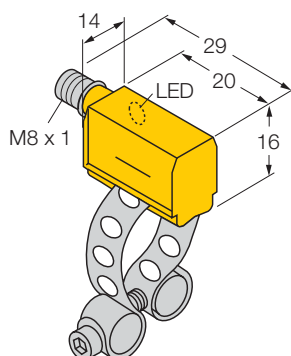


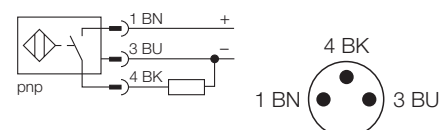
**TURCK**Industrial
Automation

magnetic field sensor for pneumatic cylinders BIM-PST-AP6X-V1131



- rectangular, height 16 mm
- front active face
- plastic, PA12-GF30
- Magnetic-inductive sensor
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- connector, M8 x 1

Wiring diagram



Functional principle

Magnetic field sensors are activated by magnetic fields and are especially suited for piston position detection in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable metals, it is possible to detect a permanent magnet attached to the piston through the aluminium wall of the cylinder.

Type	BIM-PST-AP6X-V1131
Ident-No.	46250
Pass speed	≤ 10 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 30VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage drop at I _e	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally open / normally closed, pnp
Switching frequency	≤ 1 kHz
Housing	rectangular, PST
Dimensions	23 x 14 x 16 mm
Housing material	plastic, PA12-GF30
Material active face	plastic, PA12-GF30
Connection	Connectors, M8 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Mounting on the following profiles	. ○
Display switch state	LED yellow
Included in scope of supply	KLP25

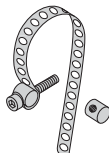
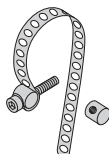


magnetic field sensor for pneumatic cylinders BIM-PST-AP6X-V1131

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
KLP25	69653	mounting on ○ round cylinders; cylinder diameter 8...25 mm (material: metal CuZn), 2 tie bolts (material: metal CuZn), cylinder screw M3 x 20	
KLP80-VA	69654	mounting on ○ round cylinders; cylinder diameter 25...80 mm (material: metal A2 1.4301 (AISI 304), 2 tie bolts (material: metal CuZn, alternatively metal A2 1.4301 / AISI 304) cylinder screw M3 x 20; (DIN 912-A20)	
KLP200-VA	6965302	mounting on ○ round cylinders; cylinder diameter 80...200 mm (material: metal A2 1.4301 (AISI 304), 2 tie bolts (material: metal CuZn, alternatively metal A2 1.4301 / AISI 304) cylinder screw M3 x 20; (DIN 912-A20)	