

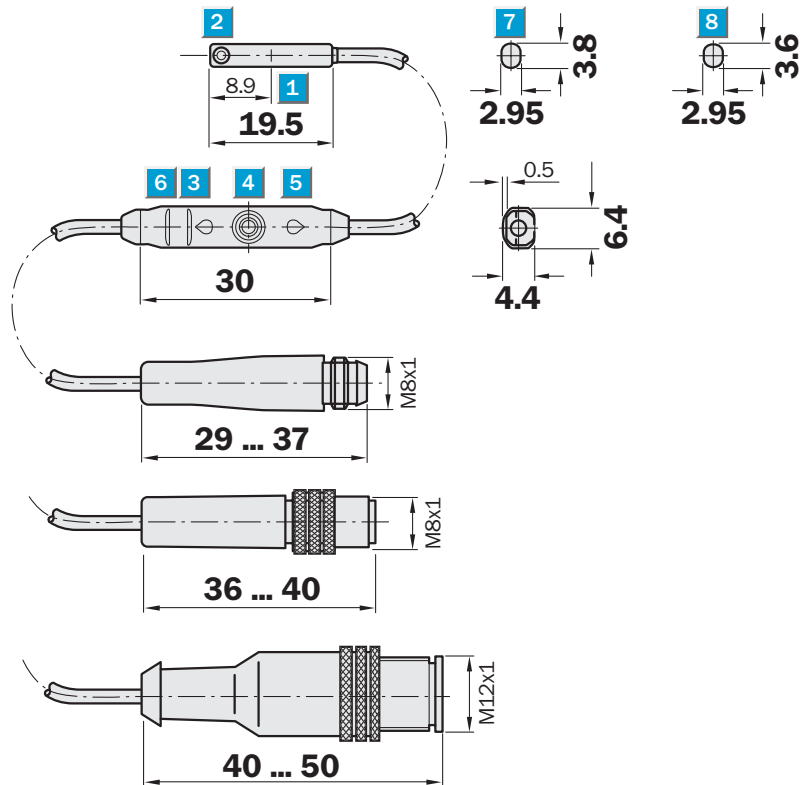
Magnetic cylinder sensor, MZ2Q-C, DC 4-wire, for C-slot cylinders

Detection area
0 ... 50 mm

Magnetic cylinder sensor

- Varied applications, e.g. defining end positions on short lifting cylinders or detecting intermediate positions
- Half the wiring
- Only one slot is occupied
- Compact housing, simple mounting from above
- Simple 2-point teach-in

Dimensional drawing

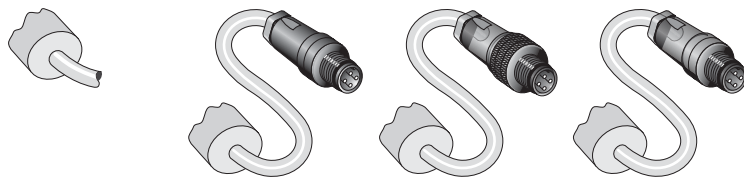


- 1 Centre of sensor element
- 2 Mounting screw
- 3 LED indicator
- 4 Teach button
- 5 LED indicator
- 6 Fixing for cable binding
- 7 For SMC / Bimba cylinder
- 8 For Festo cylinder

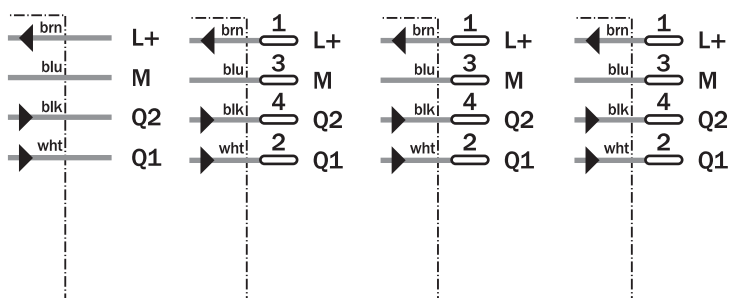


Connection type

MZ2Q-CFSPSKU0	MZ2Q-CFSPSKP0	MZ2Q-CFSPSKR0	MZ2Q-CFSPSKQ0
MZ2Q-CSSPSKU0	MZ2Q-CSSPSKP0	MZ2Q-CSSPSKR0	MZ2Q-CSSPSKQ0



4 x 0.08 mm ²	M8, 4-pin	M8, 4-pin, w/ kn. scr.	M12, 4-pin
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Accessories
Connector, M12, 4-pin
Connector, M8, 4-pin
Mounting systems
Y-junction

Technical specifications		MZ2Q-	CFSPS KPO	CFSPS KQO	CFSPS KRO	CFSPS KUO	CSSPS KPO	CSSPS KQO	CSSPS KRO	CSSPS KUO		
Detection area from ... to	0 ... 50 mm											
Teach-in	✓											
Electrical configuration	DC 4-wire											
For SMC cylinder	✓											
For Festo cylinder	✓											
Supply voltage V_s	DC 12 ... 30 V											
Ripple U_{pp}	≤ 10 %											
Voltage drop U_d	≤ 2.2 V											
Power consumption	≤ 15 mA ¹⁾											
Continuous current I_a	≤ 100 mA											
Hysteresis H typ.	1 mT											
Repeatability R	≤ 0.1 mT (U_b and T_a constant)											
EMC	According to EN 60947-5-2											
Switching output	PNP											
Output function	Normally open											
Connection type	Cable with plug, M8, 4-pin, PUR, 0.3 m											
	Cable with plug, M12, 4-pin, PUR, 0.3 m											
	Cable with plug, M8, 4-pin, w. knurled screws, PUR, 0.5 m											
	Cable, PUR, 2 m											
Enclosure rating	IP 67 ²⁾											
Wire-break protection	✓											
Short-circuit protection	✓ ³⁾											
Reverse polarity protection	✓											
Power-up pulse suppression	✓											
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm											
Ambient temperature T_a	-20 °C ... +75 °C											
Housing material	Plastic											

¹⁾ without load

²⁾ according to EN 60529

³⁾ (pulsed)

Ordering information

Type	Part Number
MZ2Q-CFSPSKPO	1 042 242
MZ2Q-CFSPSKQO	1 042 244
MZ2Q-CFSPSKRO	1 042 243
MZ2Q-CFSPSKUO	1 042 241
MZ2Q-CSSPSKPO	1 042 238
MZ2Q-CSSPSKQO	1 042 240
MZ2Q-CSSPSKRO	1 042 239
MZ2Q-CSSPSKUO	1 042 237

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