


# TURCK

## Inductive Sensors - Barrels

### G Barrel

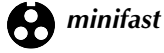
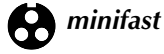
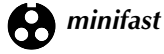


### Barrel, Metal with Quick Disconnect Full Threading

2-Wire AC   
 20-250 VAC  
 Normally Open (AZ3X) or Normally Closed (RZ3X)



### Sensor Selection

Part Number	Embeddable	Rated Operating Distance (mm)	Barrel Diameter (mm)	Normally Open	Normally Closed	Drawing #	Wiring Diagram	# of LEDs	CSA Certification	Switching Frequency (Hz)	ID Number	Connection
Bi 5-G18-AZ3X-B1331	•	5	18	•	•	1	A	1	•	20	T4372000	 <b>Mating Cordsets</b> RKM 30-2M (2 meter) For other styles see Section H or consult "Cordsets" catalog
Bi10-G30-AZ3X-B1131	•	10	30	•	•	3	A	1	•	20	T4372200	
Ni10-G18-AZ3X-B1331		10	18	•	•	2	A	1	•	20	T4372100	
Ni15-G30-AZ3X-B1131		15	30	•	•	4	A	1	•	20	T4372300	
Bi 5-G18-RZ3X-B1331	•	5	18	•	•	1	B	1	•	20	T4373100	 <b>Mating Cordsets</b> RK 30-2M (2 meter) For other styles see Section H or consult "Cordsets" catalog
Bi10-G30-RZ3X-B1131	•	10	30	•	•	3	B	1	•	20	T4373300	
Ni10-G18-RZ3X-B1331		10	18	•	•	2	B	1	•	20	T4330790	
Ni15-G30-RZ3X-B1131		15	30	•	•	4	B	1	•	20	T4373600	
Bi20-G47-AZ3X-B2131	•	20	47	•	•	5	A	1		20	M4375900	 <b>Mating Cordsets</b> RK 30-2M (2 meter) For other styles see Section H or consult "Cordsets" catalog
Bi20-G47-RZ3X-B2131	•	20	47	•	•	5	B	1		20	M4376000	

### Material

Connector (B2131): Polyamide Plastic  
 Connector (B1131 & B1331): Chrome Plated Brass  
 Barrel: Chrome Plated Brass  
 Sensing Face: PA 12-GF30 Plastic

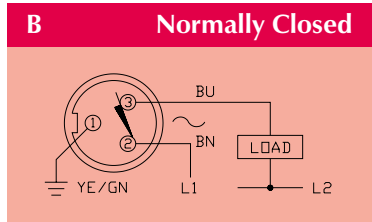
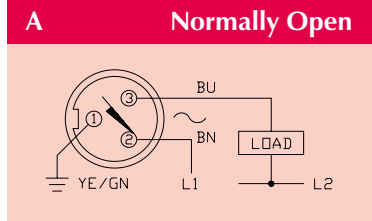
### Accessories

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 . . . . .	≤7.0 V at 500 mA
Continuous Load Current . . . . .	≤500 mA
Off-State (Leakage) Current . . . . .	≤1.7 mA
Minimum Load Current . . . . .	≥5.0 mA
Inrush Current . . . . .	≤8.0 A (≤10 ms, 5% Duty Cycle)
Time Delay Before Availability . . . . .	G18/G30 styles: ≤25 ms; G47 style: ≤80 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

