

MZ2Q-FTZPS-KU0 MZ2Q-T

SENSORS FOR T-SLOT CYLINDERS



CE CULSTED UK

Ordering information

Туре	Part no.
MZ2Q-FTZPS-KU0	1029845

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	NO
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

 $^{^{1)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

Reverse polarity protection Short-circuit protection Yes Status indicator LED Yes Teach-in Yes Power-up pulse protection Ambient operating temperature -20 ° C +75 ° C Shock and vibration resistance 30 g, 11 ms / 10 55 Hz, 1 mm EMC Connection type Cable, 4-wire, 2 m Conductor cross section Cable diameter Bending radius With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Cable outlet Material Housing Cable Plastic Pur Pes Yes Yes Yes Yes Yes Yes Yes		
Short-circuit protection Status indicator LED Yes Teach-in Yes Power-up pulse protection Ambient operating temperature -20 ° C +75 ° C Shock and vibration resistance Shock and vibration resistance EMC According to EN 60947-5-2 Connection type Connection type Connection type Detail Conductor cross section Cable diameter Bending radius For flexible use > 10 x cable diameter Cable outlet Material Housing Cable PUR	Reproducibility	\leq 0.1 mT $^{1)}$
Status indicator LED Teach-in Yes Power-up pulse protection 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 Connection type Detail Conductor cross section Cable diameter Bending radius With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter For flexible use > 10 x cable diameter Cable Outlet Material Housing Cable Plastic PUR	Reverse polarity protection	Yes
Teach-in Power-up pulse protection Ambient operating temperature Shock and vibration resistance 30 g, 11 ms / 10 55 Hz, 1 mm According to EN 60947-5-2 Cable, 4-wire, 2 m Cable, 4-wire, 2 m Connection type Detail Conductor cross section Cable diameter Bending radius Cable diameter Bending radius Cable outlet Material Housing Cable PUR	Short-circuit protection	Yes
Power-up pulse protection 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 Connection type Detail Conductor cross section Cable diameter Bending radius Cable outlet Cable outlet Housing Cable Plastic PUR	Status indicator LED	Yes
Ambient operating temperature Shock and vibration resistance EMC Connection type Connection type Detail Conductor cross section Cable diameter Bending radius Cable outlet Cable outlet Housing Cable Cable	Teach-in	Yes
Shock and vibration resistance EMC According to EN 60947-5-2 Connection type Cable, 4-wire, 2 m Conductor cross section Cable diameter Bending radius With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Cable outlet Material Housing Cable Plastic PUR	Power-up pulse protection	Yes
EMC Connection type Connection type Detail Conductor cross section Cable diameter Bending radius Bending radius Cable outlet Cable outlet Housing Cable	Ambient operating temperature	-20 °C +75 °C
Connection type Detail Conductor cross section Cable diameter Bending radius Cable outlet Cable outlet Housing Cable	Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Connection type Detail Conductor cross section Cable diameter Bending radius With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Axial Material Housing Cable PUR	EMC	According to EN 60947-5-2
Conductor cross section Cable diameter Bending radius Cable outlet Cable outlet Material Conductor cross section 0.08 mm² Ø 2.6 mm With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Axial Housing Cable PUR	Connection type	Cable, 4-wire, 2 m
Cable diameter Bending radius With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Axial Material Housing Cable PUR	Connection type Detail	
Bending radius With fixed installation > 5 x cable diameter For flexible use > 10 x cable diameter Axial Material Housing Cable PUR	Conductor cross section	0.08 mm ²
For flexible use > 10 x cable diameter Cable outlet Material Housing Cable Cable PUR	Cable diameter	Ø 2.6 mm
Material Housing Plastic Cable PUR	Bending radius	
Housing Plastic Cable PUR	Cable outlet	Axial
Cable PUR	Material	
	Housing	Plastic
UL File No. NRKH.E181493 & NRKH7.E181493	Cable	PUR
	UL File No.	NRKH.E181493 & NRKH7.E181493

 $^{^{1)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

Safety-related parameters

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

Classifications

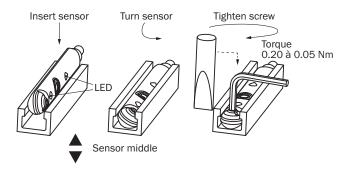
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544

UNSPSC 16.0901

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Installation note

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



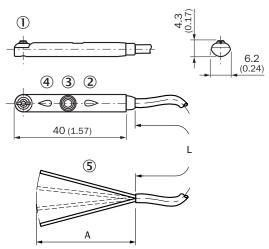
Connection diagram

Cd-033



Dimensional drawing (Dimensions in mm (inch))

Cable



- ① Fixing screw SW 1.5
- ② Display LED
- ③ Teach-in button
- Display LED
- ⑤ Connection

Part no.	Туре	L	Α	Number of cores
1132823	MZ2Q-FTZPS-KUDS24	0,02 m	20 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	Туре	Part no.		
Brackets for cylinder sensors					
	Mounting bracket for cylinder with dovetail slot, Aluminum, without mounting hardware	BEF-KHZ-ST1	2022703		
	Mounting bracket for integrated profile cylinder/tie-rod cylinder, zinc diecast, mounting hardware included	BEF-KHZ-PT1	2022702		
*	1 piece, Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-12	2077681		
	1 piece, Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-16	2077680		
	1 piece, Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-20	2077679		
	1 piece, Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-25	2077678		

MZ2Q-FTZPS-KU0 | MZ2Q-T SENSORS FOR T-SLOT CYLINDERS

	Brief description	Туре	Part no.
	1 piece, Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-32	2077677
	1 piece, Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-40	2077676
	1 piece, Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-50	2077675
	1 piece, Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 °C max 50 °C, plastic, Aluminum	BEF-KHZ-RT-63	2077674
	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm 130 mm, ambient temperature min $-30~^{\circ}$ C max 80 $^{\circ}$ C, stainless steel, Zinc cast	BEF-KHZ-RT1-130	2077684
TIG	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm 25 mm, ambient temperature min $-30~^\circ\text{C}$ max 80 $^\circ\text{C}$, stainless steel, Zinc cast	BEF-KHZ-RT1-25	2077682
	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm 63 mm, ambient temperature min –30 °C max 80 °C, stainless steel, Zinc cast	BEF-KHZ-RT1-63	2077683
	Mounting bracket for mounting on SMC rails CDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT2	2046440
100	Mounting bracket for mounting on SMC rails ECDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT1	2046439

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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