

MZT8-03VPO-KP0







# **Magnetic Cylinder Sensors** Sensors for T-slot cylinders

**Model Name** > MZT8-03VPO-KP0

Part No. > 1044930



#### At a glance

- Fits into all commonly used cylinders, linear slides and grippers with T-slots and it can be also applied to multiple cylinders types such as round, tie-rod, integrated profile or dove-tail cylinders with mounting brackets
- Complete range with PNP/ NPN, PUR and PVC cable, M8 and M12 connector
- · Combined Allen and flathead installation screw
- · Very short sensor housing to install on short stroke cylinders
- · LED function indicator
- IP 67 / IP 68 / IP 69K enclosure rating (depending on type)

#### Your benefits

- · Best-in-class switching performance for precise piston position
- Reduced maintenance cost as the sensor keeps its position under shock and vibration and does not move out
- Increased machine throughput thanks to SICK's proprietary GMR technology (giant magneto resistive) as well as the SICK-ASIC (application specific integrated circuit) that ensure precise one-time switching while eliminating false signals
- Flexible installation via Allen wrench or flathead screwdriver
- Time saving single-hand mounting with \( \frac{1}{4}\)-turn installation.
- Convenient installation and sensor replacement due to drop-in installation installer does not need to disassemble the cylinder from the machine for sensor replacement.
- Extremely rugged housing rated for IP67 respectively IP 68 and IP 69K, enlarging sensor life time



# **Features**

Switching frequency typ.: 1,000 Hz **PNP** Output type: Output function: NC Electrical wiring: DC 3-wire Cylinder type: T-slot

Cylinder types with adapter: Profile cylinder

Roundbody cylinder SMC rail cylinder CDQ2 SMC rail cylinder ECDQ2 Tie rod cylinder

Cylinders with dovetail slots

Housing length: 24 mm IP 68 <sup>1)</sup> Enclosure rating:





1) According to EN 60529 (IP67/IP68)

### Mechanics/electronics

Connection type: Cable with connector M8, 3-pin, 0.3 m M8

Thread size:

10 V DC ... 30 V DC ≤ 10 mA <sup>1)</sup> Supply voltage:

Power consumption: Voltage drop: ≤ 2.2 V Output current la: ≤ 200 mA

EMC: According to EN 60947-5-2 Cable material: **PUR** 

Conductor cross-section: 14 mm<sup>2</sup> Reverse polarity protection: Short-circuit protection: Housing material: Plastic PA12 Housing cap material: Power-up pulse protection:

 $\leq$  0.1 mT  $^{2)}$ Repeatability: Overrun distance typ.: 3 mm

30 g, 11 ms/10 ... 55 Hz, 1 mm Shock and vibration resistance:

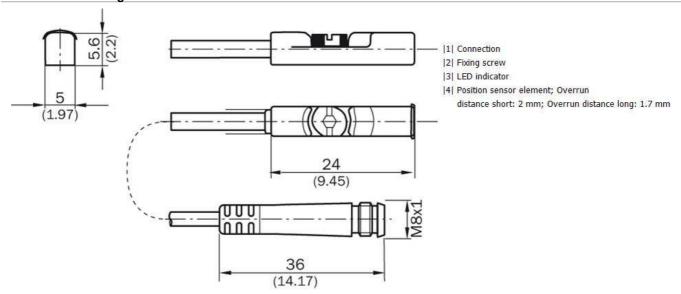
-30 °C ... +80 °C Ambient operating temperature:

Protection class: Ш Hysteresis typ.: > 0.5 mT Magnetic field sensitivity, typ.: 2.6 mT

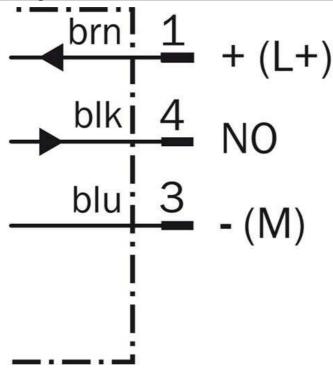
1) Without load 2) Ub and Ta constant

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**Dimensional drawing** 



# **Connection diagram**



Connection type



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