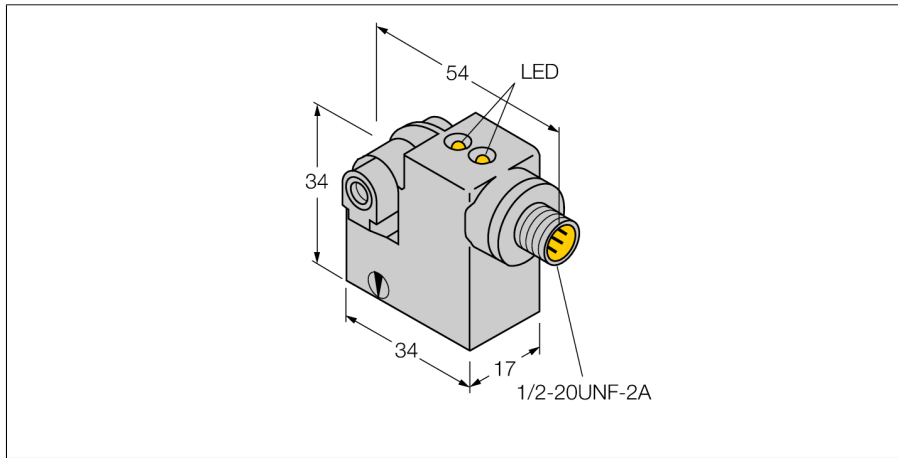
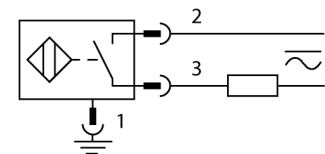


**Magnetic field sensor  
for pneumatic cylinders  
BIM-IKM-AZ3X2-B3131**



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

**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.

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

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

**TURCK**

Industrial  
Automation


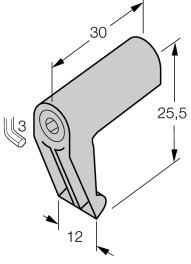

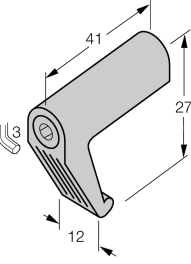

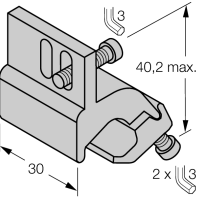

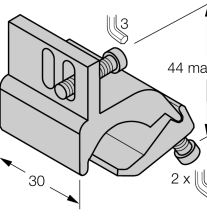

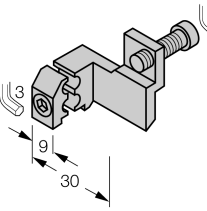
Mounting instructions/Description

Active face in front




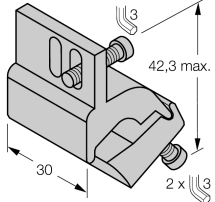

**Magnetic field sensor  
for pneumatic cylinders  
BIM-IKM-AZ3X2-B3131**

**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	
KL15	6971802	Mounting on  profile cylinder; cylinder diameter 32...50 mm; material: Aluminium	
KL16	6971805	Mounting on  profile cylinder; cylinder diameter 50...100 mm; material: Aluminium	
KL17	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	
KLI5Z	6971803	Mounting on  tie-rod cylinders; cylinder diameter 32...63 mm; material: Aluminum	
KLI6Z	6971806	Mounting on  tie-rod cylinders; cylinder diameter 50...125 mm; material: Aluminum	