

MZT8-03VNS-KRDS15







Magnetic Cylinder Sensors Sensors for T-slot cylinders

Model Name > MZT8-03VNS-KRDS15

Part No. > 1069394

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

Housing length: 24 mm

Special features: 20 ms pulse streching (off delay)





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

1) According to EN 60529 (IP67/IP68) 2) Restriction for steam cleaner: pressure 100 bar, temperature < 80 °C, distance minimum 150 mm

Mechanics/electronics

Electrical connection: Cable with connector M8, 3-pin, with knurled nuts, 0.5 m

Supply voltage: 10 V DC ... 30 V DC

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:

Conductor cross-section:

Reverse polarity protection:

Short-circuit protection:

Housing material:

Housing cap material:

PA12

Power-up pulse protection:

✓ 0.4 mT

Repeatability: ≤ 0.1 mT ²⁾
Overrun distance typ.: 3 mm

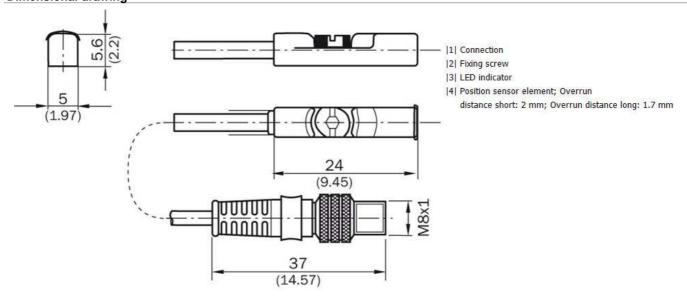
Shock and vibration resistance: 30 g, 11 ms/10 ... 55 Hz, 1 mm

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

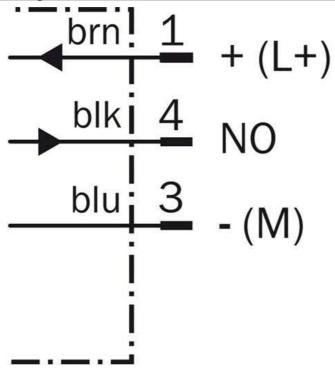
Protection class: III
Hysteresis typ.: $\leq 0.5 \text{ mT}$ Magnetic field sensitivity, typ.: 2.6 mT

1) Without load 2) Ub and Ta constant

Dimensional drawing



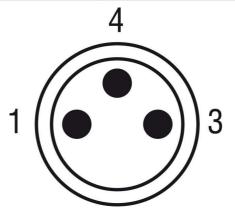
Connection diagram



Connection type

Connection to conveyor





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