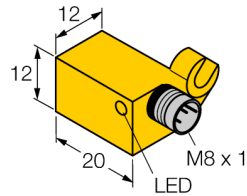
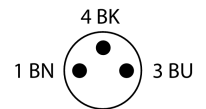
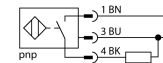


**Magnetic field sensor  
for pneumatic cylinders  
BIM-QST-AP6X-V1131**



- Rectangular, height 12 mm
- Front active face
- Plastic, PA12-GF30
- Magnetic-inductive sensor
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Male connector, M8 x 1

**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.

<b>Type designation</b>	BIM-QST-AP6X-V1131
Ident no.	4688200
<b>Pass speed</b>	≤ 10 m/s
Repeatability	≥ ± 0.1 mm
Temperature drift	≤ 0.1 mm
Hysteresis	≤ 1 mm
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30 VDC
Residual ripple	≤ 10 % U <sub>s</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes/ Cyclic
Voltage drop at I <sub>0</sub>	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
Reverse polarity protection	Complete
Switching frequency	1 kHz
<b>Design</b>	Rectangular, QST
Dimensions	20 x 12 x 12 mm
Housing material	Plastic, PA12-GF30
Active area material	Plastic, PA12-GF30
Electrical connection	Connector, M8 x 1
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	
<b>Switching state</b>	LED yellow

**Magnetic field sensor  
for pneumatic cylinders  
BIM-QST-AP6X-V1131**

**TURCK**


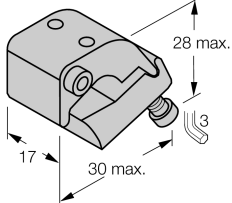

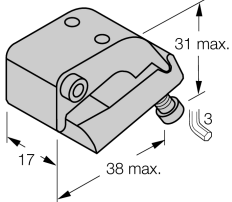

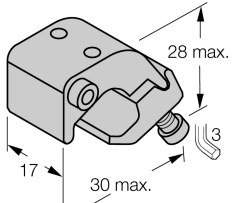

Industrial  
Automation

**Magnetic field sensor  
for pneumatic cylinders  
BIM-QST-AP6X-V1131**

**TURCK**

Industrial  
Automation

**Accessories**

Type code	Ident no.	Description	
KLQ1Z	6971911	Mounting on  tie-rod cylindes; diameter 32...63 mm, material: Anodized aluminium; please order fixing clamp separately	
KLQ2Z	6971912	Mounting on  tie-rod cylindes; diameter 50...125 mm, material: Anodized aluminium; please order fixing clamp separately	
KLQ1	6971901	Mounting on  profile cylinders; cylinder diameter 32...50 mm, material: Anodized aluminium; please order fixing clamp separately	
KLQ2	6971902	Mounting on  profile cylinders; cylinder diameter 50...100 mm, material: Anodized aluminium; please order fixing clamp separately	