


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

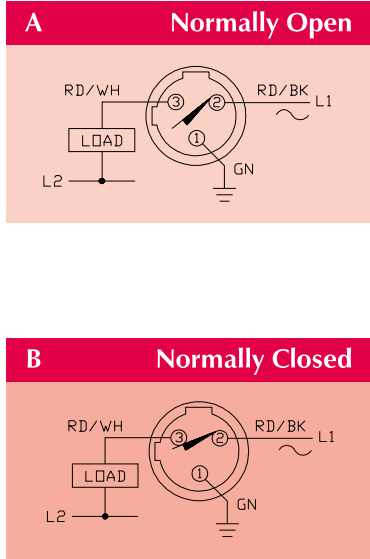
Accessories

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

Specifications

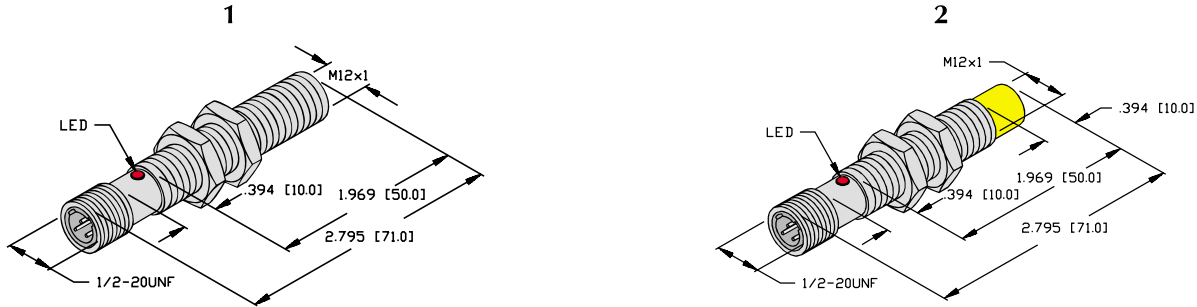
Line Frequency	40-60 Hz
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤6.0 V at 200 mA
Continuous Load Current	≤200 mA
Off-State (Leakage) Current	≤1.7 mA
Minimum Load Current	≥3.0 mA
Inrush Current	≤1.0 A (≤30 ms, 15% Duty Cycle)
Time Delay Before Availability	≤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.