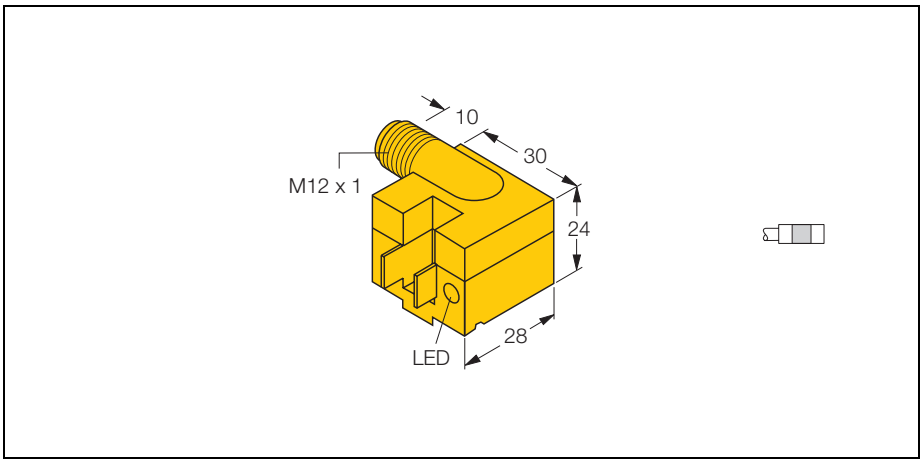
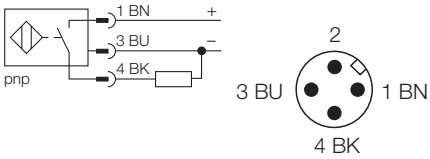
magnetic field sensor
for pneumatic cylinders
BIM-AKT-AP6X-H1141

Industrial Automation



- **rectangular, height 24 mm**
- **central active face**
- **plastic, PA12-GF30**
- **magnetic-inductive sensor**
- **3-wire DC, 10…30 VDC**
- **normally open, pnp output**
- **connector, M12 x 1**

Wiring diagram



Type	BIM-AKT-AP6X-H1141
Ident-No.	46752
Pass speed	≤ 10 m/s
Hysteresis	≤ 1 mm
Temperature drift	≤ 0.1 mm
Repeatability	≥ ± 0.1 mm
Ambient temperature	-25…+ 70°C
Operating voltage	10… 30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	≤1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	3-wire, normally open, pnp
Short-circuit protection	yes / cyclic
Voltage drop at I_e	≤ 1.8V
Wire breakage / Reverse polarity protection	yes / complete
Housing	rectangular, AKT
Dimensions	28 x 30 x 24 mm
Housing material	plastic, PA12-GF30
Material active face	plastic, PA12-GF30
Connection	connectors, M12 x 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Mounting on the following profiles	.
Display switch 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.

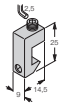
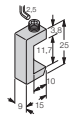
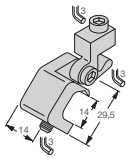
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Industrial Automation

Accessories

Type code	Ident-No.	Short text	Dimension drawing
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	

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