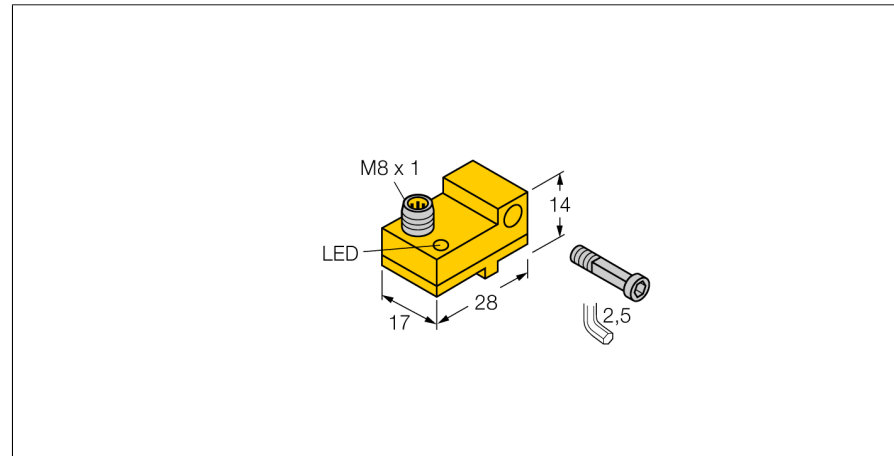
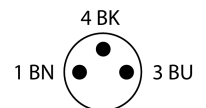
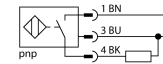


**Magnetic field sensor
for pneumatic cylinders
BIM-NST-AP6X-V1131**



- Plastic, PA12-GF30
- Magnetic-inductive sensor
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Male connector, M8 x 1

Wiring Diagram



Type designation	BIM-NST-AP6X-V1131
Ident no.	4685800
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...30 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes/ Cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
Reverse polarity protection	Complete
Switching frequency	1 kHz
Design	Rectangular, NST
Dimensions	28 x 17 x 14 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
Electrical connection	Connector, M8 x 1
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	
Switching state	LED yellow
Included in delivery	1 x screw M3x20, 1 x tension bolt, 1 x spring washer

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.

**Magnetic field sensor
for pneumatic cylinders
BIM-NST-AP6X-V1131**

TURCK



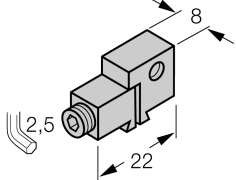

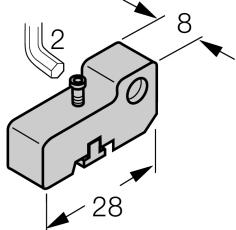

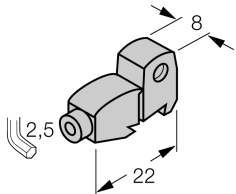

Industrial
Automation

**Magnetic field sensor
for pneumatic cylinders
BIM-NST-AP6X-V1131**

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Industrial
Automation

Accessories

Type code	Ident no.	Description	
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	