



Magnetic Cylinder Sensors Sensors for C-slot cylinders

MZN1-06VNS-KPO



Model Name > MZN1-06VNS-KP0
Part No. > 1029903



At a glance

- Ideal for all commonly used cylinders with C-slots, such as FESTO or SMC
- SICK GMR-ASIC technology
- Compact housing design
- IP 67 enclosure rating
- LED status indicator
- Plastic housing with metal installation screw

Your benefits

- Best-in-class switching performance ensures precise piston position detection
- Easy drop-in mounting simplifies setup and saves installation time
- High resistance to shock and vibration reduces sensor failure and maintenance costs
- Fully encapsulated housing resists fluids and leaks, increasing sensor life

The product has been discontinued. Please contact your SICK sales representative for more information about a replacement product.



Features

Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Sensing face:	Center
Cylinder types with adapter:	SMC rail cylinder CDQ2 (C-Slot) SMC rail cylinder ECDQ2 (C-Slot)
Housing length:	25 mm
Switching frequency typ.:	1,000 Hz
Cylinder type:	C-slot

¹⁾ According to EN40050

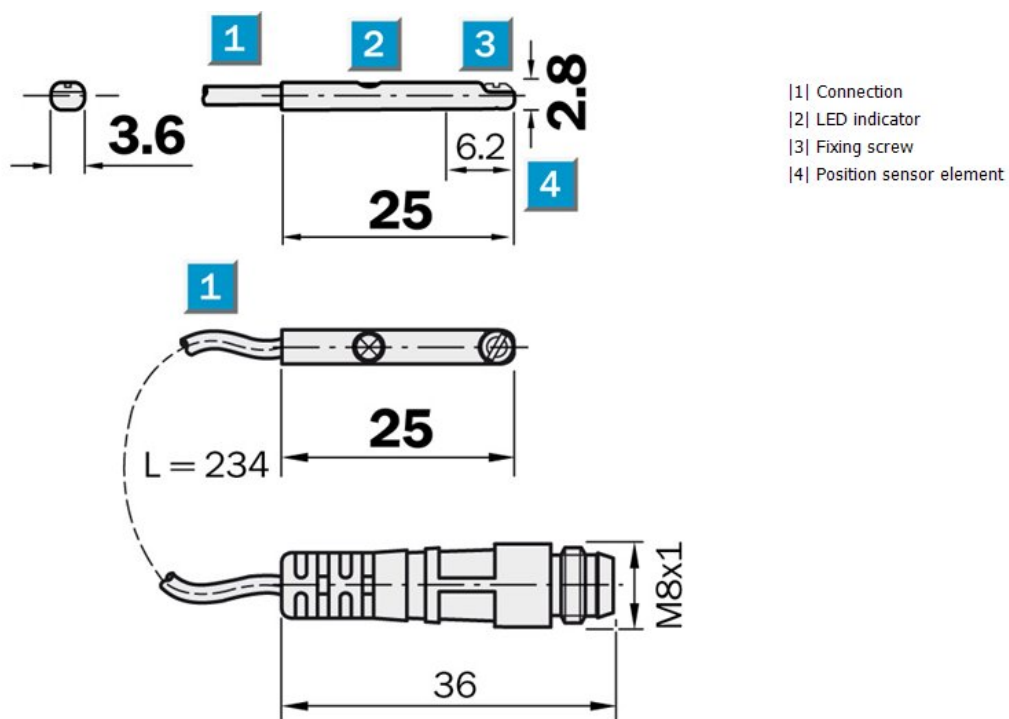
Mechanics/electronics

Connection type:	Cable with connector M8, 3-pin, 0.3 m
Supply voltage:	10 V DC ... 30 V DC
Power consumption:	≤ 8 mA ¹⁾

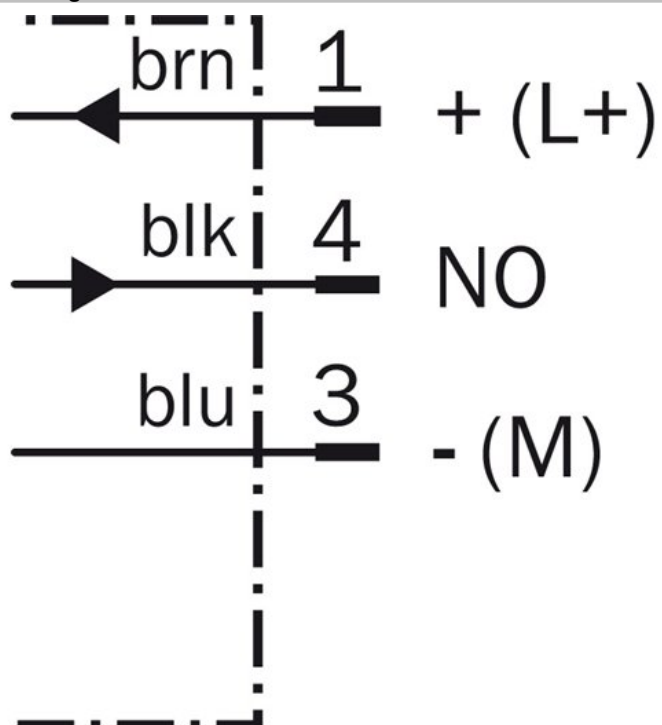
Voltage drop:	2.5
Output current I_a :	$\leq 70 \text{ mA}$
Hysteresis:	$\leq 1.5 \text{ mT}$
Repeatability:	$\leq 0.1 \text{ mm}$ ²⁾
EMC:	According to EN 60947-5-2
Cable material:	PUR
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Plastic
Housing cap material:	PA, strengthened
Sensing face material:	PA, strengthened
Time delay before availability:	$\leq 0.1 \text{ ms}$
Ambient operating temperature:	-25 °C ... 75 °C
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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