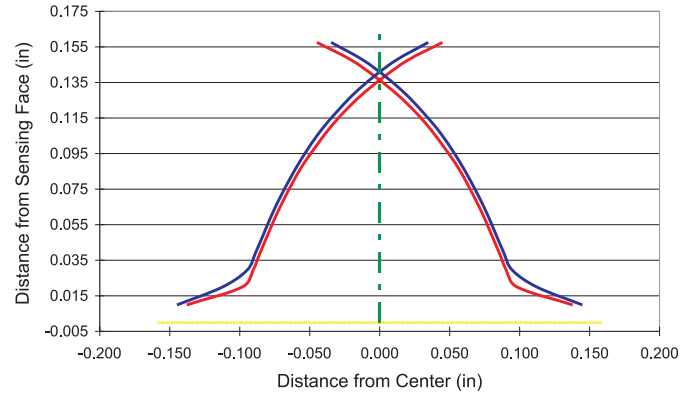
Sensor Activation Point

Red: Switch On
 Blue: Switch Off
 Green: Center
 Yellow: Sensing Face

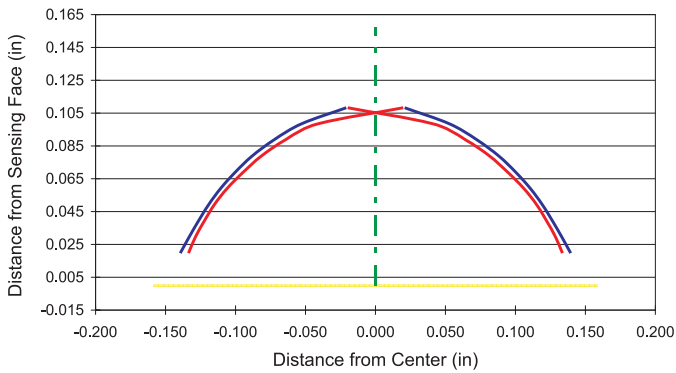
Bi 4-M12 - Lateral Approach
12x12x3 mm Aluminum Target



Ni 6U-EG08-AP6X - Lateral Approach
8x8x3 mm Steel Target



Ni 4U-Q8SE-AP6X - Lateral Approach
6x6x3 mm Steel Target



Notes:

TURCK

DieGuard Sensors

3-Wire eurofast® Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P and IEC IP 68 Protection
- 250 VAC/300 VDC, 4 A



Housing Style	Part Number	Cable	Features	Pinout
<p>RK ..**</p> <p>WK ..**</p>	RK 4T-*/S90	AWM PUR Grey 3x20 AWG 105°C 5.2 mm OD Cable #RF50518-*M	<i>Cut/Abrasion Immune</i>	
	WK 4T-*/S90			
	RS 4T-*/S90			
<p>RS ..</p> <p>WS ..**</p>	RK 4T-*/S529	AWM PUR/Heavy Braid Double Jacket Yellow 3x20 AWG 105°C 5.2 mm OD Cable #RF50832-*M	<i>Cut/Abrasion Immune Braided Mechanical Shield</i>	
	WK 4T-*/S529			
	RS 4T-*/S529			
WS 4T-*/S529				

1. BN
2. N/C
3. BU
4. BK

* 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.."; "RKK/WKK/RSK/WSK.." indicates nylon and "RKV/WKV/RSV/WSV.." indicates 316 stainless steel.

Extension Example:



RK 4T - 2 - RS 4T

RK .. - RS ..

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

4-Wire eurofast® Cordsets, Standard Plug Body

- NEMA 1, 3, 4, 6P and IEC IP 68 Protection
- 250 VAC/300 VDC, 4 A



Housing Style	Part Number	Cable	Features	Pinout				
RK ..** 	RK 4.4T-*/S90	AWM PUR Grey 4x22 AWG 105°C 5.2 mm OD Cable #RF50532-*M	Cut/Abrasion Immune					
	WK 4.4T-*/S90							
WK ..** 	RS 4.4T-*/S90			AWM PUR/Heavy Braid Double Jacket Yellow 4x20 AWG 105°C 5.8 mm OD Cable #RF50526-*M	Cut/Abrasion Immune Braided Mechanical Shield			
	WS 4.4T-*/S90							
RS .. 	RK 4.41T-*/S529					AWM PUR/Heavy Braid Double Jacket Yellow 4x20 AWG 105°C 5.8 mm OD Cable #RF50526-*M	Cut/Abrasion Immune Braided Mechanical Shield	
	WK 4.41T-*/S529							
WS ..** 	RS 4.41T-*/S529	AWM PUR/Heavy Braid Double Jacket Yellow 4x20 AWG 105°C 5.8 mm OD Cable #RF50526-*M	Cut/Abrasion Immune Braided Mechanical Shield					
	WS 4.41T-*/S529							

