



## Magnetic Cylinder Sensors Sensors for T-slot cylinders

MZ2Q-FTZPS-KU0



**Model Name** > [MZ2Q-FTZPS-KU0](#)  
**Part No.** > [1029845](#)



**At a glance**

- Magnetic cylinder sensor for all conventional pneumatic cylinders, linear slides, and grippers with T-slots
- Easy adjustment of two switching points via teach-in pushbutton
- Detection range up to 50 mm stroke
- Drop-in mounting from above simplifies handling and assembly

**Your benefits**

- One sensor with two adjustable switching points reduces installation time and costs
- Highest levels of flexibility thanks to a detection range up to 50 mm
- Reliable solution for precise pneumatic applications due to intuitive and accurate definition of two switching points
- Convenient installation and sensor replacement due to drop-in installation
- Flexible sensor settings, monitoring, advanced diagnostics, and visualization thanks to IO-Link



**Features**

Output type:	PNP
Output function:	NO
Electrical wiring:	DC 4-wire
Teach-in:	1
Cylinder type:	T-slot
Cylinder types with adapter:	Profile cylinder Roundbody cylinder SMC rail cylinder CDQ2 SMC rail cylinder ECDQ2 Tie rod cylinder Cylinders with dovetail slots
Housing length:	40 mm
Enclosure rating:	IP 67 <sup>1)</sup>

<sup>1)</sup> According to EN 60529

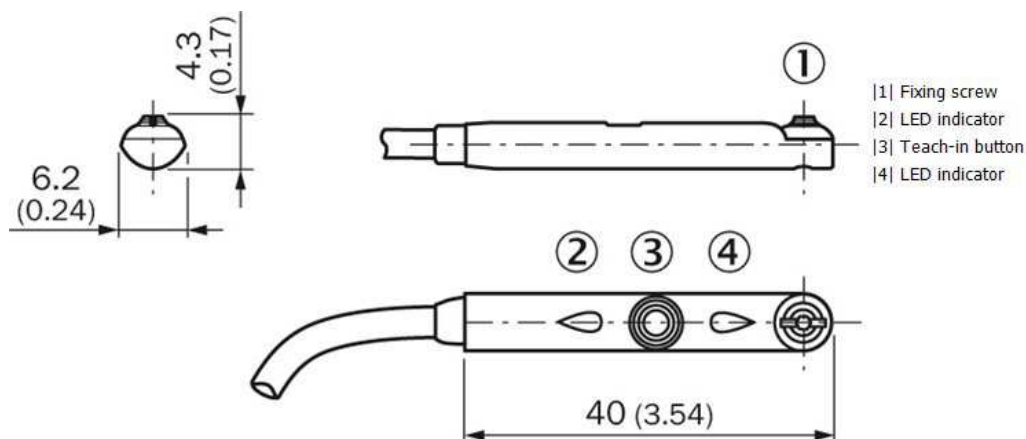
**Mechanics/electronics**

Connection type:	Cable, 4-wire, 2 m
Supply voltage:	12 V DC ... 30 V DC
Power consumption:	≤ 15 mA <sup>1)</sup>
Voltage drop:	≤ 2.2 V

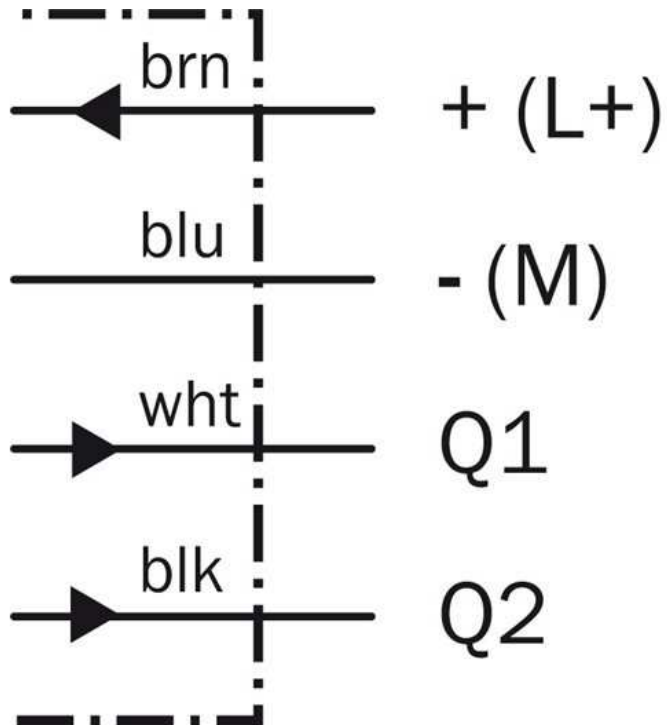
Output current I <sub>a</sub> :	≤ 100 mA
EMC:	According to EN 60947-5-2
Cable material:	PUR
Conductor cross-section:	0.08 mm <sup>2</sup>
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Power-up pulse protection:	✓
IO-Link:	-
Repeatability:	≤ 0.1 mT <sup>2)</sup>
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-20 °C ... +75 °C
Protection class:	III
Detection area:	0 mm50 mm
Hysteresis typ.:	1 mT

1) Without load 2) U<sub>b</sub> and T<sub>a</sub> constant

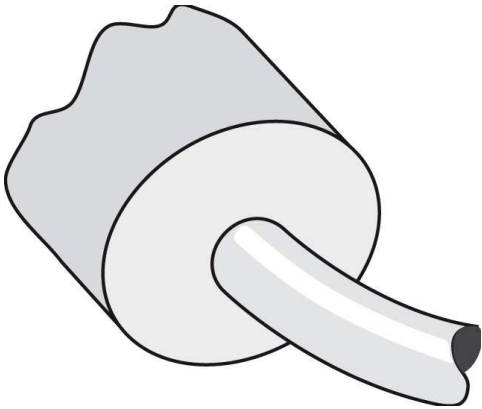
### Dimensional drawing



Connection diagram



Connection type



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