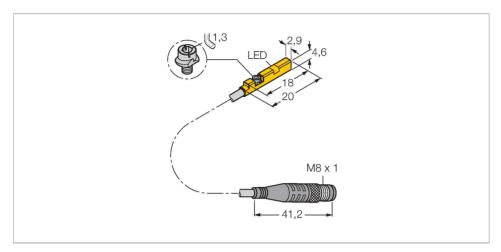


BIM-UNR-AP6X-0.5-PSG3M/S1768 W/M Magnetic Field Sensor - For Pneumatic Cylinders



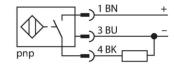
Technical data

Туре	BIM-UNR-AP6X-0.5-PSG3M/S1768 W/M
ID	4685991
Special version	S1768 corresponds to: 1/8" Viton hose added to cable. Viton slides over the back of the sensor body and covers the entire length of the cable that is cast into the back of the connector.
General data	
Pass speed	≤ 3 m/s
Repeatability	≤ ± 0.1 mm
Temperature drift	≤ 0.3 mm
Hysteresis	≤ 1 mm
Electrical data	
Operating voltage	1130 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 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 breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.3 kHz

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, 11...30 VDC
- ■NO contact, PNP output
- Pigtail with M8 × 1 male connector

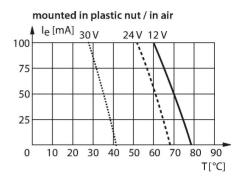
Wiring diagram

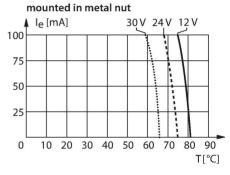




Technical data

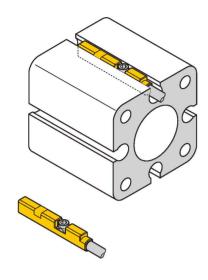
Mechanical data	
Design	Rectangular, UNR
Dimensions	18 x 2.9 x 4.6 mm
Housing material	Plastic, PP
Active area material	Plastic, PP
Tightening torque fixing screw	0.2 Nm
Electrical connection	Cable with connector, M8 × 1
Cable quality	Ø 2 mm, Gray, Lif9Y-11Y, PUR, 0.5 m
Core cross-section	3 x 0.08 mm 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	O,
Switching state	LED, Yellow
Included in delivery	cable clip



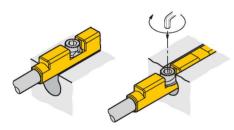


Mounting instructions

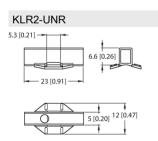
Mounting instructions/Description



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



100000596

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