

MZK1-02VPS-ATO MZK1

DOVETAIL GROOVE CYLINDER





Ordering information

Туре	Part no.
MZK1-02VPS-AT0	7900604

Other models and accessories → www.sick.com/MZK1



Detailed technical data

Features

Cylinder type	Dovetail groove cylinder
Housing length	26 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.	2 mT
Reproducibility	≤ 0.1 mm ²⁾
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
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

¹⁾ At I_a max

 $^{^{\}rm 2)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

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	1,943 years
DC _{avg}	0 %
T _M (mission time)	20 years

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



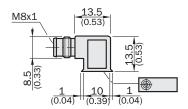
 $^{^{2)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

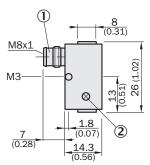
Connection diagram

Cd-002



Dimensional drawing (Dimensions in mm (inch))





- ① Connection
- ② Display LED

Recommended accessories

Other models and accessories → www.sick.com/MZK1

	Brief description	Туре	Part no.
Plug connecte	ors and cables		
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 020VA1XLEAX	2095860
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 050VA1XLEAX	2095884

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	Brief description	Туре	Part no.
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 020VA1XLEAX	2096165
	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 050VA1XLEAX	2096166
	 Connection type head A: Female connector, M8, 3-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0803-G	7902077
	Connection type head A: Female connector, M8, 3-pin, angled Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm²	DOS-0803-W	7902078

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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."

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