

MZT6-03VPS-KW0

CYLINDER SENSORS





Ordering information

| Туре | part no. |
|----------------|----------|
| MZT6-03VPS-KW0 | 1023970 |

Other models and accessories → www.sick.com/

Detailed technical data

Features

| Cylinder type | T-slot |
|-----------------------------|---|
| Cylinder types with adapter | Profile cylinder Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2 |
| Housing length | 31.5 mm |
| Switching output | PNP |
| Switching output detail | PNP |
| Switching frequency | 1,000 Hz |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67 ¹⁾ |

 $^{^{1)}}$ According to EN 60529.

Mechanics/electronics

| Supply voltage | 10 V DC 30 V DC |
|-----------------------------------|-----------------------|
| Power consumption | 10 mA, without load |
| Voltage drop | ≤ 2.2 V |
| Continuous current I _a | ≤ 200 mA |
| Protection class | III |
| Response sensitivity, typ. | 2.6 mT |
| Overrun distance, typ. | 3 mm |
| Hysteresis, typ. | > 0.5 mT |
| Reproducibility | ≤ 0.1 mT $^{1)}$ |
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |

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

| Status indicator LED | Yes |
|--------------------------------|------------------------------|
| Power-up pulse protection | Yes |
| Ambient operating temperature | -30 °C +80 °C |
| Shock and vibration resistance | 30 g, 11 ms / 10 55 Hz, 1 mm |
| EMC | According to EN 60947-5-2 |
| Connection type | Cable, 3-wire, 2 m |
| Connection type Detail | |
| Conductor cross section | 0.12 mm ² |
| Material | |
| Housing | Plastic |
| Cable | PVC |
| UL File No. | NRKH.E181493 |

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

Safety-related parameters

| MTTF _D | 2,339 years |
|-------------------|-------------|
| DC _{avg} | 0 % |

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 |
| ETIM 7.0 | EC002544 |
| ETIM 8.0 | EC002544 |
| UNSPSC 16.0901 | 39122230 |

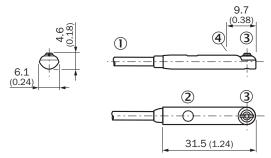
Connection type



Connection diagram Cd-001



Dimensional drawing Cable



Dimensions in mm (inch)

- ① Connection
- ② Display LED
- ③ Fixing screw
- Position sensor element

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