1. BN
2. WH
3. BU
4. BK

* 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.."; "RKK/WKK/RSK/WSK.." indicates nylon and "RKV/WKV/RSV/WSV.." indicates 316 stainless steel.

Extension Example:



RK **4.4T** - **2** - **RS** **4.4T**

RK .. - RS ..

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

TURCK DieGuard Sensors

3-Wire *picofast*® Cordsets

- NEMA 1, 3, 4, 6P and IEC IP 67 Protection
- 125 VAC/VDC, 4 A

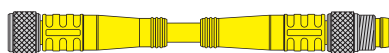


Housing Style	Part Number	Cable	Features	Pinout
<p>PKG ..M**</p>	PKG 3M-*/S90	AWM PUR/Heavy Braid Double Jacket Yellow 3x24 AWG 105°C 4.4 mm OD Cable #RF50587-*M	<i>Cut/Abrasion Immune Threaded</i>	1. BN 3. BU 4. BK
<p>PKW ..M**</p>	PKW 3M-*/S90			
<p>PSG ..M**</p>	PSG 3M-*/S90			
<p>PSW ..M**</p>	PSW 3M-*/S90			

* 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. "PK(S)GV..M/PK(S)WV..M" indicates 316 stainless steel.

Note: Snap lock cordsets are also available, see Connectivity catalog.

Extension Example:



PKG .. - PSG ..

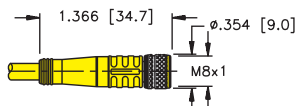
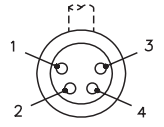
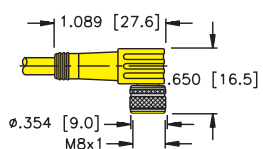
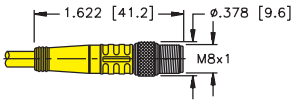
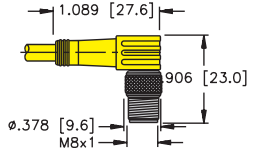
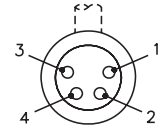
P K G 3 M - 2 - P S G 3 M

See pages C7- C8 in the Connectivity catalog (B2005) for more extension examples.

4-Wire picofast® Cordsets

- NEMA 1, 3, 4, 6P and IEC IP 67 Protection
- 125 VAC/VDC, 4 A

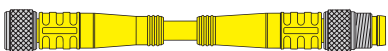


Housing Style	Part Number	Cable	Features	Pinout
<p>PKG ..M**</p> 	PKG 4M-*/S90	AWM PUR Black 4x26 AWG 105°C 4.4 mm OD Cable #RF50586-*.M	Cut/Abrasion Immune Threaded	
<p>PKW ..M**</p> 	PKW 4M-*/S90			
<p>PSG ..M**</p> 	PSG 4M-*/S90			
<p>PSW ..M**</p> 	PSW 4M-*/S90			
				

* 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. "PK(S)GV..M/PK(S)WV..M" indicates 316 stainless steel.

Note: Snap lock cordsets are also available, see Connectivity catalog.

Extension Example:



PKG .. - PSG ..



See pages C7- C8 in the Connectivity catalog (B2005) for more extension examples.

