

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

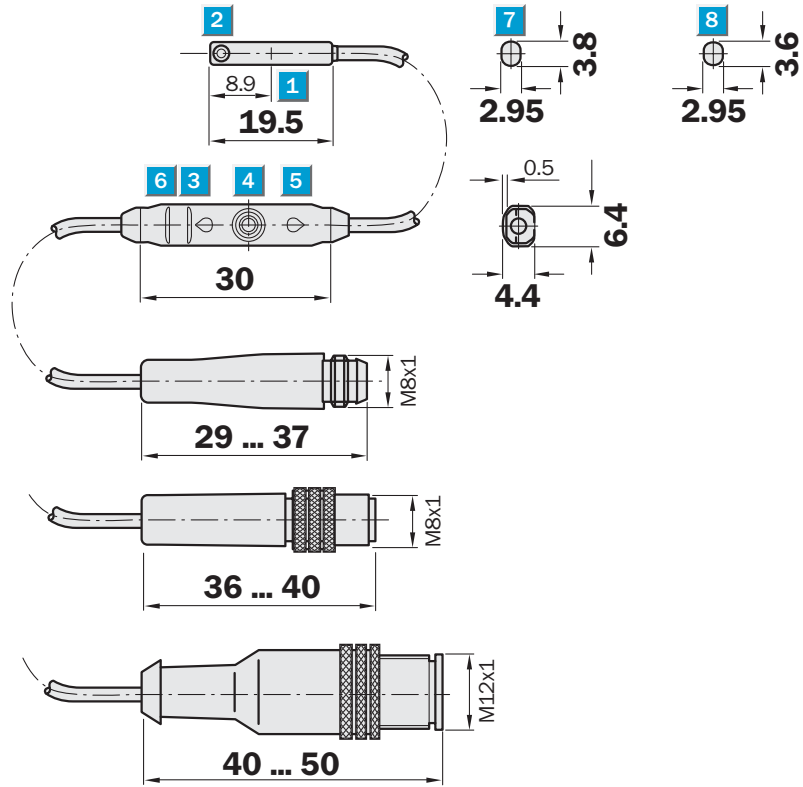
Detection area
0 ... 50 mm

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

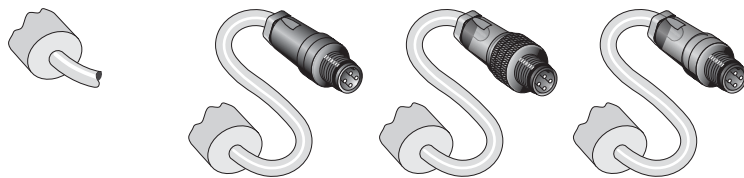


- 1 Centre of sensor element
- 2 Mounting screw
- 3 LED indicator
- 4 Teach button
- 5 LED indicator
- 6 Fixing for cable binding
- 7 For SMC / Bimba cylinder
- 8 For Festo cylinder

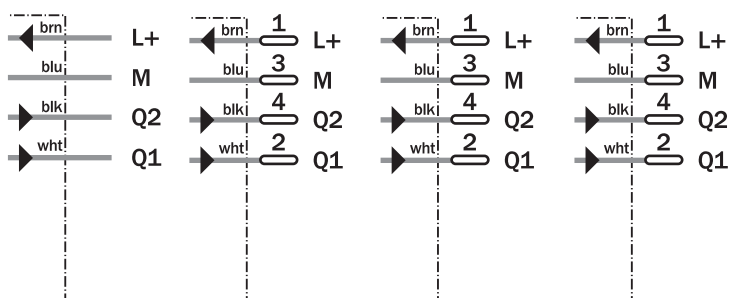


Connection type

| | | | |
|---------------|---------------|---------------|---------------|
| 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 |
|--------------------------|-----------|-------------------------|------------|



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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