



Magnetic Cylinder Sensors Roundbody cylinder

MZR2-03V-N-AW0



Model Name > MZR2-03V-N-AW0
Part No. > 7901321



At a glance

- Universal mounting with mounting bracket for cylinders with diameters of up to 100 mm
- NAMUR as per EN 60 947-5-6
- IP 67 enclosure rating
- Industrial aluminum housing
- TÜV 99 ATEX 1398 EX II 2 G Ex ia IIC T6 Ta: -20...70°C
- LED status indicator
- Operating temperature from -20...70° C

Your benefits

- Highly resistant to shock and vibrations, ensuring a long service life and reduced maintenance costs
- High switching point accuracy reduces material loss



Features

Switching frequency:	5,000 Hz
Output type:	NAMUR
Electrical wiring:	DC 2-wire
Enclosure rating:	IP 67 ¹⁾
Sensing face:	Front
Cylinder types with adapter:	Roundbody cylinder

¹⁾ According to EN 60529

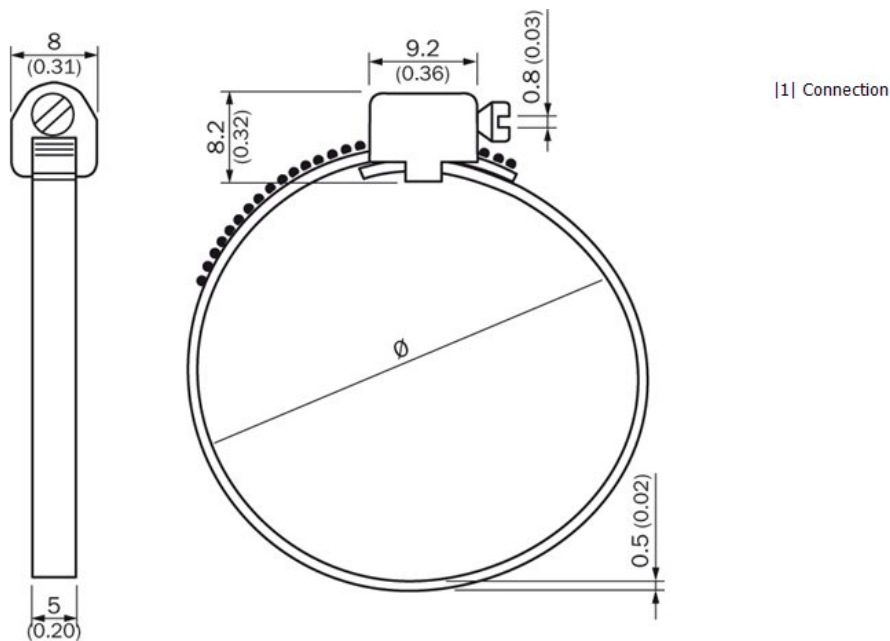
Mechanics/electronics

Connection type:	Cable, 2-wire, 2 m
Housing length:	30 mm
Supply voltage:	5 V DC ... 25 V DC
Voltage drop:	≤ 1.5 V ¹⁾
Output current I _a :	≤ 300 mA
Repeatability:	≤ 0.1 mm ²⁾
EMC:	According to EN 60947-5-6
Cable material:	PVC
Conductor cross-section:	0.34 mm ²
Short-circuit protection:	✓
Housing material:	Metal, Aluminum

Sensing face material:	Plastic
Time delay before availability:	≤ 2 ms
Ambient operating temperature:	-25 °C ... 70 °C
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Magnetic field sensitivity, min.:	≤ 3 mT
Temperature drift (% of Sr):	± 0.005 mm/°C
Current consumption, sensor is activated:	≥ 2.5 mA
Current consumption, sensor is not activated:	≤ 1 mA
Input voltage U_i max.:	16 V
Input power P_i max.:	100 mW
Input current I_i max.:	30 mA
Internal capacitance C_i max.:	15 nF
Internal inductance L_i max.:	≤ 35 μ H
Nominal voltage:	8.2 V DC
Cable resistance:	≤ 50 Ω
EC Approval Certificate:	TÜV 99 ATEX 1398
ATEX marking:	EX II 2 G Ex ia IIC T6 Ta: -20...70°C

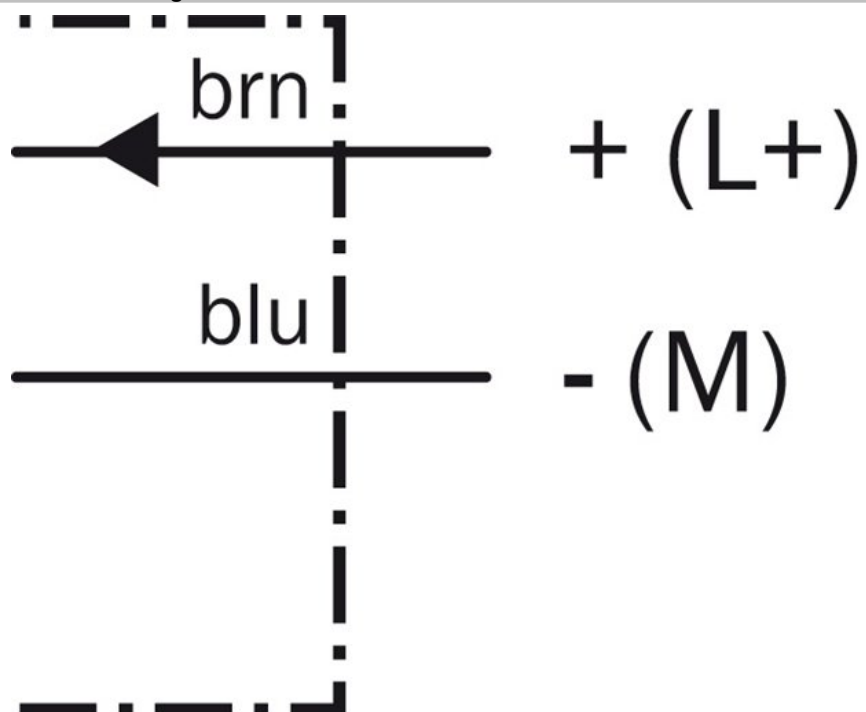
1) At I_a max 2) U_b and T_a constant

Dimensional drawing

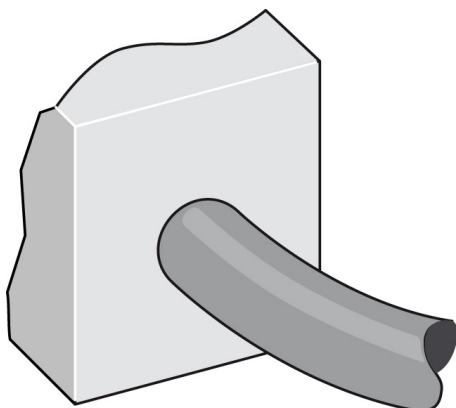


All dimensions in mm (inch)

Connection diagram



Connection type



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