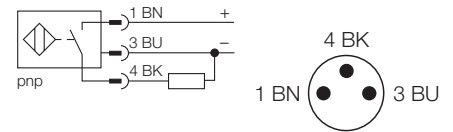


- rectangular, height 17 mm
- metal, GD-Zn
- magnet-inductive sensor
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- connector, M8 x 1

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.


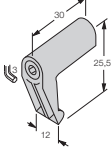

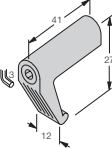

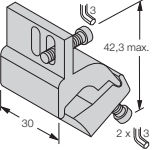

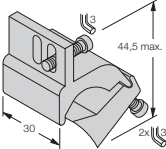

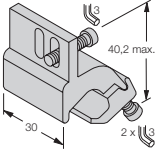

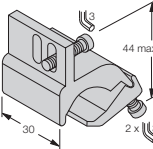

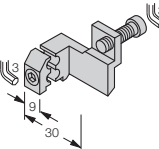
| | |
|---|----------------------------|
| Type | BIM-IKT-AP6X-V1131 |
| Ident-No. | 46220 |
| Pass speed | ≤ 10 m/s |
| Hysteresis | ≤ 1 mm |
| Temperature drift | ≤ 0.1 mm |
| Repetition accuracy | ≥ ± 0.1 mm |
| Ambient temperature | -25...+ 70 °C |
| Operating voltage | 10... 30 V DC |
| Residual 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 dip at I _e | ≤ 1.8 V |
| Wire breakage / reverse polarity protection | yes / complete |
| Housing style | rectangular; IKT |
| Dimensions | 30x 14.6x 17mm |
| Housing material | metal, GD-Zn |
| Material active area | plastic, PA12-GF30 |
| Connection | connector, M8 x 1 |
| 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 |  |