

RZT7-03ZWS-KWB

RZT7

SENSORS FOR T-SLOT CYLINDERS





Ordering information

Туре	Part no.
RZT7-03ZWS-KWB	1070872

Other models and accessories → www.sick.com/RZT7



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	32.5 mm
Switching output	Reed
Switching frequency	400 Hz
Output function	NO
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP65 ¹⁾ IP67

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	5 V AC/DC 230 V AC/DC ¹⁾
Rated insulation voltage U _i	230 V
Rated impulse withstand voltage \mathbf{U}_{imp}	4 kV
Voltage drop	≤ 3.5 V
Continuous current I _a	\leq 100 mA $^{2)}$
Switching capacity	≤ 6 W
Protection class	II
Response sensitivity, typ.	3 mT
Overrun distance, typ.	10 mm

 $^{^{1)}}$ Mains fuse F < 0.5 A IEC60127-2 sheet 1.

²⁾ AC

 $^{^{}m 3)}$ Ub and Ta constant.

Reproducibility	$\leq 0.1 \text{mT}^{3)}$
Status indicator LED	√
Ambient operating temperature	-30 °C +70 °C
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Connection type	Cable, 2-wire, 5 m
Connection type Detail	
Conductor cross-section	0.12 mm ²
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > $10 \times \text{cable diameter}$ For flexible use > $15 \times \text{cable diameter}$
Cable outlet	Axial
Material	
Housing	Plastic
Cable	PVC

 $^{^{1)}}$ Mains fuse F < 0.5 A IEC60127-2 sheet 1.

Safety-related parameters

$MTTF_D$	23,876 years
DC _{avg}	0 %
T_{M} (mission time)	20 years
B _{10d}	790,000 Switching cycles ¹⁾

 $^{^{1)}}$ Only for devices containing electro-mechanical components. In this case, the MTTF_D value of the entire device must be calculated from the given B_{10D} value, the number of switching cycles and the given MTTF_D value.

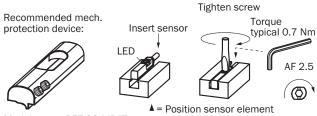
Classifications

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
ECI@ss 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

²⁾ AC.

 $^{^{}m 3)}$ Ub and Ta constant.

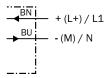
Installation note



Model name: BEF-SG-MRZT Part number: 2077201

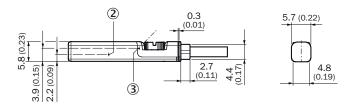
Connection diagram

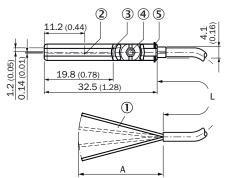
Cd-037



Dimensional drawing (Dimensions in mm (inch))

Cable





- ① Connection
- Position sensor element
- ③ Display LED
- ④ Fixing screw SW 2.5
- ⑤ Retaining ribs

Part no.	Туре	L	A	Number of cores	Supply voltage
1070869	RZT7-03ZWS-KU0	2 m	31.5	2	5 V AC/DC 230 V AC/DC

Part no.	Туре	L	A	Number of cores	Supply voltage
1070871	RZT7-03ZWS-KW0	2 m	31.5	2	5 V AC/DC 230 V AC/DC
1070870	RZT7-03ZWS-KUB	5 m	31.5	2	5 V AC/DC 230 V AC/DC
1070872	RZT7-03ZWS-KWB	5 m	31.5	2	5 V AC/DC 230 V AC/DC

Recommended accessories

Other models and accessories → www.sick.com/RZT7

	Brief description	Туре	Part no.				
Brackets for o	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 $^{\circ}\text{C}$ max 50 $^{\circ}\text{C}$, 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				
Tell	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				
a , t	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				

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	Brief description	Туре	Part no.
Device protect	tion (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.

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For us, that is "Sensor Intelligence."

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