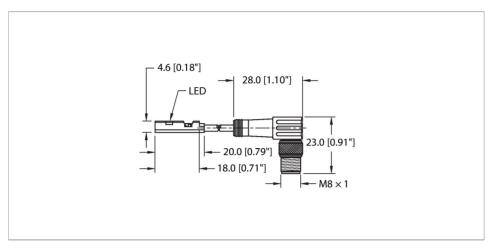


BIM-UNR-AP6X-0.3-PSW3M W/M Magnetic Field Sensor - For Pneumatic Cylinders



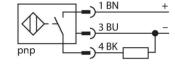
Technical data

_	
Type	BIM-UNR-AP6X-0.3-PSW3M W/M
ID	46858304
General data	
Pass speed	≤ 3 m/s
Repeatability	≤ ± 0.1 mm
Temperature drift	≤ 0.3 mm
Hysteresis	≤ 1 mm
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 100 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I _e	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.3 kHz
Mechanical data	
Design	Rectangular, UNR
Dimensions	18 x 2.9 x 4.6 mm
Housing material	Plastic, PP
Active area material	Plastic, PP

Features

- 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, PNP output
- Pigtail with male end, M8 x 1

Wiring diagram



Functional principle

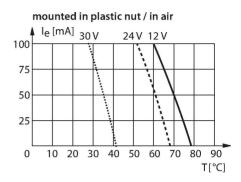
Magnetic field sensors are activated by magnetic fields and are used, in particular, for the detection of the piston position in pneumatic cylinders. As magnetic fields can permeate non-magnetizable metals, they detect a permanent magnet attached to the piston through the aluminium cylinder wall.

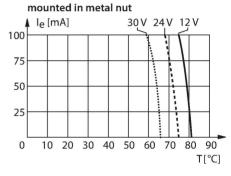
| Packed |



Technical data

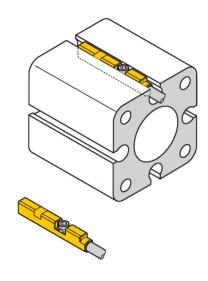
Tightening torque fixing screw	0.2 Nm
Electrical connection	Cable with connector, M8 × 1
Cable quality	Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.3 m
Core cross-section	3 x 0.08 mm ²
Litz wire	40 x0.05 mm
Environmental conditions	
Ambient temperature	-25+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	2283 years acc. to SN 29500 (Ed. 99) 40 °C
Mounting on the following profiles	
Cylindrical design	\bigcirc
Switching state	LED, Yellow
Included in delivery	cable clip

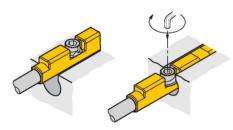




Mounting instructions

Mounting instructions/Description



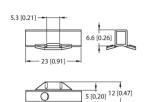


The sensor is mounted in the groove from above. Mount the sensors as follows using the patented wing screw: The wing screw features a left-hand female thread. Two small plastic lips keep the screw in position, ready-to-install. Turn the screw clockwise. The screw moves out of the thread and hits the upper grooves with the wings. The sensor is thus pressed down and locked. Use a 1.5 mm Allen key to fasten the screw with a quarter turn. A fixing torque of 0.2 Nm is sufficient for safe mounting without damaging the cylinder. Cable clips are included in the scope of delivery. They enable smooth cable routing in the groove. Mounting accessories for other cylinder sizes have to be ordered separately.

Accessories

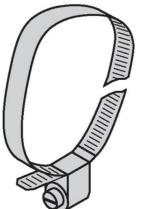
KLR2-UNR

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Mounting bracket for mounting magnetic field sensors on round cylinders





6965104

Clip collar for mounting brackets for magnetic field sensors on round cylinders; cylinder diameter: 28... 39 mm; other lengths are available under designations ASB-1 to ASB-9