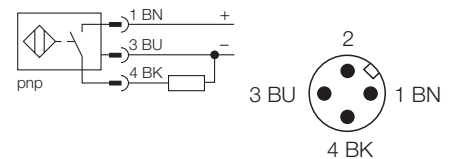


- rectangular, height 6mm
- plastic, PA12-GF30
- magnet-inductive sensor
- 3-wire DC, 10...30 VDC
- normally open, pnp output
- connector, M12 x 1

Wiring diagram



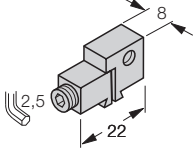

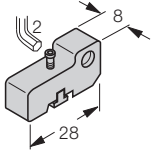

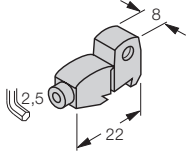



Function principle

Magnetic field sensors are actuated 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-NST-AP6X-H1141
Ident-No.	4685400
Pass speed	≤ 10 m/s
Hysteresis	≤ 1 mm
Temperature drift	≤ 0.1 mm
Repetition accuracy	≥ ± 0.1 mm
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 30 V DC
Residual ripple	≤ 10 % U _{SS}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	≤ 1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	3-wire, normally open, pnp
Short-circuit protection	yes / cyclic
Voltage dip at I _e	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	rectangular; NST
Dimensions	28x 17x 14mm
Housing material	plastic, plastic, PA12-GF20
Material active area	plastic, PA12-GF30
Connection	connector, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP67
Mounting on the following profiles	
Switch state display	LED yellow
Included in scope of supply	1 x screw M3x20, 1 x tension bolt, 1 x spring washer

Accessories

Type code	Ident-No.	Short text	Dimension drawing
KLN3	6970504	mounting on  dovetail groove cylinders or  T-groove cylinders; clamping width 5.2...13.5 mm; material: anodized aluminium	
KLN-SMC	6970503	mounting on  SMC cylinders; clamping width 4 mm; material: anodized aluminium	
KLF1	6970401	mounting on  external dovetail grooves; for all cylinder diameters, material: anodized aluminium	
KLF2	6970402	mounting on  external dovetail grooves (IMI Norgrem); for all cylinder diameters, material: anodized aluminium	