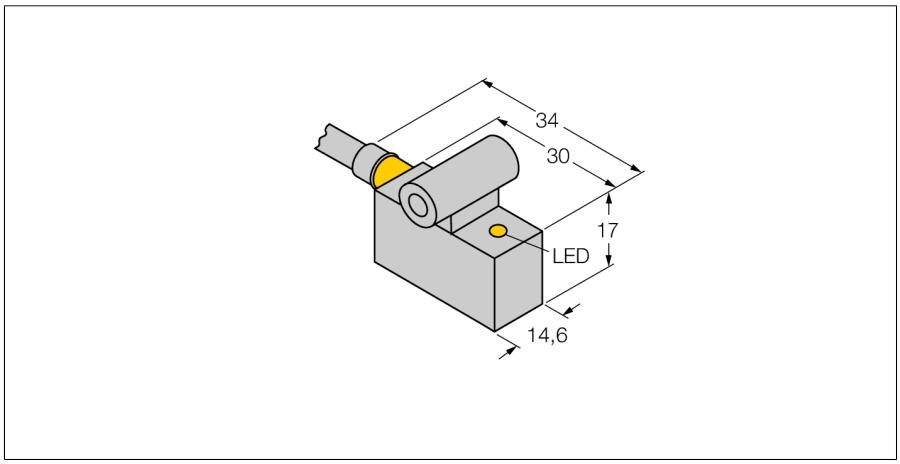
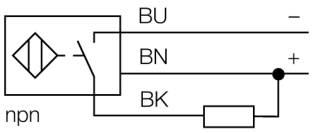
Magnetic field sensor for pneumatic cylinders BIM-IKE-AN6X w/KLI3

Industrial Automation



- **Rectangular, height 17 mm**
- **Metal, GD-Zn**
- **Magnetic-inductive sensor**
- **DC 3-wire, 10…30 VDC**
- **NO contact, NPN output**
- **Cable connection**

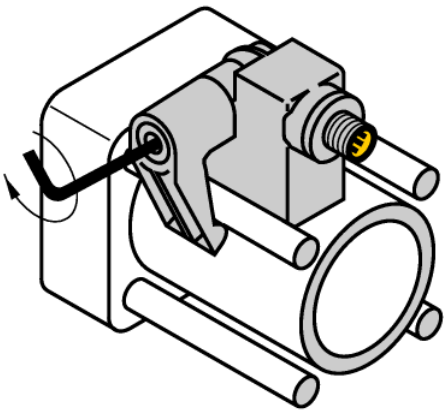
Wiring diagram

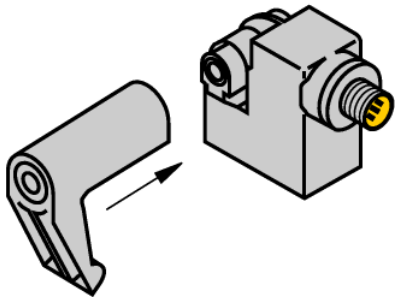


Type	BIM-IKE-AN6X w/KLI3
Ident-No.	4621590
Pass speed	≤ 10 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25…+70 °C
Operating voltage	10…30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes/ cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, NPN
Switching frequency	1 kHz
Design	rectangular, IKE
Dimensions	30 x 14.6 x 17 mm
Housing material	Metal, GD-Zn
Material active face	Plastic, PA12-GF30
Connection	cable
Cable quality	5.2 mm, LifYY, PVC, 2 m
Cable cross section	3 x 0.34 mm²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283years acc. to SN 29500 (Ed. 99) 40 °C
Mounting on the following profiles	.
Switching state	LED yellow
Included in scope of supply	KLI3

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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