



MZT8-2V6PSTKWD

MZT8

CYLINDER SENSORS

SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|----------------|----------|
| MZT8-2V6PSTKWD | 1073271 |

Other models and accessories → www.sick.com/MZT8



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 | 24 mm |
| Switching output | PNP |
| Switching frequency | 1,000 Hz |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP68 ¹⁾ IP69K ²⁾ |
| Special features | Extended operating temperature |

¹⁾ According to EN 60529 (IP 67 / IP 68).

²⁾ According to DIN 40050 (IP 69K).

Mechanics/electronics

| | |
|---|---------------------|
| Supply voltage | 10 V DC ... 24 V DC |
| Power consumption | 10 mA, without load |
| Voltage drop | ≤ 2.2 V |
| Continuous current I_a | ≤ 50 mA |
| Protection class | III |
| Time delay before availability | 25 ms |
| Response sensitivity, typ. | 2.6 mT |

¹⁾ Distance the actuator magnet travels while the sensor provides a switching signal.

²⁾ Supply voltage U_B and constant ambient temperature T_a.

| | |
|---------------------------------------|---|
| Overrun distance, typ. | 3 mm ¹⁾ |
| Hysteresis, typ. | 0.7 mT |
| Reproducibility | ≤ 0.1 mT ²⁾ |
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |
| Status indicator LED | Yes |
| Teach-in | No |
| Power-up pulse protection | Yes |
| Ambient operating temperature | 0 °C ... +100 °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, ferrules, 10 m |
| Connection type Detail | |
| Conductor cross section | 0.14 mm ² |
| Cable diameter | Ø 2.9 mm |
| Bending radius | With fixed installation > 4 x cable diameter For flexible use > 8 x cable diameter |
| Cable outlet | Axial |
| Material | |
| Housing | Plastic, PA12 |
| Cable | PVC |

¹⁾ Distance the actuator magnet travels while the sensor provides a switching signal.

²⁾ Supply voltage U_B and constant ambient temperature T_a .

Safety-related parameters

| | |
|-------------------------------------|-------------|
| MTTF_D | 2,289 years |
| DC_{avg} | 0 % |
| T_M (mission time) | 20 years |

Certificates

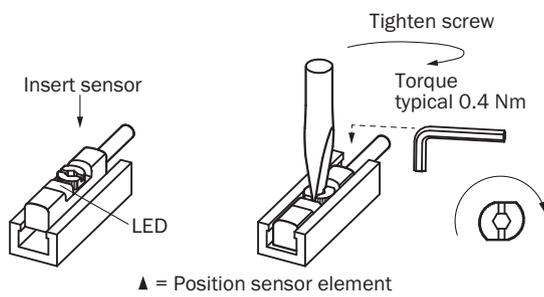
| | |
|---|---|
| EU declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |

Classifications

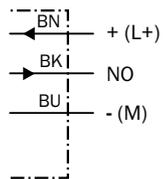
| | |
|---------------------|----------|
| ECLASS 5.0 | 27270104 |
| ECLASS 5.1.4 | 27270104 |
| ECLASS 6.0 | 27270104 |
| ECLASS 6.2 | 27270104 |
| ECLASS 7.0 | 27270104 |
| ECLASS 8.0 | 27270104 |
| ECLASS 8.1 | 27270104 |

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

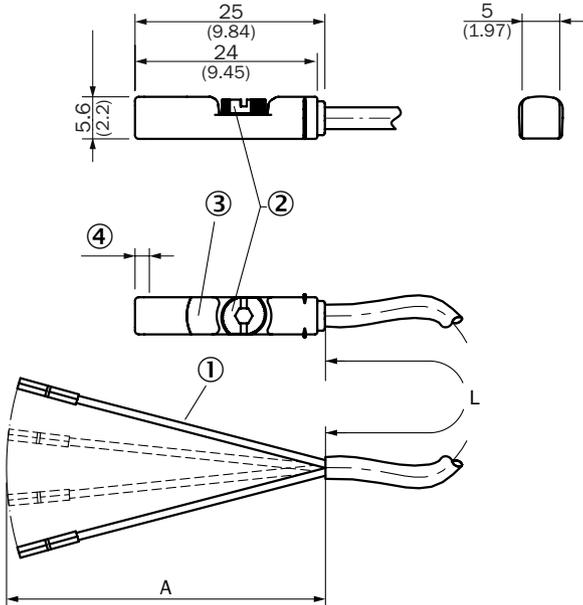
Installation note



Connection diagram Cd-001



Dimensional drawing Cable



Dimensions in mm (inch)

