



Industrial
Automation

WELDING SOLUTIONS

- *armorguard*®
- *weldguard*®
- Stainless Steel Front Face
- *stoneface*®
- Instrumentation
- Connectivity
- Accessories

www.turck.com

TURCK
works

Industrial
Automation

**weld
guard®**

**Sensors
for Welding**



Competitor #1
Failed at 449 welds



Competitor #2
Failed at 1,837 welds



Competitor #3
Failed at 1,869 welds

34,000 WELDS AND STILL GOING...



TURCK weldguard CA40
Still operating after 25,000 welds

TURCK's *weldguard* proximity sensors shed slag like water off a duck, and are highly resistant to abrasion.

They feature a rugged, hi-tech front cap offering durability tested up to 500 times greater than other proximity sensors.

For critical welding applications, choose **TURCK *weldguard*** proximity sensors.

Call us with your next application:
1-800-544-7769
email: turckusa@turck.com
www.turck.com

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

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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:

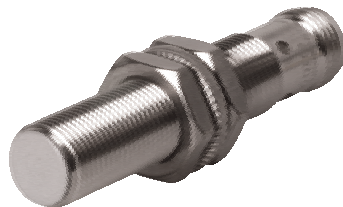
- Independently tested to over 25,000 operations without failure
- Impervious to weld spatter that creates pitting, chipping and cracking caused by resistance welding
- Resistant to pitting, chipping and cracking caused by molten metal traveling at high velocity
- A superior replacement for any type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



RESISTANCE
WELDING

See page 14.

***weld
guard***®



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



IMPACT

Also Protects Against:
Weld Slag and Abrasion

See page 50.

***armor
guard***®

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 91.

STAINLESS STEEL FRONT FACE

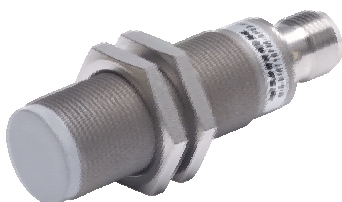
TURCK's heavy-duty stainless steel construction:

- Protects the barrel and internal electronics from damage due to impact
- Protects the sensing face from damage due to abrasion
- Available with Teflon 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 **weldguard**
with Teflon Coating



Stainless Steel with
Teflon 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 Teflon coated barrels to shed weld slag

***stone
face***®



MIG WELDING

Also Protects Against:
Weld Slag and Abrasion

See page 74.



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
- Teflon and ceramic caps protect the sensor face from weld spatter



Teflon cover for
CK40 style sensor.



Teflon and ceramic
thread on covers for
barrel sensors.



Teflon covers for **QPak** sensors.



WELD SLAG

See pages 92-93.



IMPACT

See page 94.



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



See page 96.

Probe Style Flow Monitors

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



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

High Accuracy Pressure Sensors

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

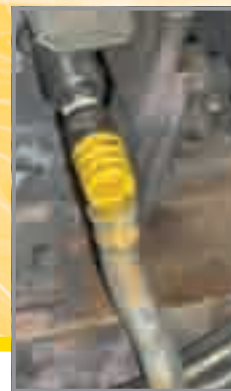


See page 105.



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 109-110 (notelines).



TPE (Thermo-Plastic Elastomer) and Teflon Coating

- TPE used as mold material in cordset plug body
- Coupling nuts coated with teflon
- 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 117.



Silicone Tubing

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

See page 118.

Expandable Silicone Sleeving

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

See page 118.

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 119.



See page 120.

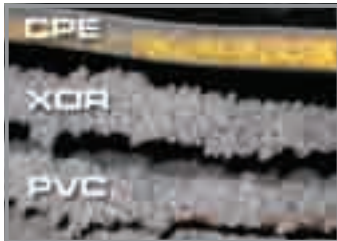
CABLE JACKET

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.

CPE - Resistance Welding



TURCK CPE cable still performing after 24,000 welds.

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).

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



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

See pages 109-110 (notelines).

ADDITIONAL SOLUTIONS

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



See page 113.

TURCK WELDING TIPS



- Use Teflon 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 Teflon coatings or covers using a gloved hand, if possible. Avoid cleaning Teflon 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 Teflon 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

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weldguard®

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armorguard®

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stoneface®

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weldguard® Selection Guide

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Style	Rectangular	Embeddable/Nonembeddable Metal Barrel			
Housing	40 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range	20 - 50 mm	1.5 - 4 mm	2 - 10 mm	5 - 14 mm	10 - 30 mm
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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
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armorguard® Selection Guide

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Style	Stainless Steel Front Face Barrel		
Housing	12 mm	18 mm	30 mm
Sensing Range	2 mm	5 mm	10 mm
Pages	67 - 68	69 - 70	71 - 72

stoneface® Selection Guide

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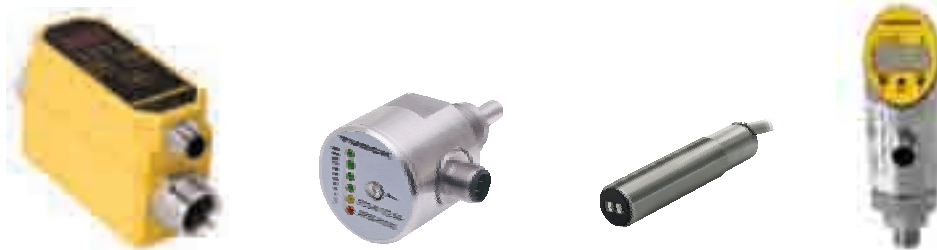
Style	Embeddable Metal Barrel		
Housing	12 mm	18 mm	30 mm
Sensing Range	2 - 4 mm	5 - 8 mm	10 - 15 mm
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Connectivity Selection Guide

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Style	eurofast® Cordsets	microfast® Cordsets	minifast® Cordsets	Accessories
Pages	109 - 113	114	115 - 116	117 - 120

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 teflon or stainless steel barrel w/added 7 mm **armorguard** tool steel sleeve.
Sensor then coated with **weldguard**. Sensor can be **uprox**® or ferrite core.

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 (<i>uprox</i> ® ≤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
- A superior replacement for any type of material used on a sensing face
- Able to withstand high heat



RESISTANCE
WELDING

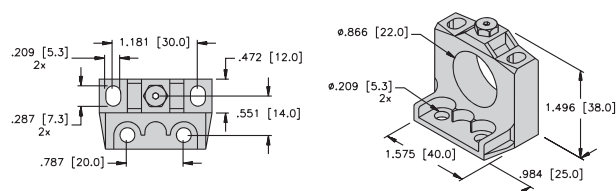
weldguard Selection Guide



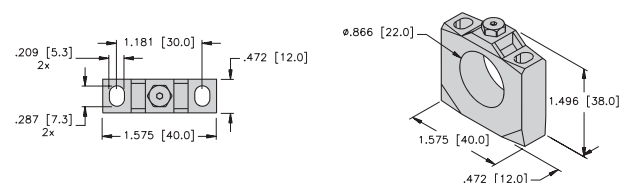
Style	Rectangular	Embeddable/Nonembeddable Metal Barrel			
Housing	40 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range	20 - 50 mm	1.5 - 4 mm	2 - 10 mm	5 - 14 mm	10 - 30 mm
Pages	15 - 16	17 - 22	23 - 30	31 - 42	43 - 48



Housing Style	Part Number	ID Number	Features	Embeddable	Sensing Range (mm)	Output
CA40 - Embeddable, eurofast® Connector 	Bi20U-CA40-AN6X2-H1141/S1590 W/BS2.1	M1627390-1	<i>uprox</i>	•	20	3-Wire DC NPN
	Bi20U-CA40-AP6X2-H1141/S1590 W/BS2.0	M1627297	<i>uprox</i>	•	20	3-Wire DC PNP
	Bi20U-CA40-AP6X2-H1141/S1590 W/BS2.1	M1627295	<i>uprox</i>	•	20	
CA40 - Embeddable, minifast® Connector 	Bi20-CA40-ADZ30X2-B1131/S34/S1590	M4283593	<i>WFI</i>	•	20	2-Wire AC/DC
CA40 - Embeddable, microfast® Connector 	Bi20-CA40-ADZ30X2-B3131/S34/S1590	M4283594	<i>WFI</i>	•	20	2-Wire AC/DC
CK40 - Embeddable/Nonembeddable, eurofast Connector 	Bi30U-CK40-AP6X2-H1141/S1590 W/BS4	M1625893	<i>uprox+</i>	•	30	3-Wire DC PNP
	Ni50U-CK40-AP6X2-H1141/S1590 W/BS4	M1625891	<i>uprox+</i>		50	



BS 2.1 Mounting Bracket



BS 2.0 Mounting Bracket

weldguard

Technical drawings of two mechanical parts, 1 and 2, with dimensions in inches and millimeters.

Part 1: A rectangular plate with a central circular feature. Dimensions include: .209 [5.3] (2x), 1.181 [30.0], .472 [12.0], .287 [7.3] (2x), .551 [14.0], and .787 [20.0].

Part 2: A complex, angular part with a central circular feature. Dimensions include: .866 [22.0], .209 [5.3] (2x), 1.575 [40.0] (2x), and .984 [25.0].

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Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
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-EG08K-AP6X-H1341/S1589	S4669486	Short Barrel	2	3-Wire DC PNP
8 mm - Embeddable, Miniature Threaded, picofast® Quick Disconnect, Stainless Steel Barrel 	Bi 2-EG08-AP6X-V1131/S1589	S4602050-1		2	3-Wire DC PNP
	Bi 2U-EGT08-AP6X-V1131/S1589	S46020701	uprox+	2	
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 2-EG08-AP6X-H1341/S1589	S4602086		2	3-Wire DC PNP
	Bi 1.5U-EG08-AP6X-H1341/S1589	S4600540-1	uprox	1.5	
8 mm - Embeddable, Miniature Threaded, Potted-In Cable with Molded eurofast Connector, Teflon Coated Barrel 	Bi 2-EGT08-AG41X-0.2M-RS4.23T/S1589	S4602593	Molded eurofast Connector		2-Wire DC



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	IP 67	SS	WG	N/A	YE	RK 4.2T-*/S1587	1	Diagram 1
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	2	Diagram 2
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	PKG 3M-*/S1587	3	Diagram 3
	1000	≤150	-30 to +85	IP 68	SS/TC	WG	N/A	YE	PKG 3M-*/S1587	3	
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4.2T-*/S1587	1	Diagram 4
10-30 VDC	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4.2T-*/S1587	5	Diagram 5
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	4	
10-30 VDC	3000	≤150	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	2	Diagram 5
	2000	≤150	-30 to +85	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	2	
10-55 VDC	1000	≤100	-25 to +70	IP 67	SS/TC	WG	N/A	YE	RK 4.23T-*/S1587	5	

* Length in meters.