TURCK

DieGuard Sensors



multibox® eurofast® Junction Box

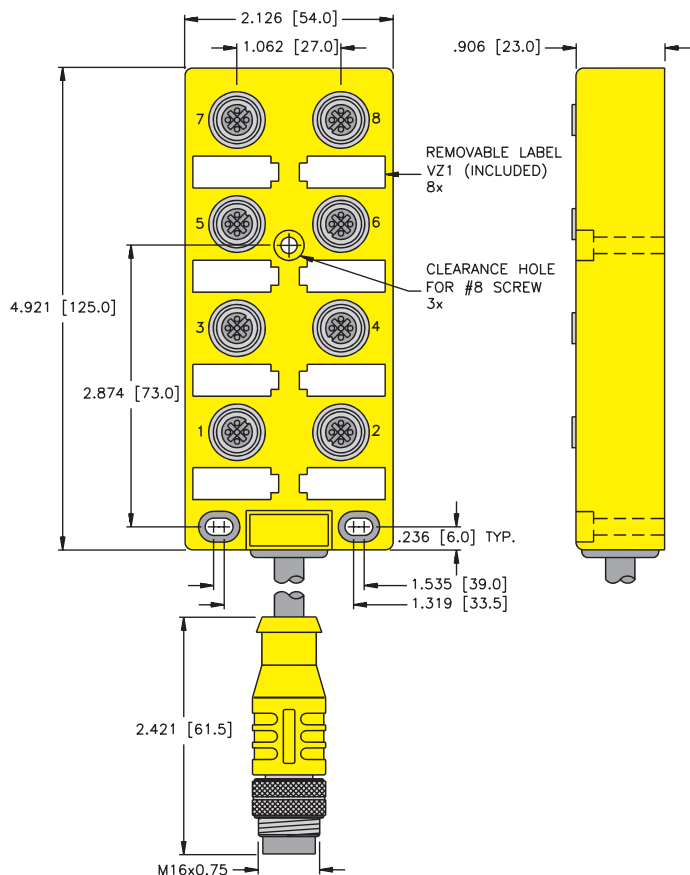
- 8-Ports
- Rugged Plastic Housing with Flush Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67
- Integral Home Run Cable with M16 Connector
- Threaded M12 Connection

10-48 VDC

Application	Specifications	Pinout	Part Number																												
8-port J-box 1 signal per port Integral cable with M16 <i>versafast</i> ® connector	4 A/port, 5 A total Yellow PUR cable 12/22 AWG, CSA Certified -30° to +80°C (-22° to +176°F) Housing: Nylon Contacts: Gold plated brass Mates with BSM BKM 12-001-*	<table border="1"> <thead> <tr> <th>Function</th> <th>Pin</th> <th>Function</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>+V</td> <td>K</td> <td>Port 4</td> <td>D</td> </tr> <tr> <td>-V</td> <td>A</td> <td>Port 5</td> <td>E</td> </tr> <tr> <td>Ground</td> <td>B</td> <td>Port 6</td> <td>F</td> </tr> <tr> <td>Port 1</td> <td>L</td> <td>Port 7</td> <td>G</td> </tr> <tr> <td>Port 2</td> <td>M</td> <td>Port 8</td> <td>H</td> </tr> <tr> <td>Port 3</td> <td>C</td> <td></td> <td></td> </tr> </tbody> </table>	Function	Pin	Function	Color	+V	K	Port 4	D	-V	A	Port 5	E	Ground	B	Port 6	F	Port 1	L	Port 7	G	Port 2	M	Port 8	H	Port 3	C			VB 80-*-BSM 12-001
Function	Pin	Function	Color																												
+V	K	Port 4	D																												
-V	A	Port 5	E																												
Ground	B	Port 6	F																												
Port 1	L	Port 7	G																												
Port 2	M	Port 8	H																												
Port 3	C																														

* Length in meters. Standard length is 5 Meters. Consult factory for other lengths.

Dimensions

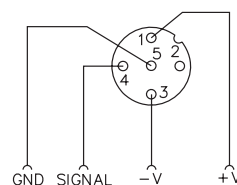


Pinout

Female	Male
5-Pin <i>eurofast</i>	12-Pin <i>versafast</i>

Functional Wiring Diagram

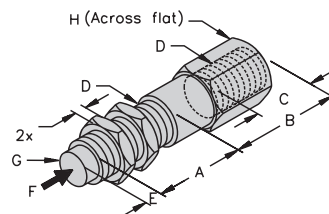
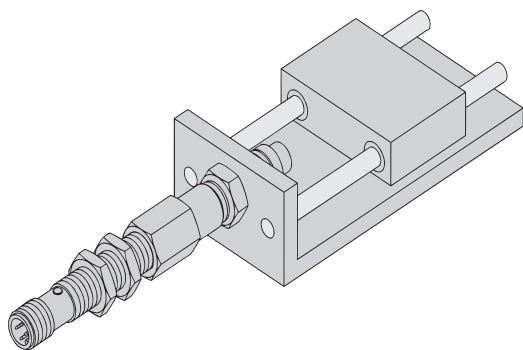
(No LED Version)
1 Signal Per Port