- ① Connection
- ② Fixing screw SW 2.0
- ③ Display LED
- ④ Sensor element position; short overrun distance (3 mm): 2.25 mm, long overrun distance (9 mm): 1.5 mm

| Part no. | Type | L | A | Number of cores |
|----------|-------------------|-------|-------|-----------------|
| 1044349 | MZT8-03VPS-KW0 | 2 m | 42 mm | 3 |
| 1044468 | MZT8-03VNS-KW0 | 2 m | 42 mm | 3 |
| 1044469 | MZT8-03VPS-KU0 | 2 m | 42 mm | 3 |
| 1044931 | MZT8-03VPO-KU0 | 2 m | 42 mm | 3 |
| 1044934 | MZT8-03VNS-KU0 | 2 m | 42 mm | 3 |
| 1048049 | MZT8-28VPS-KU0 | 2 m | 42 mm | 3 |
| 1073269 | MZT8-2V6PSTKWO | 2 m | 42 mm | 3 |
| 1088313 | MZT8-2V6NSTKWO | 2 m | 42 mm | 3 |
| 1054237 | MZT8-03VPS-KUDS08 | 2.5 m | 42 mm | 3 |
| 1044466 | MZT8-03VPS-KUA | 3 m | 42 mm | 3 |
| 1068535 | MZT8-28VNS-KUA | 3 m | 42 mm | 3 |
| 1068912 | MZT8-03VNS-KUA | 3 m | 42 mm | 3 |
| 1092766 | MZT8-2V8NS-KUAS31 | 3 m | 42 mm | 3 |
| 1093836 | MZT8-1V9NS-KUA | 3 m | 42 mm | 3 |
| 1094836 | MZT8-1V9NO-KUA | 3 m | 42 mm | 3 |
| 1054238 | MZT8-03VPS-KUDS09 | 3.6 m | 42 mm | 3 |
| 1044470 | MZT8-03VPS-KUB | 5 m | 42 mm | 3 |
| 1048314 | MZT8-03VPS-KWB | 5 m | 42 mm | 3 |
| 1057030 | MZT8-28VPS-KWB | 5 m | 42 mm | 3 |
| 1071438 | MZT8-1V9PS-KUB | 5 m | 42 mm | 3 |
| 1075262 | MZT8-28VPS-KUB | 5 m | 42 mm | 3 |
| 1073270 | MZT8-2V6PSTKWB | 5 m | 42 mm | 3 |

| Part no. | Type | L | A | Number of cores |
|----------|-------------------|------|-------|-----------------|
| 1091033 | MZT8-03VNS-KUDS28 | 9 m | 42 mm | 3 |
| 1054051 | MZT8-03VPS-KUD | 10 m | 42 mm | 3 |
| 1060429 | MZT8-03VPO-KUD | 10 m | 42 mm | 3 |
| 1073271 | MZT8-2V6PSTKWD | 10 m | 42 mm | 3 |

Recommended accessories

Other models and accessories → www.sick.com/MZT8

| | Brief description | Type | part no. |
|---|---|-------------|----------|
| device protection and care | | | |
|  | <ul style="list-style-type: none"> Description: Protective adapter Material: Zinc diecast Items supplied: Mounting hardware included Suitable for: MZT7, RZT7, MZT8 | BEF-SG-MRZT | 2077201 |
| Mounting systems | | | |
|  | <ul style="list-style-type: none"> Description: Mounting bracket for integrated profile cylinder/tie-rod cylinder Material: Zinc diecast Details: Zinc diecast Items supplied: Mounting hardware included | BEF-KHZ-PT1 | 2022702 |
|  | <ul style="list-style-type: none"> Description: Mounting bracket for cylinder with dovetail slot Material: Aluminum Details: Aluminum Items supplied: Without mounting hardware | BEF-KHZ-ST1 | 2022703 |
|  | <ul style="list-style-type: none"> Description: Mounting bracket for mounting on SMC rails ECDQ2 (T-slot) Material: Aluminum Details: Aluminum Items supplied: Without mounting hardware | BEF-KHZ-TT1 | 2046439 |
|  | <ul style="list-style-type: none"> Description: Mounting bracket for mounting on SMC rails CDQ2 (T-slot) Material: Aluminum Details: Aluminum Items supplied: Without mounting hardware | BEF-KHZ-TT2 | 2046440 |

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