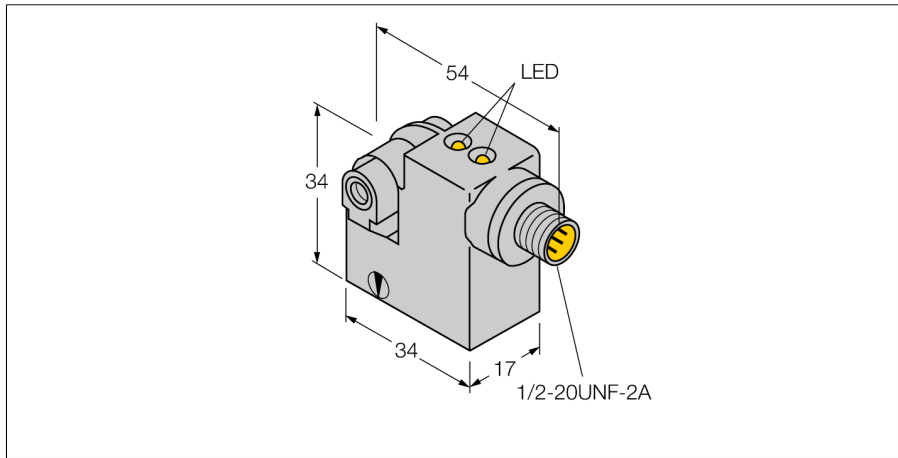
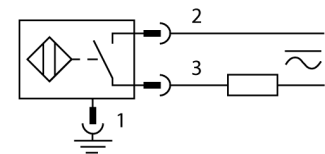


**Magnetic field sensor
for pneumatic cylinders
BIM-IKM-AZ3X2-B3131**



- Rectangular, height 34 mm
- Front active face
- Metal, GD-Zn
- Magnetic-inductive sensor
- AC 2-wire, 20...250 VAC
- NO contact
- Connector, 1/2"

Wiring Diagram



Type designation	BIM-IKM-AZ3X2-B3131
Ident no.	13471
Pass speed	≤ 1 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25...+70 °C
Operating voltage	20...250 VAC
AC rated operational current	≤ 500 mA
Frequency	≥ 50...≤ 60 Hz
Residual current	≤ 1.7 mA
Rated insulation voltage	≤ 1.5 kV
Voltage drop at I _n	≤ 6 V
Output function	2-wire, NO contact
Smallest operating current I _m	≥ 5 mA
Switching frequency	0.02 kHz
Construction	rectangular, IKM
Dimensions	54 x 17 x 34 mm
Housing material	Metal, GD-Zn
Active area material	Plastic, PA12-GF30
Electrical connection	Flange connector, 1/2"
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	
Power-on indication	LED green
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-IKM-AZ3X2-B3131**

TURCK


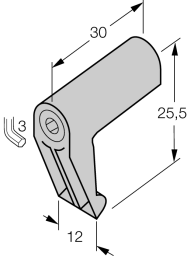

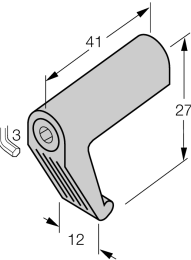

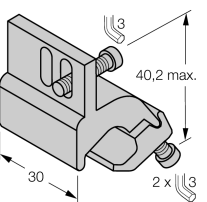

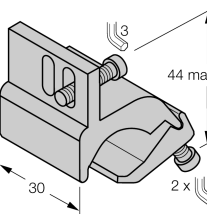

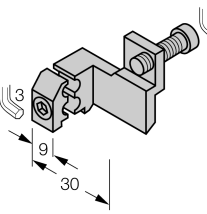
Industrial
Automation

**Magnetic field sensor
for pneumatic cylinders
BIM-IKM-AZ3X2-B3131**

TURCK


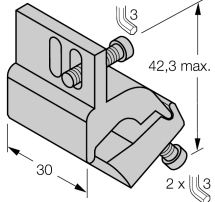

Industrial
Automation

Accessories

Type code	Ident no.	Description	
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 5 KLEMMSTÜCK	6971802	Mounting on  profile cylinder; cylinder diameter 32...50 mm; material: Aluminium	
KLI 6 KLEMMSTÜCK	6971805	Mounting on  profile cylinder; cylinder diameter 50...100 mm; material: Aluminium	
KLI 7 KLEMMSTÜCK	6971810	Mounting on  profile cylinder with external dovetail grooves; diameter 32...200 mm; material: Aluminium	

**Magnetic field sensor
for pneumatic cylinders
BIM-IKM-AZ3X2-B3131**

Accessories

Type code	Ident no.	Description	
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	