


TURCK Inductive Sensors - Barrels

G and GT Barrel




Barrel, Metal with Quick Disconnect - Standard, Teflon Coated Full Threading

2-Wire AC 
35-250 VAC, 10-300 VDC
Normally Open (AZ33X) or Normally Closed (RZ33X)



Sensor Selection

| Part Number | Embeddable | Rated Operating Distance (mm) | Barrel Diameter (mm) | Barrel Material | Normally Open | Normally Closed | Drawing # | Wiring Diagram | # of LEDs | Weld Field Immune (S34) | Switching Frequency (Hz) | ID Number | Connection |
|---------------------------|------------|-------------------------------|----------------------|-----------------|---------------|-----------------|-----------|----------------|-----------|-------------------------|--------------------------|-----------|--|
| Bi 2-G12-AZ33X-B3131 | • | 2 | 12 | CPB | • | 1 | A | 1 | | | 60 | T1304032 |  Mating Cordsets KB 3T-2 (2 meter) For other styles see Section H or consult "Cordsets" catalog |
| Ni 4-G12-AZ33X-B3131 | | 4 | 12 | CPB | | 2 | A | 1 | | | 60 | T1304232 | |
| Bi 2-G12-RZ33X-B3131 | • | 2 | 12 | CPB | | • 1 | B | 1 | | | 60 | T1314032 | |
| Ni 4-G12-RZ33X-B3131 | | 4 | 12 | CPB | | • 2 | B | 1 | | | 60 | T1314232 | |
| Bi 2-GT12-AZ33X-B3131/S34 | • | 2 | 12 | TC | | 1 | A | 1 | • | | 60 | T1304082 | |
| Ni 4-GT12-AZ33X-B3131/S34 | | 4 | 12 | TC | | 2 | A | 1 | • | | 60 | T1304292 | |

Material

Connector: Chrome Plated Brass
 Barrel: CPB = Chrome Plated Brass
 TC = Teflon Coated
 Sensing Face: PA 12-GF30 Plastic

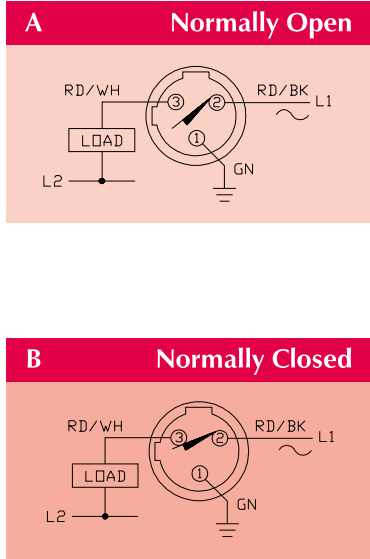
Accessories

Accessories and mounting devices can be found in [Section J](#).

Specifications

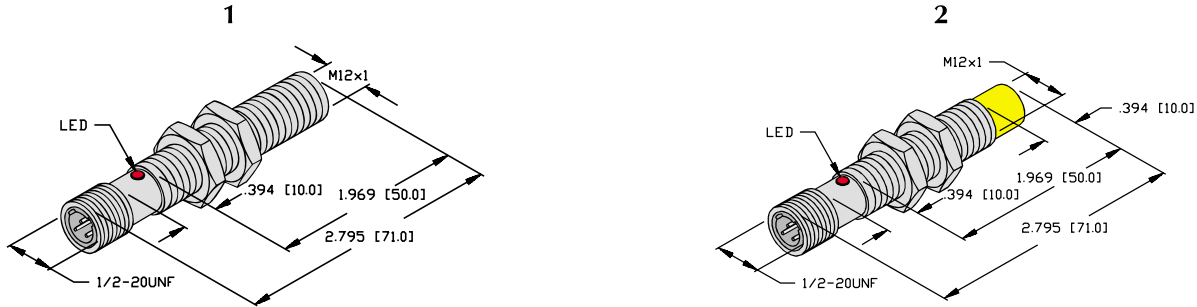
| | |
|---|---------------------------------------|
| Line Frequency | 40-60 Hz |
| Differential Travel (Hysteresis) | 3-15% (5% typical) |
| Voltage Drop Across Conducting Sensor | ≤6.0 V at 200 mA |
| Continuous Load Current | ≤200 mA |
| Off-State (Leakage) Current | ≤1.7 mA |
| Minimum Load Current | ≥3.0 mA |
| Inrush Current | ≤1.0 A (≤30 ms, 15% Duty Cycle) |
| Time Delay Before Availability | ≤60 ms |
| Power-On Effect | Per IEC 947-5-2 |
| Transient Protection | Per EN 60947-5-2 |
| Operating Temperature | -25°C to +70°C (-13°F to +158°F) |
| Enclosure | Meets NEMA 1,3,4,6,13 and IEC IP 67 |
| Shock | 30 g, 11 ms |
| Vibration | 55 Hz, 1 mm Amplitude in all 3 Planes |
| Repeatability | ≤2% of Rated Operating Distance |
| LED On | Output Energized |

Wiring Diagrams



Barrels

Dimensions



Note: Teflon coated lock washers included with Teflon coated sensors.