



## Magnetic Cylinder Sensors Sensors for C-slot cylinders

MZ2Q-CFSPSKR0



**Model Name** > [MZ2Q-CFSPSKR0](#)  
**Part No.** > [1042243](#)



**At a glance**

- Magnetic cylinder sensor for all conventional pneumatic cylinders, linear slides, and grippers with C-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 zone 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:	C-slot
Housing length:	19.5 mm
Enclosure rating:	IP 67 <sup>1)</sup>

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

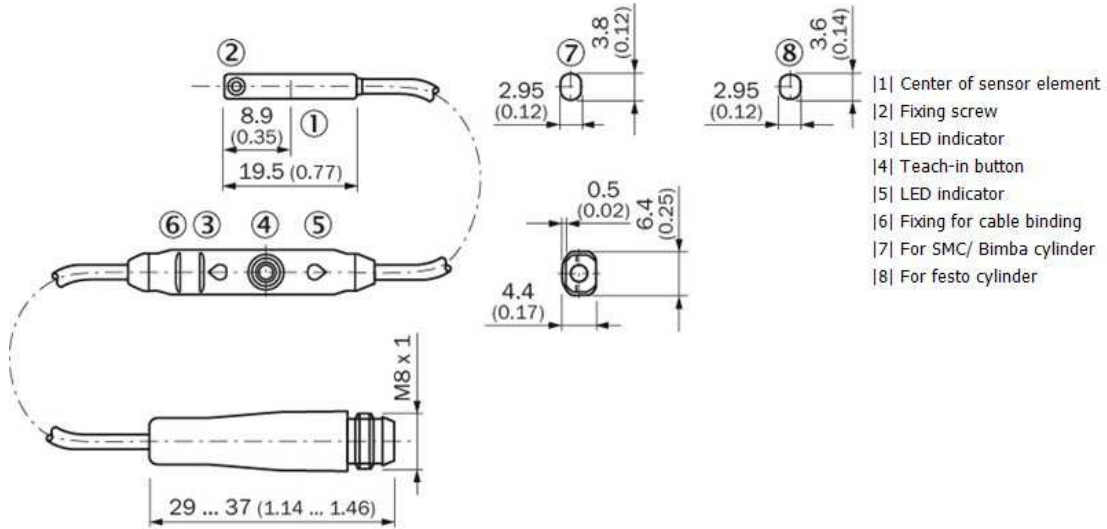
**Mechanics/electronics**

Connection type:	Cable with connector M8, 4-pin, with knurled nuts, 0.5 m
For SMC cylinder:	-
For Festo cylinder:	✓
Thread size:	M8
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

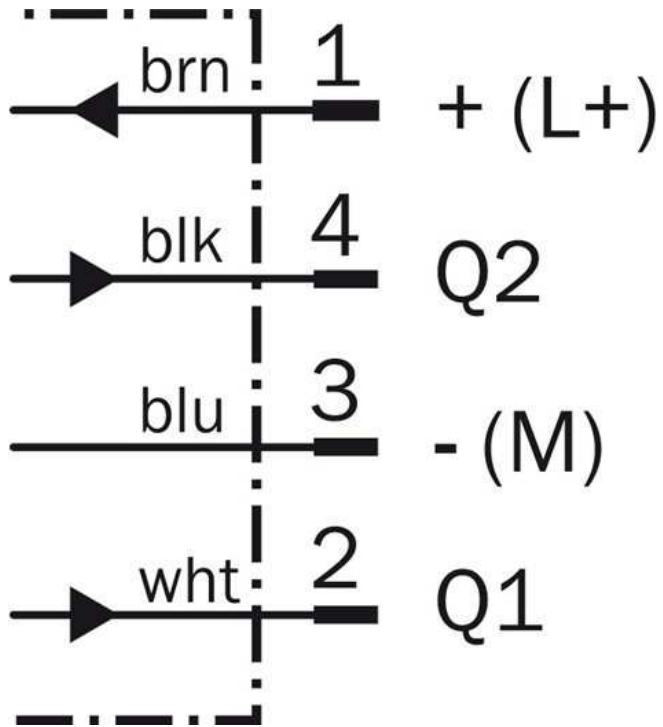
Cable material:	PUR
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Power-up pulse protection:	✓
IO-Link:	-
Repeatability:	$\leq 0.1 \text{ mT}^{2)}$
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-20 °C ... +75 °C
Protection class:	III
Detection area:	0 mm x 50 mm
Hysteresis typ.:	1 mT

1) Without load 2)  $U_b$  and  $T_a$  constant

### Dimensional drawing



Connection diagram



Connection type



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