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	



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	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	1	Diagram 1 Diagram 2 Diagram 3
	1000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	1	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	3	
10-30 VDC	3000	≤100	-25 to +70	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	2	
	2000	≤100	-30 to +85	IP 67	SS	WG	N/A	YE	RK 4T-*/S1587	2	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
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
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-EG08-AN6X/S1589	S4602181		2	3-Wire DC NPN
	Bi 2-EG08-AP6X/S1589	S4602085		2	3-Wire DC PNP
8 mm - Nonembeddable, Miniature Threaded Stainless Steel Short Length Barrel, Potted-In Cable 	Ni 4-EG08K-AP6X/S1589	S4561092	Short Barrel	4	3-Wire DC PNP
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



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

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection, Teflon Coated Barrel 	Bi 3-MT12H-AD4X-H1141/S1589	T4405082		3	2-Wire DC
	Bi 3-MT12H-AD4X-H1144/S1589	T4405084		3	
	Bi 4-MT12H-AN6X-H1141/S1589	T4607188	Ext. Range	4	3-Wire DC NPN
	Bi 4U-MT12-AN6X-H1141/S1589	M16348290	uprox+	4	
	Bi 2-MT12H-AP6X-H1141/S34/S1589	M1669090	WFI	2	3-Wire DC PNP
	Bi 3U-MT12H-AP6X-H1141/S1589	M16342121	uprox	3	
	Bi 3U-MT12H-AP6X2-H1141/S1589	M1634293	uprox	3	
	Bi 4-MT12H-AP6X-H1141/S1589	T4607099	Ext. Range	4	
	Bi 4U-MT12-AP6X-H1141/S1589	M1634809-1	uprox+	4	
12 mm - Embeddable, eurofast Connection, Extended Barrel Length, Stainless Steel Barrel 	Bi 3U-EM12HE-AN6X2-H1141/S1589	M1634397	uprox	3	3-Wire DC NPN
	Bi 4-EM12HE-AN6X-H1141/S1589	T4607185	Ext. Range	4	
					3-Wire DC PNP
	Bi 3U-EM12HE-AP6X2-H1141/S1589	M1634398	uprox	3	
	Bi 4-EM12HE-AP6X-H1141/S1589	T4607184	Ext. Range	4	
12 mm - Embeddable, eurofast Connection, Extended Barrel Length, Teflon Coated Barrel 	Bi 2U-MT12HE-AD4X-H1144/S1589	M4405094	uprox	2	2-Wire DC
	Bi 3-MT12HE-AD4X-H1141/S1589	T4405086		3	
	Bi 3-MT12HE-AD4X-H1144/S1589	T4405087		3	
	Bi 3U-MT12HE-AN6X2-H1141/S1589	M1634290	uprox	3	3-Wire DC NPN
	Bi 4-MT12HE-AN6X-H1141/S1589	T4607187	Ext. Range	4	
					3-Wire DC PNP
	Bi 3U-MT12HE-AP6X2-H1141/S1589	M1634291	uprox	3	
	Bi 4-MT12HE-AP6X-H1141/S1589	T4608094	Ext. Range	4	
12 mm - Embeddable, Potted-In Cable with Molded eurofast® Connector, Short Length Teflon Coated Barrel 	Bi 3-GT12HK-AD4X-0.2M-RS4.23T/S1589	T4405088-1	Molded eurofast Connector	3	2-Wire DC



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

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Nonembeddable, eurofast® Connection, Teflon Coated Barrel 	Ni 8-MT12H-AD4X-H1141/S1589	T4411291		8	2-Wire DC
	Ni10U-MT12-AP6X-H1141/S1589	M1634810-1	uprox+	10	3-Wire DC PNP
	Ni 8U-MT12H-AP6X2-H1141/S1589	M1644292	uprox	8	
12 mm - Nonembeddable, eurofast Connection Extended Length Stainless Steel Barrel 	Ni 8-EM12HE-AN6X-H1141/S1589	T4611395	Ext. Range	8	3-Wire DC NPN
	Ni 8U-EM12HE-AN6X2-H1141/S1589	M1644391	uprox	8	
	Ni 8-EM12HE-AP6X-H1141/S1589	T4611396	Ext. Range	8	3-Wire DC PNP
	Ni 8U-EM12HE-AP6X2-H1141/S1589	M1644392	uprox	8	
12 mm - Nonembeddable, eurofast Connection Extended Length Teflon Coated Barrel 	Ni 8-MT12HE-AN6X-H1141/S1589	T46113967	Ext. Range	8	3-Wire DC NPN
	Ni 8U-MT12HE-AN6X2-H1141/S1589	M1644393	uprox	8	
	Ni 8-MT12HE-AP6X-H1141/S1589	T4611398	Ext. Range	8	3-Wire DC PNP
	Ni 8U-MT12HE-AP6X2-H1141/S1589	M1644394	uprox	8	
	Ni10U-MT12E-AP6X2-H1141/S1589	M1634994	uprox+	10	



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	2000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4.2T-*/S1587	1	Diagram 1
10-30 VDC	1000	≤200	-25 to +75	IP 68	TC	WG	N/A	TE	RKC 4T-*/S1587	2	Diagram 2
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	3	Diagram 3
	2000	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 3
	2000	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	3	Diagram 3
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 3
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	1000	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	2	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, <i>microfast</i>® Connection, Teflon Coated Barrel 	Bi 2-GT12H-ADZ32X-B3131/S34/S1589	T4205096	WFI	2	2-Wire AC/DC Short-Circuit Protected
	Bi 4-GT12H-ADZ32X-B3131/S1589	T4205087		4	
12 mm - Nonembeddable, <i>microfast</i> Connection, Teflon Coated Barrel 	Ni 4-GT12H-ADZ32X-B3131/S34/S1589	T4205293	WFI	4	2-Wire AC/DC Short-Circuit Protected
	Ni 8-GT12H-ADZ32X-B3131/S1589	T4205480-1		8	



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KBE 3T-*/S600	4	Diagram 4
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KBE 3T-*/S600	4	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KBE 3T-*/S600	4	
	20	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	KBE 3T-*/S600	4	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable, Short Length Teflon Coated Barrel 	Bi 3-GT12HK-AD4X/S1589	T4405084-1	Short Barrel	3	2-Wire DC
12 mm - Embeddable, Potted-In Cable, Short Length Stainless Steel Barrel 	Bi 2-EG12HK-AN6X/S1589	T4605192	Short Barrel	2	3-Wire DC NPN
	Bi 2-EG12HK-AP6X/S1589	T4605194	Short Barrel	2	3-Wire DC PNP



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



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection, Stainless Steel Barrel 	Bi 8-EM18H-AP6X2-H1141/S1589	T4615099	Ext. Range	8	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 5-MT18-AP6X2-H1141/S34/S1589	M1655580	WFI	5	3-Wire DC PNP
	Bi 5U-MT18H-AP6X2-H1141/S1589	M1635292	uprox	5	
	Bi 5U-MT18H-AP6X-H1141/S1589	M1635294	uprox	5	
	Bi 8U-MT18H-AP6X-H1141/S1589	M1644791	uprox+	8	
	Bi 8U-MT18H-AN6X-H1141/S1589	M1644730-1	uprox+	8	3-Wire DC NPN
18 mm - Embeddable, eurofast Connection, Stainless Steel Barrel 	Bi 5U-EM18H-AN6X2-H1141/S395/S1589	M1635196	uprox	5	3-Wire DC NPN
	Bi 5U-EM18H-AP6X2-H1141/S395/S1589	M1635197	uprox	5	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 5U-MT18H-AN6X2-H1141/S395/S1589	M1635290	uprox	5	3-Wire DC NPN
	Bi 5U-MT18H-AP6X2-H1141/S395/S1589	M1635291	uprox	5	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Medium Length Teflon Coated Barrel 	Bi 5U-MT18HM-AD4X-H1144/S1589	M4405093	uprox	5	2-Wire DC



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	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1 Diagram 2 Diagram 3
	2500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	
	2500	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	
	1500	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	1500	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	
10-65 VDC	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	3	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection, Extended Length Stainless Steel Barrel 	Bi 8-EM18HE-AN6X-H1141/S1589	T4615193	Ext. Range	8	3-Wire DC NPN
	Bi 8-EM18HE-AP6X-H1141/S1589	T4615096	Ext. Range	8	3-Wire DC PNP
	Bi 8-EM18HE-RP6X-H1141/S1589	T4615084	Normally Closed	8	
18 mm - Embeddable, eurofast Connection, Extended Length Teflon Coated Barrel 	Bi 7-MT18HE-AD4X-H1141/S1589	T4414588		7	2-Wire DC
	Bi 7-MT18HE-AD4X-H1144/S1589	T4414599		7	
18 mm - Embeddable, Potted-In Cable with eurofast Connector, Medium Length Teflon Coated Barrel 	Bi 5U-MT18M-AD4X-0.3M-RS4.23T/XOR/S1589	M44050490	Medium Barrel	5	2-Wire DC
18 mm - Embeddable, Potted-In Cable with eurofast Connector, Short Length Teflon Coated Barrel 	Bi 7-GT18HK-AD4X-0.2M-RS4.23T/S1589	T4414592-1	Short Barrel	7	2-Wire DC

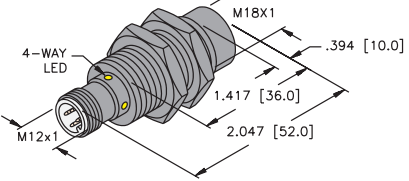
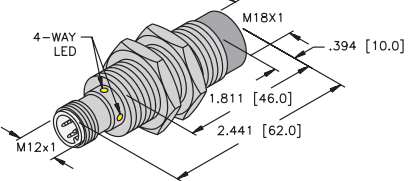
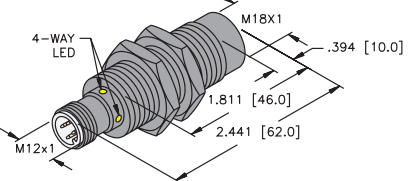
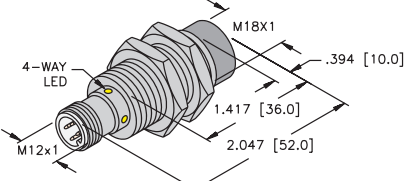
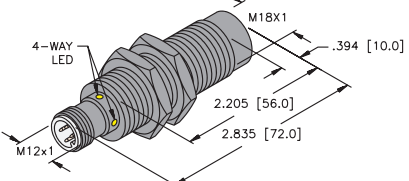
"/XOR" designates heat and chemical irradiated PVC jacket.



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	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	3	Diagram 1
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	4	Diagram 2
10-30 VDC	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	5	Diagram 2
	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	5	Diagram 2
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.2T-*/S1587	1	Diagram 3
	1000	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	2	Diagram 3
10-65 VDC	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	2	Diagram 4
	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	2	Diagram 4
10-65 VDC	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	2	Diagram 5
	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	2	Diagram 5
10-65 VDC	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S158	2	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, eurofast® Connection, Teflon Coated Barrel 	Ni12U-MT18H-AP6X-H1141/S1589	M1645292	<i>uprox</i>	12	3-Wire DC PNP
	Ni12U-MT18H-AP6X2-H1141/S1589	M1645293	<i>uprox</i>	12	
	Ni15U-MT18-AP6X-H1141/S1589	M1635333-1	<i>uprox+</i>	15	
18 mm - Nonembeddable, eurofast Connection, Stainless Steel Barrel 	Ni12U-EM18H-AP6X2-H1141/S395/S1589	M1645490	<i>uprox</i>	12	3-Wire DC PNP
	Ni12U-EM18H-AN6X2-H1141/S395/S1589	M1645491	<i>uprox</i>	12	3-Wire DC NPN
	Ni12U-EM18MH-RP6X2-H1141/S1589	M1645492	<i>uprox</i>	12	3-Wire DC PNP
18 mm - Nonembeddable, eurofast Connection, Teflon Coated Barrel 	Ni12U-MT18H-AN6X2-H1141/S395/S1589	M1645290	<i>uprox</i>	12	3-Wire DC NPN
	Ni12U-MT18H-AP6X2-H1141/S395/S1589	M1645291	<i>uprox</i>	12	3-Wire DC PNP
18 mm - Nonembeddable, eurofast Connection, Stainless Steel Barrel 	Ni14-EM18H-AN6X-H1141/S1589	T4611494	<i>Ext. Range</i>	14	3-Wire DC NPN
	Ni14-EM18H-AP6X-H1141/S1589	T4611495	<i>Ext. Range</i>	14	3-Wire DC PNP
18 mm - Nonembeddable, eurofast Connection, Teflon Coated Barrel 	Ni14-MT18HE-AN6X-H1141/S1589	T4611496	<i>Ext. Range</i>	14	3-Wire DC NPN
	Ni14-MT18HE-AP6X-H1141/S1589	T4611497	<i>Ext. Range</i>	14	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	2000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	
	1000	≤200	-30 to +85	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-30 to +85	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	Diagram 2
10-30 VDC	2000	≤200	-30 to +85	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 3
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	WG	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	2000	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	2000	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	1000	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, <i>microfast</i>® Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B3331/S34/S1589	T4255283	WFI	5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, <i>microfast</i> Right Angle Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B3431/S34/S1589	T425582	WFI	5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, <i>minifast</i>® Connection Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B1331/S34/S1589	T4255284	WFI	5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, <i>minifast</i> Right Angle Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B1431/S34/S1589	T4255285	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	IP 67	TC	WG	GN	RD	KBE 3T-*/S600	1	Diagram 1 Diagram 2
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	KBE 3T-*/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	2	

* Length in meters.



