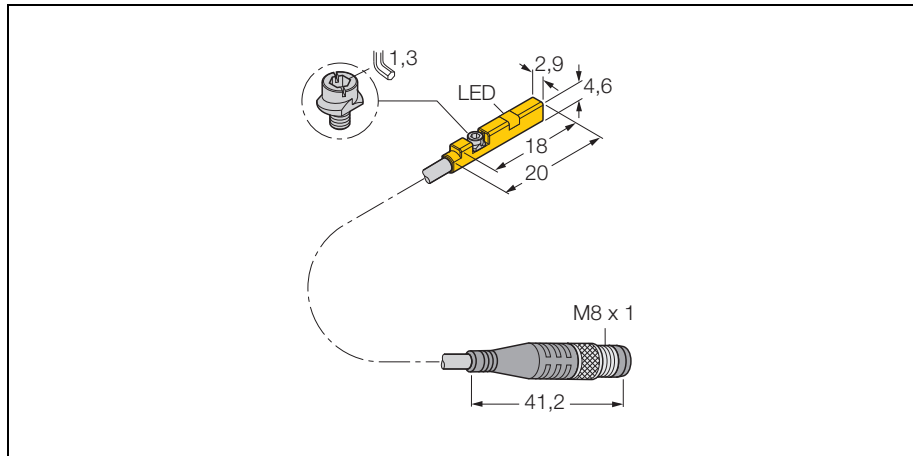
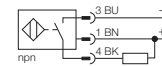


**magnetic field sensor
for pneumatic cylinders
BIM-UNR-AN6X-0,3-PSG3M W/M**



- For C-groove cylinders without mounting accessories
- Optional accessories for mounting on other cylindrical housings.
- One-hand mounting possible
- Stable mounting
- Magneto-resistive sensor
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Male connector, M8 x 1

Wiring diagram



| | |
|---|----------------------------------|
| Type | BIM-UNR-AN6X-0,3-PSG3M W/M |
| Ident-No. | 4685849 |
| Pass speed | ≤ 3 m/s |
| Repeatability | ≥ ± 0.1 mm |
| Temperature drift | ≤ 0.1 mm |
| Hysteresis | ≤ 1 mm |
| Repeatability | ≥ ± 0.1 mm |
| Ambient temperature | -25...+ 70 °C |
| Operating voltage | 10... 30 VDC |
| Residual ripple | ≤ 10 % U _{ss} |
| DC rated operational current | ≤ 100 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 | ≤ 0.3kHz |
| Housing | rectangular, UNR |
| Dimensions | 18 x 2.9 x 4.6 mm |
| Housing material | Plastic, PP |
| Material active face | Plastic, PP |
| Tightening torque fixing screw | 0.2 Nm |
| Electrical connection | Connectors, M8 x 1 |
| Cable quality | Ø 2, grey, Lif9Y-11Y, PUR, 0.3 m |
| Cable cross section: | 3 x 0.08mm ² |
| Litz wire | 40 x 0.05mm ² |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30g (11 ms) |
| Protection class | IP67 |
| Mounting on the following profiles | |
| Switching state | LED yellow |
| Included in scope of supply | cable clip |

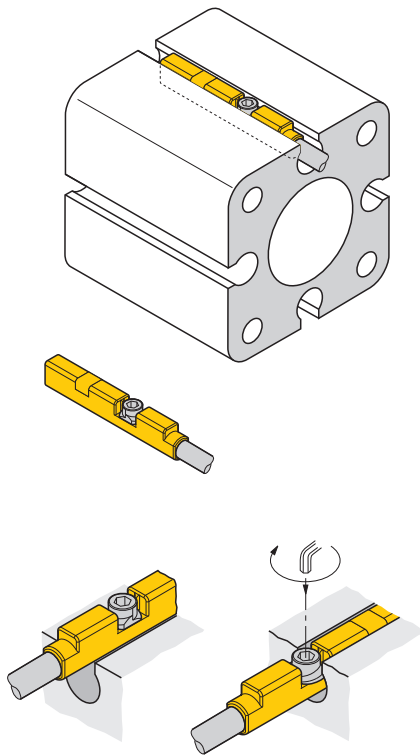
Functional principle

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.

**magnetic field sensor
for pneumatic cylinders
BIM-UNR-AN6X-0,3-PSG3M W/M**

Mounting instructions

mounting instructions



One-hand mounting of the sensor in the groove from the top. The sensor can be mounted as follows with the patented wing screw: The wing screws and the female thread feature a left-hand thread. Two small plastic lips keep the screw in position and guarantee a ready-to-install sensor on delivery. With clockwise rotation, the screw is removed from the thread and hits the upper grooves with the wings. As a consequence, the sensor is pressed down and is thus locked. A quarter turn of the screw with a standard screw driver or a 1.5 mm Allen key is enough for vibration resistant mounting. The allowed fixing torque of 0.2 Nm is sufficient for safe mounting without damaging the cylinder. Cable clips are included in the scope of delivery to enable smooth cable routing in the groove. Accessories for mounting on other cylindrical housings have to be ordered separately.