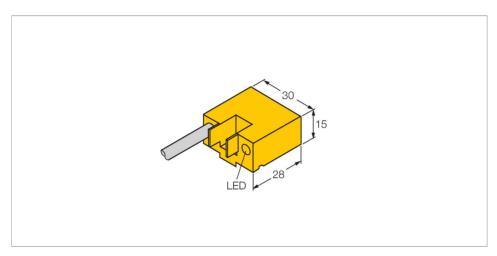


BIM-AKT-AD4X W/KLA3M Magnetic Field Sensor – for pneumatic cylinders



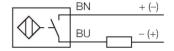
Technical data

Туре	BIM-AKT-AD4X W/KLA3M
Ident. no.	4480093
Pass speed	≤ 3 m/s
Repeatability	≤ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25+70 °C
Operating voltage	1065 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 100 mA
Residual current	≤ 0.8 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes / Cyclic
Voltage drop at I _e	≤ 4 V
Wire breakage/Reverse polarity protection	no / Complete
Output function	NO contact, 2-wire
Switching frequency	0.3 kHz
Design	Rectangular, AKT
Dimensions	28 x 30 x 15 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	2 x 0.34 mm ²

Features

- Rectangular, height 15mm
- Concentric active face
- Plastic, PA12-GF30
- Magnetic-inductive sensor
- ■DC 2-wire, 10...65 VDC
- ■NO contact
- Cable connection

Wiring diagram



Functional principle

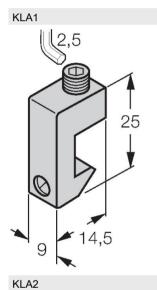
Magnetic field sensors are activated by magnetic fields and are especially suited for piston position detection in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable metals, it is possible to detect a permanent magnet attached to the piston through the aluminium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



Technical data

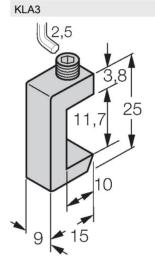
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Mounting on the following profiles	
Cylindrical design	#
Switching state	LED, Red

Accessories

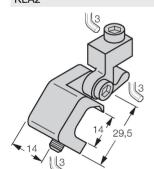


Mounting bracket for mounting magnetic field sensors on tie-rod cylinders; cylinder diameter 32... 50 mm, material: Anodized aluminum

69700



69702 Mounting bracket for mounting magnetic field sensors on tie-rod cylinders; cylinder diameter 32... 63 mm; material: Stainless steel



Mounting bracket for mounting magnetic field sensors on tie-rod cylinders; cylinder diameter 40... 125 mm; material: Aluminum

69701