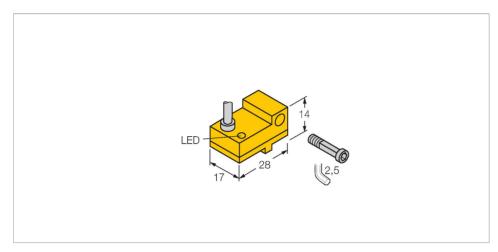


BIM-NST-AP6X Magnetic Field Sensor – For Pneumatic Cylinders



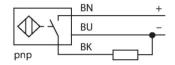
Technical data

BIM-NST-AP6X
4685600
≤ 10 m/s
≤ ± 0.1 mm
≤ 0.1 mm
≤ 1 mm
-25+70 °C
1030 VDC
≤ 10 % U _{ss}
≤ 200 mA
≤ 15 mA
≤ 0.1 mA
≤ 0.5 kV
yes / Cyclic
≤ 1.8 V
yes / Complete
3-wire, NO contact, PNP
1 kHz
Rectangular, NST
28 x 17 x 14 mm
Plastic, PA12-GF30
Plastic, PA12-GF30
Cable

Features

- Plastic, PA12-GF30
- Magnetic-inductive sensor
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

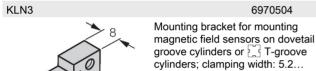
Magnetic field sensors are activated by magnetic fields and are especially suited for piston position detection in pneumatic cylinders. Based on the fact that magnetic fields can permeate nonmagnetizable metals, it is possible to detect a permanent magnet attached to the piston through the aluminium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

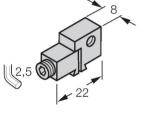


Technical data

Core cross-section	3 x 0.25 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Mounting on the following profiles	
Cylindrical design	<u></u>
Switching state	LED, Yellow
Included in delivery	1 x screw M3x20, 1 x tension bolt, 1 x spring washer

Accessories





KLN-SMC

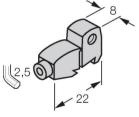
Mounting bracket for mounting magnetic field sensors on SMC cylinders; clamping width 4 mm; material: Anodized aluminum

6970503

6970402

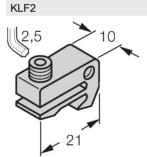


aluminum



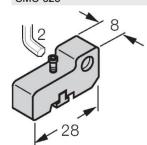
Mounting bracket for mounting magnetic field sensors on profile cylinders with external dovetail guide; for all cylinder diameters, material: Anodized aluminum

13.5 mm; material: Anodized



Mounting bracket for mounting magnetic field sensors on profile cylinders (IMI Norgren); cylinder diameter: 32...100 mm; material: Anodized aluminum

SMC-325 A3106



Mounting bracket for mounting magnetic field sensors on SMC cylinders; clamping width 4 mm; material: Anodized aluminum