

MZC1-6V0NS-KRDS06







# Magnetic Cylinder Sensors Sensors for C-slot cylinders

Model Name > MZC1-6V0NS-KRDS06

Part No. > 1068622





## At a glance

- Fits into all commonly used cylinders, linear slides and grippers with C-slots, such as, Festo or SMC
- Complete range with PNP / NPN, PUR and PVC cable, M8 and M12 connector
- · Combined Allen and flathead installation screw
- · Very short sensor housing, making it easier to install on short stroke cylinders
- · LED function indicator
- IP 67 / IP 68 / IP 69K enclosure rating (depending on type)

#### Your benefits

- 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 ¼-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 VISTAL-housing rated for IP67 respectively IP 68 and IP 69K, enlarging sensor life time



### **Features**

Switching frequency typ.: 1,000 Hz
Output type: NPN
Output function: NO
Electrical wiring: DC 3-wire
Cylinder type: C-slot

Cylinder types with adapter: SMC rail cylinder CDQ2 SMC rail cylinder ECDQ2

Housing length: 23.7 mm

Special features: 20 ms pulse streching (off delay)

According to EN 60529 (IP67/IP68);

## 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:  $\leq$  8 mA  $^{1)}$  Voltage drop:  $\leq$  2.5 V Output current la:  $\leq$  100 mA

EMC: According to EN 60947-5-2

Cable material: PUR
Conductor cross-section: 0.09 mm²
Reverse polarity protection: ✓

Short-circuit protection: 

✓
Power-up pulse protection: -

Repeatability:  $\leq 0.1 \text{ mT}^{2}$ Overrun distance typ.:  $\leq 4 \text{ mm}$ 

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

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

Protection class: III

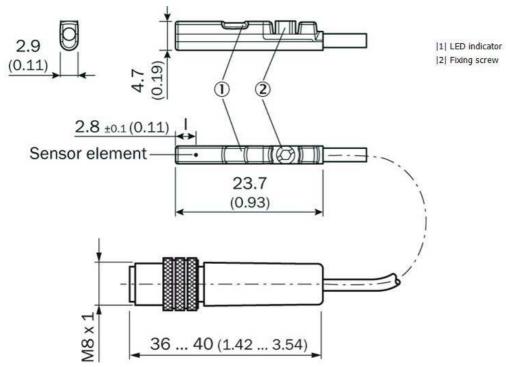
Hysteresis typ.: ≤ 0.8 mT

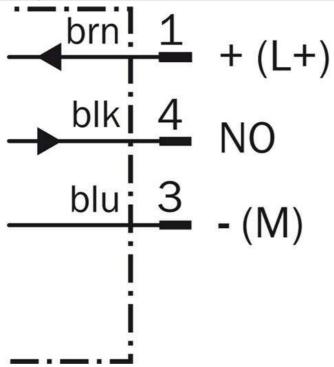
Magnetic field sensitivity, typ.: 6 mT

Housing material: Plastic

1) Without load 2) Ub and Ta constant

**Dimensional drawing** 





**Connection type** 



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