



# MZR2-03VNS-ATO

MZR2

**ROUND BODY CYLINDER**

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
MZR2-03VNS-ATO	7900601

Other models and accessories → [www.sick.com/MZR2](http://www.sick.com/MZR2)



## Detailed technical data

## Features

<b>Cylinder types with adapter</b>	Round body cylinder
<b>Housing length</b>	30 mm
<b>Switching output</b>	NPN
<b>Switching frequency</b>	5,000 Hz
<b>Output function</b>	NO
<b>Electrical wiring</b>	DC 3-wire
<b>Enclosure rating</b>	IP67 <sup>1)</sup>
<b>Sensing face</b>	Front

<sup>1)</sup> According to EN 60529.

## Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Power consumption</b>	10 mA, without load
<b>Voltage drop</b>	≤ 1.5 V <sup>1)</sup>
<b>Continuous current I<sub>a</sub></b>	≤ 300 mA
<b>Time delay before availability</b>	≤ 2 ms
<b>Response sensitivity, typ.</b>	≤ 3 mT
<b>Reproducibility</b>	≤ 0.1 mm <sup>2)</sup>
<b>Reverse polarity protection</b>	Yes
<b>Short-circuit protection</b>	Yes
<b>Status indicator LED</b>	Yes
<b>Power-up pulse protection</b>	Yes
<b>Ambient operating temperature</b>	-25 °C ... +75 °C
<b>Shock and vibration resistance</b>	30 g, 11 ms / 10 ... 55 Hz, 1 mm

<sup>1)</sup> At I<sub>a</sub> max.

<sup>2)</sup> Supply voltage U<sub>B</sub> and constant ambient temperature T<sub>a</sub>.

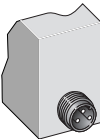
EMC	According to EN 60947-5-2	
Connection type	Connector M8, 3-pin	
Material	Housing	Metal, Aluminum
	Sensing face	Plastic, plastic

- 1) At I<sub>a</sub> max.
- 2) Supply voltage U<sub>B</sub> and constant ambient temperature Ta.

Classifications

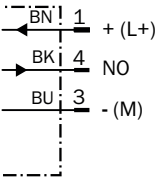
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Connection type

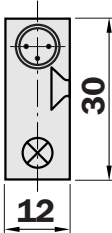
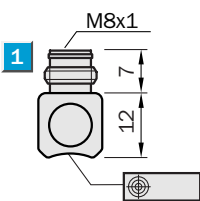
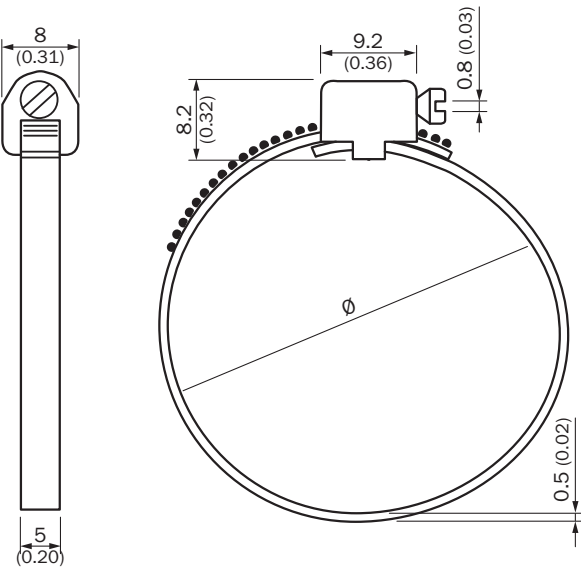


Connection diagram

Cd-002



Dimensional drawing (Dimensions in mm (inch))



① Connection

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)