

MZR1-03VPS-ATO MZR1

CYLINDER SENSORS





Ordering information

Туре	part no.
MZR1-03VPS-AT0	7900594

Other models and accessories → www.sick.com/MZR1

Detailed technical data

Features

Cylinder types with adapter	Round body cylinder
Housing length	37 mm
Switching output	PNP
Switching frequency	5,000 Hz
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Sensing face	Front

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Power consumption	10 mA, without load
Voltage drop	\leq 2.2 V $^{1)}$
Continuous current I _a	≤ 200 mA
Time delay before availability	≤ 30 ms
Response sensitivity, typ.	≤ 3 mT
Reproducibility	\leq 0.1 mm $^{2)}$
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Teach-in	No

 $^{^{2)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

Power-up pulse protection	Yes
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
Connection type	Connector M8, 3-pin
Material	
Housing	Metal, Aluminum
Sensing face	Plastic, plastic

¹⁾ At I_a max.

Safety-related parameters

MTTF _D	1,891 years
DC _{avg}	0 %
T _M (mission time)	20 years

Certificates

EU declaration of conformity	1
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	1
China-RoHS	1

Classifications

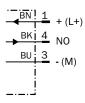
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC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

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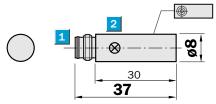
Connection type



Connection diagram Cd-002



Dimensional drawing



Dimensions in mm (inch)

- ① Connection
- ② Display LED

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