



Magnetic Cylinder Sensors Sensors for T-slot cylinders

MZT6-03VNS-KP0



Model Name > [MZT6-03VNS-KP0](#)
Part No. > [1029402](#)



At a glance

- Compact housing design
- Proprietary GMR-ASIC technology ensures precise switching and low hysteresis
- Enclosure rating: IP 68 / IP 69K
- Combined fixing screw
- LED function indicator
- 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

- Best-in-class switching performance for precise piston position
- Highly resistant to shock and vibration enlarging sensor life time
- Drop-in T-slot mounting from above makes assembly easy
- Easy installation with Allen wrench or flat head screwdriver
- Resistant to leaks, ensuring reliability



Features

Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 68
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:	31.5 mm
Switching frequency typ.:	1,000 Hz
Cylinder type:	T-slot

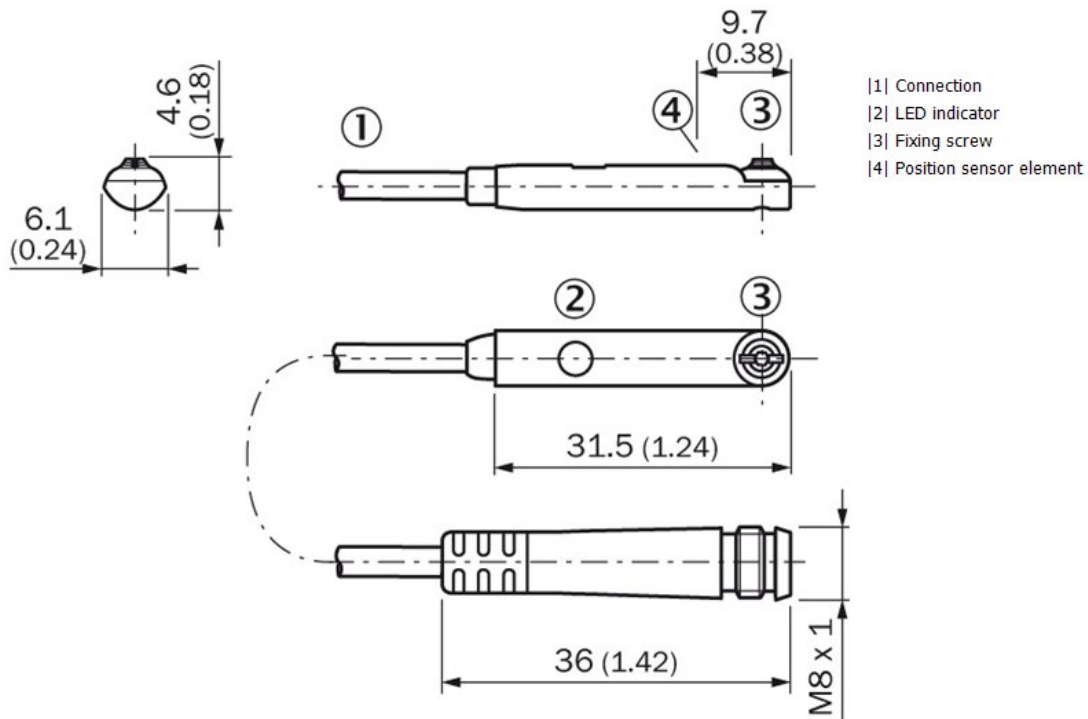
Mechanics/electronics

Connection type:	Cable with connector M8, 3-pin, 0.3 m
Supply voltage:	10 V DC ... 30 V DC
Power consumption:	≤ 10 mA ¹⁾
Voltage drop:	≤ 2.2 V
Output current I _a :	≤ 200 mA

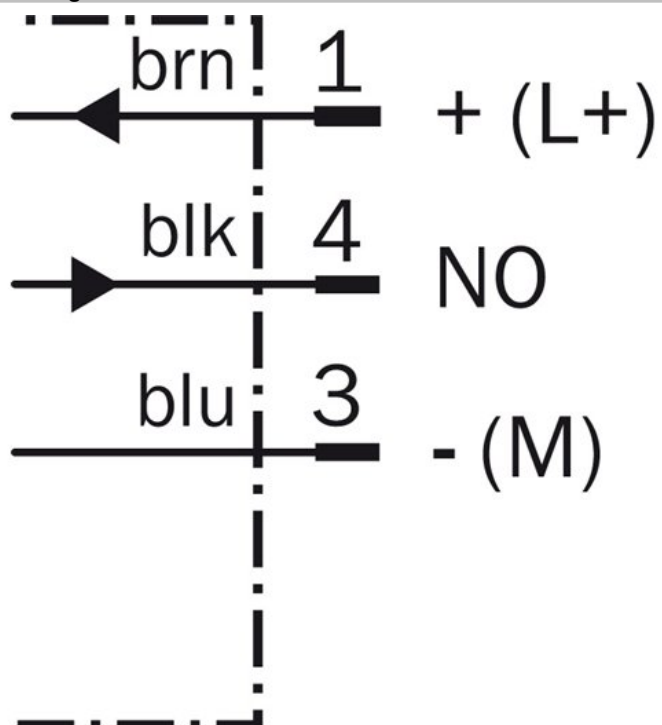
Hysteresis:	> 0.5 mT
Repeatability:	$\leq 0.1 \text{ mT}^{2)}$
EMC:	According to EN 60947-5-2
Cable material:	PUR
Conductor cross-section:	0.12 mm ²
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Sensing face material:	Plastic
Ambient operating temperature:	-30 °C ... 80 °C
Power-up pulse protection:	✓
Thread size:	M8
Magnetic field sensitivity, min.:	2.6 mT
Overrun distance typ.:	3 mm
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm

1) Without load 2) U_b and T_a constant

Dimensional drawing



Connection diagram



Connection type



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