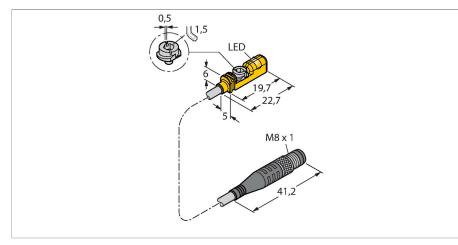


BIM-UNTK-AP6X-0.3-PSG3M Magnetic Field Sensor – Compact design for small hydraulic cylinders

BIM-UNTK-AP6X-0.3-PSG3M



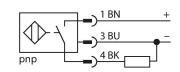
Technical data

Type

Features

- For T-groove cylinders without mounting accessories
- Optional accessories for mounting on other cylindrical housings.
- One-hand mounting possible
- Tool for fine adjustments and stopper directly mountable on the sensor
- Stable mounting
- Magneto-resistive sensor
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Pigtail with male end, M8 x 1

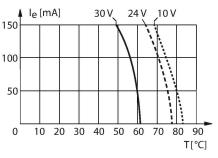
Wiring diagram



Functional principle

Magnetic field sensors are actuated by magnetic fields through which they detect the position of pistons in pneumatic cylinders. As Magnetic fields can permeate nonmagnetizable metals, they detect a permanent magnet attached to the piston through the aluminium wall of a cylinder.

The derating curve is valid for devices installed in metal. For air installation with 150 mA power supply: 10 V 50 °C, 24 V 40 °C, 30 V 19 °C.



1000015
4686015
≤ 3 m/s
≤ ± 0.3 mm
≤ 0.3 mm
≤ 1 mm
1030 VDC
≤ 10 % U _{Bmax}
≤ 150 mA
≤ 15 mA
≤ 0.1 mA
0.5 kV
yes/Cyclic
≤ 1.8 V
yes/Complete
3-wire, NO contact, PNP
0.3 kHz
Rectangular, UNTK
19.7 x 5 x 6 mm
Plastic, PP
Plastic, PP
0.4 Nm
Cable with connector, M8 × 1

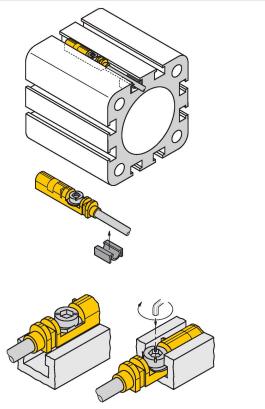


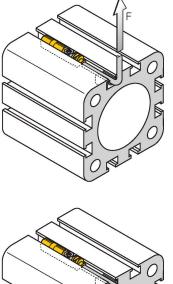
Technical data

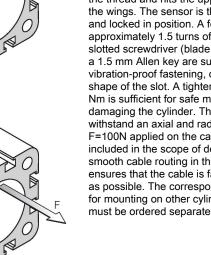
Cable quality	Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.3 m
	Suited for E-ChainSystems® acc. to man- ufacturers declaration H1063M
Core cross-section	3 x 0.14 mm ²
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Mounting on the following profiles	
Cylindrical design	
Switching state	LED, Yellow
Included in delivery	Cable clip

Mounting instructions

Mounting instructions/Description





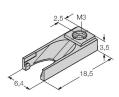


Thanks to the mounting lip, the sensor can be inserted into the groove from above with one hand. Mount the sensors as follows using the patented wing screw: The wing screw and the female thread feature a lefthand thread. Two small plastic lips keep the screw in position, ready-to-install. Turn the screw clockwise. The screw moves out of the thread and hits the upper grooves with the wings. The sensor is thus pressed down and locked in position. A few degrees up to approximately 1.5 turns of the screw with a slotted screwdriver (blade width 0.5 mm) or a 1.5 mm Allen key are sufficient to ensure vibration-proof fastening, depending on the shape of the slot. A tightening torque of 0.4 Nm is sufficient for safe mounting without damaging the cylinder. The sensor can now withstand an axial and radial tensile load of F=100N applied on the cable. A cable clip is included in the scope of delivery. It enables smooth cable routing in the groove and ensures that the cable is fastened as securely as possible. The corresponding accessories for mounting on other cylindrical housings must be ordered separately.



Accessories

UNT-STOPPER



4685751 Accessories for finetuning the switchpoint on L T-groove cylinders; snap-locked in the BIM-UNT fixture; suited for multiple use; material: plastic

6970411

Accessories for mounting the sensors

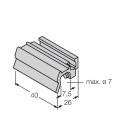
BIM-INT and BIM-UNT on tie-rod

cylinders; Cylinder diameter: 50...

mounting accessories for other cylinder diameters on request

63 mm; material: Aluminium; Further

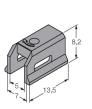
KLZ1-INT



6970410

Accessories for mounting the sensors BIM-INT and BIM-UNT on tie-rod cylinders; cylinder diameter: 32... 40 mm; material: Aluminum; further mounting accessories for other cylinder diameters on request

KLDT-UNT2



6913351

Mounting bracket for mounting magnetic field sensors on dovetail groove cylinders; groove width: 7 mm; material: PPS

KLDT-UNT3

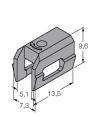
KLZ2-INT



nax. ø 9

6913352 Mounting bracket for mounting magnetic field sensors on dovetail groove cylinders; groove width: 9.4 mm; material: PPS

KLDT-UNT6



6913355

Mounting bracket for mounting magnetic field sensors on dovetail groove cylinders; groove width: 7.35 mm; material: PPS