

MZT8-03VPS-KWB

MZT8

SENSORS FOR T-SLOT CYLINDERS





Ordering information

Туре	Part no.
MZT8-03VPS-KWB	1048314

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	IP67 ¹⁾ IP69K ²⁾

 $^{^{1)}}$ According to EN 60529 (IP 67 / IP 68).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Power consumption	10 mA ¹⁾
Voltage drop	≤ 2.2 V
Continuous current I _a	≤ 200 mA
Protection class	III
Time delay before availability	25 ms
Response sensitivity, typ.	2.6 mT
Overrun distance, typ.	3 mm

¹⁾ Without load.

 $^{^{2)}\,\}mbox{According to DIN 40050 (IP 69K)}.$

 $^{^{2)}\,\}mathrm{Ub}$ and Ta constant.

 $^{^{}m 3)}$ PVC-cable without UL-Certificate.

Hysteresis, typ.	0.7 mT
Reproducibility	$\leq 0.1 \text{mT}^{2)}$
Reverse polarity protection	√
Short-circuit protection	✓
Power-up pulse protection	√
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, 3-wire, 5 m
Connection type Detail	
Conductor cross-section	0.14 mm ²
Cable diameter	Ø 2.9 mm
Cable outlet	Axial
Material	
Housing	Plastic, PA12
Cable	PVC ³⁾

 $^{^{1)}}$ Without load.

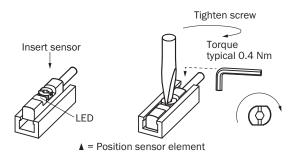
Classifications

ECI@ss 5.0	27270104
ECI@ss 5.1.4	27270104
ECI@ss 6.0	27270104
ECI@ss 6.2	27270104
ECI@ss 7.0	27270104
ECI@ss 8.0	27270104
ECI@ss 8.1	27270104
ECI@ss 9.0	27270104
ECI@ss 10.0	27270104
ECI@ss 11.0	27270104
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
UNSPSC 16.0901	39122230

²⁾ Ub and Ta constant.

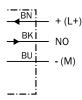
³⁾ PVC-cable without UL-Certificate.

Installation note



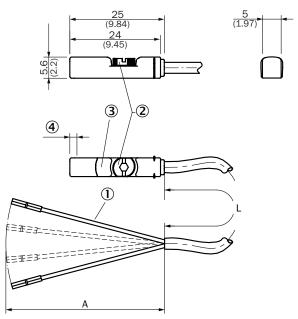
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

Cable



- ① Connection
- ② Fixing screw SW 2.0
- ③ Indication LED
- ④ Sensor element position; short overrun distance (3 mm): 2 mm, long overrun distance (9 mm): 1.7 mm

Part no.	Туре	L	A	Number of cores
1044349	MZT8-03VPS-KW0	2 m	42 mm	3

Part no.	Туре	L	Α	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	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

	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		

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	Brief description	Туре	Part no.		
	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 °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 °C max 80 °C, stainless steel, Zinc cast	BEF-KHZ-RT1-130	2077684		
	1 piece, Mounting bracket on round body cylinder with piston diameter of 8 mm 25 mm, ambient temperature min –30 °C max 80 °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		
	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		

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