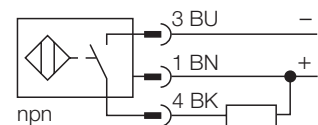


- rectangular, height 6mm
- plastic, PA12-GF30
- magnet-inductive sensor
- 3-wire DC, 10..0.30 VDC
- normally open npn output
- connector, M12 x 1

**Wiring diagram**



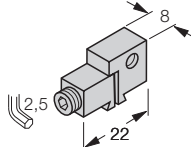

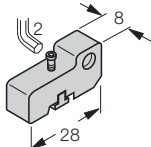

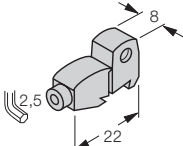



**Function principle**

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.

<b>Type</b>	BIM-NST-AN6X-H1141
Ident-No.	4685500
<b>Pass speed</b>	≤ 10 m/s
Hysteresis	≤ 1 mm
Temperature drift	≤ 0.1 mm
Repetition accuracy	≥ ± 0.1 mm
Ambient temperature	-25...+ 70 °C
<b>Operating voltage</b>	10... 30 V DC
Residual ripple	≤ 10 % U <sub>SS</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	≤ 1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	3-wire, normally open, npn
Short-circuit protection	yes / cyclic
Voltage dip at I <sub>e</sub>	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
<b>Housing style</b>	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
<b>Mounting on the following profiles</b>	
<b>Switch state display</b>	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	