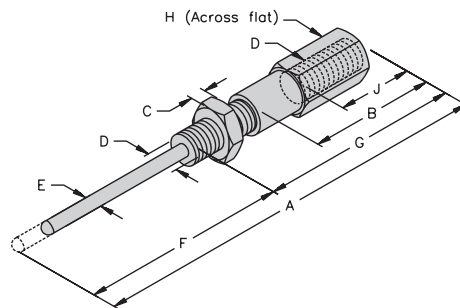
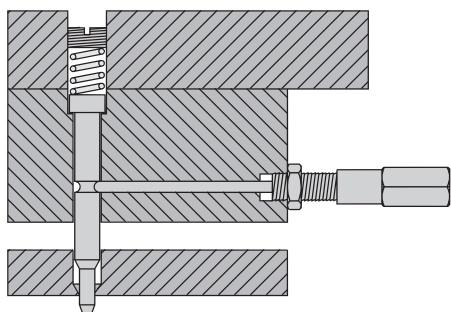
Notes:

Accessories

Part Number	ID Number	Dimensions							
		A	B	C	D	E	F	G	H
DP-08-25-08	A2521	0.984 [25.0]	1.252 [31.8]	0.654 [16.6]	M8x1	0.123 [3.2]	2000 N 450 lbft	0.230 [5.8]	0.437 [11.1]
DP-12-25-12	A2519	0.984 [25.0]	1.252 [31.8]	0.654 [16.6]	M12x1	0.170 [4.3]	20500 N 4608 lbft	0.370 [9.4]	0.618 [15.7]
DP-12-50-12	A9169	1.969 [50.0]	1.252 [31.8]	0.654 [16.6]	M12x1	0.165 [4.2]	20500 N 4608 lbft	0.370 [9.4]	0.618 [15.7]
DP-18-25-18	A2520	0.984 [25.0]	1.252 [31.8]	0.658 [16.7]	M18x1	.170 [4.3]	20500 N 4608 lbft	0.559 [14.2]	.870 [22.1]



Part Number	ID Number	Dimensions									Probe Travel
		A	B	C	D	E	F	G	H	J	
WP-08-50-03	A2527	3.921 [99.6]	1.252 [31.8]	0.150 [3.8]	M8x1	.126 [3.2]	2.000 [50.8]	1.949 [49.5]	.437 [11.1]	0.858 [21.8]	For activation: .071 [1.80] to .075 [1.91] Maximum: .080 [2.03]
WP-12-50-03	A2528	3.921 [99.6]	1.252 [31.8]	0.150 [3.8]	M12x1	.126 [3.2]	2.000 [50.8]	1.949 [49.5]	.437 [11.1]	0.858 [21.8]	For activation: .056 [1.42] to .080 [2.03] Maximum: .085 [2.15]
WP-12-50-06	A2529	3.921 [99.6]	1.252 [31.8]	0.150 [3.8]	M12x1	.252 [6.4]	2.000 [50.8]	1.949 [49.5]	.622 [15.8]	0.709 [18.0]	



