

TURCK

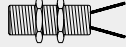
Inductive Sensors - Barrels

S Barrel



Barrel, Plastic with Potted-In Cable Partial 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
Bi 5-S18-AZ3X	•	5	18	•		1	A	1	•	20	T4350400
Bi 10-S30-AZ3X	•	10	30	•		2	A	1	•	20	T4355400
Ni 8-S18-AZ3X		8	18	•		1	A	1	•	20	T4350500
Ni 15-S30-AZ3X		15	30	•		2	A	1	•	20	T4355500
Bi 5-S18-RZ3X	•	5	18		•	1	B	1	•	20	T4350600
Bi 10-S30-RZ3X	•	10	30		•	2	B	1	•	20	T4355600
Ni 8-S18-RZ3X		8	18		•	1	B	1	•	20	T4350700
Ni 15-S30-RZ3X		15	30		•	2	B	1	•	20	T4355700

Cable/Conductor

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

Material

Barrel: PA 12-GF30 Plastic
End Cap: PUR Plastic

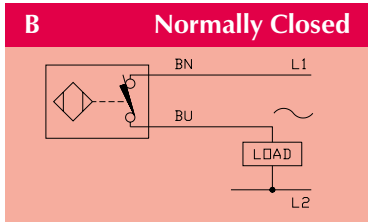
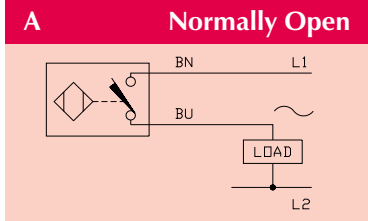
Accessories

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	≤7.0 V at 500 mA (100 mA for S100 style)
Continuous Load Current	≤500 mA (100 mA for S100 style)
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	≤25 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 1,3,4,4X,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 Diagram



Barrels

Dimensions

