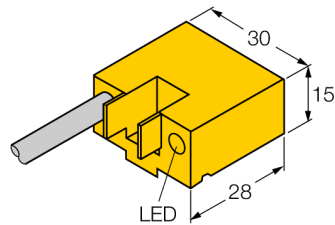


Magnetic field sensor for pneumatic cylinders BIM-AKT-AD4X W/KLA-1

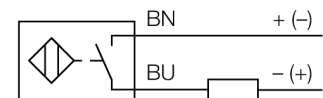
TURCK
works

Industrial
Automation



- 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.

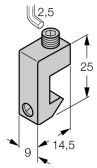
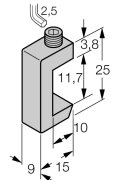
Type code	BIM-AKT-AD4X W/KLA-1
Ident-No.	4480090
Ident-No (TUSA)	M4480090
Pass speed	≤ 3 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25...+70 °C
Operating voltage	10... 65VDC
Residual ripple	≤ 10 % U _s
DC rated operational current	≤ 100 mA
Residual 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
Construction	Rectangular, AKT
Dimensions	28 x 30 x 15 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
Connection	cable
Cable quality	4 mm, Gray, LifYY, PVC, 2m
Cable cross section	2 x 0.25 mm 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	
Switching state	LED yellow
Included in delivery	KLA1

**Magnetic field sensor
for pneumatic cylinders
BIM-AKT-AD4X W/KLA-1**



**Magnetic field sensor
for pneumatic cylinders
BIM-AKT-AD4X W/KLA-1**

Accessories

Type code	Ident-No.	Description	
KLA1	69700	Mounting on tie-rod cylinders; for cylinder diameters of 32... 50 mm; material: Anodized aluminium	
KLA3	69702	Mounting on tie-rod cylinders; for cylinder diameters of 32... 63 mm; material: Stainless steel	
KLA2	69701	Mounting on tie-rod cylinders; for cylinder diameters of 40... 125 mm; material: Metal GdZn	