

MZ2Q-CFLPSKUO MZ2Q-C

CYLINDER SENSORS





Ordering information

Туре	part no.
MZ2Q-CFLPSKU0	1115196

Other models and accessories → www.sick.com/MZ2Q-C



Detailed technical data

Features

1 Odital Oo	
Cylinder type	C-slot
Preferred manufacturer slot	Festo
Detection zone	0 mm 50 mm
Housing length	19.5 mm
Switching output	2 x PNP
Output function	2 x N/O contact, IO-Link
Electrical wiring	DC 4-wire
Enclosure rating	IP67 ¹⁾
Adjustment	
Teach-in control panel	Teaching in switching points 1 and 2
IO-Link	Disabling teach-in pushbutton Teaching in switching points 1 and 2 Tolerance band for switching points in 5 stages
IO-Link functions	Standard functions

¹⁾ According to EN 60529.

Mechanics/electronics

Detection zone	0 mm 50 mm
Supply voltage	12 V DC 30 V DC
Power consumption	Typ. 25 mA, without load
Voltage drop	≤ 2.2 V
Continuous current I _a	≤ 100 mA
Protection class	III
Hysteresis, typ.	1 mT
Reproducibility	≤ 0.1 mT $^{1)}$

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

Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Teach-in	Yes
Power-up pulse protection	Yes
Ambient operating temperature	-20 °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, 4-wire, stripped, 2 m
Connection type Detail	
Conductor cross section	0.08 mm ²
Cable diameter	Ø 2.6 mm
Bending radius	With fixed installation > 5 x cable diameter
	For flexible use > 10 x cable diameter
Cable outlet	Axial
Control elements connection cable	
Connection type	Cable, 4-wire, 0.1 m
Control elements connection cable detail	
Conductor size	0.08 mm ²
Cable diameter	Ø 2.3 mm
Bending radius	With fixed installation > 5 x cable diameter
	For flexible use > 10 x cable diameter
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	799 years
DC _{avg}	0%
T _M (mission time)	20 years

Communication interface

Communication interface	IO-Link V1.0
Communication Interface detail	COM2 (38,4 kBaud)
Cycle time	2.3 ms
Process data length	2 Bit
Process data structure	Bit 0 = switching signal Q_{L1} Bit 1 = switching signal Q_{L2} Bit 2 7 = empty

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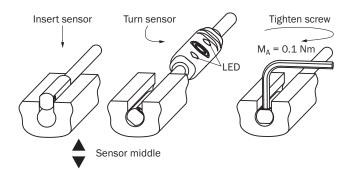
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Classifications

5.0	27270104
5.1.4	27270104
3.0	27270104
3.2	27270104
7.0	27270104
3.0	27270104
3.1	27270104
9.0	27270104
10.0	27270104
11.0	27270104
12.0	27274301
E	EC002544
16.0901	39122230

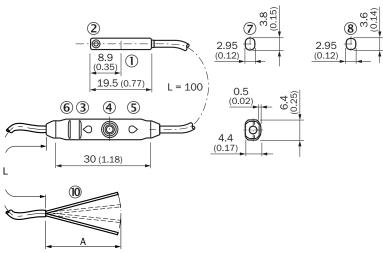
Installation note



Connection diagram Cd-548



Dimensional drawing Cable



Dimensions in mm (inch)

- ① Center of sensor element
- ② Fixing screw SW 1.3
- 3 Display LED
- 4 Teach-in button
- ⑤ Display LED
- 6 ribbing for cable ties
- Tor SMC/ Bimba cylinder (MZ2Q-CSxxxx)
- ® For festo cylinder (MZ2Q-CFxxxx)
- Connection

Part no.	Туре	L	A	Number of cores
1042237	MZ2Q-CSSPSKU0	2 m	61-65	4
1042241	MZ2Q-CFSPSKU0	2 m	61-65	4
1115196	MZ2Q-CFLPSKU0	2 m	61-65	4
1046234	MZ2Q-CSSNSKUA	3 m	61-65	4
1051588	MZ2Q-CSSPSKUAS05	3 m	61-65	4

Recommended accessories

Other models and accessories → www.sick.com/MZ2Q-C

	Brief description	Туре	part no.
Mounting syst	tems		
	Description: Mounting bracket on round body cylinder with piston diameter of 1 mm 130 mm, ambient temperature min -30 °C max 80 °C Material: Stainless steel, Aluminum Details: Stainless steel, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC1-130	2077686
0	Description: Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-12	2077673
a land	Description: Mounting bracket on round body cylinder with piston diameter of 1 mm 25 mm, ambient temperature min -30 °C max 80 °C Material: Stainless steel, Aluminum Details: Stainless steel, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC1-25	2077685
0	Description: Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-16	2077672
0	Description: Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-20	2077671
0	Description: Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-25	2077670
O	Description: Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-32	2077669
O	Description: Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-40	2077668
O	Description: Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-50	2077667
0	Description: Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 °C max 50 °C Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: C-slot	BEF-KHZ-RC-63	2077666

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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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