



MZT6-03VPS-KWAS06

CYLINDER SENSORS

SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|-------------------|----------|
| MZT6-03VPS-KWAS06 | 1042119 |

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 | ≤ 100 mA |
| Protection class | III |
| Ex area category | 3G, 3D |
| Device labeling | II 3G Ex nA IIC T4 Gc X, II 3D Ex tc IIIC T135 °C Dc X |
| Response sensitivity, typ. | 2.6 mT |
| Overrun distance, typ. | 3 mm |
| Hysteresis, typ. | ≤ 0.5 mT |
| Reproducibility | ≤ 0.1 mT ¹⁾ |

¹⁾ Supply voltage U_B and constant ambient temperature T_a.

| | |
|---------------------------------------|----------------------------------|
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |
| Status indicator LED | Yes |
| Power-up pulse protection | Yes |
| Ambient operating temperature | -20 °C ... +50 °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, 3 m |
| Connection type Detail | |
| Conductor cross section | 0.12 mm ² |
| Material | |
| Housing | Plastic |
| Cable | PVC |
| UL File No. | NRKH.E181493 |

¹⁾ Supply voltage U_B and constant ambient temperature T_a .

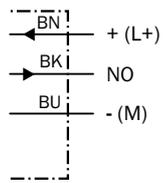
Classifications

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

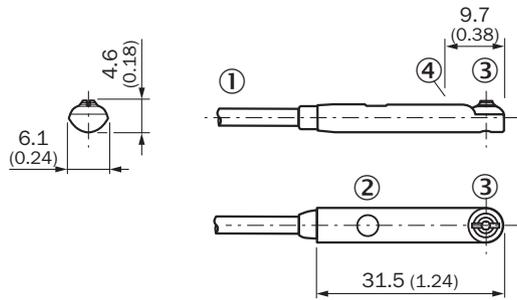
Connection type



Connection diagram Cd-001



Dimensional drawing Cable



Dimensions in mm (inch)

- ① Connection
- ② Display LED
- ③ Fixing screw
- ④ Position sensor element

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com