



Magnetic Cylinder Sensors Sensors for T-slot cylinders

MZT6-03VPS-KWAS06



Model Name > [MZT6-03VPS-KWAS06](#)
Part No. > [1042119](#)



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:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 68 IP 69K 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:	31.5 mm
Switching frequency typ.:	1,000 Hz
Cylinder type:	T-slot

¹⁾ According to EN40050

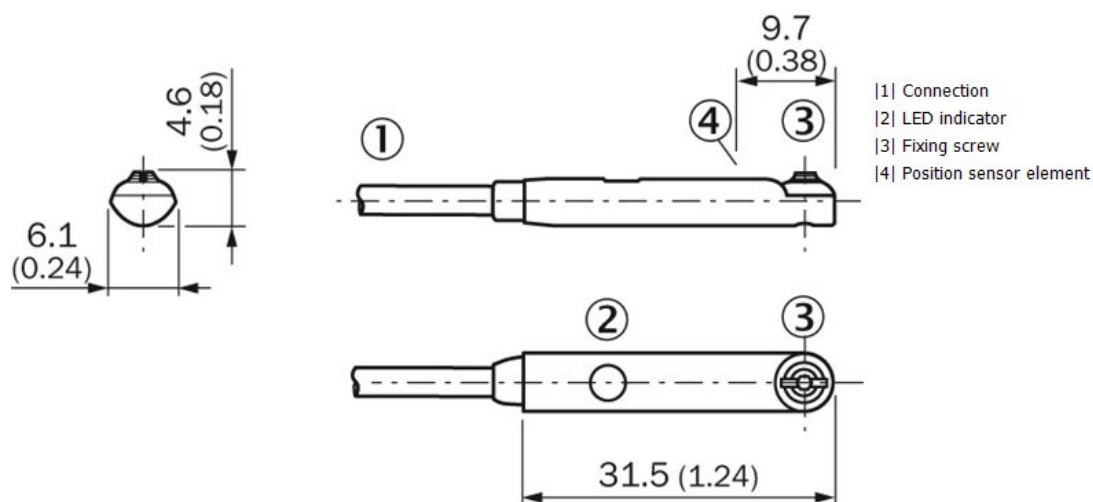
Mechanics/electronics

Connection type:	Cable, 3-wire, 3 m
Supply voltage:	10 V DC ... 30 V DC

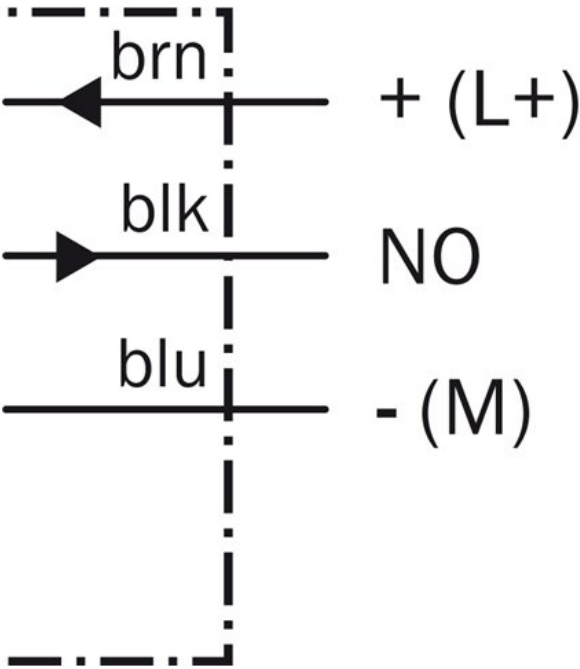
Power consumption:	$\leq 10 \text{ mA}$ ¹⁾
Voltage drop:	$\leq 2.2 \text{ V}$
Output current I_a :	$\leq 70 \text{ mA}$
Hysteresis:	$> 0.5 \text{ mT}$
Repeatability:	$\leq 0.1 \text{ mT}$ ²⁾
EMC:	According to EN 60947-5-2
Cable material:	PVC
Conductor cross-section:	0.14 mm^2
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Sensing face material:	Plastic
Ambient operating temperature:	$-30 \text{ }^\circ\text{C} \dots 80 \text{ }^\circ\text{C}$
Power-up pulse protection:	✓
Magnetic field sensitivity, min.:	2.6 mT
ATEX marking:	Ex II 3D T100 $^\circ\text{C}$ IP 67, Ex II 3G EEx nA II T4 X
Overrun distance typ.:	3 mm
Hazardous area category:	3D, 3G
Shock/vibration:	$30 \text{ g}, 11 \text{ ms}/10 \dots 55 \text{ Hz}, 1 \text{ mm}$

¹⁾ Without load ²⁾ U_b and T_a constant

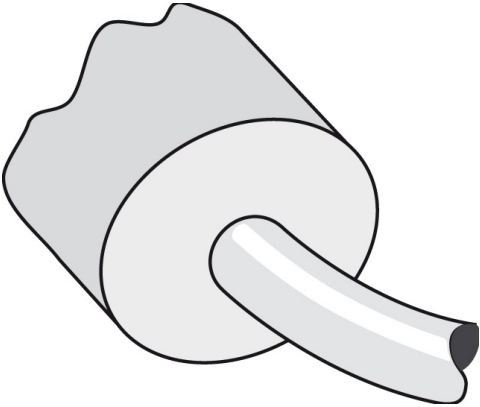
Dimensional drawing



Connection diagram



Connection type



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