

MZC1-2V2NS-KP0

MZC1

SENSORS FOR C-SLOT CYLINDERS





Ordering information

Туре	Part no.
MZC1-2V2NS-KP0	1059744

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	NPN
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	\leq 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
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

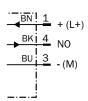
 $^{^{1)}}$ Without load.

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

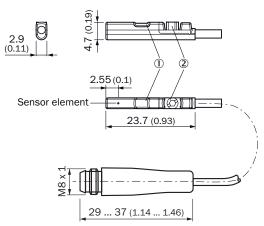
cd-002



²⁾ Ub and Ta constant.

Dimensional drawing (Dimensions in mm (inch))

Cable with connector M8



- ① Indication LED
- ② Fixing screw

Recommended accessories

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

	Brief description	Туре	Part no.	
Brackets for	Brackets for cylinder sensors			
	Mounting bracket for integrated profile cylinder/tie-rod cylinder, Zinc diecast, mounting hardware included	BEF-KHZ-PC1	2076170	
	1 piece, Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 $^\circ\text{C}$ max 50 $^\circ\text{C}$, 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	
	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	

	Brief description	Туре	Part no.
	Mounting bracket for mounting on SMC rails CDQ2 (C-slot), Aluminum	BEF-KHZ-TC2	2046442
0	Mounting bracket for mounting on SMC rails ECDQ2 (C-slot), Aluminum, without mounting hardware	BEF-KHZ-TC1	2046441
Plug connecto	ors and cables		
	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
13	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
3	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
	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: - Cable: unshielded	DOS-0803-W	7902078

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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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