

TURCK

Inductive Sensors - Barrels

G Barrel



Barrel, Metal with Potted-In Cable - Standard, Stainless Steel
Full Threading, Standard and Extended Range

2-Wire AC/DC 
 20-250 VAC, 10-300 VDC Short-Circuit and Overload Protected
 Normally Open



Sensor Selection

Part Number	Embeddable	Rated Operating Distance (mm)	Extended Range	Barrel Diameter (mm)	Barrel Material	Normally Open	Normally Closed	Drawing #	Wiring Diagram	# of LEDs	Weld Field Immune (/S34)	Switching Frequency (Hz)	ID Number
Bi 2-GT12-ADZ32X/S34	•	2		12	TC	•		1	A	1		60	T4205210
Bi 4-G12-ADZ32X	•	4	•	12	CPB	•		1	A	1		60	T4205030
Bi 5-G18-ADZ30X2	•	5		18	CPB	•		3	A	2		60	T4212000
Bi 8-G18-ADZ30X2	•	8	•	18	SS	•		3	A	2		60	T4209320
Bi10-G30-ADZ30X2	•	10		30	CPB	•		5	A	2		60	T4207000
Bi15-G30-ADZ30X2	•	15	•	30	SS	•		5	A	2		60	T4207200
Ni 4-GT12-ADZ32X/S34		4		12	TC	•		2	A	1		60	T4205010
Ni 8-G12-ADZ32X		8	•	12	SS	•		2	A	1		60	M4205400
Ni14-G18-ADZ30X2		14	•	18	SS	•		4	A	2		60	M4205402
Ni20-G30-ADZ30X2		20	•	30	SS	•		6	A	2		60	M4205404

Cable/Conductor

Cable: PVC Jacket; 2 and 7 meter standard length
 Copper Conductor: 21 AWG
 (PVC insulated)

Material

Barrel/Locknuts: CPB = Chrome Plated Brass;
 SS = Stainless Steel
 Plastic Sensing Face: PA 12-GF30
 End Cap: PUR Plastic

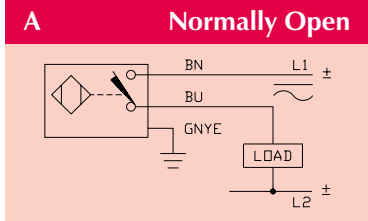
Accessories

[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 full rated current
Trigger Current for Overload Protection	AC: ≥440 mA; DC: ≥330 mA
Continuous Load Current	AC: ≤400 mA; DC: ≤300 mA
Off-State (Leakage) Current	≤1.7 mA
Minimum Load Current	≥3.0 mA
Inrush Current	≤4.0 A (≤20 ms, 10% Duty Cycle)
Time Delay Before Availability	≤15 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 (Red)	Output Energized
LED On (Green)	Power On
LED Flashing (Green)	Short-Circuit Warning

Wiring Diagram



Barrels

Dimensions

