

MZT8-03VNS-KW0







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

**Model Name** > MZT8-03VNS-KW0

Part No. > 1044468

# 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 NPN Output type: Output function: NO 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

24 mm Housing length:

IP 68, IP 69K  $^{1)}$   $^{2)}$ Enclosure rating::

## Mechanics/electronics

Connection type: Cable, 3-wire, 2 m Supply voltage:  $10 \text{ V DC } \dots 30 \text{ V DC}$  Power consumption:  $\leq 10 \text{ mA}^{-1}$ 

Power consumption:  $\leq$  10 mA  $^{1}$  Voltage drop:  $\leq$  2.2 V Output current la:  $\leq$  200 mA

EMC: According to EN 60947-5-2

Cable material:PVCConductor cross-section: $12 \text{ mm}^2$ Reverse polarity protection:✓Short-circuit protection:✓Housing material:PlasticHousing cap material:PA12Power-up pulse protection:✓Repeatability: $\leq 0.1 \text{ mT}^2$ 

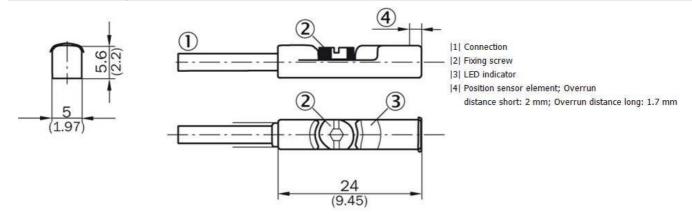
Overrun distance typ.: 3 mm

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

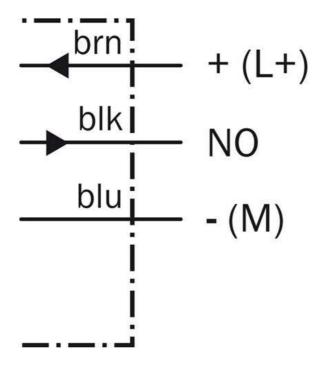
Ambient operating temperature: -30 °C ... +80 °C

Protection class: III
Hysteresis typ.: > 0.5 mTMagnetic field sensitivity, typ.: 2.6 mT

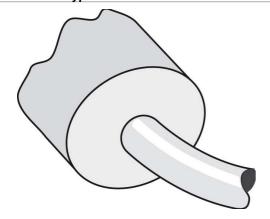
1) Without load 2) Ub and Ta constant



# Connection diagram



# Connection type



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