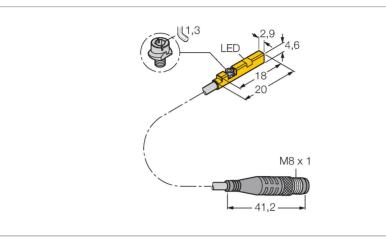


BIM-UNR-AP6X-1.5-PSG3M W/M Magnetic Field Sensor – For Pneumatic Cylinders





Technical data

Туре	BIM-UNR-AP6X-1.5-PSG3M W/M
ID	4685863
General data	
Pass speed	≤ 3 m/s
Repeatability	≤ ± 0.1 mm
Temperature drift	≤ 0.3 mm
Hysteresis	≤ 1 mm
Electrical data	
Operating voltage $U_{\scriptscriptstyle B}$	1130 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I.	≤ 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

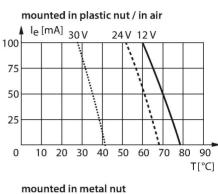
Features

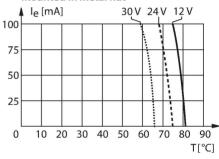
acco Opti cylir One Stat Mag DC	C-groove cylinders without mounting essories onal accessories for mounting on other drical housings. -hand mounting possible le mounting neto-resistive sensor 3-wire, 1130 VDC contact, PNP output ail with M8 × 1 male connector	rved
Wiri	ng diagram	andes res
	pnp <u>1 BN</u> + <u>3 BU</u> - <u>4 BK</u>	5 14-48 I technical ch
Fun	ctional principle	21/202
magne the de cylinde magne magne	tic field sensors are activated by tic fields and are used, in particular, for ection of the piston position in pneumatic rs. As magnetic fields can permeate non- tizable metals, they detect a permanent t attached to the piston through the ium cylinder wall.	BIM-I INR-AP6X-1 5-PSG3M W/MI 02/21/2025 14-48 I technical changes reserved



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, 1.5 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



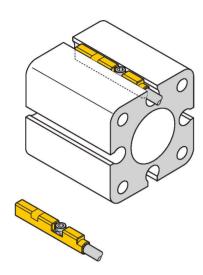


2|3



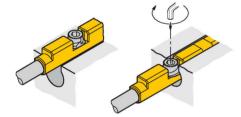
Mounting instructions

Mounting instructions/Description



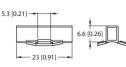
out of the thread and hits the upper grooves with the wings. The sensor is thus pressed down and locked. Use a 1.5 mm Allen key to fasten the screw with a quarter turn. A fixing torque of 0.2 Nm is sufficient for safe mounting without damaging the cylinder. Cable clips are included in the scope of delivery. They enable smooth cable routing in the groove. Mounting accessories for other cylinder sizes have to be ordered separately.

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



Accessories

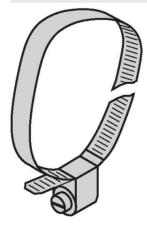
KLR2-UNR





100000596 Mounting bracket for mounting magnetic field sensors on round cylinders

ASB-4



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