

MZC1-2V2PS-KPO MZC1

SENSORS FOR C-SLOT CYLINDERS

SICKSensor Intelligence.

Ordering information

Туре	Part no.
MZC1-2V2PS-KP0	1059735

Other models and accessories → www.sick.com/MZC1







Detailed technical data

Features

Cylinder type	C-slot
Cylinder types with adapter	SMC rail CDQ2 SMC rail ECDQ2 Round body cylinder Profile cylinders and tie-rod cylinders
Housing length	23.7 mm
Switching output	PNP
Switching frequency	1,000 Hz
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 ¹⁾
Cable outlet	Axial

¹⁾ According to EN 60529 (IP 67 / IP 68).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Power consumption	8 mA ¹⁾
Voltage drop	≤ 2.5 V
Continuous current I _a	≤ 100 mA
Protection class	III
Response sensitivity, typ.	2.2 mT
Overrun distance, typ.	4 mm
Hysteresis, typ.	≤ 0.8 mT
Reproducibility	\leq 0.1 mT $^{2)}$
Reverse polarity protection	✓
Short-circuit protection	✓

¹⁾ Without load.

 $^{^{2)}\,\}mathrm{Ub}$ and Ta constant.

Power-up pulse protection	✓
Ambient operating temperature	-30 °C +80 °C
MTTFd: mean time to dangerous failure	1,830 years
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Housing material	Plastic
Connection type	Cable with connector M8, 3-pin, 0.3 m
Cable material	PUR
Conductor cross-section	0.09 mm ²
UL File No.	NRKH.E181493 & NRKH7.E181493

¹⁾ Without load.

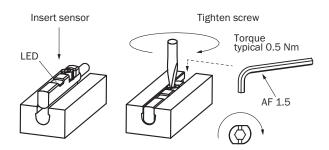
Safety-related parameters

MTTF _D	1,830 years
DC _{avg}	0%

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

Installation note



²⁾ Ub and Ta constant.

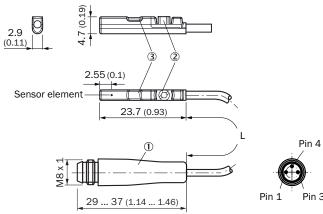
Connection diagram

Cd-002



Dimensional drawing (Dimensions in mm (inch))

Cable with connector M8



- ① Connection
- ② Fixing screw SW 1.5③ Indication LED

Part no.	Туре	L	Number of cores
1059735	MZC1-2V2PS-KP0	300 mm	3
1059744	MZC1-2V2NS-KP0	300 mm	3
1059752	MZC1-4V3PS-KP0	300 mm	3
1059757	MZC1-4V3NS-KP0	300 mm	3
1087247	MZC1-2V2DS-KP0	300 mm	2

Recommended accessories

Other models and accessories → www.sick.com/MZC1

	Brief description	Туре	Part no.
Brackets for cy	ylinder sensors		
2ª	Mounting bracket for integrated profile cylinder/tie-rod cylinder, Zinc diecast, mounting hardware included	BEF-KHZ-PC1	2076170

	Brief description	Туре	Part no.
*	1 piece, Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RC-12	2077673
	1 piece, Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 $^\circ\text{C}$ max 50 $^\circ\text{C}$, plastic, Aluminum	BEF-KHZ-RC-16	2077672
	1 piece, Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, plastic, Aluminum	BEF-KHZ-RC-20	2077671
	1 piece, Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, plastic, Aluminum	BEF-KHZ-RC-25	2077670
	1 piece, Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, plastic, Aluminum	BEF-KHZ-RC-32	2077669
	1 piece, Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, plastic, Aluminum	BEF-KHZ-RC-40	2077668
	1 piece, Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, plastic, Aluminum	BEF-KHZ-RC-50	2077667
	1 piece, Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, plastic, Aluminum	BEF-KHZ-RC-63	2077666
	1 piece, Mounting bracket on round body cylinder with piston diameter of 1 mm 130 mm, ambient temperature min –30 °C max 80 °C, stainless steel, Aluminum	BEF-KHZ-RC1-130	2077686
W. T. C.	1 piece, Mounting bracket on round body cylinder with piston diameter of 1 mm 25 mm, ambient temperature min –30 °C max 80 °C, stainless steel, Aluminum	BEF-KHZ-RC1-25	2077685
	Mounting bracket for mounting on SMC rails CDQ2 (C-slot), Aluminum	BEF-KHZ-TC2	2046442
	Mounting bracket for mounting on SMC rails ECDQ2 (C-slot), Aluminum, without mounting hardware	BEF-KHZ-TC1	2046441
lug connect	ors and cables		
No.	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13- 020VA1XLEAX	2095860
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13- 050VA1XLEAX	2095884
3	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG8U13- 020UA1XLEAX	2094794
0.5	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13- 020VA1XLEAX	2096165
3	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG8U13- 050UA1XLEAX	2095586
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U13- 050VA1XLEAX	2096166
	Head A: female connector, M8, 3-pin, straight Head B: - Cable: unshielded	DOS-0803-G	7902077
	Head A: female connector, M8, 3-pin, angled Head B: -	DOS-0803-W	7902078

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."

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