MZC2-1V7PS-FU0

MZC2

SENSORS FOR C-SLOT CYLINDERS

SICK
Sensor Intelligence.

Ordering information

Type	Part no.
MZC2-1V7PS-FU0	1099967

Other models and accessories ➜ www.sick.com/MZC2

Detailed technical data

Features

Cylinder type	C-slot
Preferred manufacturer slot	Festo
Housing length	19.5 mm
Switching output	PNP
Switching frequency	1,000 Hz
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67
Special features	Completely embedded mounting in the slot, providing protection

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.	≤ 1.7 mT
Overrun distance, typ.	2 mm
Hysteresis, typ.	≤ 0.4 mT
Reproducibility	≤ 0.1 mT [2]
Reverse polarity protection	✓
Short-circuit protection	✓
Power-up pulse protection	✓
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	Cable, 3-wire, drag chain use, 2 m

[1] Without load.
[2] Ub and Ta constant.

Connection type Detail	
Conductor cross-section	0.09 mm²
Cable diameter	Ø 1.9 mm
Bending radius	With fixed installation = 12 x cable diameter For flexible use = 15 x cable diameter
Cable outlet	Axial
Material	
Housing	Plastic
Cable	PUR
Special features	Completely embedded mounting in the slot, providing protection

[1] Without load.

[2] Ub and Ta constant.

Classifications

ECl@ss 5.0	27270104
ECl@ss 5.1.4	27270104
ECl@ss 6.0	27270104
ECl@ss 6.2	27270104
ECl@ss 7.0	27270104
ECl@ss 8.0	27270104
ECl@ss 8.1	27270104
ECl@ss 9.0	27270104
ECl@ss 10.0	27270104
ECl@ss 11.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
UNSPSC 16.0901	39122230

Installation note

Insert sensor

Turn sensor

Tighten screw

LED

$M_A = 0.1$ Nm
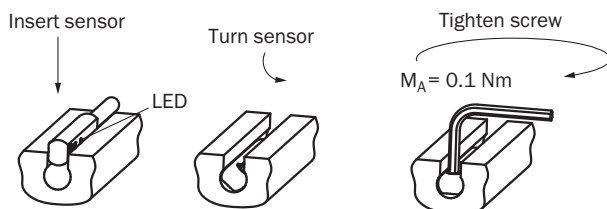
Connection diagram

Cd-001

BN — + (L+)
BK — NO
BU — - (M)
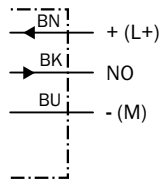
Dimensional drawing (Dimensions in mm (inch))

Cable

2.9 (0.11)

Ø 3.6 (0.14)

① ②

6.2 (0.24)
19.5 (0.77)

5.7 (0.22)
Sensor element

L
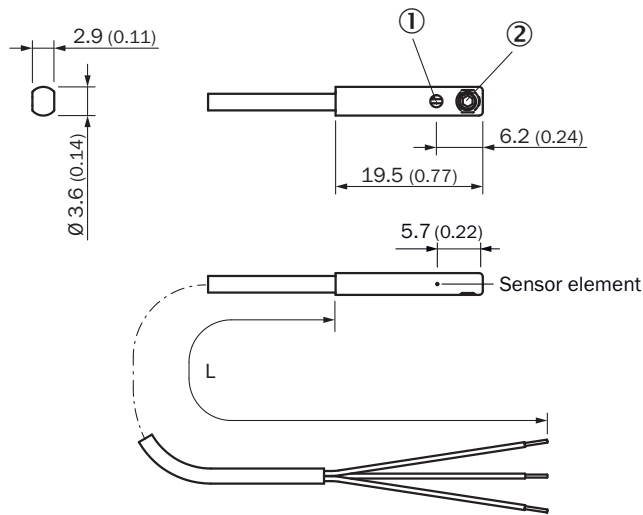
① LED indicator yellow
② Threaded pins M2,5 x 2

Part no.	Type	L	Number of cores
1099968	MZC2-1V7NS-FU0	2 m	3
1099967	MZC2-1V7PS-FU0	2 m	3

Recommended accessories

Other models and accessories ➔ www.sick.com/MZC2

	Brief description	Type	Part no.
Brackets for cylinder sensors			
	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 °C max 50 °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 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RC-20	2077671

	Brief description	Type	Part no.
	1 piece, Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °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 °C max 50 °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 °C max 50 °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 °C max 50 °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 °C max 50 °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
Plug connectors 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, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13-020VA1XLEAX	2096165

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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