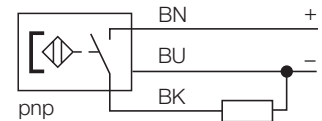


- rectangular, height 17 mm
- metal, GD-Zn
- magnet-inductive sensor
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- cable connection

**Wiring diagram**



**Function principle**

Magnetic field sensors are actuated 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.

<b>Type</b>	BIM-IKT-AP6X
Ident-No.	46200
<b>Pass speed</b>	≤ 10 m/s
Hysteresis	≤ 1 mm
Temperature drift	≤ 0.1 mm
Repetition accuracy	≥ ± 0.1 mm
Ambient temperature	-25...+ 70 °C
<b>Operating voltage</b>	10... 30 V DC
Residual ripple	≤ 10 % U <sub>SS</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 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 dip at I <sub>e</sub>	≤ 1.8 V
Wire breakage / reverse polarity protection	yes / complete
<b>Housing style</b>	rectangular; IKT
Dimensions	30x 14.6x 17mm
Housing material	metal, GD-Zn
Material active area	plastic, PA12-GF30
Connection	cable
cable quality	Ø 4, grey, LifYY, PVC, 2 m
Cable cross section	3 x 0.25 mm <sup>2</sup>
Litz	65 x 0.07 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP67


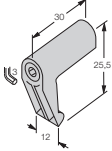

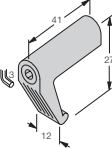

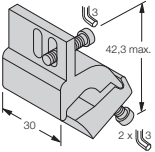

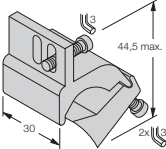

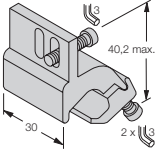

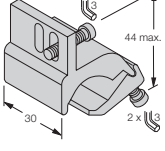

**Mounting on the following profiles**



**Switch state display**

LED yellow

**Accessories**

Type code	Ident-No.	Short text	Dimension drawing
KLI1	69710	mounting on  tie-rod cylinders; cylinder diameter 32..0.100 mm; material: die-cast zinc	
KLI3	69712	mounting on  tie-rod cylinders; cylinder diameter 63..0.160 mm; material: die-cast zinc	
KLI5Z	6971803	mounting on  tie-rod cylinders; cylinder diameter 32...63 mm; material: aluminum	
KLI6Z	6971806	mounting on  tie-rod cylinders; cylinder diameter 50..0.125 mm; material: aluminum	
KLI5	6971802	mounting on  profile cylinders; cylinder diameter 32...50 mm; material: aluminium	
KLI6	6971805	mounting on  profile cylinders; cylinder diameter 50..0.100 mm; material: aluminium	
KLI 7	6971810	mounting on  profile cylinders with external dovetail groove; cylinder diameter 32...200 mm; material: aluminium	