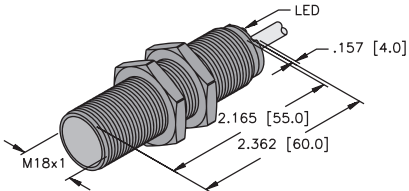
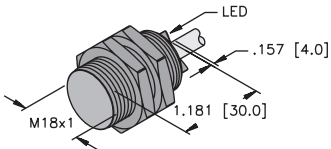
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Nonembeddable, minifast® Connection, Teflon Coated Barrel 	Ni 5-GT18H-ADZ30X2-B1331/S34/S1589	T4208890	WFI	5	2-Wire AC/DC Short-Circuit Protected
	Ni 5-GT18H-ADZ30X2-B1331/S1589	T4205484		5	
18 mm - Nonembeddable, minifast Right Angle Connection, Teflon Coated Barrel 	Ni 5-GT18H-ADZ30X2-B1431/S34/S1589	T4208990	WFI	5	2-Wire AC/DC Short-Circuit Protected
18 mm - Nonembeddable, microfast® Connection, Teflon Coated Barrel 	Ni 8-GT18H-ADZ30X2-B3331/S34/S1589	T4208891	WFI	8	2-Wire AC/DC Short-Circuit Protected
	Ni 14-GT18H-ADZ30X2-B3331/S1589	T4205491		14	



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	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	Diagram 1 Diagram 2
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	RKM 311-*M/S600	1	
20-250 VAC 10-300 VDC	60	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	KBE 3T-*S600	2	
	60	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	KBE 3T-*S600	2	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Potted-In Cable, Extended Barrel Length, Partial Threading Teflon Coated Barrel 	Bi 7-MT18HE-AD4X/S1589	T4414583		7	2-Wire DC
18 mm - Embeddable, Potted-In Cable, Short Barrel Length, Full Threading Teflon Coated Barrel 	Bi 7-GT18HK-AD4X/S1589	T4414581	Short Barrel	7	2-Wire DC



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	IP 67	TC	WG	EPTR	N/A	YE	2M/PVC	1	Diagram 1
10-65 VDC	500	≤100	-25 to +70	IP 67	TC	WG	EPTR	N/A	YE	2M/PVC	1	



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection Stainless Steel Barrel 	Bi10U-EM30H-AN6X2-H1141/S1589	M1636490	<i>uprox</i>	10	3-Wire DC NPN
	Bi15-EM30H-AN6X2-H1141/S1589	T4618693	<i>Ext. Range</i>	15	
	Bi10U-EM30H-AP6X2-H1141/S1589	M1636491	<i>uprox</i>	10	3-Wire DC PNP
	Bi15-EM30H-AP6X2-H1141/S1589	T4618593	<i>Ext. Range</i>	15	
	Bi15U-EM30-AP6X-H1141/S1589	M1636790	<i>uprox+</i>	15	
30 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi10U-MT30H-AD4X-H1144/S1589		<i>uprox</i>	10	2-Wire DC
	Bi12-MT30H-AD4X-H1141/S1589	T4417097		12	
	Bi12-MT30H-AD4X-H1144/S1589	T4417098		12	
	Bi10U-MT30H-AN6X2-H1141/S1589	M1636290	<i>uprox</i>	10	3-Wire DC NPN
	Bi10-MT30-AP6X2-H1141/S34/S1589	M1669480	<i>WFI</i>	10	3-Wire DC PNP
	Bi10U-MT30H-AP6X2-H1141/S1589	M1636291	<i>uprox</i>	10	
30 mm - Embeddable, eurofast Connection, Extended Length Stainless Steel Barrel 	Bi15-EM30HE-AP6X-H1141/S1589	T4618587	<i>Ext. Range</i>	15	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	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1
	300	≤200	-25 to +70	IP 67	SS	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	2	Diagram 2
	3000	≤200	-25 to +70	IP 67	SS	WG	GN	YE	RKC 4T-*/S1587	2	
	750	≤200	-30 to +85	IP 68	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
10-65 VDC	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S15870	4	Diagram 3
	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.2T-*/S1587	3	
	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	4	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 4
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	2000	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	750	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	300	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	

* Length in meters.

weldguard



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, Potted-In Cable with eurofast® Connector, Teflon Coated Barrel 	Bi10U-MT30-AD4X-0.3M-RS4.23T/XOR/S1589	M44050500	uprox	10	2-Wire DC
30 mm - Embeddable, Potted-In Cable with eurofast® Connector, Teflon Coated Barrel 	Bi12-GT30H-AD4X-0.3M-RS4.23T/S1589	T4417085		12	2-Wire DC
30 mm - Nonembeddable, eurofast Connection Stainless Steel Barrel 	Ni20-EM30H-AN6X-H1141/S1589	T4670599	Ext. Range	20	3-Wire DC NPN
	Ni20U-EM30H-AN6X2-H1141/S1589	M1646191	uprox	20	
	Ni20-EM30H-AP6X-H1141/S1589	T4670590	Ext. Range	20	3-Wire DC PNP
	Ni20U-EM30H-AP6X2-H1141/S1589	M1646490	uprox	20	
	Ni20-MT30H-AN6X-H1141/S1589	T4670589	Ext. Range	20	3-Wire DC NPN
	Ni20U-MT30H-AN6X2-H1141/S1589	M1646290	uprox	20	
30 mm - Nonembeddable, eurofast Connection, Teflon Coated Barrel 	Ni20-MT30H-AP6X-H1141/S1589	T4670588	Ext. Range	20	3-Wire DC PNP
	Ni20U-MT30H-AP6X2-H1141/S1589	M1646291	uprox	20	
	Ni30U-MT30-AP6X-H1141/S1589	M16466331	uprox+	30	3-Wire DC PNP
	Ni30U-MT30-AP6X2-H1141/S1589	M16466351	uprox+	30	

"/XOR" designates heat and chemical irradiated PVC jacket.



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	100	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	3	Diagram 1 Diagram 2 Diagram 3
	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	RK 4.23T-*/S1587	3	
10-30 VDC	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	1	
	1500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	SS	WG	N/A	YE	RKC 4T-*/S1587	2	
	1500	≤200	-30 to +85	IP 68	SS	WG	GN	YE	RKC 4T-*/S1587	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	1	
	150	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
	1500	≤200	-30 to +85	IP 67	TC	WG	GN	YE	RKC 4T-*/S1587	2	
	500	≤200	-30 to +85	IP 68	TC	WG	N/A	YE	RKC 4T-*/S1587	2	
	500	≤200	-30 to +85	IP 68	TC	WG	GN	YE	RKC 4T-*/S1587	2	

* Length in meters.



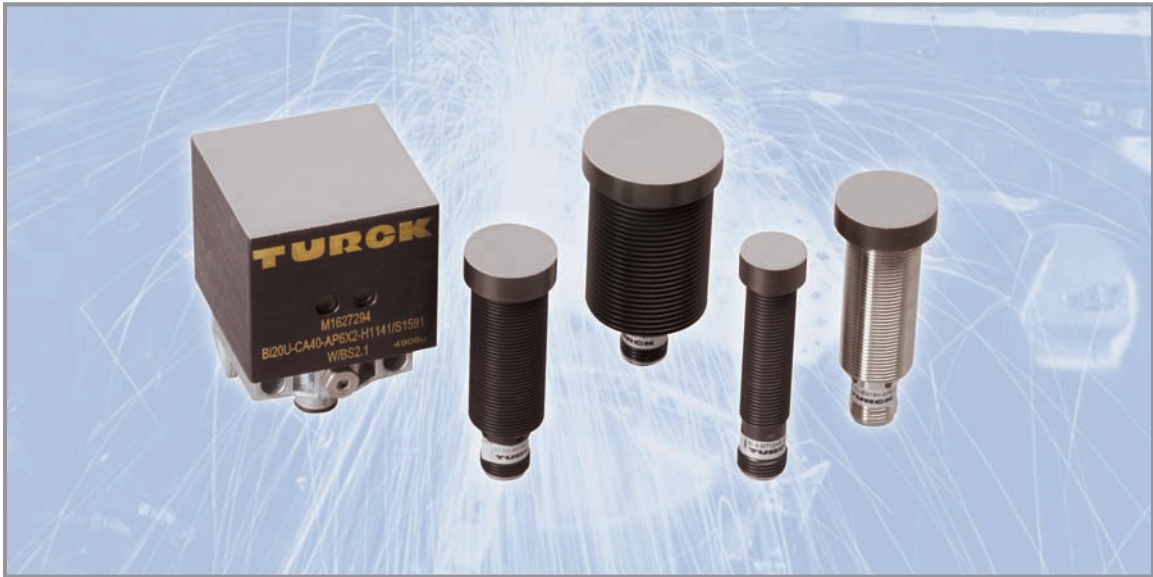
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, <i>microfast</i>® Connection, Teflon Coated Barrel 	Bi10-GT30H-ADZ30X2-B3131/S34/S1589	T4255281	WFI	10	2-Wire AC/DC Short-Circuit Protected
30 mm - Embeddable, <i>minifast</i>® Connection, Teflon Coated Barrel 	Bi10-GT30H-ADZ30X2-B1131/S34/S1589	T4255280	WFI	10	2-Wire AC/DC Short-Circuit Protected
30 mm - Embeddable, Potted-In Cable, Teflon Coated Barrel 	Bi12-GT30H-AD4X/S1589	T4417084		12	2-Wire DC



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Cable Length/ Cable Mat.	Mating Cordset	Wiring Diagram #	Wiring Diagram
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	N/A	KBE 3T-*/S600	1	Diagram 1 Diagram 2
	20	≤400/300	-25 to +70	IP 67	TC	WG	GN	RD	N/A	KBE 3T-*/S600	2	Diagram 3
10-65 VDC	500	≤100	-25 to +70	IP 67	TC	WG	N/A	YE	2M/PVC	N/A	1	

