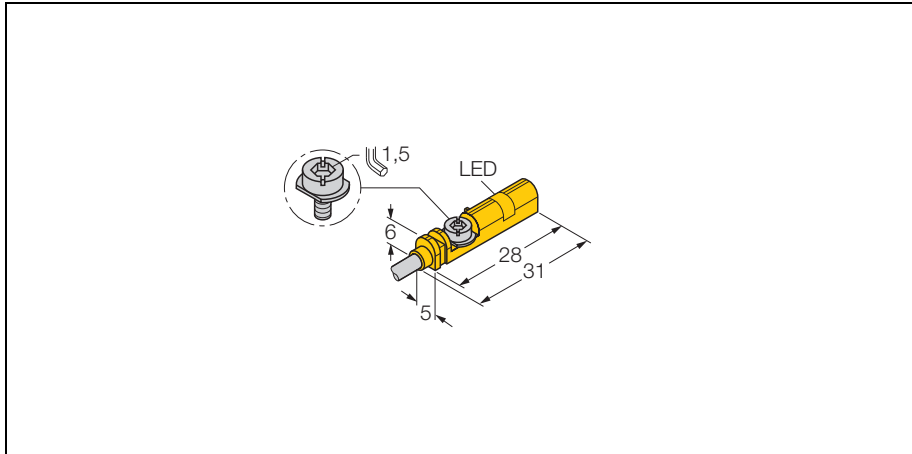


magnetic field sensor for pneumatic cylinders BIM-UNT-RP6X

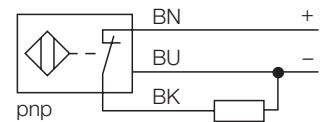
TURCK
works

Industrial
Automation



- 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...30 VDC
- normally closed, pnp output
- cable connection

Wiring diagram



Functional 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.

Type	BIM-UNT-RP6X
Ident-No.	4685746
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 30 VDC
Residual ripple	≤ 10 % U _{SS}
DC rated operational current	≤ 150 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Rated insulation voltage	≤ 0.5 kV
Short-circuit protection	yes / cyclic
Voltage dip at I _e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes / complete
Output function	3-wire, normally closed, pnp
Switching frequency	≤ 1 kHz
Housing	rectangular, UNT
Dimensions	28 x 5 x 6 mm
Housing material	plastic, PP
Material active area	plastic, PP
Connection	cable
Cable quality	Ø 3, grey, Lif9Y-11Y, PUR, 2 m
Cable cross section:	3 x 0.14 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Degree of protection	IP67
Display switch state	LED yellow
Included in scope of supply	cable clip