

MZ2Q-CSSPSKR0S01 MZ2Q-C

CYLINDER SENSORS





Ordering information

Туре	part no.
MZ2Q-CSSPSKROS01	1044557

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



Detailed technical data

Features

reatures	
Cylinder type	C-slot
Preferred manufacturer slot	SMC Bimba
Detection zone	0 mm 50 mm
Cylinder types with adapter	SMC rail CDQ2 SMC rail CDQ2
Housing length	19.5 mm
Switching output	2 x PNP
Output function	2 x N/O contact
Electrical wiring	DC 4-wire
Enclosure rating	IP67 ¹⁾
Adjustment	
Teach-in control panel	Teaching in switching points 1 and 2
Special features	Special hysteresis

¹⁾ According to EN 60529.

Mechanics/electronics

Detection zone	0 mm 50 mm
Supply voltage	12 V DC 30 V DC
Power consumption	Typ. 20 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 with connector M8, 4-pin, with knurled nut, 0.5 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.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

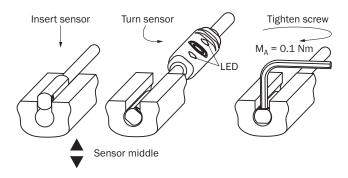
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104

MZ2Q-CSSPSKR0S01 | MZ2Q-C

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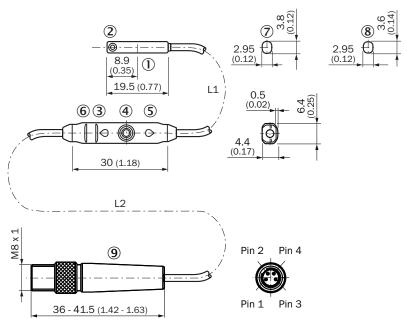
ECLASS 8.0 27270104	
ECLASS 8.1 27270104	
ECLASS 9.0 27270104	
ECLASS 10.0 27270104	
ECLASS 11.0 27270104	
ECLASS 12.0 27274301	
ETIM 5.0 EC002544	
ETIM 6.0 EC002544	
ETIM 7.0 EC002544	
ETIM 8.0 EC002544	
JNSPSC 16.0901 39122230	

Installation note



Connection diagram Cd-032

Dimensional drawing Cable with plug M8, with knurled nut



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
- 7 For SMC/ Bimba cylinder (MZ2Q-CSxxxx)
- ® For festo cylinder (MZ2Q-CFxxxx)
- Connection

Part no.	Туре	L1	L2	Number of cores
1146367	MZ2Q-CSLPSKR0	100 mm	300 mm	4
1146368	MZ2Q-CFLPSKR0	100 mm	300 mm	4
1096578	MZ2Q-CSSNSKR0S21	100 mm	500 mm	4
1044557	MZ2Q-CSSPSKR0S01	100 mm	500 mm	4
1095814	MZ2Q-CSSPSKR0S20	100 mm	500 mm	4
1118101	MZ2Q-CSSPSKR0S22	100 mm	500 mm	4
1042239	MZ2Q-CSSPSKR0	100 mm	500 mm	4
1042243	MZ2Q-CFSPSKR0	100 mm	500 mm	4
1147171	MZ2Q-CSSPSKR0S25	300 mm	500 mm	4

Recommended accessories

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

	Brief description	Туре	part no.		
Mounting systems					
	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		
O	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		

	Brief description	Туре	part no.
connectors ar	nd cables		
O	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0804-G	6009974
	Connection type head A: Female connector, M8, 4-pin, angled, A-coded Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm²	DOS-0804-W	6009975
	 Connection type head A: Male connector, M8, 4-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0804-G	6037323
	Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF8U14- C60VA3XLEAX	2145852
0	Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YF8U14-010VA3XLEAX	2145853
	Connection type head A: Female connector, M8, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YG8U14- C60VA3XLEAX	2145854
1	Connection type head A: Female connector, M8, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 3 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YG8U14-030VA3XLEAX	2145857
3	Connection type head A: Female connector, M8, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones	YG8U14-010VA3XLEAX	2145855

SICK AT A GLANCE

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