

The SICK logo is displayed in a bold, blue, sans-serif font. It is centered within a white rectangular box, which is itself centered on a light gray background.

DATA SHEET

MZ2Q-FTZPS-KQ0

MZ2Q-T
Cylinder sensors

The SICK logo is shown in a large, bold, blue, sans-serif font. To its right, the words "Sensor Intelligence" are written in a smaller, blue, sans-serif font.



CYLINDER SENSORS

MZ2Q-FTZPS-KQ0

ORDERING INFORMATION

Type	part no.
MZ2Q-FTZPS-KQ0	1041323

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 Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 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_s and constant ambient temperature T_a.

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 plug, M12, 4-pin, 0.3 m
Connection type Detail	Cable diameter Bending radius Cable outlet Ø 2.6 mm With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Axial
Material	Housing Cable Plastic PUR
UL File No.	NRKH.E181493 & NRKH7.E181493

¹⁾ Supply voltage U_s and constant ambient temperature T_a .

SAFETY-RELATED PARAMETERS

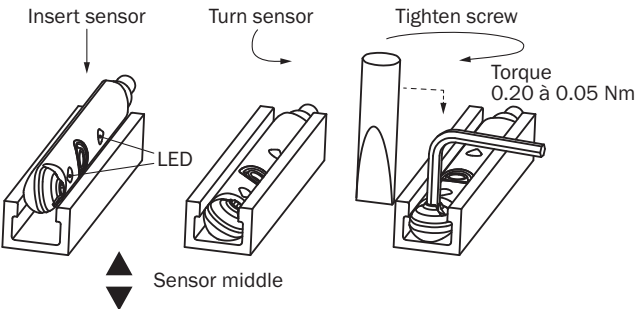
MTTF _D	799 years
DC _{avg}	0%
T _M (mission time)	20 years

CERTIFICATES

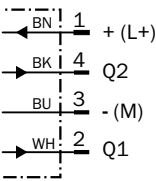
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) ex-empt	✓
cULus certificate	✓

INSTALLATION NOTE

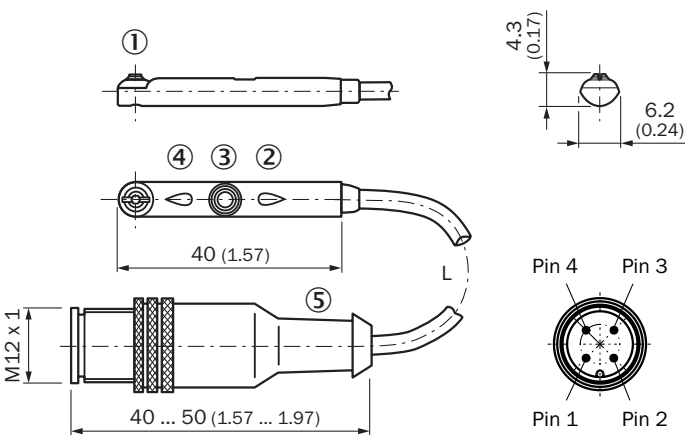
Use the enclosed Teach-in-tool!
See operating instructions.



CONNECTION DIAGRAM CD-032



DIMENSIONAL DRAWING CABLE WITH PLUG M12, WITH KNURLED NUT



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

Part no.	Type	L	Number of cores
1041323	MZ2Q-FTZPS-KQ0	300 mm	4
1042228	MZ2Q-TSLPSKQ0	300 mm	4
1062172	MZ2Q-TFSPSKQD	800 mm	4

Further information as well as suitable accessories, example applications and downloads such as CAD di-
mensional models, operating instructions and software can be found at www.sick.com/1041323



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WALDKIRCH
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

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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