

MZT8-03VPS-KQ0 MZT8

SENSORS FOR T-SLOT CYLINDERS



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Ordering information

Туре	Part no.
MZT8-03VPS-KQ0	1044460

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



Detailed technical data

Features

catales		
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	IP68 ¹⁾	
Cable outlet	Axial	

 $^{^{1)}}$ 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.

 $^{^{2)}}$ Ub and Ta constant.

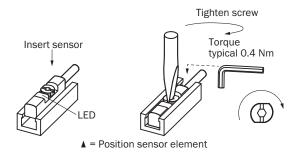
Hysteresis, typ.	> 0.5 mT
Reproducibility	\leq 0.1 mT $^{2)}$
Reverse polarity protection	√
Short-circuit protection	✓
Power-up pulse protection	✓
Ambient operating temperature	-30 °C +80 °C
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Housing material	Plastic, PA12
Connection type	Cable with connector M12, 3-pin, 0.3 m
Cable material	PUR
Conductor cross-section	0.14 mm ²
UL File No.	NRKH.E181493 & NRKH7.E181493

 $^{^{1)}}$ 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
ETIM 5.0	EC002544
ETIM 6.0	EC002544
UNSPSC 16.0901	39122230

Installation note



2019-08-16 08:46:11 | Online data sheet Subject to change without notice

²⁾ Ub and Ta constant.

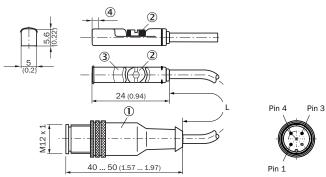
Connection diagram

Cd-002



Dimensional drawing (Dimensions in mm (inch))

Cable with M12 male connector



- ① Connection
- ② Fixing screw SW 2.0
- ③ Indication LED
- 4 Position of sensor element; short overrun distance: 2 mm; long overrun distance: 1.7 mm

Part no.	Туре	L	Number of cores
1044460	MZT8-03VPS-KRD	300 mm	3
1048051	MZT8-03VPS-KRDS04	300 mm	3
1058311	MZT8-03VPS-KRDS12	500 mm	3
1058317	MZT8-03VPS-KR0	1 m	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

	Brief description	Туре	Part no.
*	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 $^{\circ}$ C max 50 $^{\circ}$ 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 protec	tion (mechanical)		
	Protective adapter, die-cast zinc, mounting hardware included	BEF-SG-MRZT	2077201
Plug connecto	ors and cables		
	Head A: female connector, M12, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A13- 020UB1XLEAX	2095604
	Head A: female connector, M12, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A13- 050UB1XLEAX	2095605
	Head A: female connector, M12, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A13- 020UB1XLEAX	2095752
	Head A: female connector, M12, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A13- 050UB1XLEAX	2095753

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