Notes:

armor guard®



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



Also Protects Against:
Weld Slag and Abrasion

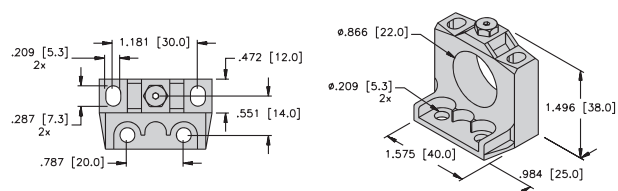
armorguard Selection Guide



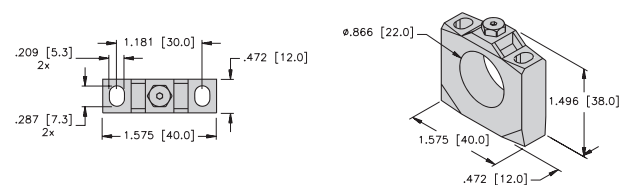
Style	Rectangular	Embeddable/Nonembeddable Metal Barrel			
Housing	40 mm	8 mm	12 mm	18 mm	30 mm
Sensing Range	20 mm	2 mm	3 - 4 mm	5 - 8 mm	10 - 15 mm
Pages	51 - 52	53 - 54	55 - 58	59 - 62	63 - 64



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	<i>uprox</i>	•	20	3-Wire DC PNP
	Bi20U-CA40-AP6X2-H1141/S1591 W/BS2.1	M1627294	<i>uprox</i>	•	20	
CA40 - Embeddable, minifast® Connector 	Bi20-CA40-ADZ30X2-B1131/S34/S1591 W/BS2.1	M4283595	<i>WFI</i>	•	20	2-Wire AC/DC Short-Circuit Protected
CA40 - Embeddable, microfast® Connector 	Bi20-CA40-ADZ30X2-B3131/S34/S1591 W/BS2.1	M4283596	<i>WFI</i>	•	20	2-Wire AC/DC Short-Circuit Protected



BS 2.1 Mounting Bracket



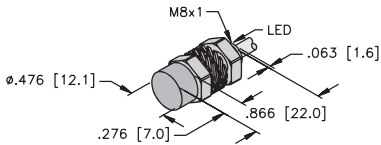
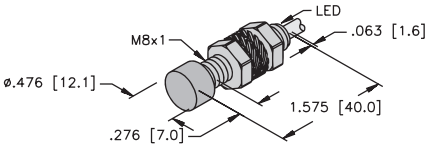
BS 2.0 Mounting Bracket



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	IP 67	AG	WG	GN	YE	RKG 4T-*/S600	1	Diagram 1 Diagram 2 Diagram 3
	300	≤400/300	-25 to +70	IP 67	AG	WG	GN	YE	RKM 311-*/M/S600	2	
	300	≤400/300	-25 to +70	IP 67	AG	WG	GN	YE	KBE 3T-*/S600	3	

* Length in meters.



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



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



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection, Teflon Coated Barrel 	Bi 4U-MT12-AP6X-H1141/S1610	M1634809-2	<i>uprox</i>	4	3-Wire DC PNP
12 mm - Embeddable, eurofast Connection, Extended Barrel Length, Teflon Coated Barrel 	Bi 3-MT12HE-AD4X-H1141/S1610	T4405087-1		3	2-Wire DC
	Bi 3-MT12HE-AN6X2-H1141/S1610	M1634230-1		3	3-Wire DC NPN
	Bi 3U-MT12HE-AP6X2-H1141/S1610	M1634292	<i>uprox, Ext. Range</i>	3	3-Wire DC PNP
	Bi 4-MT12HE-AP6X-H1141/S1610	T4608093-1	<i>Ext. Range</i>	4	



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

* Length in meters.



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



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	≤100	-25 to +70	IP 67	AG/TC	WG	EPTR	N/A	YE	2M/PVC	1	Diagram 1

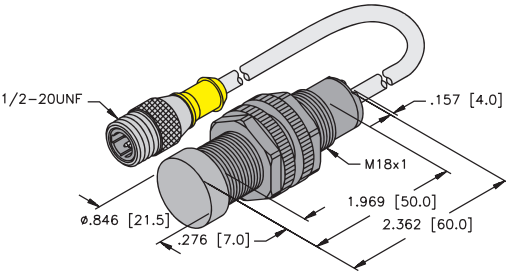


Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection, Stainless Steel Barrel 	Bi 5U-EM18H-AP6X2-H1141/S395/S1610	M1635198	<i>uprox</i>	5	3-Wire DC PNP
	Bi 5U-MT18H-AP6X2-H1141/S395/S1610	M1635293	<i>uprox</i>	5	
18 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 8U-MT18H-AP6X-H1141/S1610	M1644730-2	<i>uprox+</i>	8	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Stainless Steel Extended Length Barrel 	Bi 8-EM18HE-AP6X-H1141/S1610	T4615095-1	<i>Ext. Range</i>	8	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 Diagram
10-30 VDC	2500	≤200	-30 to +85	IP 68	AG/TC	WG	GN	YE	RKC 4T-*/S1587	1	Diagram 1
	2500	≤200	-30 to +85	IP 68	AG/TC	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	1500	≤200	-30 to +85	IP 68	AG/TC	WG	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	500	≤200	-25 to +70	IP 67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	

* Length in meters.

Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Potted-In Cable with Molded <i>microfast</i>® Connector, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-0.3-SB 3T/S1610	T4255280-1	Molded <i>microfast</i> Connector	5	2-Wire AC/DC Short-Circuit Protected



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	IP 67	AG/TC	WG	EPTR	GN	RD	KBE 3T-*/S600	1	Diagram 1

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection, Stainless Steel Barrel 	Bi 15-EM30H-AP6X-H1141/S1610	T4618589		15	3-Wire DC PNP
	Bi 10U-MT30H-AP6X2-H1141/S1610	M1636292	uprox	10	
30 mm - Embeddable, eurofast Connection, Stainless Steel Extended Length Barrel 	Bi 15-EM30HE-AP6X-H1141/S1610	T4618589-1	Ext. Range	15	3-Wire DC PNP
30 mm - Embeddable, microfast® Connection, Teflon Coated Barrel 	Bi 10-GT30H-ADZ30X2-B3131/S34/S1610	T4207287-1	WFI	10	2-Wire AC/DC Short-Circuit Protected
30 mm - Embeddable, minifast® Connection, Teflon Coated Barrel 	Bi 10-GT30H-ADZ30X2-B1131/S34/S1610	T4207287	WFI	10	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
10-30 VDC	300	≤200	-25 to +70	IP 67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	2000	≤200	-30 to +85	IP 68	AG/TC	WG	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-25 to +70	IP 67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 2
10-30 VDC	2000	≤200	-25 to +70	IP 67	AG/SS	WG	N/A	YE	RKC 4T-*/S1587	1	Diagram 3
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	AG/TC	WG	GN	YE	KBE 3T-*/S600	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	AG/TC	WG	N/A	YE	RKM 311-*/M/S600	3	

* Length in meters.

Notes:

STAINLESS STEEL FRONT FACE



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 Teflon 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



Also Protects Against:
Abrasion

Stainless Steel Front Face Selection Guide



Style	Stainless Steel Front Face Barrel		
Housing	12 mm	18 mm	30 mm
Sensing Range	2 mm	5 mm	10 mm
Pages	67 - 68	69 - 70	71 - 72



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection, Stainless Steel Front Face 	Bi 2-EM12FE-AP6X-H1141	M4614536	<i>Stainless Steel Body and Face</i>	2	3-Wire DC PNP
12 mm - Embeddable, eurofast Connection, Stainless Steel Front Face, Teflon Coated Barrel 	Bi 2-EMT12FE-AP6X-H1141	M4614561	<i>Teflon Coated, Stainless Steel Body and Face</i>	2	3-Wire DC PNP
12 mm - Embeddable, eurofast Connection, Stainless Steel Front Face, weldguard, Teflon Coated Barrel 	Bi 2-EMT12FE-AP6X-H1141/S1589	M4614596	<i>Teflon Coated, Stainless Steel Body and Face, weldguard</i>	2	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	180	≤200	-25 to +80	IP 68 /IP 69K	SS	SS	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	180	≤200	-25 to +80	IP 68 /IP 69K	SS/TC	SS/TC	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	180	≤200	-25 to +80	IP 68 /IP 69K	SS/TC	SS/WG	N/A	YE	RKC 4T-*/S1587	1	

* 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-EM18FM-AP6X-H1141	M4614539	<i>Stainless Steel Body and Face</i>	5	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Stainless Steel Front Face, Teflon Coated Barrel 	Bi 5-EMT18FM-AP6X-H1141	M4614562	<i>Teflon Coated, Stainless Steel Body and Face</i>	5	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Stainless Steel Front Face, weldguard, Teflon Coated Barrel 	Bi 5-EMT18FM-AP6X-H1141/S1589	M4614597	<i>Teflon Coated, Stainless Steel Body and Face, weldguard</i>	5	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	180	≤200	-25 to +80	IP 68 /IP 69K	SS	SS	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	180	≤200	-25 to +80	IP 68 /IP 69K	SS/TC	SS/TC	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	180	≤200	-25 to +80	IP 68/IP 69K	SS/TC	SS/WG	N/A	YE	RKC 4T-*/S1587	1	

* 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-EM30F-AP6X-H1141	M4614537	<i>Stainless Steel Body and Face</i>	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection, Stainless Steel Front Face, Teflon Coated Barrel 	Bi10-EMT30F-AP6X-H1141	M4614563	<i>Teflon Coated, Stainless Steel Body and Face</i>	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection, Stainless Steel Front Face, weldguard, Teflon Coated Barrel 	Bi10-EMT30F-AP6X-H1141/S1589	M4614598	<i>Teflon Coated, Stainless Steel Body and Face, weldguard</i>	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	180	≤200	-25 to +80	IP 68 /IP 69K	SS	SS	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
10-30 VDC	180	≤200	-25 to +80	IP 68 /IP 69K	SS/TC	SS/TC	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	180	≤200	-25 to +80	IP 68 /IP 69K	SS/TC	SS/WG	N/A	YE	RKC 4T-*/S1587	1	

* Length in meters.

Stainless Steel Front Face

Notes:

stone ***face***®



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 Teflon coated barrels to shed weld slag



MIG WELDING

Also Protects Against:
Weld Slag and Abrasion

stoneface Selection Guide



Style	Embeddable Metal Barrel		
Housing	12 mm	18 mm	30 mm
Sensing Range	2 - 4 mm	5 - 8 mm	10 - 15 mm
Pages	75 - 76, 87 - 88	77 - 82, 87 - 88	83 - 84



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, eurofast® Connection, Extended Barrel Length, Teflon Coated Barrel 	Bi 3-MT12HE-AD4X-H1141	T4405088		3	2-Wire DC
	Bi 3-MT12HE-AD4X-H1144	T4405089		3	
	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	
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, Teflon Coated Barrel 	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
12 mm - Embeddable, microfast® Connection, Teflon 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	



Voltage	Switching Freq. (Hz)	Operating Current (mA)	Operating Temp. (°C)	Protection	Housing	Face	Power LED	Output LED	Mating Cordset	Wiring Diagram #	Wiring Diagrams
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.2T-*/S1587	1	Diagram 1
	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.23T-*/S1587	4	
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RKC 4T-*/S1587	2	Diagram 2
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	2	
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RKC 4T-*/S1587	3	Diagram 3
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	3000	≤200	-30 to +85	IP 68	SS	SF	N/A	YE	RKC 4T-*/S1587	3	Diagram 3
10-30 VDC	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	2	Diagram 4
10-30 VDC	3000	≤200	-30 to +85	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	3	Diagram 5
	2000	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	3	
10-30 VDC	3000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKC 4T-*/S1587	4	Diagram 5
10-30 VDC	3000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKC 4T-*/S1587	2	
20-250 VAC 10-300 VDC	20	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	KBE 3T-*/S600	5	
	20	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	KBE 3T-*/S600	5	

* Length in meters.



