



TURCK Cylinder Position Sensors

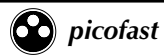
INT



Cylinder Position Indicators, Slot Style Injection Molded with Cable and Optional Molded Connector

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

Sensor Selection

Part Number	Embeddable	Sinking	Sourcing	Drawing #	Wiring Diagram	# of LEDs	Weld Field Immune (V34)	Switching Frequency (Hz)	ID Number	Connection
BIM-INT-AN6X	•	•		1	A	1		1000	M4623600	2 meter cable, PUR Jacket
BIM-INT-AP6X	•		•	1	B	1		1000	M4623500	
BIM-INT-AN6X-V1131	•	•		2	C	1		1000	M4623602	 Mating Cordsets PKG 3Z-2 (2 meter) For other styles see Section H or consult "Cordsets" catalog
BIM-INT-AP6X-V1131	•		•	2	D	1		1000	M4623502	

BIM-INT sensors do not require any accessories for mounting in a 5.2 mm T-groove. Mounting on round cylinders requires the use of mounting accessories that must be ordered separately. See table below.

Round Cylinder Mounting Strap Part Numbers and Diameters KLR-1 mounting bracket required for use with ASB straps.

Part Numbers	ASB-2	ASB-3	ASB-4	ASB-5	ASB-6	ASB-7	ASB-9
Cylinder Diameter (mm)	11-19	18-29	28-39	38-49	48-59	58-69	68-89

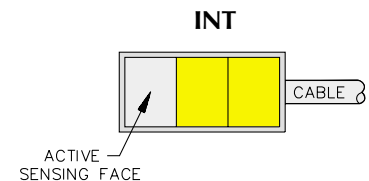
Cable/Conductor

Cable: PUR Jacket; 2 meter standard length
Copper Conductor: 24 AWG (PVC insulated)

Material

Connector: Chrome Plated Brass
Sensor Housing: PA 12-GF30 Plastic
Sensing Face: PA 12-GF30 Plastic
Mounting Screws: Brass

Sensing Face



Accessories

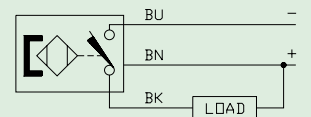
[permaprox](#) accessories can be found on pages E17 and E18.
See mounting information on pages E9-E16.
All other accessories can be found in Section J.

Specifications

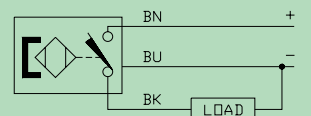
Ripple	≤10%
Differential Travel (Hysteresis)	≤1 mm
Voltage Drop Across Conducting Sensor	≤2.0 V
Trigger Current for Overload Protection	≥220 mA
Continuous Load Current	≤200 mA
Off-State (Leakage) Current	<10 μA
No-Load Current	≤8 mA
Maximum Approach Velocity	≤10 m/s
Time Delay Before Availability	≤3 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	≤0.1 mm (constant temperature & voltage)
Temperature Drift	≤0.1 mm
Magnetic Actuation Strength	20-350 Gauss (2-35 mT)
LED On	Output Energized

Wiring Diagrams

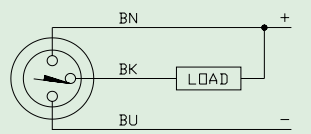
A NPN (Sinking)



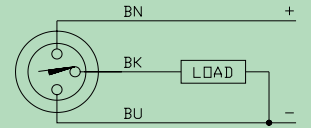
B PNP (Sourcing)



C NPN (Sinking)

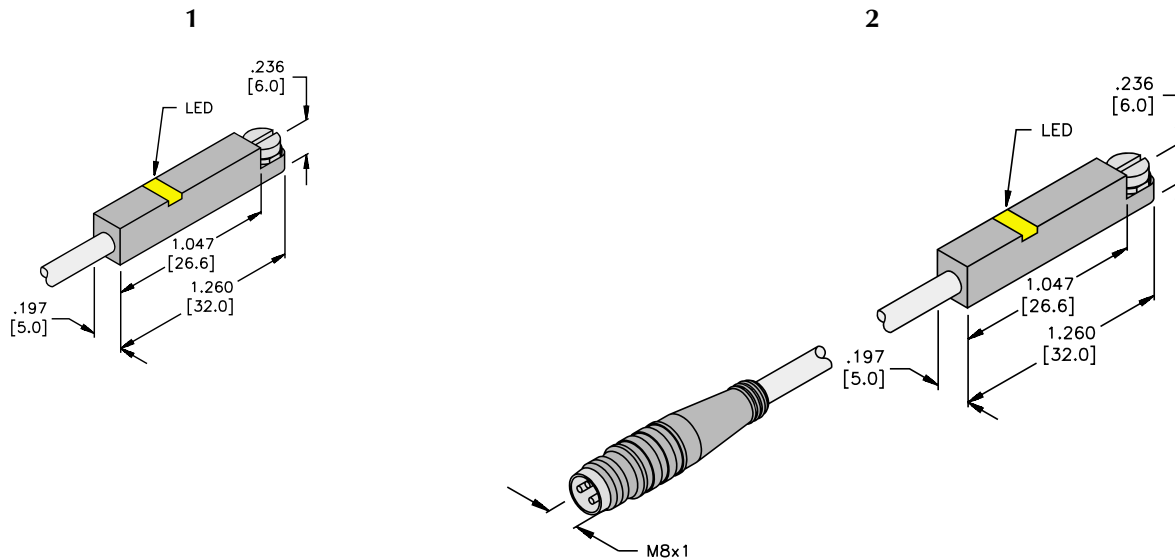


D PNP (Sourcing)



Cylinder

Dimensions



Note: "V1131" Indicates 0.3 meter pigtail length. Alternate lengths must be specified.