



MZ2Q-TSLPSKUO

MZ2Q-T

CYLINDER SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
MZ2Q-TSLPSKUO	1115197

Other models and accessories → 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, IO-Link
Electrical wiring	DC 4-wire
Enclosure rating	IP67 ¹⁾
Adjustment	Teach-in control panel IO-Link
	Teaching in switching points 1 and 2 Disabling teach-in pushbutton Teaching in switching points 1 and 2 Tolerance band for switching points in 5 stages
IO-Link functions	Standard functions

¹⁾ According to EN 60529.

Mechanics/electronics

Detection zone	0 mm ... 50 mm
Supply voltage	15 V DC ... 30 V DC
Power consumption	Typ. 25 mA, without load
Voltage drop	≤ 2.2 V

¹⁾ Supply voltage U_B and constant ambient temperature T_a .

Continuous current I_a	$\leq 100 \text{ mA}$
Protection class	III
Hysteresis, typ.	1 mT
Reproducibility	$\leq 0.1 \text{ mT}^{1)}$
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Teach-in	Yes
Power-up pulse protection	Yes
Ambient operating temperature	$-20 \text{ }^{\circ}\text{C} \dots +75 \text{ }^{\circ}\text{C}$
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Connection type	Cable, 4-wire, stripped, 2 m
Connection type Detail	
Cable diameter	$\varnothing 2.6 \text{ mm}$
Bending radius	With fixed installation $> 5 \times$ cable diameter
	For flexible use $> 10 \times$ 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 T_a .

Safety-related parameters

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

Communication interface

Communication interface	IO-Link V1.0
Communication Interface detail	COM2 (38,4 kBaud)
Cycle time	2.3 ms
Process data length	2 Bit
Process data structure	Bit 0 = switching signal Q _{L1} Bit 1 = switching signal Q _{L2} Bit 2 ... 7 = empty

Certificates

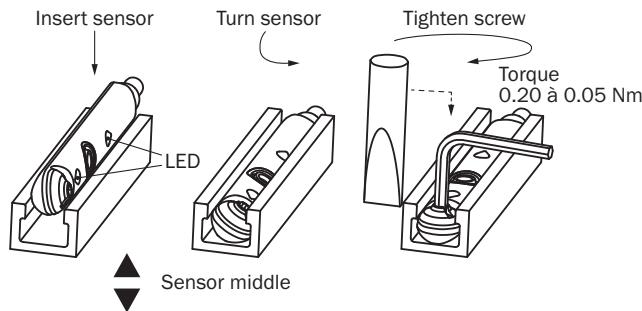
EU declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓

Classifications

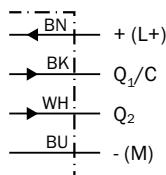
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

Installation note

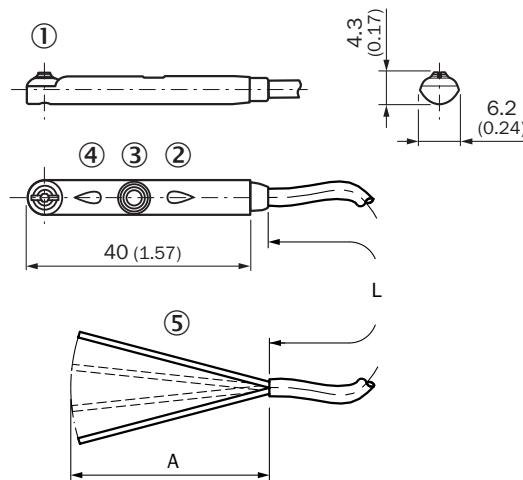
Use the enclosed Teach-in-tool!
See operating instructions.



Connection diagram Cd-548



Dimensional drawing Cable



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	A	Number of cores
1132823	MZ2Q-FTZPS-KUDS24	0,02 m	38 - 42 mm	4
1029845	MZ2Q-FTZPS-KU0	2 m	61 - 65 mm	4
1048103	MZ2Q-FTZNS-KU0	2 m	61 - 65 mm	4
1115197	MZ2Q-TSLPSKU0	2 m	61 - 65 mm	4
1045267	MZ2Q-FTZPS-KUB	5 m	61 - 65 mm	4

Recommended accessories

Other models and accessories → www.sick.com/MZ2Q-T

	Brief description	Type	part no.
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
	<ul style="list-style-type: none"> Description: Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C Dimensions (W x H x L): 22.4 m Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: T-slot 	BEF-KHZ-RT-12	2077681
	<ul style="list-style-type: none"> Description: Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 °C max 50 °C Dimensions (W x H x L): 26.6 m Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: T-slot 	BEF-KHZ-RT-16	2077680
	<ul style="list-style-type: none"> Description: Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 °C max 50 °C Dimensions (W x H x L): 30.6 m Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: T-slot 	BEF-KHZ-RT-20	2077679
	<ul style="list-style-type: none"> Description: Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °C Dimensions (W x H x L): 35.7 m Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: T-slot 	BEF-KHZ-RT-25	2077678
	<ul style="list-style-type: none"> Description: Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 °C max 50 °C Dimensions (W x H x L): 42.9 m Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece Suitable for: T-slot 	BEF-KHZ-RT-32	2077677
	<ul style="list-style-type: none"> Description: Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 °C max 50 °C Dimensions (W x H x L): 50.9 m Material: Plastic, Aluminum Details: Plastic, Aluminum Packing unit: 1 piece 	BEF-KHZ-RT-40	2077676

	Brief description	Type	part no.
	<ul style="list-style-type: none">• Suitable for: T-slot• Description: Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 °C max 50 °C• Dimensions (W x H x L): 61.8 m• Material: Plastic, Aluminum• Details: Plastic, Aluminum• Packing unit: 1 piece• Suitable for: T-slot	BEF-KHZ-RT-50	2077675
	<ul style="list-style-type: none">• Description: Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 °C max 50 °C• Dimensions (W x H x L): 73.9 m• Material: Plastic, Aluminum• Details: Plastic, Aluminum• Packing unit: 1 piece• Suitable for: T-slot	BEF-KHZ-RT-63	2077674
	<ul style="list-style-type: none">• Description: Mounting bracket on round body cylinder with piston diameter of 8 mm ... 25 mm, ambient temperature min -30 °C max 80 °C• Material: Stainless steel, Zinc cast• Details: Stainless steel, Zinc cast• Packing unit: 1 piece• Suitable for: T-slot	BEF-KHZ-RT1-25	2077682
	<ul style="list-style-type: none">• Description: Mounting bracket on round body cylinder with piston diameter of 8 mm ... 63 mm, ambient temperature min -30 °C max 80 °C• Material: Stainless steel, Zinc cast• Details: Stainless steel, Zinc cast• Packing unit: 1 piece• Suitable for: T-slot	BEF-KHZ-RT1-63	2077683
	<ul style="list-style-type: none">• Description: Mounting bracket on round body cylinder with piston diameter of 8 mm ... 130 mm, ambient temperature min -30 °C max 80 °C• Material: Stainless steel, Zinc cast• Details: Stainless steel, Zinc cast• Packing unit: 1 piece• Suitable for: T-slot	BEF-KHZ-RT1-130	2077684

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."

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