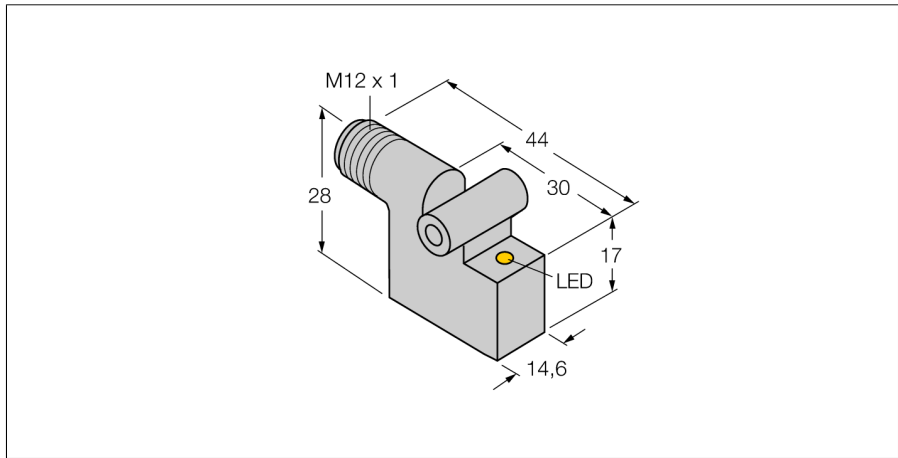
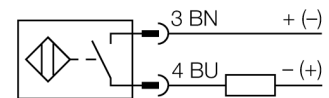


**Magnetic field sensor
for pneumatic cylinders
BIM-IKT-AD4X-H1141**



- Rectangular, height 28 mm
- Metal, GD-Zn
- Magnetic-inductive sensor
- DC 2-wire, 10...65 VDC
- NO contact
- Male connector M12 x 1

Wiring diagram



Type code	BIM-IKT-AD4X-H1141
Ident no.	44822
Pass speed	≤ 3 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25...+70 °C
Operating voltage	10...65VDC
Residual ripple	≤ 10 % U _s
DC rated operational current	≤ 100 mA
Residual current	≤ 0.8 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I _s	≤ 4 V
Wire breakage / Reverse polarity protection	no/ complete
Switching frequency	0.3 kHz
Design	rectangular, IKT
Dimensions	30 x 14.6 x 28 mm
Housing material	metal, GD-Zn
Material active area	Plastic, PA
Connection	male, 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

Functional principle


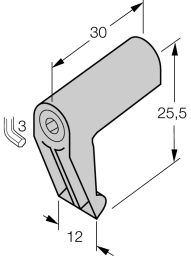

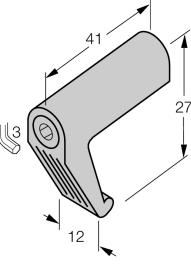

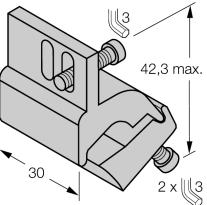

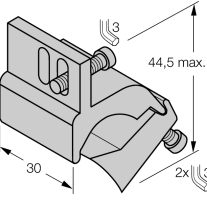

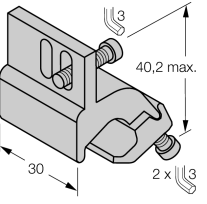
Magnetic field sensors are activated by magnetic fields and are especially suited for piston position detection in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable metals, it is possible to detect a permanent magnet attached to the piston through the aluminium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

**Magnetic field sensor
for pneumatic cylinders
BIM-IKT-AD4X-H1141**

TURCK


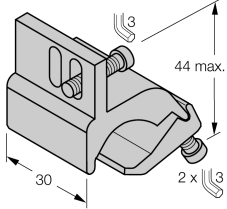

Industrial
Automation

Accessories

Type code	Ident no.	Description	Dimension drawing
KLI 1 KLEMMSTÜCK	69710	Mounting on  tie-rod cylinders; cylinder diameter 32...100 mm; material: Die-cast zinc	
KLI 3 KLEMMSTÜCK	69712	Mounting on  tie-rod cylinders; cylinder diameter 63...160 mm; material: Die-cast zinc	
KLI 5Z KLEMMSTÜCK	6971803	Mounting on  tie-rod cylinders; cylinder diameter 32...63 mm; material: Aluminum	
KLI 6Z KLEMMSTÜCK	6971806	Mounting on  tie-rod cylinders; cylinder diameter 50...125 mm; material: Aluminum	
KLI 5 KLEMMSTÜCK	6971802	Mounting on  profile cylinder; cylinder diameter 32...50 mm; material: Aluminium	

**Magnetic field sensor
for pneumatic cylinders
BIM-IKT-AD4X-H1141**

Accessories

Type code	Ident no.	Description	Dimension drawing
CLI 6 KLEMMSTÜCK	6971805	Mounting on  profile cylinder; cylinder diameter 50...100 mm; material: Aluminium	
CLI 7 KLEMMSTÜCK	6971810	Mounting on  profile cylinder with external dovetail grooves; diameter 32...200 mm; material: Aluminium	