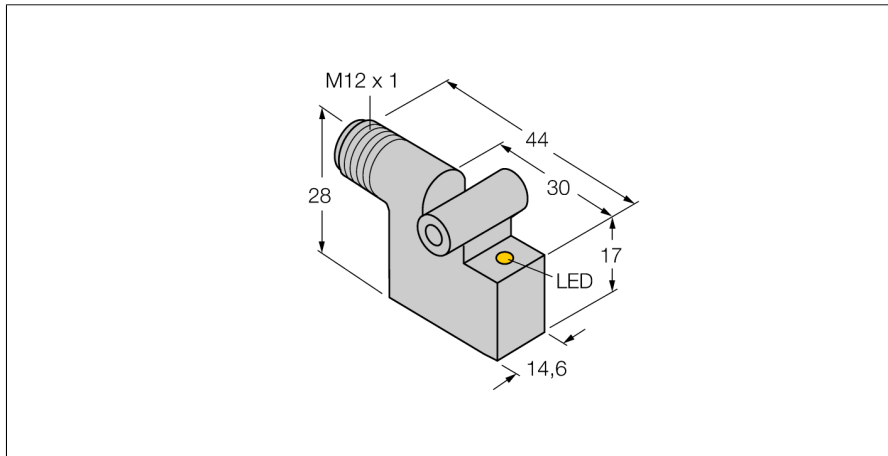
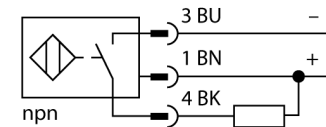


Magnetic field sensor for pneumatic cylinders BIM-IKT-AN6X-H1141



- Rectangular, height 28 mm
- Metal, GD-Zn
- Magnetic-inductive sensor
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M12 x 1 connector

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 designation	BIM-IKT-AN6X-H1141
Ident no.	46211
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 _s
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, NPN
Reverse polarity protection	Complete
Switching frequency	1 kHz
Design	Rectangular, IKT
Dimensions	30 x 14.6 x 28 mm
Housing material	Metal, GD-Zn
Active area material	Plastic, PA12-GF30
Electrical connection	Connector, M12 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

**Magnetic field sensor
for pneumatic cylinders
BIM-IKT-AN6X-H1141**

Mounting instructions/Description

Active face in the middle


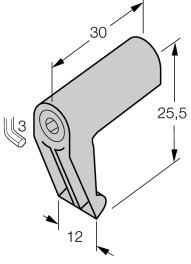

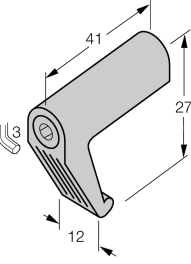

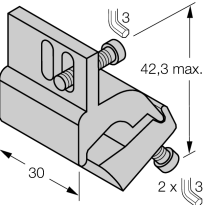

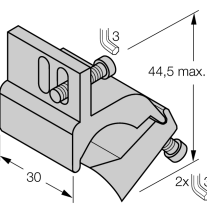

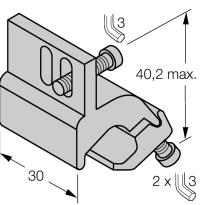


**Magnetic field sensor
for pneumatic cylinders
BIM-IKT-AN6X-H1141**

TURCK


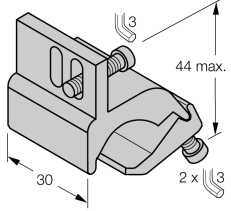

Industrial
Automation

Accessories

Type code	Ident no.	Description	
KL11	69710	Mounting on  tie-rod cylinders; cylinder diameter 32...100 mm; material: Die-cast zinc	
KL13	69712	Mounting on  tie-rod cylinders; cylinder diameter 63...160 mm; material: Die-cast zinc	
KL15Z	6971803	Mounting on  tie-rod cylinders; cylinder diameter 32...63 mm; material: Aluminum	
KL16Z	6971806	Mounting on  tie-rod cylinders; cylinder diameter 50...125 mm; material: Aluminum	
KL15	6971802	Mounting on  profile cylinder; cylinder diameter 32...50 mm; material: Aluminium	

**Magnetic field sensor
for pneumatic cylinders
BIM-IKT-AN6X-H1141**

Accessories

Type code	Ident no.	Description	
KLI6	6971805	Mounting on  profile cylinder; cylinder diameter 50...100 mm; material: Aluminium	
KLI7	6971810	Mounting on  profile cylinder with external dovetail grooves; diameter 32...200 mm; material: Aluminium	