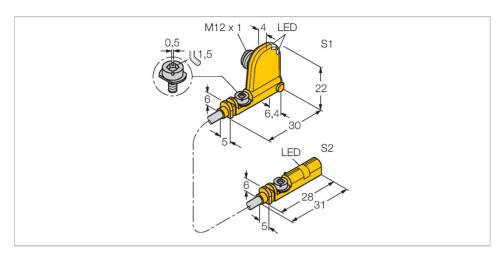


BIM-UNT-0.3-UNT-2AP6X3-H1141 Magnetic Field Sensor - For Pneumatic Cylinders



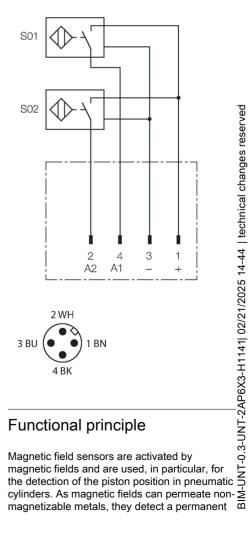
Technical data

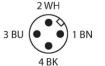
| Туре | BIM-UNT-0.3-UNT-2AP6X3-H1141 |
|---|------------------------------|
| ID | 4685730 |
| General data | |
| Pass speed | ≤ 10 m/s |
| Repeatability | ≤ ± 0.1 mm |
| Temperature drift | ≤ 0.1 mm |
| Hysteresis | ≤ 1 mm |
| Electrical data | |
| Operating voltage U _B | 1030 VDC |
| Ripple U _{ss} | ≤ 10 % U _{Bmax} |
| DC rated operating current I _e | ≤ 150 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 | 4-wire, NO contact, PNP |
| Switching frequency | 1 kHz |
| Mechanical data | |
| Design | Rectangular, UNT |
| Dimensions | 30 x 5 x 22 mm |
| Housing material | Plastic, PP |
| Active area material | Plastic, PP |

Features

- For T-groove cylinders without mounting accessories
- Optional accessories for mounting on other cylindrical housings.
- ■One-hand mounting possible
- Tool for fine adjustment and stopper for direct mounting on the sensor
- Stable mounting
- Optimally suited for monitoring two switching points on a cylinder
- No Y-splitter required
- Magneto-resistive sensor
- ■2x NO contacts, PNP output
- ■DC 4-wire, 10...30 VDC

Wiring diagram







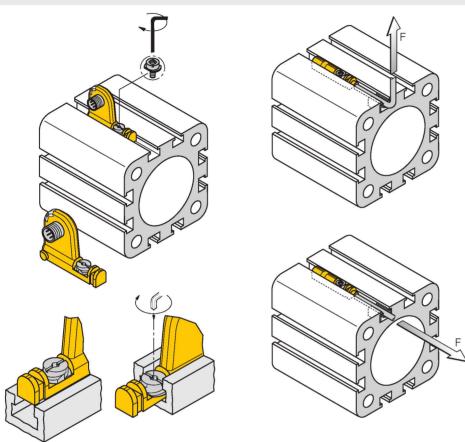
Technical data

magnet attached to the piston through the aluminium cylinder wall.

| Tightening torque fixing screw | 0.4 Nm |
|------------------------------------|---|
| Electrical connection | Connector, M12 × 1 |
| Cable quality | Ø 3 mm, Gray, Lif9Y-11Y, PUR, 0.3 m |
| | Suited for E-ChainSystems® acc. to manufacturers 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 | IP67 |
| MTTF | 2283 years acc. to SN 29500 (Ed. 99) 40 °C |
| Mounting on the following profiles | |
| Cylindrical design | |
| Power-on indication | LED, Green |
| Switching state | 2 × LEDs, Yellow/yellow |
| Included in delivery | 2x cable clip |

Mounting instructions

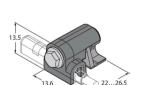
Mounting instructions/Description



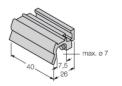
Insert sensor S2 from above; insert sensor S1 laterally in the groove with the tip first, then click-in. Mount the sensors as follows using the patented wing screw: The wing screw features a left-hand female thread. Two small plastic lips keep the screw in position, ready-to-install. Turn the screw clockwise. 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 standard screw driver or a 1.5 mm Allen key to fasten the screw with a quarter turn. A fixing torque of 0.4 Nm is sufficient for safe mounting without damaging the cylinder. The sensor now withstands axial and radial tensile load of F=100N applied on the cable. 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

KLZCD2-UNT 6970418 KLZ1-INT



Mounting bracket for mounting magnetic field sensors for T-grooves on a CleanDesign cylinder with mounting rail

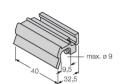


Accessories for mounting the sensors BIM-INT and BIM-UNT on tie-rod cylinders; cylinder diameter: 32... 40 mm; material: Aluminum; further mounting accessories for other cylinder diameters on request

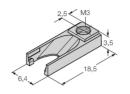
6970410

plastic

Accessories for finetuning the switchpoint on T-7 T-groove cylinders; snap-locked in the BIM-UNT fixture; suited for multiple use; material:



Accessories for mounting the sensors BIM-INT and BIM-UNT on tie-rod cylinders; Cylinder diameter: 50... 63 mm; material: Aluminium; Further mounting accessories for other cylinder diameters on request



KLRC-UNT1

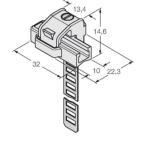
6970626

Mounting bracket for mounting magnetic field sensors on round cylinders; cylinder diameter: 8...25 mm: material: PA 6I/6T / nickel silver: fire-hazard classification acc. to UL94



6970627

Mounting bracket for mounting magnetic field sensors on round cylinders; cylinder diameter: 25...63 mm: material: PA 6I/6T / nickel silver: fire-hazard classification acc. to UL94



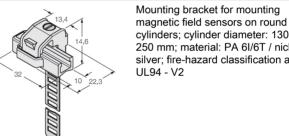
KLRC-UNT3

6970628

Mounting bracket for mounting magnetic field sensors on round cylinders; cylinder diameter: 63...130 mm; material: PA 6I/6T / nickel silver; fire-hazard classification acc. to UL94



6970629



Mounting bracket for mounting

cylinders; cylinder diameter: 130... 250 mm; material: PA 6I/6T / nickel silver; fire-hazard classification acc. to



6913351

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



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



4|4