



Magnetic Cylinder Sensors Sensors for C-slot cylinders

MZ2Q-CFSPSKQ0



Model Name > MZ2Q-CFSPSKQ0
Part No. > 1042244



At a glance

- Magnetic cylinder sensor for pneumatic and hydraulic cylinders with C-slot
- Simple 2-point teach-in procedure
- Detection zone up to 50 mm stroke
- Drop-in mounting from above
- Sensor fully recessed in slot
- Two versions available for Festo and SMC C-slots
- Flexible sensor settings, monitoring, advanced diagnostics, and visualization thanks to IO-Link

Your benefits

- One sensor with two programmable switching points reduces installation time
- Fewer mounting and cabling requirements - saves installation time, mounting space, and money
- Maximum flexibility: programmable detection zone up to 50 mm stroke
- Suitable for precise pneumatic applications due to simple and precise definition of two switching points
- IO-Link provides easy data access from the PLC
- Quick and easy configuration
- Quick and easy integration using function blocks
- Easy device replacement and identification



Features

Output type:	PNP
Output function:	NO
Electrical wiring:	DC 4-wire
Enclosure rating:	IP 67 ¹⁾
Cylinder types with adapter:	SMC rail cylinder CDQ2 (C-Slot) SMC rail cylinder ECDQ2 (C-Slot)
Teach-in:	1
Housing length:	19.5 mm
Cylinder type:	C-slot

¹⁾ According to EN 60529

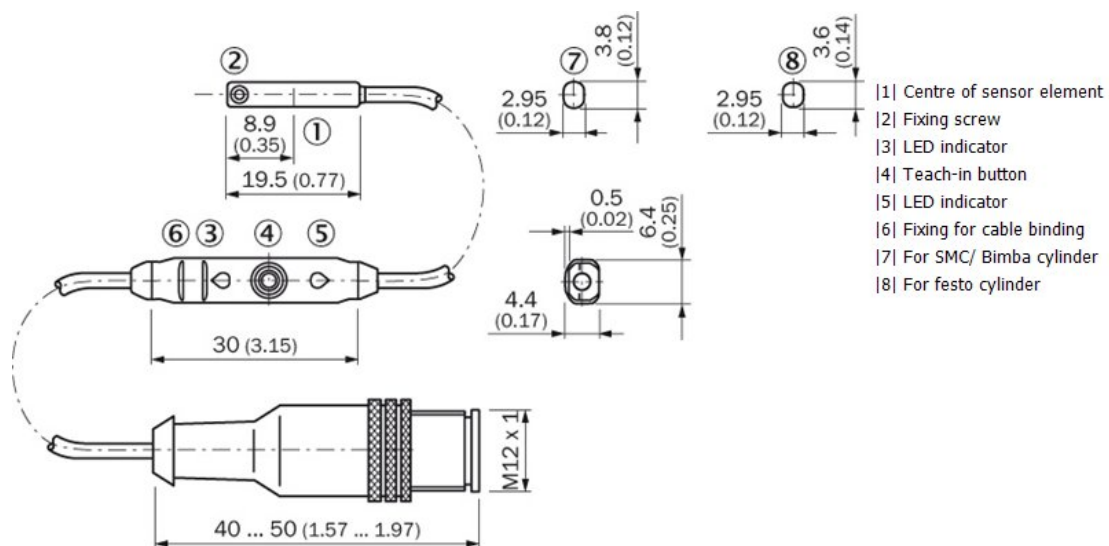
Mechanics/electronics

Connection type:	Cable with connector M12, 4-pin, 0.3 m
Supply voltage:	12 V DC ... 30 V DC

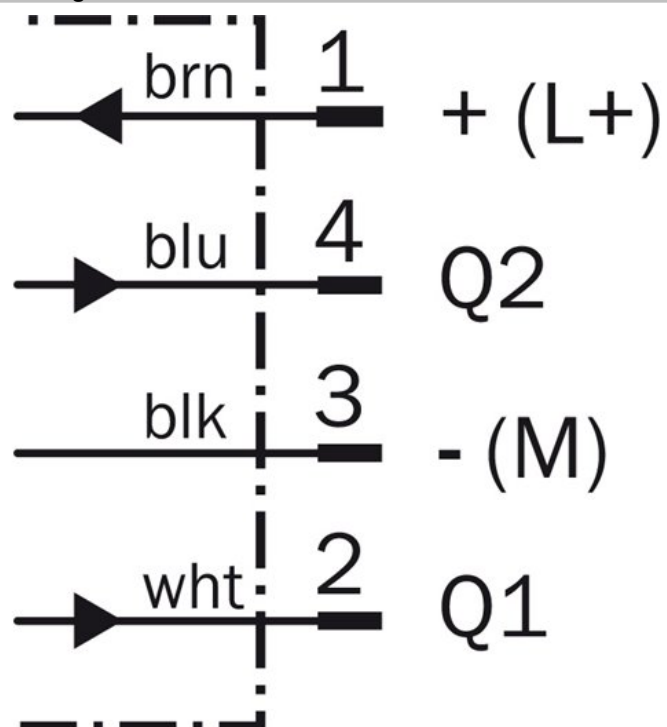
Power consumption:	$\leq 15 \text{ mA}$ ¹⁾
Voltage drop:	$\leq 2.2 \text{ V}$
Output current I_a :	$\leq 100 \text{ mA}$
Hysteresis:	1 mT
Repeatability:	$\leq 0.1 \text{ mT}$ ²⁾
EMC:	According to EN 60947-5-2
Cable material:	PUR
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Sensing face material:	Plastic
Ambient operating temperature:	-20 °C ... 75 °C
Power-up pulse protection:	✓
Thread size:	M12
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
IO-Link:	-

¹⁾ Without load ²⁾ U_b and T_a constant

Dimensional drawing



Connection diagram



Connection type



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