

MZC1-2V2PS-KRD

MZC1

SENSORS FOR C-SLOT CYLINDERS



to to the second

Ordering information

Туре	Part no.
MZC1-2V2PS-KRD	1060129

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

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Power consumption	8 mA, without load
Voltage drop	≤ 2.5 V
Continuous current Ia	≤ 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 $^{1)}$
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Power-up pulse protection	Yes
Ambient operating temperature	-30 °C +80 °C

 $^{^{1)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm	
EMC	According to EN 60947-5-2	
Connection type	Cable with connector M8, 3-pin, with knurled nuts, drag chain use, 0.5 m	
Connection type Detail		
Conductor cross section	0.09 mm ²	
Cable diameter	Ø 2.2 mm	
Bending radius	With fixed installation > 2 x cable diameter For flexible use > 5 x cable diameter	
Torsion force	± 270° / 0.1 m	
Torsion cycles	300,000	
Drag chain cycles	5,000,000	
Drag chain parameters	Traversing speed max. 3 m/s Acceleration max. 10 m/s² Bending cycles in the drag chain min. 5 million	
Cable outlet	Axial	
Material		
Housing	Plastic	
Cable	PUR	
UL File No.	NRKH.E181493 & NRKH7.E181493	

 $^{^{1)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

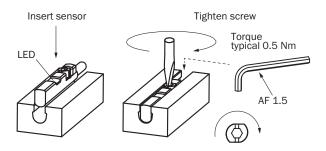
Safety-related parameters

MTTF _D	1,428 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

Installation note



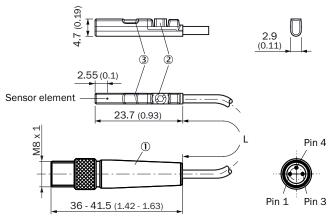
Connection diagram

Cd-002



Dimensional drawing (Dimensions in mm (inch))

Cable with connector M8, with knurled nuts



- ① Connection
- ② Fixing screw SW 1.5
- 3 Display LED

Part no.	Туре	L	Number of cores
1092528	MZC1-2V2DS-KR0	300 mm	2
1059737	MZC1-2V2PS-KR0	300 mm	3
1059742	MZC1-2V2NS-KR0	300 mm	3
1059753	MZC1-4V3PS-KR0	300 mm	3
1084696	MZC1-2V2PS-KR0S10	300 mm	3
1119997	MZC1-2V2PS-KR0S19	300 mm	3
1144625	MZC1-2V2PS-KR0S20	300 mm	3

Part no.	Туре	L	Number of cores
1060129	MZC1-2V2PS-KRD	500 mm	3

Recommended accessories

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

	Brief description	Туре	Part no.	
Brackets for cylinder sensors				
Sall Sall	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 °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, $^{\varsigma}$ ambient temperature min 0 $^{\circ}$ C max 50 $^{\circ}$ 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 $^\circ\text{C}$, stainless steel, Aluminum	BEF-KHZ-RC1-25	2077685	
Others				
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded 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, A-coded Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm² 	DOS-0803-W	7902078	
0	 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	

	Brief description	Туре	Part no.
	 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
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
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: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 050VA1XLEAX	2096166
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, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG8U13- O2OUA1XLEAX	2094794
13	 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, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG8U13- O5OUA1XLEAX	2095586

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For us, that is "Sensor Intelligence."

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