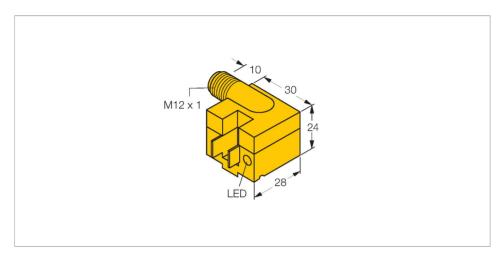


BIM-AKT-AP6X-H1141 W/KLA2 Magnetic Field Sensor – For Pneumatic Cylinders



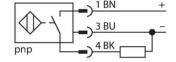
Technical data

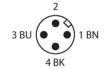
BIM-AKT-AP6X-H1141 W/KLA2
4675291
4070231
≤ 10 m/s
≤ ± 0.1 mm
≤ 0.1 mm
≤ 1 mm
1030 VDC
≤ 10 % U _{Bmax}
≤ 200 mA
≤ 15 mA
≤ 0.1 mA
0.5 kV
yes/Cyclic
≤ 1.8 V
yes/Complete
3-wire, NO contact, PNP
1 kHz
Rectangular, AKT
28 x 30 x 24 mm
Plastic, PA12-GF30

Features

- Rectangular, height 24 mm
- Concentric active face
- ■Plastic, PA12-GF30
- Magnetic-inductive sensor
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- Male connector, M12 x 1

Wiring diagram





Functional principle

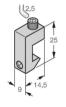
Magnetic field sensors are activated by magnetic fields and are especially suited for piston position detection in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable metals, it is possible to detect a permanent magnet attached to the piston through the aluminium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

Technical data

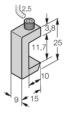
Environmental conditions Ambient temperature -25+70 °C Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class IP67 MTTF 2283 years acc. to SN 29500 (Ed. 99) 40 °C Mounting on the following profiles Cylindrical design # Switching state LED, Red Included in delivery KLA2	Electrical connection	Connector, M12 × 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, Red	Environmental conditions	
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	Ambient temperature	-25+70 °C
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	Vibration resistance	55 Hz (1 mm)
MTTF 2283 years acc. to SN 29500 (Ed. 99) 40 °C Mounting on the following profiles Cylindrical design # Switching state LED, Red	Shock resistance	30 g (11 ms)
°C Mounting on the following profiles Cylindrical design # Switching state LED, Red	Protection class	IP67
Cylindrical design # Switching state LED, Red	MTTF	, ,
Switching state LED, Red	Mounting on the following profiles	
	Cylindrical design	#
Included in delivery KLA2	Switching state	LED, Red
	Included in delivery	KLA2

Accessories

KLA1 69700 KLA3

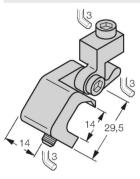


Mounting bracket for mounting magnetic field sensors on tie-rod cylinders; cylinder diameter 32... 50 mm, material: Anodized aluminum



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

69702



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