



Magnetic Cylinder Sensors Sensors for T-slot cylinders

MZT1-03VNS-KR0



Model Name > [MZT1-03VNS-KR0](#)
Part No. > [1027577](#)



At a glance

- Compact housing design
- LED function indicator
- IP 67 enclosure rating
- Magnetoresistive (GMR) element
- 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

Your benefits

- Economic solution providing reliable switching performance
- Drop-in T-slot mounting from above makes assembly easy
- Easy installation with Allen wrench
- Resistant to shock, vibration and liquids, enlarging sensor life time



Features

Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Sensing face:	Front
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
Housing length:	30.5 mm
Switching frequency typ.:	5,000 Hz
Cylinder type:	T-slot

¹⁾ According to EN 60529

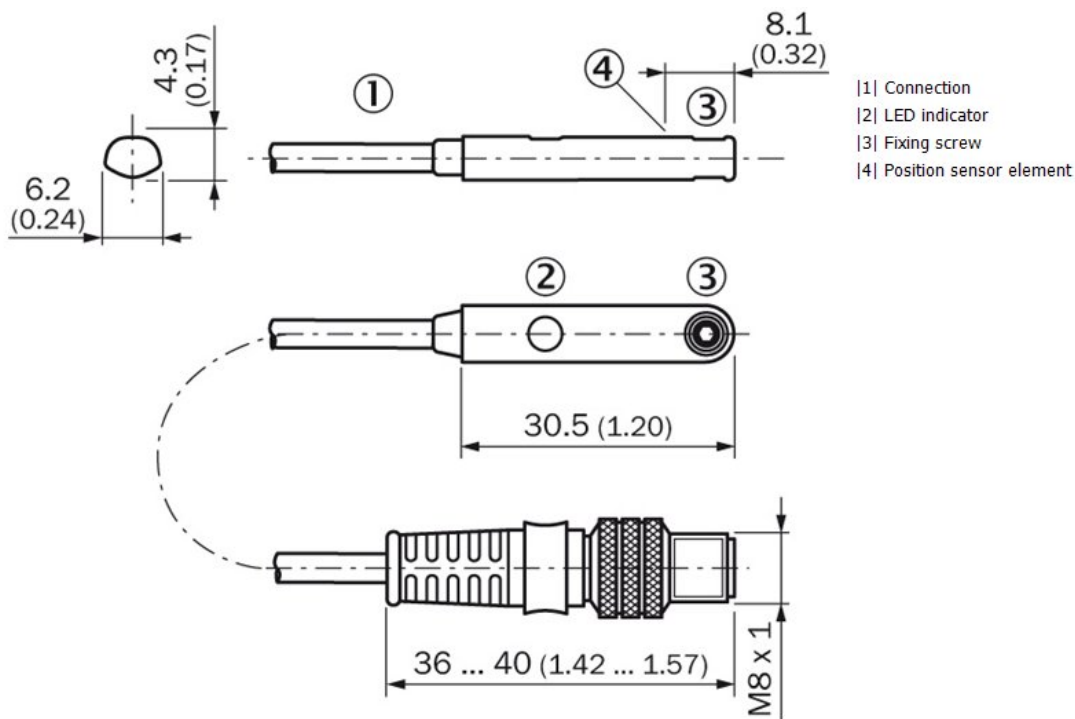
Mechanics/electronics

Connection type:	Cable with connector M8, 3-pin, with knurled nuts, 0.5 m
Supply voltage:	10 V DC ... 30 V DC
Power consumption:	≤ 10 mA ¹⁾
Voltage drop:	≤ 2 V ²⁾
Output current I _a :	≤ 100 mA

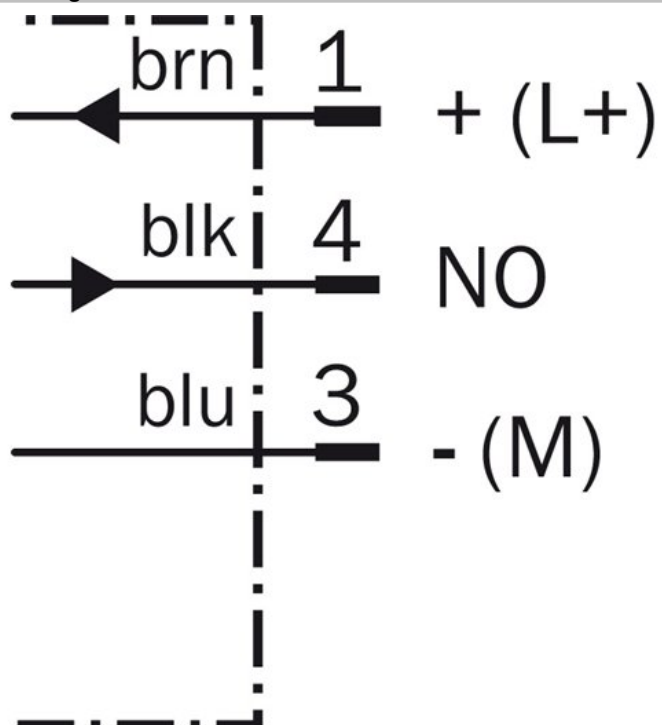
Hysteresis:	$\leq 0.5 \text{ mT}$
Repeatability:	$\leq 0.1 \text{ mT}$ ³⁾
EMC:	According to EN 60947-5-2
Cable material:	PUR
Conductor cross-section:	0.14 mm^2
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Sensing face material:	Plastic
Ambient operating temperature:	$-25 \text{ }^{\circ}\text{C} \dots 75 \text{ }^{\circ}\text{C}$
Power-up pulse protection:	✓
Thread size:	M8
Magnetic field sensitivity, min.:	$\leq 2.8 \text{ mT}$
Output indicator:	✓
Overrun distance typ.:	9 mm
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm

1) Without load 2) At I_{max} 3) U_b and T_a constant

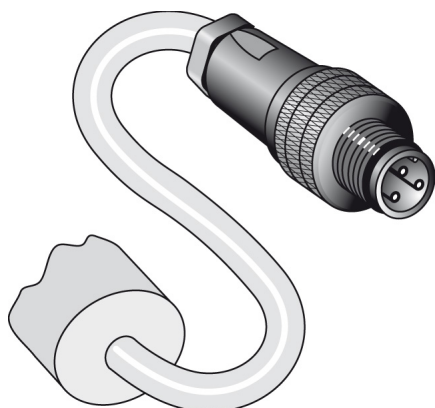
Dimensional drawing



Connection diagram



Connection type



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