



Magnetic Cylinder Sensors Sensors for C-slot cylinders

MZC1-4V3PS-KR0



Model Name > MZC1-4V3PS-KR0
Part No. > 1059753



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
- Operating display LED
- 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 via SICK' s proprietary GMR (giant magneto resistive) and ASIC (application specific integrated circuit) technology that ensures 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.

Features

Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Sensing face:	Front
Housing length:	23.7 mm
Switching frequency typ.:	1,000 Hz
Cylinder type:	C-slot

According to EN 60529 (IP67/IP68);

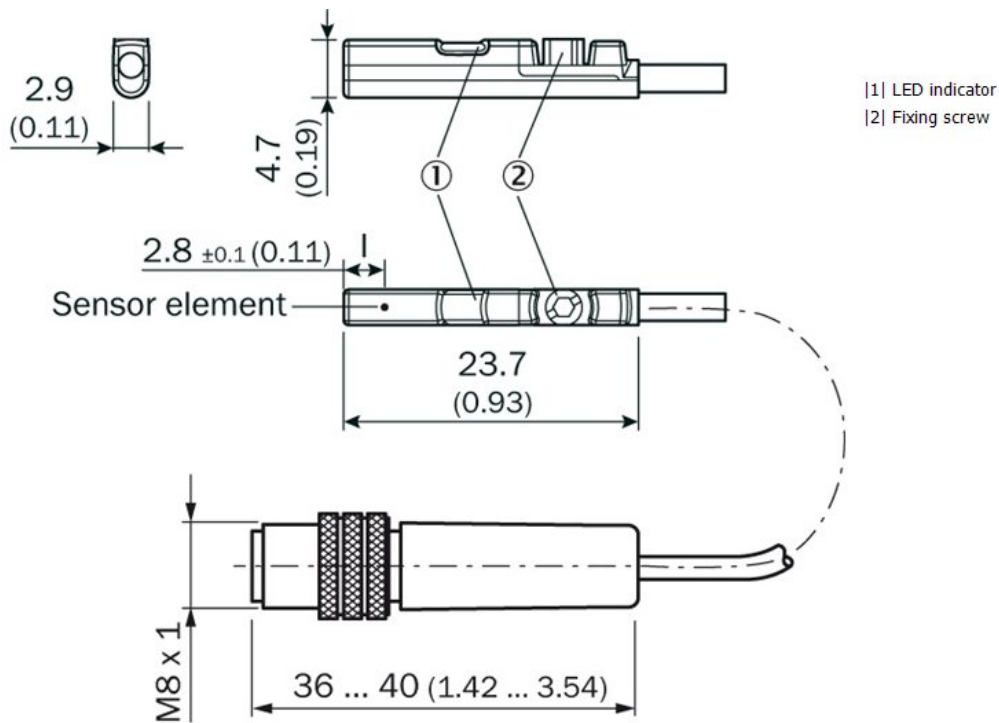
Mechanics/electronics

Connection type:	Cable with connector M8, 3-pin, with knurled nuts, 0.3 m
Supply voltage:	10 V DC ... 30 V DC
Power consumption:	≤ 8 mA ¹⁾
Voltage drop:	≤ 2.5 V
Output current I _a :	≤ 100 mA
Hysteresis:	≤ 0.8 mT

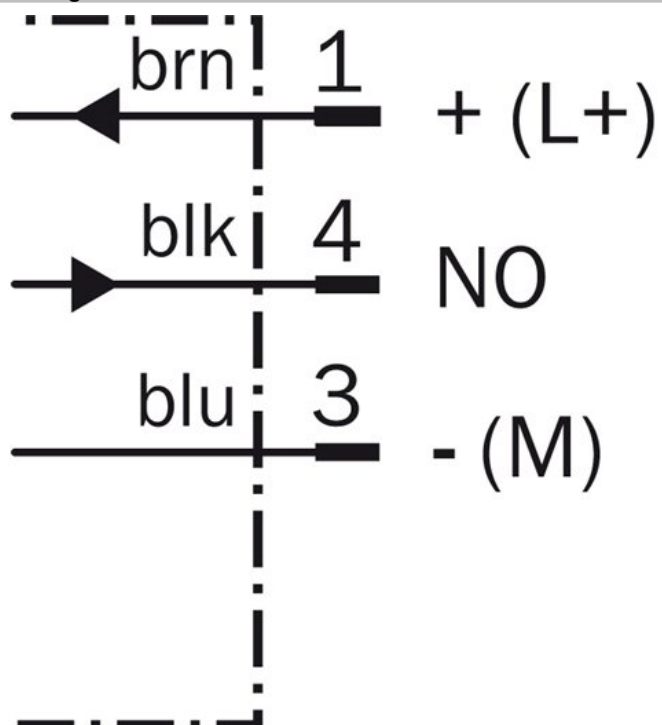
Repeatability:	$\leq 0.1 \text{ mT}^{2)}$
EMC:	According to EN 60947-5-2
Cable material:	PUR
Conductor cross-section:	0.09 mm^2
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Housing cap material:	PA, strengthened
Sensing face material:	PA, strengthened
Time delay before availability:	$\leq 30 \text{ ms}$
Ambient operating temperature:	$-30 \text{ }^{\circ}\text{C} \dots 80 \text{ }^{\circ}\text{C}$
Power-up pulse protection:	-
Thread size:	M8
Overrun distance typ.:	7 mm
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm

1) Without load 2) U_b and T_a constant

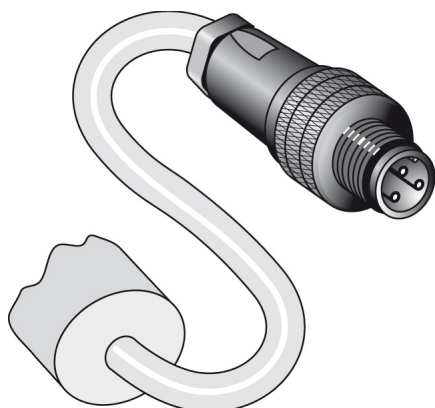
Dimensional drawing



Connection diagram



Connection type



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