

MZ2Q-CSSNSKR0S21 MZ2Q-C

SENSORS FOR C-SLOT CYLINDERS





Ordering information

Туре	Part no.
MZ2Q-CSSNSKR0S21	1096578

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







Detailed technical data

Features

Cylinder type	C-slot
Preferred manufacturer slot	SMC Bimba Schunk
Detection zone	0 mm 50 mm
Cylinder types with adapter	SMC rail ECDQ2 SMC rail CDQ2
Housing length	19.5 mm
Switching output	2 x NPN
Output function	NO
Electrical wiring	DC 4-wire
Enclosure rating	IP67 ¹⁾
Adjustment	
Teach-in control panel	Teaching in switching points 1 and 2

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	\leq 0.1 mT $^{1)}$

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

Yes
Yes
Yes
Yes
Yes
-20 °C +75 °C
30 g, 11 ms / 10 55 Hz, 1 mm
According to EN 60947-5-2
Cable with connector M8, 4-pin, with knurled nuts, 0.5 m
0.08 mm ²
Ø 2.6 mm
With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter
Axial
Cable, 4-wire, 0.1 m
0.08 mm ²
Ø 2.3 mm
With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter
Axial
Plastic
PUR
NRKH.E181493 & NRKH7.E181493

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

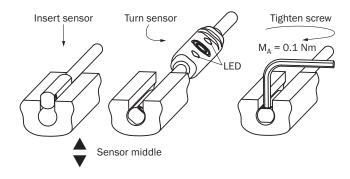
Classifications

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

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ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Installation note

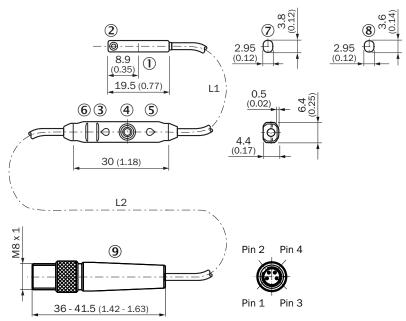


Connection diagram

Cd-033

Dimensional drawing (Dimensions in mm (inch))

Cable with connector M8, with knurled nuts



- ① Center of sensor element
- ② Fixing screw SW 1.3
- ③ Display LED
- 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	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.		
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		
	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, $^{\varsigma}$ 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		
A STEEL	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		
Others					
	 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: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14- 020VA3XLEAX	2095888		
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14- 050VA3XLEAX	2095889		
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14- 100VA3XLEAX	2095890		

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	Brief description	Туре	Part no.
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: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YG8U14- 020VA3XLEAX	2095962
8	 Connection type head A: Female connector, M8, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YG8U14- 050VA3XLEAX	2095963

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