SICK.COM



DATA SHEET

# MZ2Q-FTZPS-KP0

MZ2Q-T
Cylinder sensors

SICK Sensor Intelligence



## CYLINDER SENSORS

# MZ2Q-FTZPS-KP0

### ORDERING INFORMATION

| Type | part no. |
|---|---|
| MZ2Q-FTZPS-KP0 | 1029846 |

Further device versions and accessories at www.sick.com/MZ2Q-T

## DETAILED TECHNICAL DATA

### FEATURES

| | |
|---|---|
| Cylinder type | T-slot |
| Detection zone | 0 mm ... 50 mm |
| Cylinder types with adapter | Profile cylinder<br>Tie rod cylinder<br>Round body cylinder<br>Dovetail groove cylinder<br>SMC rail CDQ2<br>SMC rail ECDQ2 |
| Housing length | 40 mm |
| Switching output | 2 x PNP |
| Output function | 2 x N/O contact |
| Electrical wiring | DC 4-wire |
| Enclosure rating | IP67 [1] |
| Adjustment | |
| Teach-in control panel | Teaching in switching points 1 and 2 |

[1] According to EN 60529.

### MECHANICS/ELECTRONICS

| | |
|---|---|
| Detection zone | 0 mm ... 50 mm |
| Supply voltage | 12 V DC ... 30 V DC |
| Power consumption | Typ. 25 mA, without load |
| Voltage drop | ≤ 2.2 V |
| Continuous current $I_a$ | ≤ 100 mA |
| Protection class | III |
| Hysteresis, typ. | 1 mT |
| Reproducibility | ≤ 0.1 mT [1] |

[1] Supply voltage $U_B$ and constant ambient temperature Ta.

| | |
|---|---|
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |
| Status indicator LED | Yes |
| Teach-in | Yes |
| Power-up pulse protection | Yes |
| Ambient operating temperature | –20 °C ... +75 °C |
| Shock and vibration resistance | 30 g, 11 ms / 10 ... 55 Hz, 1 mm |
| EMC | According to EN 60947-5-2 |
| Connection type | Cable with M8 male connector, 4-pin, 0.3 m |
| Connection type Detail | |
| Cable diameter | Ø 2.6 mm |
| Bending radius | With fixed installation > 5 x cable diameter<br>For flexible use > 10 x cable diameter |
| Cable outlet | Axial |
| Material | |
| Housing | Plastic |
| Cable | PUR |
| UL File No. | NRKH.E181493 & NRKH7.E181493 |

[1] Supply voltage $U_B$ and constant ambient temperature Ta.

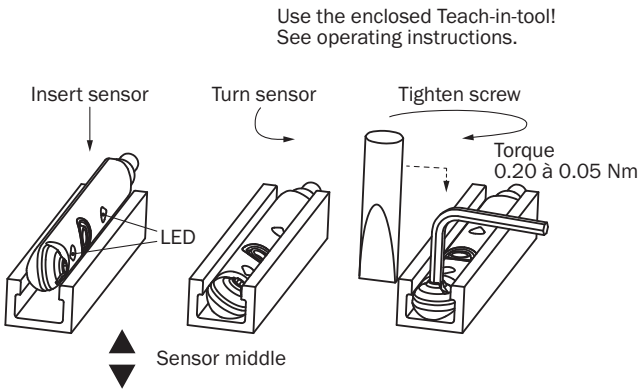
## SAFETY-RELATED PARAMETERS

| | |
|---|---|
| $MTTF_D$ | 799 years |
| $DC_{avg}$ | 0% |
| $T_M$ (mission time) | 20 years |

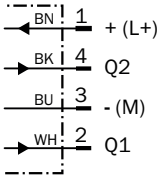
## CERTIFICATES

| | |
|---|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |
| China Compulsory Product Certification (CCC) exempt | ✓ |
| cULus certificate | ✓ |

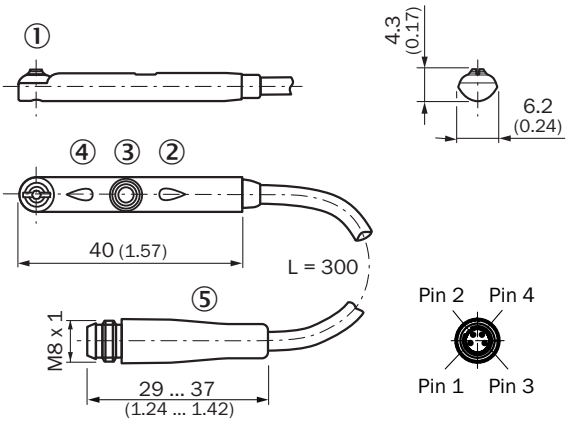
## INSTALLATION NOTE



### CONNECTION DIAGRAM CD-032




### DIMENSIONAL DRAWING CABLE WITH CONNECTOR M8




Dimensions in mm (inch)
① Fixing screw SW 1.5
② Display LED
③ Teach-in button
④ Display LED
⑤ Connection

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1029846

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WALDKIRCH
GERMANY
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Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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