



Magnetic Cylinder Sensors Sensors for T-slot cylinders

MZ2Q-FTZPS-KQ0



Model Name > MZ2Q-FTZPS-KQ0
Part No. > 1041323



At a glance

- Magnetic cylinder sensor for pneumatic and hydraulic cylinders with T-slot
- Simple 2-point teach-in procedure
- Detection zone up to 50 mm stroke
- Drop-in T-slot mounting from above makes assembly easy
- Sensor fully recessed in slot
- For all commonly used cylinders with T-slots, e.g., Festo or SMC and it can be applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets
- Flexible sensor settings, monitoring, advanced diagnostics, and visualization thanks to IO-Link

Your benefits

- One sensor with two adjustable switching points reduces installation time and cost
- Detection zone up to 50 mm stroke provides maximum application flexibility
- Ideal for precise pneumatic applications due to the definition of two switching points
- Drop-in T-slot mounting from above makes assembly easy
- 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:	Profile cylinder Roundbody cylinder Dove-tail groove cylinder SMC rail cylinder CDQ2 (T-Slot) SMC rail cylinder ECDQ2 (T-Slot) Tie rod cylinder
Teach-in:	1
Housing length:	19.5 mm
Cylinder type:	T-slot

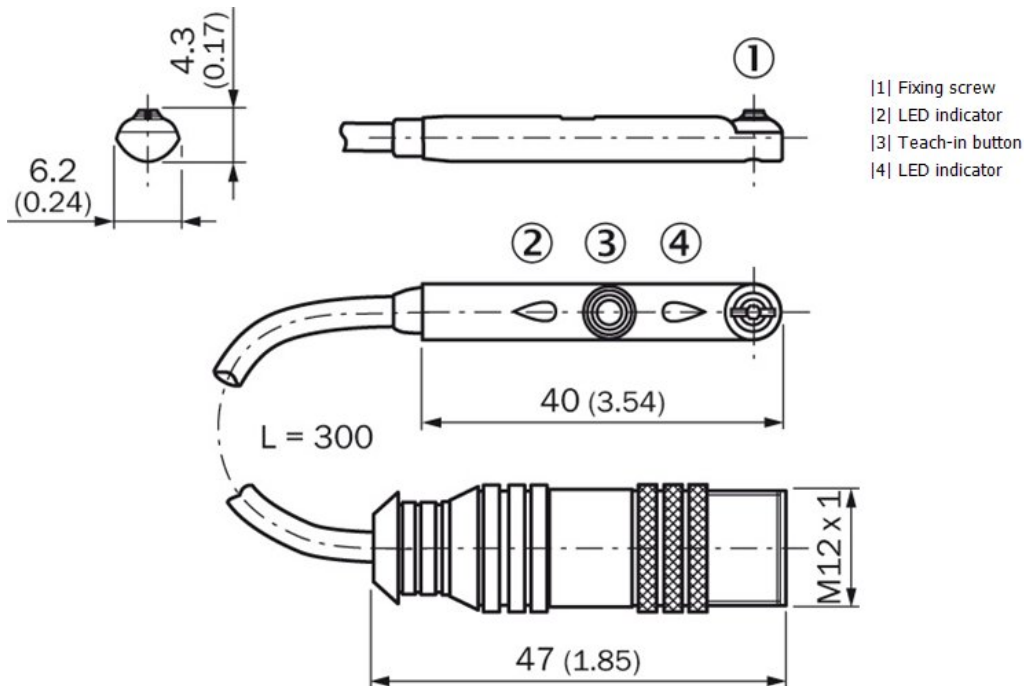
1) According to EN 60529

Mechanics/electronics

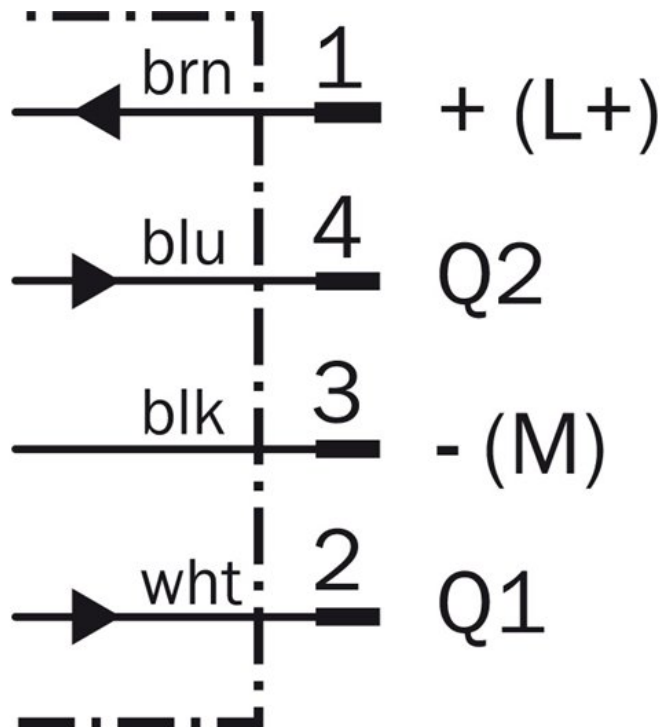
Connection type:	Cable with connector M12, 4-pin, with knurled nuts, 0.3 m
Supply voltage:	12 V DC ... 30 V DC
Power consumption:	$\leq 15 \text{ mA}$ ¹⁾
Voltage drop:	$\leq 2.2 \text{ V}$
Output current I_a :	$\leq 100 \text{ mA}$
Hysteresis:	1 mT
Repeatability:	$\leq 0.1 \text{ mT}$ ²⁾
EMC:	According 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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