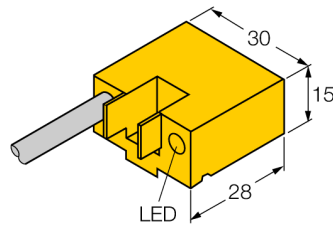
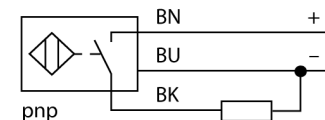


Magnetic field sensor
magnet-inductive proximity sensor
BIM-AKT-AP6X/S235



- Rectangular, height 15mm
- Concentric active face
- Plastic, PA12-GF30
- Increased sensitivity
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



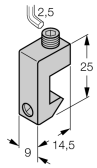
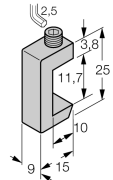
Functional principle

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-AP6X/S235
Ident no.	4675021
Pass speed	≤ 10 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25...+70 °C
Operating voltage	10...30VDC
Residual ripple	≤ 10 % U _s
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	1 kHz
Design	rectangular, AKT
Dimensions	28 x 30 x 15 mm
Housing material	plastic, PA
Material active area	Plastic, PA
Connection	cable
Cable quality	4 mm, grey, LifYY, PVC, 2 m
Cable cross section	3 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

**Magnetic field sensor
magnet-inductive proximity sensor
BIM-AKT-AP6X/S235**

Accessories

Type code	Ident no.	Description	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	