

MZT8-1V9PS-KQ0S34 MZT8

SENSORS FOR T-SLOT CYLINDERS





Ordering information

Туре	Part no.
MZT8-1V9PS-KQ0S34	1101002

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	IP69K ¹⁾
Special features	Stainless steel connector

¹⁾ According to DIN 40050 (IP 69K).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Power consumption	10 mA, without load
Voltage drop	≤ 2.2 V
Continuous current I _a	≤ 200 mA
Protection class	III
Time delay before availability	25 ms
Response sensitivity, typ.	1.9 mT
Overrun distance, typ.	9 mm

 $^{^{1)}}$ Supply voltage U_{B} and constant ambient temperature Ta.

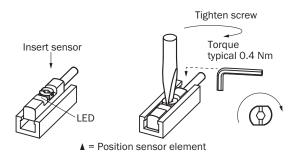
Hysteresis, typ.	0.7 mT
Reproducibility	$\leq 0.1 \mathrm{mT}^{1}$
Reverse polarity protection	Yes
Short-circuit protection	Yes
Status indicator LED	Yes
Power-up pulse protection	Yes
Ambient operating temperature	-30 °C +80 °C
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Connection type	Cable with M12 male connector, 4-pin, 0.3 m
Connection type Detail	
Deep-freeze property	Do not bend below 0 °C
Conductor cross section	0.14 mm ²
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > 3 x cable diameter For flexible use > 10 x cable diameter
Cable outlet	Axial
Material	
Housing	Plastic, PA12
Male connector	Stainless steel
Cable	PVC
UL File No.	NRKH.E181493 & NRKH7.E181493

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

Classifications

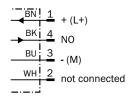
ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104
ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC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

Installation note



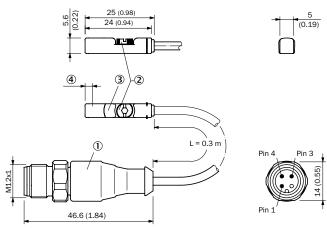
Connection diagram

Cd-011



Dimensional drawing (Dimensions in mm (inch))

Cable with M12 male connector



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

Recommended accessories

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

	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	
	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 $^{\circ}$ C max 50 $^{\circ}$ 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 $-30~^\circ\text{C}$ max 80 $^\circ\text{C}$, stainless steel, Zinc cast	BEF-KHZ-RT1-130	2077684	
R TEE	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 $-30~^\circ\text{C}$ max 80 $^\circ\text{C}$, 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	
	Mounting bracket for mounting on SMC rails ECDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT1	2046439	
Device protect	tion (mechanical)			
	Protective adapter, die-cast zinc, mounting hardware included	BEF-SG-MRZT	2077201	
Plug connectors and cables				
1	 Connection type head A: Female connector, M12, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YF2A13- 020UB1XLEAX	2095604	

MZT8-1V9PS-KQ0S34 | MZT8

SENSORS FOR T-SLOT CYLINDERS

	Brief description	Туре	Part no.
	Connection type head A: Female connector, M12, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot	YF2A13- 050UB1XLEAX	2095605
	 Connection type head A: Female connector, M12, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A13- 020UB1XLEAX	2095752
	 Connection type head A: Female connector, M12, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Zones with oils and lubricants, Drag chain operation, Robot 	YG2A13- 050UB1XLEAX	2095753

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

