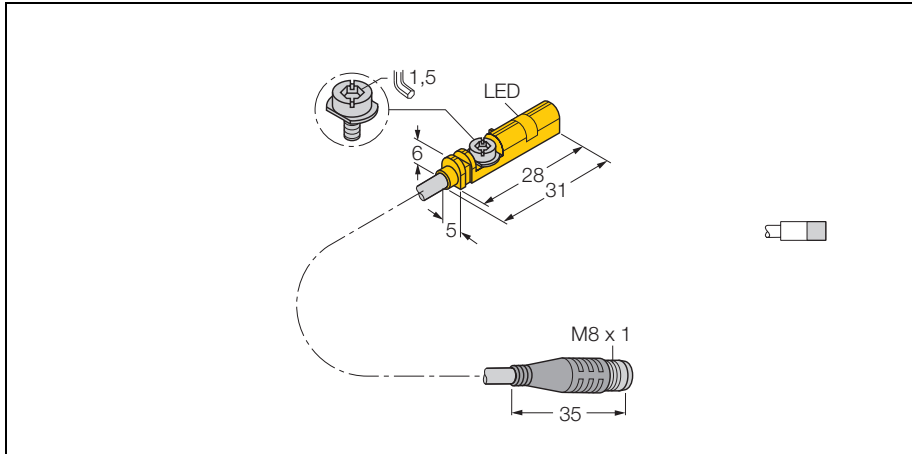
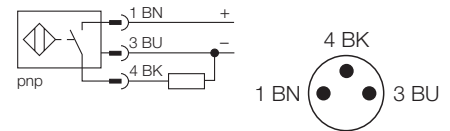


**magnetic field sensor  
for pneumatic cylinders  
BIM-UNT-AP6X-0,3-PSG3S**



- for T-groove cylinders without mounting accessories
- Optional accessories for mounting on other cylindrical housings.
- One-hand mounting possible
- Direct mounting of fine adjustment and stopper on the sensor
- stable mounting
- magneto-resistive sensor
- 3-wire DC, 10..0.30 VDC
- normally open, pnp output
- connector, M8 x 1

**Wiring diagram**



**Function 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.

<b>Type</b>	BIM-UNT-AP6X-0,3-PSG3S
Ident-No.	4685722
<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	≤ 150 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; UNT
Dimensions	28x 5x 6mm
Housing material	plastic, PP
Material active area	plastic, PP
Fixing screw tightening torque	0.4 Nm
Connection	connector, M8 x 1
cable quality	Ø 3, LiYY-11Y, PUR, 0.3 m
Cable cross section	3 x 0.14 mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection degree	IP67

**Mounting on the following profiles**



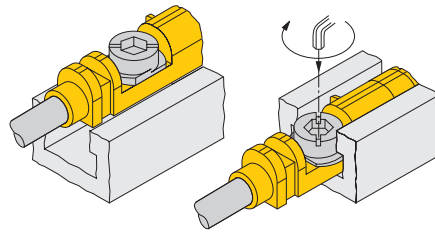
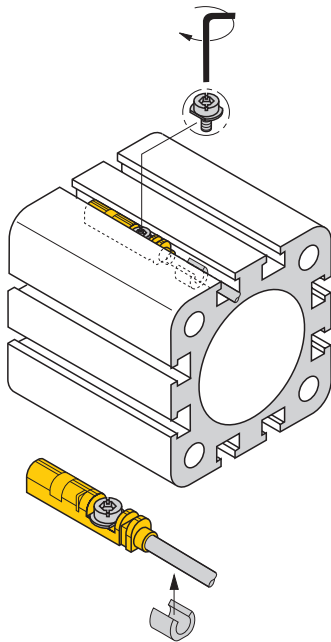
**Switch state display**

Included in scope of supply LED yellow

Included in scope of supply cable clip



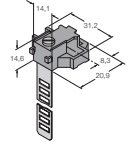

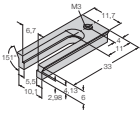

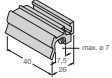

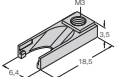

**Mounting instructions**

## mounting instructions



The pre-fixation lip enables 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 screw and the female thread feature a left-hand thread. The screw is untightened with clockwise rotation and the wings touch the upper gooves. As a consequence the sensor is pressed down and is thus fixed. 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 tightening torque of 0.4 Nm should not be exceeded. The cable clips, which are included in the the delivery, enable cable routing in the groove and thus complement the optimal mounting. The correspondent accessories for mounting on other cylindrical housings has to be ordered separately.

**Accessories**

Type code	Ident-No.	Short text	Dimension drawing
KLR-UNT1	6970623	mounting on  round cylinders or  tie-rod cylinders; cylinder diameter: 10..0.19 mm; material: Trogamid; further mounting accessories for other cylinder diameters on request	
KLDT-UNT1	6913350	mounting on  dovetail groove cylinders; clamping width: 10.5..0.120.4 mm; material: Aluminium; further mounting accessories for other clamping widths on request	
KLZ1-INT	6970410	mounting on  tie-rod cylinders; cylinder diameter: 32..0.40 mm; material: Aluminium; further mounting accessories for other cylinder diameters on request	
UNT-Stopper	4685751	mounting on  T-groove cylinders; replacement without loss of switch-point with additional clamp INT stopper; T-groove dimensions: 5..0.50.6 mm	
UNT-Justage	4685750	mounting on  T-groove cylinders; replacement without loss of switch-point with additional clamp INT stopper; T-groove dimensions: 5..0.50.6 mm	