

# MZZ1-03VNS-AC0 MZZ1

**TIE ROD CYLINDER** 





## Ordering information

Туре	Part no.
MZZ1-03VNS-AC0	7900609

Other models and accessories → www.sick.com/MZZ1

Illustration may differ



#### Detailed technical data

#### **Features**

Cylinder type	Tie rod cylinder
Switching output	NPN
Switching frequency	5,000 Hz
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>
Sensing face	Front

<sup>&</sup>lt;sup>1)</sup> According to EN 60529.

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Power consumption	10 mA <sup>1)</sup>
Voltage drop	$\leq$ 1.5 V $^{2)}$
Continuous current I <sub>a</sub>	≤ 300 mA
Time delay before availability	≤ 2 ms
Dimensions (W x H x D)	30 mm
Response sensitivity, typ.	3 mT
Reproducibility	≤ 0.1 mm <sup>3)</sup>
Reverse polarity protection	✓
Short-circuit protection	✓
Power-up pulse protection	✓
Ambient operating temperature	-25 °C +75 °C
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Housing material	Metal, Aluminum

<sup>1)</sup> Without load.

<sup>&</sup>lt;sup>2)</sup> At I<sub>a</sub> max.

<sup>3)</sup> Ub and Ta constant.

Sensing face material	Plastic, Plastic
Connection type	Male connector M12, 4-pin

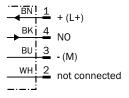
<sup>1)</sup> Without load.

#### Classifications

ECI@ss 5.0	27270104
ECI@ss 5.1.4	27270104
ECI@ss 6.0	27270104
ECI@ss 6.2	27270104
ECI@ss 7.0	27270104
ECI@ss 8.0	27270104
ECI@ss 8.1	27270104
ECI@ss 9.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
UNSPSC 16.0901	39122230

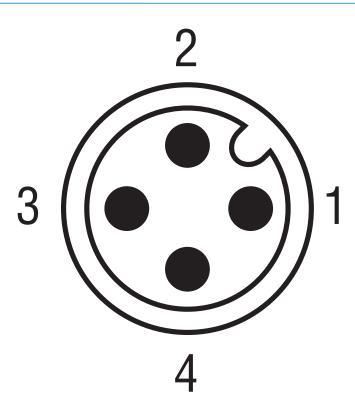
## Connection diagram

#### Cd-011



<sup>&</sup>lt;sup>2)</sup> At I<sub>a</sub> max.

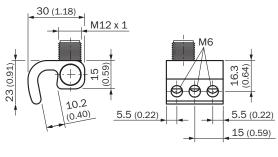
<sup>3)</sup> Ub and Ta constant.



## Functional principle



## Dimensional drawing (Dimensions in mm (inch))





① Indication LED

#### Recommended accessories

Other models and accessories → www.sick.com/MZZ1

	Brief description	Туре	Part no.	
Plug connectors and cables				
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14- 020VB3XLEAX	2096234	
***	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14- 020VB3XLEAX	2095895	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14- 050VB3XLEAX	2095897	
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932	
	Head A: male connector, M12, 4-pin, angled Head B: - Cable: unshielded	STE-1204-W	6022084	

## 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