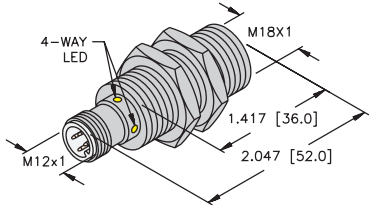
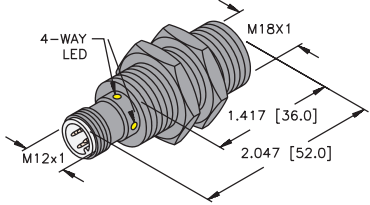
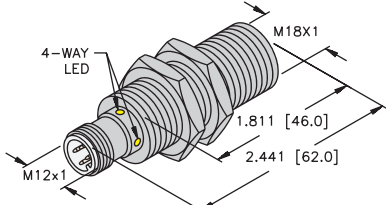
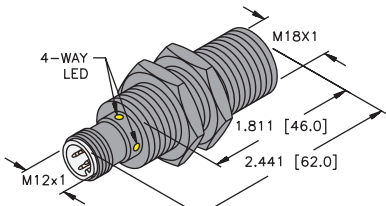
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, <i>minifast</i>® Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B1331/S34	T4255299	WFI	5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, <i>minifast</i> Right Angle Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B1431/S34	T4255287		5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, <i>microfast</i>® Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B3331/S34	T4255289	WFI	5	2-Wire AC/DC Short-Circuit Protected
18 mm - Embeddable, <i>microfast</i> Right Angle Connection, Teflon Coated Barrel 	Bi 5-GT18H-ADZ30X2-B3431/S34	T4255288	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	IP 67	TC	SF	GN	RD	RKM 311-*M/S600	1	Diagram 1 Diagram 2
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	SF	GN	RD	RKM 311-*M/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	SF	GN	RD	KBE 3T-*S600	2	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	SF	GN	RD	KBE 3T-*S600	2	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, eurofast® Connection Stainless Steel Barrel 	Bi 5U-EM18H-AP6X-H1141	M1635112	<i>uprox</i>	5	3-Wire DC PNP
	Bi 8-EM18H-AP6X-H1141	T4615094	<i>Ext. Range</i>	8	
18 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 7-MT18H-AD4X-H1141	T4414580-1	<i>Ext. Range</i>	7	2-Wire DC
18 mm - Embeddable, eurofast Connection Stainless Steel Barrel 	Bi 5U-EM18H-AN6X2-H1141/S395	M1635146	<i>uprox</i>	5	3-Wire DC NPN
	Bi 5U-EM18H-AP6X2-H1141/S395	M1635158	<i>uprox</i>	5	3-Wire DC PNP
18 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 5U-MT18H-AN6X2-H1141/S395	T4255288	<i>uprox</i>	5	3-Wire DC NPN
	Bi 5U-MT18H-AP6X2-H1141/S395	M1635220	<i>uprox</i>	5	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	2500	≤200	-25 to +70	IP 68	SS	SF	N/A	YE	RKC 4T-*/S1587	1	Diagram 1
	500	≤400	-25 to +70	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	1	
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.2T-*/S1587	2	Diagram 2
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKC 4T-*/S1587	3	Diagram 3
10-30 VDC	2500	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKC 4T-*/S1587	1	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RKC 4T-*/S1587	3	
10-30 VDC	2500	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RKC 4T-*/S1587	1	

* Length in meters.



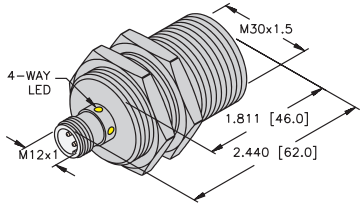
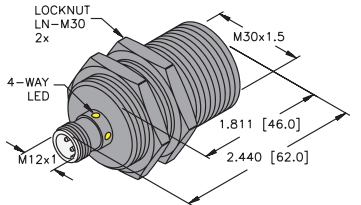
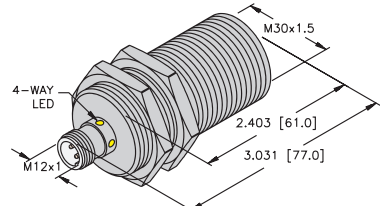
Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
18 mm - Embeddable, Ext. Barrel Length, eurofast® Connection, Stainless Steel Barrel 	Bi 8-EM18HE-AN6X-H1141	T4615194	Ext. Range	8	3-Wire DC NPN
	Bi 8-EM18HE-AP6X-H1141	T4615095	Ext. Range	8	3-Wire DC PNP
18 mm - Embeddable, Ext. Barrel Length, eurofast Connection, Teflon Coated Barrel 	Bi 7-MT18HE-AD4X-H1141	T4414597		7	2-Wire DC
	Bi 7-MT18HE-AD4X-H1144	T4414598		7	
18 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 8-EMT18H-AN6X-H1141	T46150942		8	3-Wire DC NPN
	Bi 8-EMT18H-AP6X-H1141	T46150941		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



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	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	3	Diagram 1
10-30 VDC	500	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	4	Diagram 2
10-65 VDC	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.2T-*/S1587	1	Diagram 3
	1000	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.23T-*/S1587	2	
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	3	Diagram 4
10-30 VDC	500	≤200	-25 to +70	IP 67	TC	SF	N/A	YE	RKC 4T-*/S1587	4	
10-65 VDC	1000	≤100	-25 to +70	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	1	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
30 mm - Embeddable, eurofast® Connection Stainless Steel Barrel 	Bi10U-EM30H-AN6X2-H1141	M1636407	<i>uprox</i>	10	3-Wire DC NPN
	Bi15-EM30H-AN6X-H1141	T4618692	<i>Ext. Range</i>	15	
	Bi10U-EM30H-AP6X2-H1141	M1636406	<i>uprox</i>	10	3-Wire DC PNP
	Bi15-EM30H-AP6X-H1141	T4618592	<i>Ext. Range</i>	15	
30 mm - Embeddable, eurofast Connection, Teflon Coated Barrel 	Bi 12-MT30H-AD4X-H1141	T4417094		12	2-Wire DC
	Bi 12-MT30H-AD4X-H1144	T4417095		12	
	Bi10U-MT30H-AN6X2-H1141	M1636220	<i>uprox</i>	10	3-Wire DC NPN
	Bi10U-MT30H-AP6X2-H1141	M1636415	<i>uprox</i>	10	3-Wire DC PNP
30 mm - Embeddable, eurofast Connection, Extended Length Stainless Steel Barrel 	Bi10U-EM30HE-AP6X2-H1141	T46150942	<i>uprox</i>	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	2000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKC 4T-*/S1587	1	Diagram 1
	300	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	1	
10-30 VDC	2000	≤200	-30 to +85	IP 68	SS	SF	GN	YE	RKC 4T-*/S1587	2	Diagram 2
	300	≤200	-25 to +70	IP 67	SS	SF	N/A	YE	RKC 4T-*/S1587	2	
10-65 VDC	500	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.2T-*/S1587	3	Diagram 3
	500	≤100	-25 to +70	IP 67	TC	SF	N/A	YE	RK 4.23T-*/S1587	4	
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RKC 4T-*/S1587	1	Diagram 3
10-30 VDC	2000	≤200	-30 to +85	IP 67	TC	SF	GN	YE	RKC 4T-*/S1587	2	Diagram 4
10-30 VDC	2000	≤200	-30 to +85	IP 68	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, <i>microfast</i>® Connection, Stainless Steel Barrel 	Bi15-EG30H-ADZ30X2-B3131	T4207284		15	2-Wire AC/DC Short-Circuit Protected
30 mm - Embeddable, <i>microfast</i> Connection, Teflon Coated Barrel 	Bi10-GT30H-ADZ30X2-B3131/S34	T4256094	WFI	10	2-Wire AC/DC Short-Circuit Protected
30 mm - Embeddable, <i>minifast</i>® 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	IP 67	SS	SF	GN	RD	KBE 3T-*/S600	1	Diagram 1 Diagram 2
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	TC	SF	GN	RD	KBE 3T-*/S600	1	
20-250 VAC 10-300 VDC	20	≤400/300	-25 to +70	IP 67	SS	SF	GN	RD	RKM 311M-*/S600	2	

* Length in meters.



Housing Style	Part Number	ID Number	Features	Sensing Range (mm)	Output
12 mm - Embeddable, Potted-In Cable, Teflon Coated Barrel 	Bi 4-GT12H-AP6X	T4670280		4	3-Wire DC PNP
18 mm - Embeddable, Potted-In Cable, Short Length Teflon Coated Barrel 	Bi 7-GT18HK-AD4X	T44145811	Short Barrel	7	2-Wire DC



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

Notes:

ACCESSORIES



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

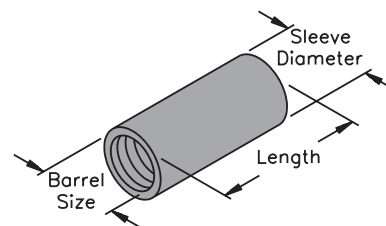
- Cushion mount accessory protects sensor when used as an end stop
- Teflon and ceramic caps protect the sensor face from weld splatter
- **armorguard**® sleeves protect against physical abuse
- Teflon coated quick mount allow for quick change mounting

TURCK

Sensor Accessories

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]

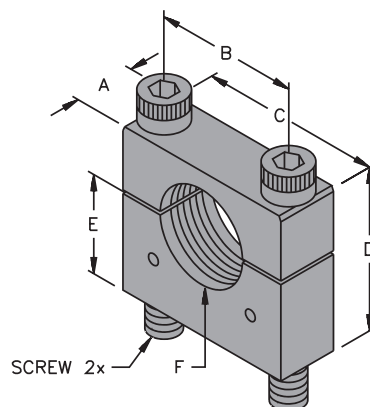


Inches [mm]

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

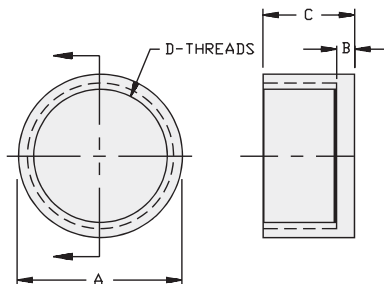
Inches [mm]



Teflon/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

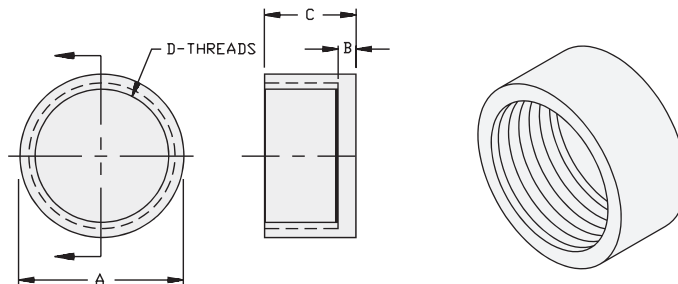
Material: PTFE
Inches [mm]



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

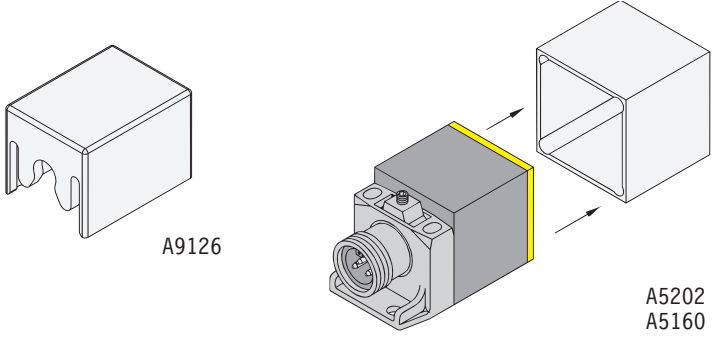


For use with embeddable metal barrel sensors. Longer sleeves available, please consult factory.

