


TURCK

Inductive Sensors - Barrels

G and EG Barrel



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

3-Wire DC 
 10-30 VDC, Short-Circuit and Overload Protected
 Normally Open*, NPN (Sinking) or PNP (Sourcing)



Sensor Selection

Part Number	Embeddable	Rated Operating Distance (mm)	Barrel Diameter (mm)	Sinking	Sourcing	Drawing #	Wiring Diagram	# of LEDs	FM Approved Division 2	Switching Frequency (Hz)	ID Number
Bi 2-G12-AN6X	•	2	12	•		1	A	1	•	2000	T4635500
Bi 5-G18-AN6X	•	5	18	•		3	A	1	•	1000	T4641500
Bi10-G30-AN6X	•	10	30	•		5	A	1	•	500	T4647500
Ni 5-G12-AN6X		5	12	•		2	A	1	•	1500	T4635700
Ni10-G18-AN6X		10	18	•		4	A	1	•	1000	T4641700
Ni15-G30-AN6X		15	30	•		6	A	1	•	500	T4647700
Bi 2-G12-AP6X	•	2	12		•	1	B	1	•	2000	T4635400
Bi 5-G18-AP6X	•	5	18		•	3	B	1	•	1000	T4641400
Bi10-G30-AP6X	•	10	30		•	5	B	1	•	500	T4647400
Ni 5-G12-AP6X		5	12		•	2	B	1	•	1500	T4635600
Ni10-G18-AP6X		10	18		•	4	B	1	•	1000	T4641600
Ni15-G30-AP6X		15	30		•	6	B	1	•	500	T4647600
Bi 2-EG12-AN6X	•	2	12	•		1	A	1	•	2000	T4605101
Bi 5-EG18-AN6X	•	5	18	•		3	A	1	•	1000	T4611101
Bi 2-EG12-AP6X	•	2	12		•	1	B	1	•	2000	T4605001
Bi 5-EG18-AP6X	•	5	18		•	3	B	1	•	1000	T4611001

* Normally Closed versions available upon request, consult factory.

Cable/Conductor

Cable: PVC Jacket; 2 and 7 meter standard length
 Copper Conductor: G12: 24 AWG
 (PVC insulated) G18/G30: 21AWG

Material

G Barrel/Locknuts: Chrome Plated Brass
 EG Barrel/Locknuts: Stainless Steel
 Sensing Face: PA 12-GF30 Plastic
 End Cap: PUR Plastic

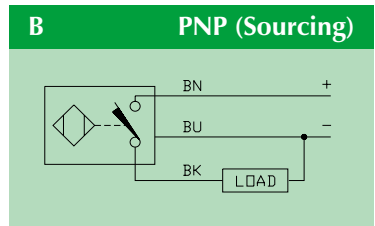
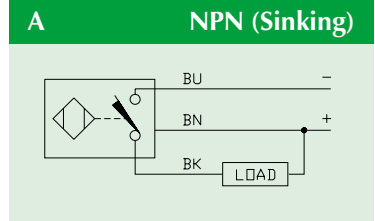
Accessories

Accessories and mounting devices can be found in Section J.

Specifications

Ripple	≤10%
Differential Travel (Hysteresis)	3-15% (5% typical)
Voltage Drop Across Conducting Sensor	≤1.8 V at 200 mA
Trigger Current for Overload Protection	≥220 mA
Continuous Load Current	≤200 mA
Off-State (Leakage) Current	<10 μA
No-Load Current	5.5-9.5 mA
Time Delay Before Availability	≤8 ms
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Incorporated
Wire-Break Protection	Incorporated
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

