



# MZT8-2V6PSTKWB

MZT8

SENSORS FOR T-SLOT CYLINDERS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
MZT8-2V6PSTKWB	1073270

Other models and accessories → [www.sick.com/MZT8](http://www.sick.com/MZT8)



## Detailed technical data

### Features

<b>Cylinder type</b>	T-slot
<b>Cylinder types with adapter</b>	Profile cylinder Tie rod cylinder Round body cylinder Dovetail groove cylinder SMC rail CDQ2 SMC rail ECDQ2
<b>Housing length</b>	24 mm
<b>Switching output</b>	PNP
<b>Switching frequency</b>	1,000 Hz
<b>Output function</b>	NO
<b>Electrical wiring</b>	DC 3-wire
<b>Enclosure rating</b>	IP68 <sup>1)</sup> IP69K <sup>2)</sup>
<b>Special features</b>	Extended operating temperature

<sup>1)</sup> According to EN 60529 (IP 67 / IP 68).

<sup>2)</sup> According to DIN 40050 (IP 69K).

### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 24 V DC
<b>Power consumption</b>	10 mA, without load
<b>Voltage drop</b>	≤ 2.2 V
<b>Continuous current I<sub>a</sub></b>	≤ 50 mA
<b>Protection class</b>	III
<b>Time delay before availability</b>	25 ms
<b>Response sensitivity, typ.</b>	2.6 mT
<b>Overrun distance, typ.</b>	3 mm

<sup>1)</sup> Supply voltage U<sub>B</sub> and constant ambient temperature T<sub>a</sub>.

<b>Hysteresis, typ.</b>	0.7 mT
<b>Reproducibility</b>	≤ 0.1 mT <sup>1)</sup>
<b>Reverse polarity protection</b>	Yes
<b>Short-circuit protection</b>	Yes
<b>Status indicator LED</b>	Yes
<b>Power-up pulse protection</b>	Yes
<b>Ambient operating temperature</b>	0 °C ... +100 °C
<b>Shock and vibration resistance</b>	30 g, 11 ms / 10 ... 55 Hz, 1 mm
<b>EMC</b>	According to EN 60947-5-2
<b>Connection type</b>	Cable, 3-wire, 5 m
<b>Connection type Detail</b>	
Conductor cross section	0.14 mm <sup>2</sup>
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > 4 x cable diameter For flexible use > 8 x cable diameter
Cable outlet	Axial
<b>Material</b>	
Housing	Plastic, PA12
Cable	PVC

<sup>1)</sup> Supply voltage  $U_B$  and constant ambient temperature  $T_a$ .

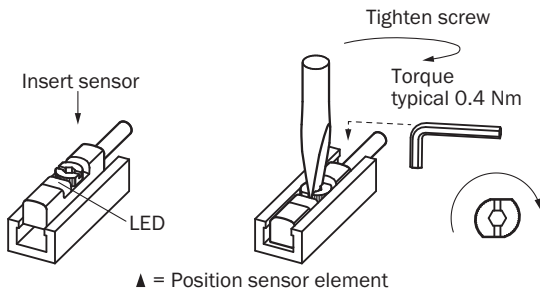
### Safety-related parameters

<b>MTTF<sub>D</sub></b>	2,289 years
<b>DC<sub>avg</sub></b>	0 %
<b>T<sub>M</sub> (mission time)</b>	20 years

### Classifications

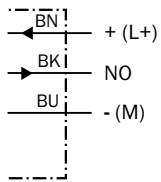
<b>ECLASS 5.0</b>	27270104
<b>ECLASS 5.1.4</b>	27270104
<b>ECLASS 6.0</b>	27270104
<b>ECLASS 6.2</b>	27270104
<b>ECLASS 7.0</b>	27270104
<b>ECLASS 8.0</b>	27270104
<b>ECLASS 8.1</b>	27270104
<b>ECLASS 9.0</b>	27270104
<b>ECLASS 10.0</b>	27270104
<b>ECLASS 11.0</b>	27270104
<b>ECLASS 12.0</b>	27274301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