CK40 Teflon Covers

Part Number	ID Number	Material
T-CK40-T-FC	A5202	Teflon
T-CK40-D-FC	A5160	Delrin
T-CK40-T-MCC	A5201	Teflon
T-CK40-T-MCB	A9126	Teflon

Inches [mm]



A9126

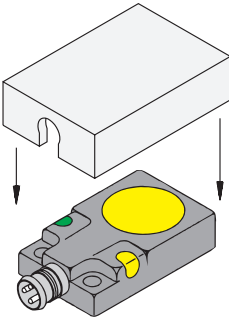
A5202
A5160

For use with **CK40** style sensors.

QPak Teflon 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: Teflon
Inches [mm]
* Cover coated with **weldguard**® laminate.



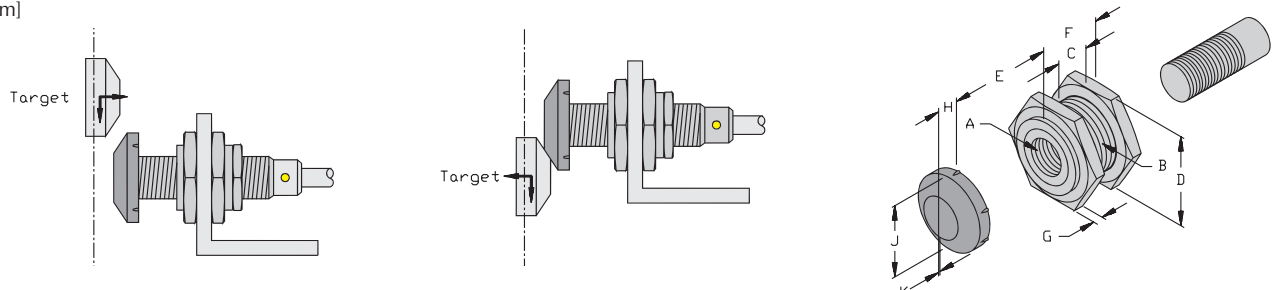
For use with **QPak** style sensors.

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]

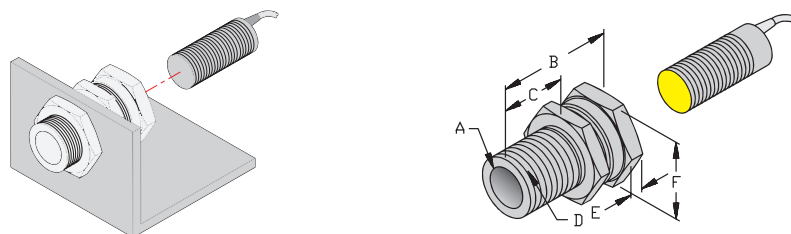
Inches [mm]



Quick Mount, Teflon 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]



Notes:

INSTRUMENTATION



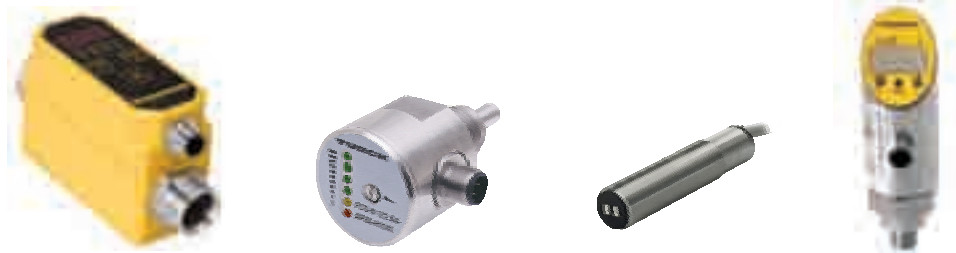
Flow Monitors For Weld Tip Protection

- 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

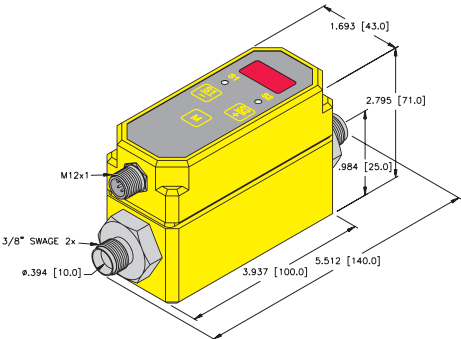
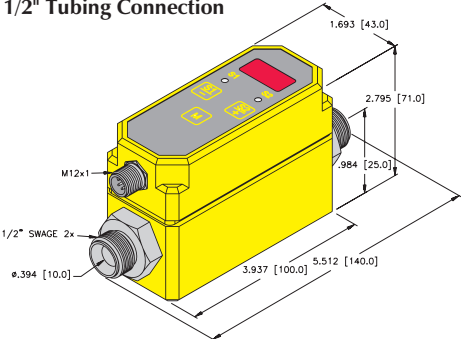
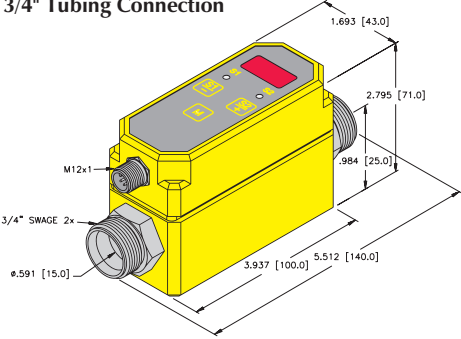
- Pressure sensors for monitoring material transfers
- Hydraulic or pneumatic monitoring
- Mastic dispensing monitoring

Instrumentation Selection Guide



Style	Inline Flow Monitor	Self-Contained Monitor	Air Flow Monitor	Pressure Sensor	Accessories
Pages	97 -102	103 - 104	103 - 104	105 - 106	107



Housing Style	Part Number	ID Number	Flow Detection Range (CPM)	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	IP 65	RK 4.4T-*	1	Diagram 1
21.6-26.4 VDC	≤100	200	290	1/2" swage	0 to +60	IP 65	RK 4.4T-*	1	
21.6-26.4 VDC	≤100	200	290	3/4" swage	0 to +60	IP 65	RK 4.4T-*	1	

* Length in meters.



Housing Style	Part Number	ID Number	Flow Detection Range (CPM)	Temperature Monitoring Range (°C)	Output 1 & 2: Flow	Output 3 & 4: Temperature
Inline Flow Monitor, Digital Readout, 3/8" Tubing Connection 	FTCI-3/8D10A4P-4UP8X-H1160	M6870814	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-4UP8X-H1160	M6870815	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-4UP8X-H1160	M6870813	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	IP 65	RKC 6T-*	1	Diagram 1
21.6-26.4 VDC	≤100	200	290	1/2" swage	0 to +60	IP 65	RKC 6T-*	1	
21.6-26.4 VDC	≤100	200	290	3/4" swage	0 to +60	IP 65	RKC 6T-*	1	

* Length in meters.



Housing Style	Part Number	ID Number	Flow Detection Range (GPM)	Temperature Monitoring Range (°C)	Output 1: Flow/ Temperature	Output 2: Flow
Inline Flow Monitor, Digital Readout, 3/8" Tubing Connection	FTCI-3/8D10A4P-LI-UP8X-H1141	M6870809	0.2 to 4	-10 to +90	PNP N.O./N.C	Analog 4-20 mA
Inline Flow Monitor, Digital Readout, 1/2" Tubing Connection	FTCI-1/2D10A4P-LI-UP8X-H1141	M6870810	0.2 to 5	-10 to +90	PNP N.O./N.C	Analog 4-20 mA
Inline Flow Monitor, Digital Readout, 3/4" Tubing Connection	FTCI-3/4D15A4P-LI-UP8X-H1141	M6870811	1 to 12	-10 to +90	PNP N.O./N.C	Analog 4-20 mA

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	IP 65	RK 4.4T-*	1	Diagram 1
21.6-26.4 VDC	≤100	200	290	1/2" swage	0 to +60	IP 65	RK 4.4T-*	1	
21.6-26.4 VDC	≤100	200	290	3/4" swage	0 to +60	IP 65	RK 4.4T-*	1	

* Length in meters.



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	0.1 to 15 cm/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/ Cable Mat.	Wiring Diagram #	Wiring Diagram
19.2-28.8 VDC	≤60	≤400	1450	1/2 NPT	-25 to +70	-20 to +80	IP 65	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	IP 67	RK 4T-*	N/A	1	
19.2-28.8 VDC	≤70	200	145	M18x1	-20 to +70	-20 to +70	IP 67	N/A	2M/PVC*	2	
19.2-28.8 VDC	≤70	200	145	M18x1	-20 to +70	-20 to +70	IP 67	N/A	2M/PVC*	2	

* Length in meters.



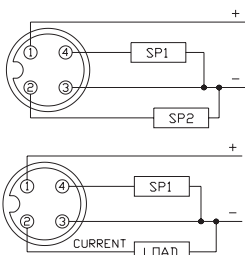
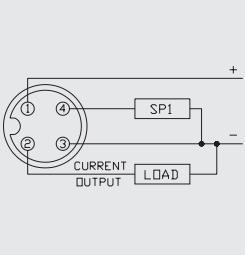
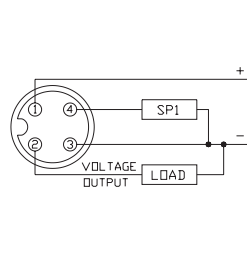
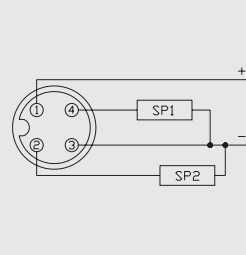
High Accuracy Programmable Pressure Sensor Part Number Key

Style PS = Pressure Sensor Pressure Range 01V = -1 to 0 bar (-14.5 to 0 psi) (vacuum) 001 = 0 to 1 bar (0 to 14.5 psi) 003 = 0 to 2.5 bar (0 to 36 psi) 010 = 0 to 10 bar (0 to 145 psi) 016 = 0 to 16 bar (0 to 232 psi) 025 = 0 to 25 bar (0 to 362.5 psi) 040 = 0 to 40 bar (0 to 580 psi) 100 = 0 to 100 bar (0 to 1450 psi) 250 = 0 to 250 bar (0 to 3625 psi) 400 = 0 to 400 bar (0 to 5800 psi) Type of Pressure R = Relative (Gauge)	Electrical Connection H1141 = 4-pin, M12x1, <i>eurofast</i> Output Circuitry* 2UP8X = 15-30 VDC/(2) N.O./N.C. PNP LIUP8X = 18-30 VDC/Analog Current and (1) N.O./N.C. PNP LUUP8X = 18-30 VDC/Analog Voltage and (1) N.O./N.C. PNP LIUPN8X = 18-30 VDC/Analog Current and (1) N.O./N.C. PNP/NPN or (2) N.O./N.C. PNP/NPN Fluid Connection 01 = G1/4 female thread 1/4 BSPP with DIN 3845 seal 03 = 1/4-18 NPT male threads 05 = 7/16 SAE male Pressure Connection Style 4 = Fixed pressure connection 5 = Rotatable pressure connection
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* NPN versions available.

