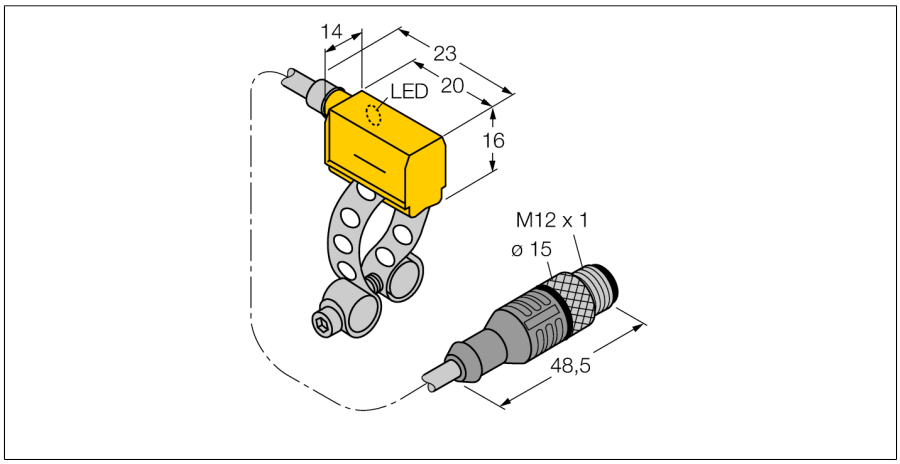
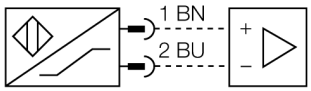
Magnetic field sensor
for pneumatic cylinders
BIM-PST-Y1X-0,15-RS4.21/S90

Industrial Automation



- **Rectangular, height 16 mm**
- **Active face in front**
- **Plastic, PA12-GF30**
- **Magnetic-inductive sensor**
- **DC 2-wire, nom. 8.2 VDC**
- **Output according DIN EN 60947-5-6 (NAMUR)**
- **Pigtail with male end, M12 x 1**

Wiring diagram



Type code	BIM-PST-Y1X-0,15-RS4.21/S90
Ident no.	1057022
Pass speed	≤ 10 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25…+70 °C
Output function	2-wire, NAMUR
Switching frequency	1 kHz
Voltage	Nom. 8.2 VDC
Non-actuated current consumption	≤ 1.2 mA
Actuated current consumption	≥ 2.1 mA
Construction	rectangular, PST
Dimensions	23 x 14 x 16 mm
Housing material	plastic, PA
Material active area	plastic, PA
Connection	Cable with male end, M12 x 1
Cable quality	4 mm, blue, LifYY-11Y, PUR, 0.15m
Cable cross section	2 x 0.25 mm²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
IP Rating	IP67
MTTF	6198 years acc. to SN 29500 (Ed. 99) 40 °C
Mounting on the following profiles	.
Cylindrical design	◯
Switching state	LED yellow
Included in delivery	KLP25

Functional principle

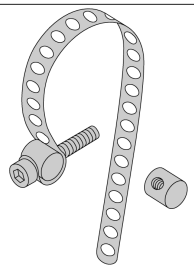
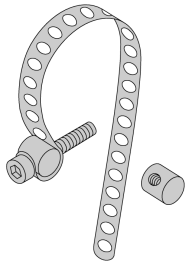
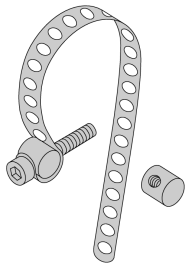
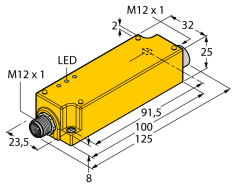
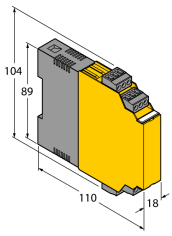
Magnetic field sensors are activated by magnetic fields and are especially suited for piston position detection in pneumatic cylinders. Based on the fact that magnetic fields can permeate non-magnetizable metals, it is possible to detect a permanent magnet attached to the piston through the aluminium wall of the cylinder.

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Accessories

Type code	Ident no.	Description	Design
KLP 25 MONTAGESET	69653	Mounting on ◯ cylinders; cylinder diameter 8…25 mm (material: Metal CuZn), 2 tie bolts (material: Metal CuZn), cylinder screw M3 x 20	
KLP 80-VA	69654	Mounting on ◯ cylinders; cylinder diameter 25…80 mm (material: Metal A2 1.4301 (AISI 304), 2 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 ◯ cylinders; cylinder diameter 80…200 mm (material: Metal A2 1.4301 (AISI 304), 2 tie bolts (material: Metal CuZn, alternatively metal A2 1.4301 / AISI 304) cylinder screw M3 x 20; (DIN 912-A20)	
IMC-Di-22Ex-PNO/24VDC	7560003	2-channel isolating switching amplifier with M12x1 males, for peripheral use, IP67, zones 2/22, input circuits II(1) Ex ia, PNP transistor output NO	
IM1-22EX-R	7541231	Isolating switching amplifier, 2-channel; 2 relay outputs; input NAMUR signal; selectable ON/OFF mode for wire-break and short-circuit monitoring; adjustable output mode (NO / NC mode); removable terminal blocks; width 18 mm; universal power supply unit	

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