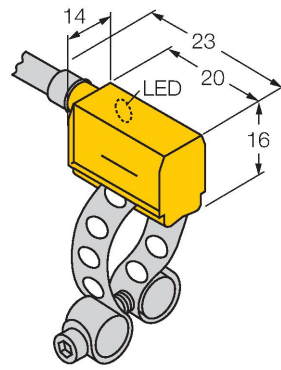


# BIM-PST-RN6X W/KLP 80

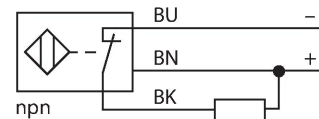
## Magnetic Field Sensor – For Pneumatic Cylinders



### Features

- Rectangular, height 16 mm
- Active face in front
- Plastic, PA12-GF30
- Magnetic-inductive sensor
- DC 3-wire, 10...30 VDC
- NC contact, PNP output
- Cable connection

### Wiring diagram



### Technical data

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Type                                      | BIM-PST-RN6X W/KLP 80         |
| Ident. no.                                | 4625710                       |
| Pass speed                                | ≤ 10 m/s                      |
| Repeatability                             | ≤ ± 0.1 mm                    |
| Temperature drift                         | ≤ 0.1 mm                      |
| Hysteresis                                | ≤ 1 mm                        |
| Ambient temperature                       | -25...+70 °C                  |
| Operating voltage                         | 10...30 VDC                   |
| Residual ripple                           | ≤ 10 % U <sub>ss</sub>        |
| DC rated operational current              | ≤ 200 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 <sub>o</sub>            | ≤ 1.8 V                       |
| Wire breakage/Reverse polarity protection | yes / Complete                |
| Output function                           | 3-wire, NC contact, NPN       |
| Switching frequency                       | 1 kHz                         |
| Design                                    | Rectangular, PST              |
| Dimensions                                | 23 x 14 x 16 mm               |
| Housing material                          | Plastic, PA12-GF30            |
| Active area material                      | Plastic, PA12-GF30            |
| Electrical connection                     | Cable                         |
| Cable quality                             | Ø 4 mm, Gray, LifYY, PVC, 2 m |

### 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.

## Technical data

|                      |                                            |
|----------------------|--------------------------------------------|
| Core cross-section   | 3 x 0.25 mm <sup>2</sup>                   |
| 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 |

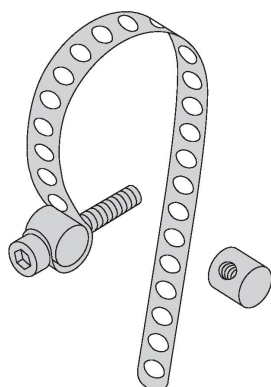
### Mounting on the following profiles

|                      |             |
|----------------------|-------------|
| Cylindrical design   | ○           |
| Switching state      | LED, Yellow |
| Included in delivery | KLP80       |

## Accessories

### KLP 25 MONTAGESET

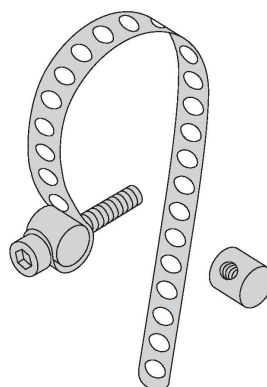
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Mounting on round cylinders; cylinder diameter 8...25 mm; material: Metal CuZn; two tie bolts (material: Metal CuZn), cylinder screw M3 x 20

### KLP 80-VA

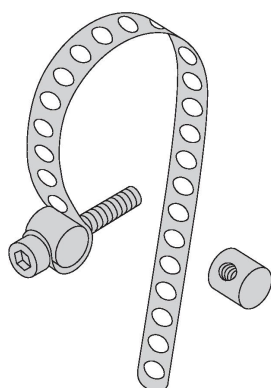
69654



Mounting on round cylinders; cylinder diameter 25...80 mm; material: Metal A2 1.4301 (AISI 304); two tie bolts (material: Metal CuZn, alternatively metal A2 1.4301 / AISI 304) cylinder screw M3 x 20; (DIN 912-A20)

### KLP 200-VA

6965302



Mounting on round cylinders; cylinder diameter 80...200 mm material: Metal A2 1.4301 (AISI 304); two tie bolts (material: Metal CuZn, alternatively metal A2 1.4301 / AISI 304) cylinder screw M3 x 20; (DIN 912-A20)