High Accuracy Programmable Pressure Sensor Specifications

Current Consumption . . . ≤50 mA Switching Freq (Discrete). . . ≤180 Hz Minimum Hysteresis ±0.5% Display Reaction Time: 3 Selectable Modes Slow 600 ms update Normal 200 ms update Fast 50 ms update Wetted Parts Stainless Steel, Viton Al₂O₃ Ceramic Programmable Analog: Analog Start Point. Programmable from 0-75% of measuring range Analog End Point Programmable from 25-100% of measuring range Time Delays: Switching Delay. Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second Power-On Effect Per IEC 947-5-2 Reverse Polarity Protection. Yes Transient Protection EN 60947-5-2 Short-Circuit Protection . . Yes	Temperature Ranges: 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 IP 67 Shock 50 g per IEC 68-2-27 Vibration 20 g (10-200 Hz) per IEC 68-2-6 Burst Protection Patented media stop Accuracy: Repeatability ≤±0.5% of measuring range Zero Shift/Span Shift ≤±0.15% of measuring range/°C LED Function/Display: Measuring Value/Prog . . . 4-digit 7-segment display Status Display LEDs indicate output status and selected measuring units 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
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	LI2UPN8X	LIUP8X	LUUP8X	2UP8X
Output	Programmable Current: 0-20 mA, 4-20 mA, 20-0 mA, 20-4 mA and 1 PNP/NPN N.O./N.C. or 2 PNP/NPN N.O./N.C.	PNP, N.O. or N.C. and Programmable Current: 0-20 mA, 4-20 mA, 20-0 mA, 20-4 mA	PNP, N.O. or N.C. and Programmable Voltage: 0-10 V, 0-5 V, 1-6 V, 10-0 V, 5-0 V, 6-1 V	Dual PNP N.O. or N.C.
Voltage	18-30 VDC	18-30 VDC	18-30 VDC	15-30 VDC
Set Point Accuracy (Of Full Scale)	±0.5%	±0.5%	±0.5%	±0.5%
Analog Accuracy** (Of Full Scale)	≤±0.5%	≤±0.5%	≤±0.5%	N/A
Switching Current	≤200 mA	≤200 mA	≤200 mA	≤200 mA
Analog Load	≤500 Ω	≤500 Ω	≤500 Ω	≤500 Ω
Mating Cordset	RK 4.4T-*	RK 4.4T-*	RK 4.4T-*	RK 4.4T-*
Wiring Diagrams				

* Length in meters.

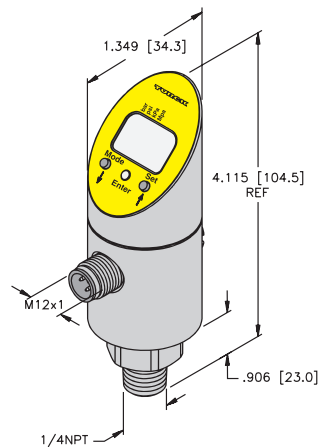
** Accuracy includes linearity, repeatability and hysteresis.



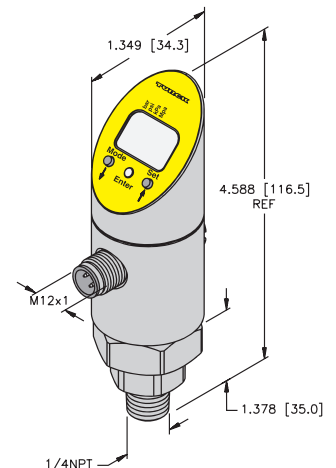
Available Ranges

Part Number	Pressure Range (psig)	Allowable Over Pressure (psig)	Set Point Range (psig)	Re-Set Point Range (psig)
01V	-14.5 to 0	43.5	-14.5 to -0.73	-14.07 to -0.29
001	0 to 14.5	43.5	0.73 to 14.5	0.29 to 14.07
003	0 to 36	108.7	2.17 to 36	0.87 to 35.8
010	0 to 145	362.5	7.25 to 145	2.90 to 140
016	0 to 232	580	11.6 to 232	4.64 to 225
025	0 to 362	942	18.13 to 362	7.25 to 351
040	0 to 580	1450	29 to 580	11.6 to 562
100	0 to 1450	3625	72.5 to 1450	29 to 1406
250	0 to 3625	9064	181 to 3625	72.5 to 3516

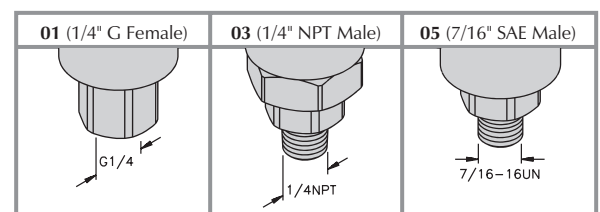
Fixed Housing



Rotatable Housing

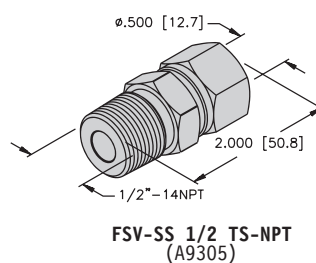
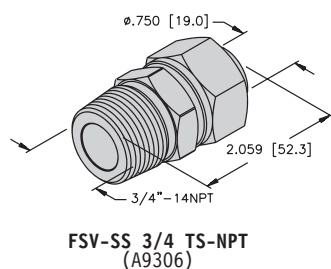
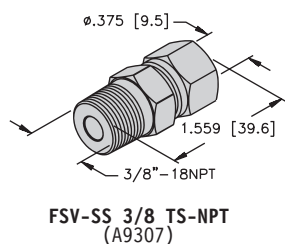
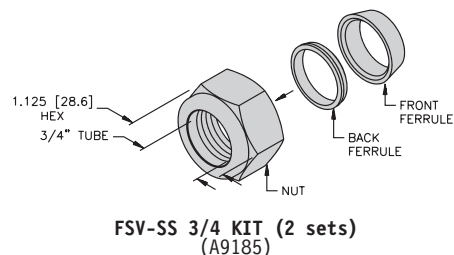
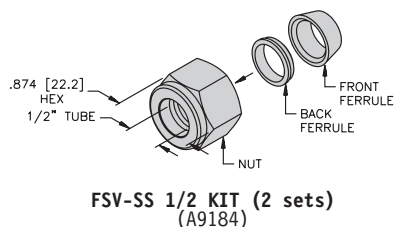
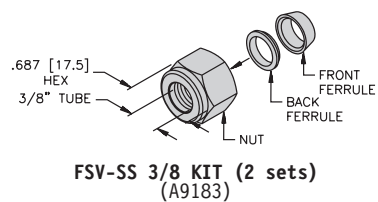


Process Connection Options

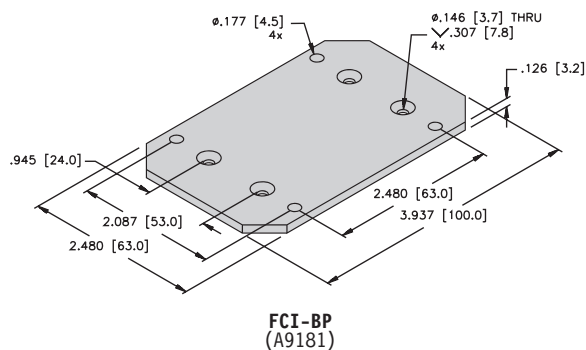


For pressure sensor accessories see page 107.

DRO Flow Sensor Accessories

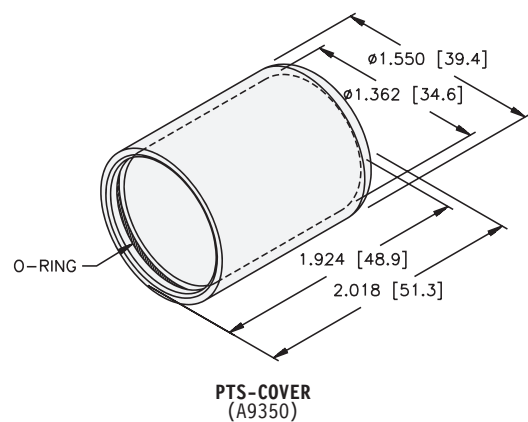


Mounting Bracket



Pressure Sensor Accessories

Clear Cap



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 cable jacket material
- TPE mold material for plug bodies
- Teflon coated coupling nuts
- Protective sleeving, tubing, and tape

Connectivity Selection Guide

108 - 120

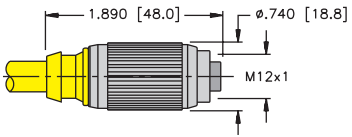
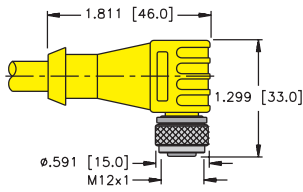
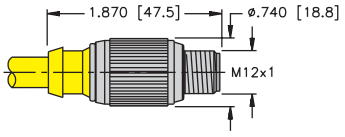
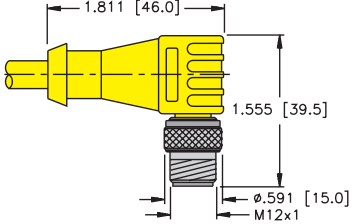
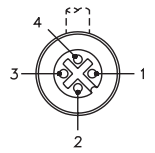
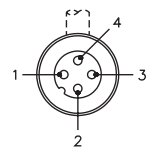
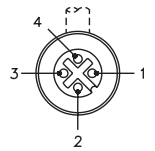
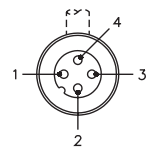
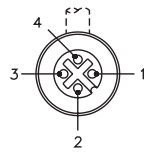
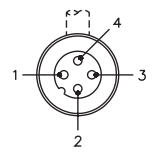
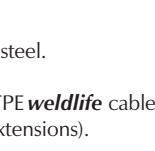


Style	eurofast [®] Cordsets	microfast [®] Cordsets	minifast [®] Cordsets	Accessories
Pages	109 - 113	114	115 - 116	117 - 120

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

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



Housing Style	Part Number	Cable	Features	Pinout	
RKG ..**  WKE ..**  RSG ..**  WSE ..** 	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				
	RKG 4.4T-*/S600	SJOOW, CPE Yellow 4x18 AWG 105 °C 8.0 mm OD Cable #RF50644-*M	Weld Flash Immune, Flame Resistance	1. BN 2. WH 3. BU 4. BK	
	WKE 4.4T-*/S600				
	RSG 4.4T-*/S600				
	WSE 4.4T-*/S600				
	RKG 4.4T-*/S1587	AWM TPE Yellow 4x18 AWG 105 °C 7.3 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				

* 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.."; "RKGW/WKEV/RSGV/WSEV.." indicates 316 stainless steel.

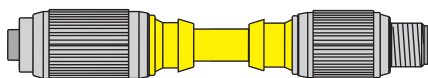
Add "/S1092" to the end of part number for teflon coated coupling nuts.

Add "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE **weldlife** cable.

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).

Add "/S3031" to end of part number for TPE mold body, teflon coated coupling nuts and silicone tubing.

Extension Example:



RKG .. - RSG ..

RKG

4T

- 0.3

- RSG

4T

/S600

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

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

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



Housing Style	Part Number	Cable	Features	Pinout
RKC ..** 1.654 [42.0] 0.589 [15.0] M12x1 ANTI-VIBRATION DETENT WKC ..** 1.736 [44.1] 1.122 [28.5] 0.532 [13.5] M12x1 RSC ..** 1.909 [48.5] .531 [13.5] M12x1 WSC ..** 1.736 [44.1] 1.377 [35.0] 0.531 [13.5] M12x1	RKC 4T-*/S1587	AWM TPE Yellow 3x18 AWG 105 °C 5.3 mm OD Cable #RF51566-*M	Weld Flash Immune	 1. BN 2. N/C 3. BU 4. BK
	WKC 4T-*/S1587			
	RSC 4T-*/S1587			
	WSC 4T-*/S1587			
	RKC 4.4T-*/S1587	AWM TPE Yellow 4x18 AWG 105 °C 7.3 mm OD Cable #RF50956-*M	Weld Flash Immune	 1. BN 2. WH 3. BU 4. BK
	WKC 4.4T-*/S1587			
	RSC 4.4T-*/S1587			
	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 teflon coated coupling nuts.

