PROXIMITY SENSORS

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

www.turck.us
What's New

Uprox+ Sensors
All Metals, Same Extended Sensing Ranges
Part Number Key and Product Selection

Rectangular Inductive Sensors
Wide Selection of Sensing Ranges for All Metals,
Part Number Key and Product Selection

Inductive Barrel Sensors
Single Range Sensing for all Materials, General Information,
Part Number Key and Product Selection

Harsh Duty Sensors
Low Temperature, High Temperature, Washdown, General Information,
Part Number Key and Product Selection

Specialty Sensors
Rotational Speed, Ring, Slot, Magnetic Barrel Sensors, General Information,
Part Number Key and Product Selection

Analog Sensors
Material Detection Sensor, Linear Analog and Frequency Output, General Information,
Part Number Key and Product Selection

Capacitive Sensors
All Material Sensing, General Information,
Part Number Key and Product Selection

Cylinder Position Sensors
Inductive Magnet and Magneto Resistive Sensing
General Information, Part Number Key and Product Selection

Mating Cordsets
Mating Cordsets, Field Wireables

Accessories
Sensor Accessories, Mounting Brackets,
Teflon Caps and other Accessories

General Specifications
Introduction, Glossary, Wiring Instructions,
Compliances, Enclosure Ratings and Materials

Index
Conversions, Indexes, Warranty Terms
and International Service and Consulting
**What's New?**

**Extended Temperature Ranges for Uprox+ Wash down**

- -40° to +100° C temperature rating standard
- Extended sensing ranges to all metals
- Quick disconnect, potted in cable and new terminal chamber option, rated IP 68 and IP 69K
- 316 stainless steel barrels in 12, 18, and 30mm
- 3 Wire DC with NPN and PNP outputs
- Ecolab certified

**Section E - Harsh Duty Sensors**

**Two-Wire DC Uprox+**

- 2 wire DC outputs added
- Available in 12, 18, 30 and CK40 housing styles.
- Teflon coated barrels optional for welding environments.

**Section B - Uprox+ Sensors**

**Increased Sensing range in 8mm Uprox+ barrel**

- Up to 6 mm sensing range to all metals
- IP68 rated
- Cable and quick disconnect versions
- NPN and PNP versions

**Section B - Uprox+ Sensors**

**Small Rectangular sensor now offered as Uprox+**

- 5mm sensing range (Ni 5U-Q10S)
- 3 Wire DC NPN and PNP versions
- Polypropylene housing
- Bright LED with wide angle visibility

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

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

Section B - *Uprox+* Sensors

Quick Mount with Rotatable Sensing Head

- Rotatable sensing face with unique locking feature
- Quick adjustment
- 20 mm and 50 mm Sensing ranges standard

Section C - Rectangular Sensors

Turck Expands its stainless Steel Offering

- New 8 mm diameter barrel added to line
- 2 wire DC output available in addition to standard 3 wire NPN and PNP

Section E - Harsh Duty Sensors

New Sensors for Mobile Equipment

- Wide temperature rating, -40° to +100° C
- High Shock and Vibration
- Protection against voltage transients common to mobile equipment and high noise immunity
- Wide voltage supply (8.4 to 65 VDC)
- 12, 18, 30 mm stainless steel barrels and Q14 and Q20 QPak designs

Section E - Harsh Duty Sensors
What’s New?

FM Approved Proximity Sensors
- Approved versions include quick disconnect with lock fast accessory
- Class 1, Division 2, Groups A, B, C, D
- 12, 18, 30 mm barrels, Q20 and CP40 rectangular housings.
- 3 and 4 wire DC (PNP or NPN) outputs

Section F - Specialty Sensors

Inclinometer to Measure Tilt Angle
- Two Axis inclinometer sensor (X and Y axis)
- Up to 170° measuring angle in 2 axis
- Analog Voltage and Analog Current outputs
- IP67 plastic housing
- -30° to +70° C rated
- M12 Eurofast connection
- Teachable zero point

Section F - Specialty Sensors

Q25L Magnetic Analog sensor
- 100, 125, 160 and 200 mm measuring span's
- Compact overall length due to limited blind zone
- 25mm low profile design
- Includes analog voltage (0 -10 V) and current (4-20 mA)
- 0.1% repeatability
- Versatile mounting brackets

Section J - Cylinder Sensors

WIM45 Magnetic Analog Sensor
- 45mm active sensing area for stroke feedback
- One hand mounting
- Mounts in T-Groove Cylinders without accessories.
- Can be mounted to other cylinder types with optional mounting accessories
- Includes analog voltage (0 -10 V) and current (4-20 mA)

Section J - Cylinder Sensors
What's New?

UNT Magnetic Cylinder Sensor
- One handed mounting
- Mounts in T-Groove Cylinders without accessories.
- Can be mounted to other cylinder types with optional mounting accessories
- 2 or 3 wire DC versions with NPN and PNP outputs

Section J - Cylinder Sensors

Dual Magnetic UNT
- Single connection for two cylinder sensors
- One handed mounting
- Mounts in T-Groove Cylinders without accessories.
- Can be mounted to other cylinder types with optional mounting accessories

Section J - Cylinder Sensors

Nut Sensor
- Designed to sense M5 to M20 diameter fasteners and weld nuts
- Teachable sensing to ferrous targets
- 3 wire DC PNP and NPN outputs
- Optional coatings for protection against weld slag and wear

Section F - Specialty Sensors

QPak Capacitive Sensor
- New housing style (Q20L60) for BCF family
- Enhanced performance when sensing media with chlorides (i.e., detergents)
- Enhanced noise immunity
- Sensitivity adjustment via potentiometer

Section H - Capacitive Sensors

Enhanced sensing for low dielectric materials
- BCC10 is designed to work with low dielectric plastics.
- Normally closed version standard with visible LED indication
- Enhanced shielding
- High resistance to ESD and noise.

Section H - Capacitive Sensors