Installation note



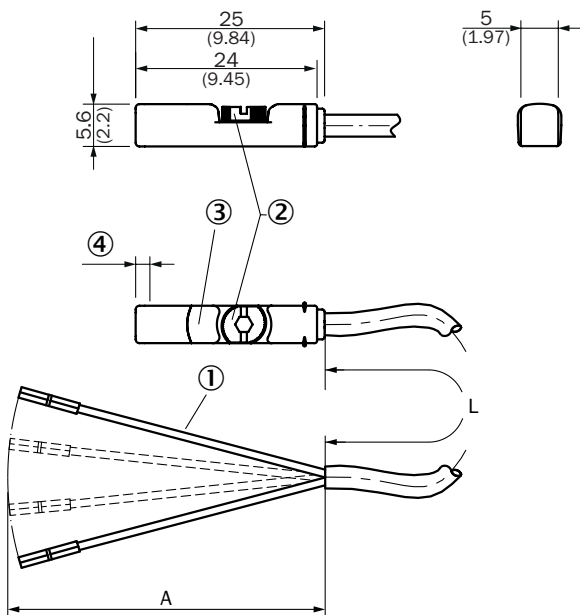
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

Cable






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

Part no.	Type	L	A	Number of cores
1044349	MZT8-03VPS-KWO	2 m	42 mm	3

Part no.	Type	L	A	Number of cores
1044468	MZT8-03VNS-KW0	2 m	42 mm	3
1044469	MZT8-03VPS-KU0	2 m	42 mm	3
1044931	MZT8-03VPO-KU0	2 m	42 mm	3
1044934	MZT8-03VNS-KU0	2 m	42 mm	3
1048049	MZT8-28VPS-KU0	2 m	42 mm	3
1073269	MZT8-2V6PSTKW0	2 m	42 mm	3
1088313	MZT8-2V6NSTKW0	2 m	42 mm	3
1054237	MZT8-03VPS-KUDS08	2.5 m	42 mm	3
1044466	MZT8-03VPS-KUA	3 m	42 mm	3
1068535	MZT8-28VNS-KUA	3 m	42 mm	3
1068912	MZT8-03VNS-KUA	3 m	42 mm	3
1092766	MZT8-2V8NS-KUAS31	3 m	42 mm	3
1093836	MZT8-1V9NS-KUA	3 m	42 mm	3
1094836	MZT8-1V9NO-KUA	3 m	42 mm	3
1054238	MZT8-03VPS-KUDS09	3.6 m	42 mm	3
1044470	MZT8-03VPS-KUB	5 m	42 mm	3
1048314	MZT8-03VPS-KWB	5 m	42 mm	3
1057030	MZT8-28VPS-KWB	5 m	42 mm	3
1071438	MZT8-1V9PS-KUB	5 m	42 mm	3
1075262	MZT8-28VPS-KUB	5 m	42 mm	3
1073270	MZT8-2V6PSTKWB	5 m	42 mm	3
1091033	MZT8-03VNS-KUDS28	9 m	42 mm	3
1054051	MZT8-03VPS-KUD	10 m	42 mm	3
1060429	MZT8-03VPO-KUD	10 m	42 mm	3
1073271	MZT8-2V6PSTKWD	10 m	42 mm	3



### Recommended accessories

Other models and accessories → [www.sick.com/MZT8](http://www.sick.com/MZT8)

	Brief description	Type	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
	Mounting bracket for mounting on SMC rails CDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT2	2046440

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	Brief description	Type	Part no.
	Mounting bracket for mounting on SMC rails ECDQ2 (T-slot), Aluminum, without mounting hardware	BEF-KHZ-TT1	2046439
Device protection (mechanical)			
	Protective adapter, die-cast zinc, mounting hardware included	BEF-SG-MRZT	2077201

## 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](http://www.sick.com)