Add "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE *weldlife* cable.

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).

Add "/S3031" to end of part number for TPE mold body, teflon coated coupling nuts and silicone tubing.

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.

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

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



Housing Style	Part Number	Cable	Features	Pinout
RK ..** WK ..** RS ..** WS ..**	RK 4.2T-*/S1587	AWM TPE Yellow 2x22 AWG 105 °C 4.5 mm OD Cable #RF51560-*M	<i>weldlife, Weld Flash Immune</i>	
	WK 4.2T-*/S1587			1. N/C 2. N/C 3. BN 4. BU
	RS 4.2T-*/S1587			
	WS 4.2T-*/S1587			1. BN 2. N/C 3. N/C 4. BU
RK ..** WK ..** RS ..** WS ..**	RK 4.23T-*/S1587	AWM TPE Yellow 2x22 AWG 105 °C 4.5 mm OD Cable #RF51560-*M	<i>weldlife, Weld Flash Immune</i>	
	WK 4.23T-*/S1587			1. BN 2. N/C 3. N/C 4. BU
	RS 4.23T-*/S1587			
	WS 4.23T-*/S1587			1. BN 2. N/C 3. N/C 4. BU

* 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 "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE *weldlife* cable.

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 ..

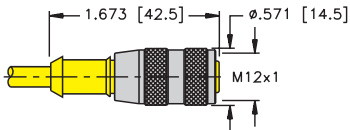
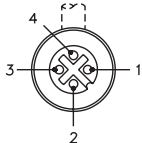
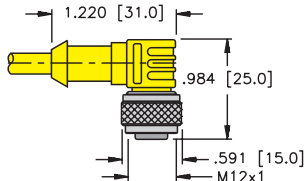
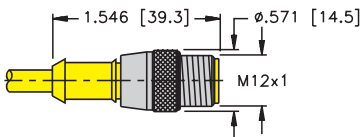
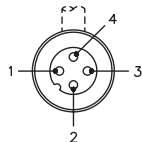
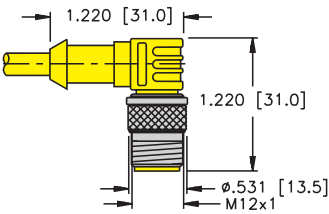
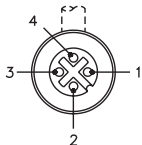
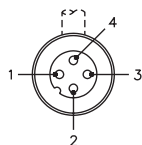
RK 4.2T - 2 - RS 4.2T /S1587

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

3 and 4-Wire *euromast*® Cordsets, Standard Plug Body

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



Housing Style	Part Number	Cable	Features	Pinout
RK ..** 	RK 4T-*/S1587	AWM TPE Yellow 3x22 AWG 105 °C 4.5 mm OD Cable #RF51559-*M	weldlife, Weld Flash Immune	
WK ..** 	WK 4T-*/S1587			
RS ..** 	RS 4T-*/S1587			
WS ..** 	WS 4T-*/S1587			
	RK 4.4T-*/S1587	AWM TPE Yellow 4x22 AWG 105 °C 5.7 mm OD Cable #RF51132-*M	weldlife, Weld Flash Immune	
	WK 4.4T-*/S1587			
	RS 4.4T-*/S1587			
	WS 4.4T-*/S1587			

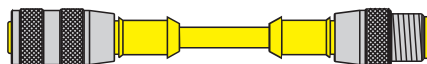
* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.

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

Add "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE *weldlife* cable.

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

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 IP 68 Protection
- 250 VAC/VDC, 4 A

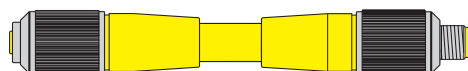


Housing Style	Part Number	Cable	Features	Pinout
RKA ..** 2.598 [66.0] ϕ.862 [21.9] M12x1 RSA ..** 2.835 [72.0] ϕ.862 [21.9] M12x1 RKA 4.4A-* 2.283 [58.0] ϕ.830 [21.1] M12x1 RSA 4.4A-* 2.283 [58.0] ϕ.830 [21.1] M12x1 RKR ..** 2.406 [61.1] ϕ.830 [21.1] M12x1 RSR ..** 2.406 [61.1] ϕ.830 [21.1] M12x1	RKA 4A-*	Interlock Al Armor MC/ITC/PLTC PVC Yellow 3x18 AWG 90 °C 13.5 mm OD Cable #RF51040-*M	Extreme Duty Armored Cable, Tray Rated Cable	1. BK 2. N/C 3. WH 4. GN
	RSA 4A-*			
	RKA 4.4A-*	Interlock Al Armor MC/ITC/PLTC PVC Yellow 4x18 AWG 90 °C 13.5 mm OD Cable #RF51041-*M		1. BK 2. RD 3. WH 4. GN
	RSA 4.4A-*			
	RKR 4.4A-*	Interlock Al Armor ITC/PLTC PVC Yellow 4x22 AWG 105 °C 11.2 mm OD Cable #RF50872-*M		1. BN 2. WH 3. BU 4. BK
	RSR 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.

**Sacrificial
Extension
Example:**



RKA .. - RSA ..

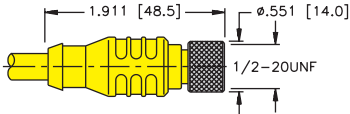
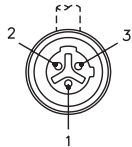
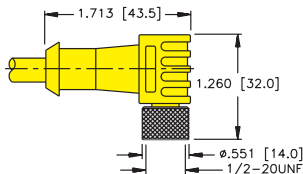
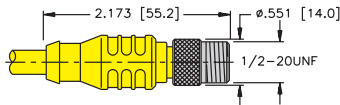
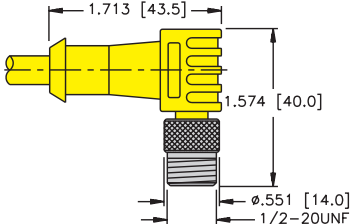
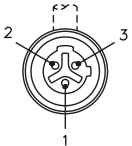
RKA 4.4A - 0.5 - RSA 4.4A

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

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

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



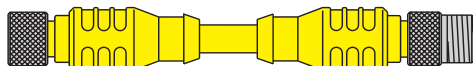
Housing Style	Part Number	Cable	Features	Pinout
KBE ..** 	KBE 3T-*/S600	SJOOW, CPE Yellow 3x18 AWG 105 °C 8.0 mm OD Cable #RF50685-*M	Weld Flash Immune, Flame Resistance, Automotive Color Code	
WKBE ..** 	WKBE 3T-*/S600			
SBE ..** 	SBE 3T-*/S600			
WSBE..** 	WSBE 3T-*/S600			
				1. GN 2. RD/BK 3. RD/WH
	KBE 3T-*/S1587	TPE Yellow 3x18 AWG 105 °C 7.3 mm OD Cable #RF50957-*M	weldlife, Weld Flash Immune, Automotive Color Code	
	WKBE 3T-*/S1587			
	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 "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE *weldlife* cable. 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

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 IP 68 Protection
- 300 VAC/VDC, 9 A



Housing Style	Part Number	Cable	Features	Pinout	
RKM 31 ..** WKM 31 ..** RSM 31 ..** WSM 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				
	WSM 31-*M/S600				
	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				
	RKM 311-*M/S1587	TPE Yellow 3x18 AWG 105 °C 7.2 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 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 "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE **weldlife** cable.

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).

3-Wire minifast® Cordsets, Heavy Duty

- NEMA 1, 3, 4, 6P and IEC IP 68 Protection
- 600 VAC/VDC, 9 A



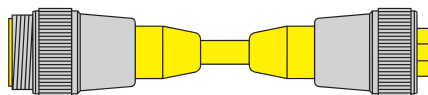
Housing Style	Part Number	Cable	Features	Pinout
RKM 35 ..** 	RKM 35-*M/S600	SJOOW, CPE Yellow 3x16 AWG 105 °C 10.3 mm OD Cable #RF50596-*M	Weld Flash Immune, Flame Resistance	1. GN 2. RD 3. RD
WKM 35 ..** 	WKM 35-*M/S600			
RSM 35 ..** 	RSM 35-*M/S600			1. GN 2. RD 3. RD
WSM 35 ..** 	WSM 35-*M/S600			

* 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.

Add "/S1095" to end of part number for TPE mold body (can be used with any jacket style) and add "/S1094" for TPE mold body and TPE **weldlife** cable.

Extension
Example:



RSM .. - RKM ..

RSM RKM 35 - 2M /S600

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

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.	<i>"Heat shrink" like fit with abrasion, moisture, cut-through chemical and weld slag resistance.</i>
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.	<i>Excellent weld slag resistance.</i>
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 (*pico*fast[®], *eu*rofast[®], *micro*fast[®] and *mini*fast[®]; 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	Applicable 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.	<i>Tape offers excellent resistance to water, most chemicals, heat, sparks, and flame in a wide operating temperature range, while being lightweight, and highly flexible.</i>

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Literature and Media questions or concerns?
Contact Marketing Communications **TURCK** USA - media@turck.com

TURCK Welding Solutions

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MBS-30TS 7MM	91	RKC 4.4T-*/S1587	110	WSE 4.4T-*/S1587	109
Ni 14-GT18H-ADZ30X2-B3331/S1589	39	RKC 4T-*/S1587	110	WSE 4.4T-*/S600	109
Ni 3-EG08-AN6X/S1589	21	RKG 4.4T-*/S1587	109	WSE 4T-*/S600	109
Ni 3-EG08-AN6X-H1341/S1589	19	RKG 4.4T-*/S600	109	WSM 31-*/S600	115
Ni 3-EG08-AP6X/S1589	21	RKG 4T-*/S600	109	WSM 311-*/S1587	115
Ni 3-EG08-AP6X-H1341/S1589	19	RKM 31-*/S600	115	WSM 311-*/S600	115
Ni 4-EG08-AG41X-H1341/S1589	19	RKM 311-*/S1587	115	WSM 35-*/S600	116
Ni 4-EG08K-AG41X-H1341/S1589	19	RKM 311-*/S600	115		
Ni 4-EG08K-AP6X/S1589	21	RKM 35-*/S600	116		
Ni 4-GT12H-ADZ32X-B3131/S34/S1589	27	RKR 4.4A-*	113		
Ni 4U-EG08-AP6X-H1341/S1589	19	RS 4.23T-*/S1587	111		
Ni 5-GT18H-ADZ30X2-B1331/S1589	39	RS 4.2T-*/S1587	111		
Ni 5-GT18H-ADZ30X2-B1331/S34/S1589	39	RS 4.4T-*/S1587	112		
Ni 5-GT18H-ADZ30X2-B1431/S34/S1589	39	RS 4T-*/S1587	112		
Ni 8-EM12HE-AN6X-H1141/S1589	25	RSA 4.4A-*	113		
Ni 8-EM12HE-AP6X-H1141/S1589	25	RSA 4A-*	113		
Ni 8-GT12H-ADZ32X-B3131/S1589	27	RSC 4.4T-*/S1587	110		

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