TURCK Part Number Index

Bi 1.5-EG05-0.3M-M12-SIU-H1141* 22	Bi 1-Q6.5-AN6 9	Bi 5U-Q08-AP6X2-V1131 10
Bi 1.5-EG08-AN6X 15	Bi 1-Q6.5-AP6 9	Bi 6R-Q14-AN6X2 19
Bi 1.5-EG08-AN6X-V1131 16	Bi 1-Q6.5-AP6/S34 9	Bi 6R-Q14-AP6X2 19
Bi 1.5-EG08-AP6X 15	Bi 2-EG08-AN6X 15	Bi 6R-W30-DAN6X-H1141 19
Bi 1.5-EG08-AP6X-V1131 16	Bi 2-EG08-AN6X-V1131 16	Bi 6R-W30-DAP6X-H1141 19
Bi 1.5-EG08K-AN6X 15	Bi 2-EG08-AP6X 15	Bi 7-Q08-AN6X2 10
Bi 1.5-EG08K-AN6X-V1131 16	Bi 2-EG08-AP6X/S374 15	Bi 7-Q08-AN6X2-V1131 10
Bi 1.5-EG08K-AP6X 15	Bi 2-EG08-AP6X-V1131 16	Bi 7-Q08-AN6X2-V2131 10
Bi 1.5-EG08K-AP6X-V1131 16	Bi 2-EG08K-AN6X 15	Bi 7-Q08-AP6X2 10
Bi 1.5-EG08-LU 22	Bi 2-EG08K-AN6X-V1131 16	Bi 7-Q08-AP6X2-V1131 10
Bi 1.5-EG08-LU/S374 22	Bi 2-EG08K-AP6X 15	Bi 7-Q08-AP6X2-V2131 10
Bi 1.5-EG08-LU-H1341 22	Bi 2-EG08K-AP6X-V1131 16	Bi 7-Q08-LIU 21
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Bi 1.5-EH6.5-AN6X 12	Bi 2-EH6.5-AN6X-V1131 13	Bi10-M30-LIU 23
Bi 1.5-EH6.5-AN6X-V1131 13	Bi 2-EH6.5-AP6X 12	Bi10-Q14-LIU 21
Bi 1.5-EH6.5-AP6X 12	Bi 2-EH6.5-AP6X-V1131 13	Bi10-Q14-LIU-V1141 21
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Bi 1.5-GS880-AN6X 18	Bi 2-G12-AP6X-V1131 17	Bi15-Q20-LIU-H1141 21
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Bi 1.5-HS865-AN6X 18	Bi 2-Q5.5-AP6X 9	Bi20-CA40130-ADZ30X2-B1131/S1009 11
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Bi 1.5U-EG08-AP6X-H1341 17	Bi 3-Q08-ES-0.2 10	Bi20R-W30-DAP6X-H1141 19
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Ni 2-Q9.5-AP6/S34 11	Ni 4U-EG08-AP6X 15	RK 4T-*/S90 41
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Ni 3-EH6.5K-AP6X-V1131 14	RK 4.41T-*/S529 42	
Ni 3-H08-AN6X 13	RK 4.4T-*/S90 42	

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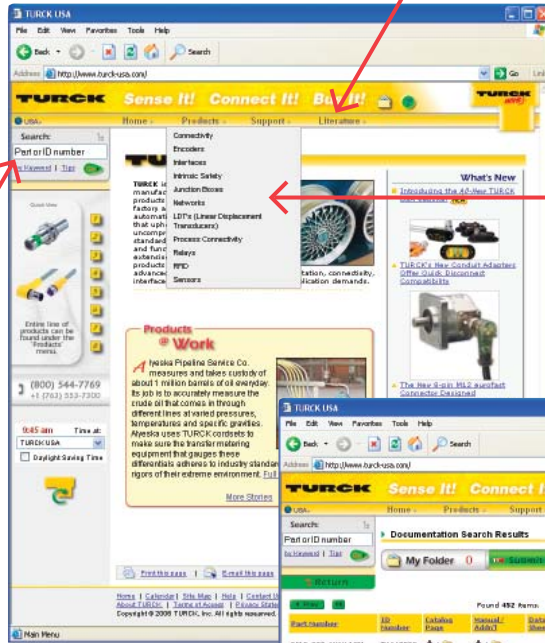
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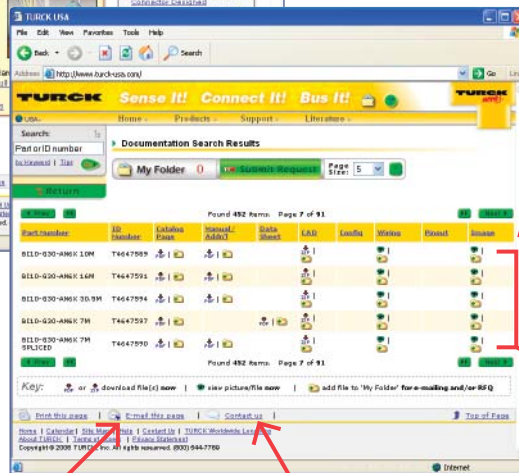


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