

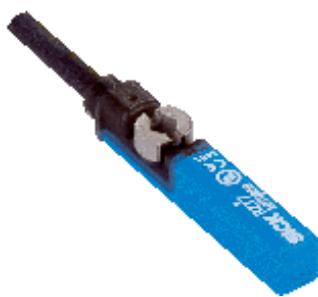


## RZT7-03ZU0-KP0S13

RZT7

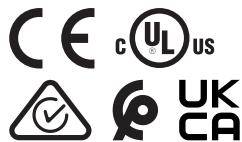
**CYLINDER SENSORS**

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
RZT7-03ZUO-KP0S13	1103085

Other models and accessories → [www.sick.com/RZT7](http://www.sick.com/RZT7)

## 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>	32.5 mm
<b>Switching output</b>	Reed
<b>Switching frequency</b>	400 Hz
<b>Output function</b>	NC
<b>Electrical wiring</b>	AC/DC 2-wire
<b>Enclosure rating</b>	IP65 <sup>1)</sup> IP67

<sup>1)</sup> According to EN 60529.

## Mechanics/electronics

<b>Supply voltage</b>	10 V AC/DC ... 48 V AC/DC <sup>1)</sup>
<b>Voltage drop</b>	≤ 3.5 V
<b>Continuous current I<sub>a</sub></b>	≤ 100 mA <sup>2)</sup>
<b>Switching capacity</b>	≤ 6 W
<b>Protection class</b>	III
<b>Response sensitivity, typ.</b>	3 mT
<b>Overrun distance, typ.</b>	10 mm
<b>Reproducibility</b>	≤ 0.1 mT <sup>3)</sup>
<b>Status indicator LED</b>	No

<sup>1)</sup> Rated supply voltage: Contains all fluctuations of the supply voltage.<sup>2)</sup> AC/DC.<sup>3)</sup> Supply voltage U<sub>B</sub> and constant ambient temperature T<sub>a</sub>.

<b>Teach-in</b>	No
<b>Ambient operating temperature</b>	-30 °C ... +80 °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 with connector M8, 3-pin, drag chain use, 0.3 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 > 3 x cable diameter For flexible use > 10 x cable diameter
Torsion force	± 270° / 10 cm
Torsion cycles	> 2,000,000
Drag chain cycles	> 2,000,000
Drag chain parameters	Traversing speed max. 3.3 m/s at 5 m horizontal traversing length Acceleration max. 5 m/s <sup>2</sup>
Cable outlet	Axial
<b>Material</b>	
Housing	Plastic, Grilamid LVX-65H SST
Cable	PUR

1) Rated supply voltage: Contains all fluctuations of the supply voltage.

2) AC/DC.

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

## Certificates

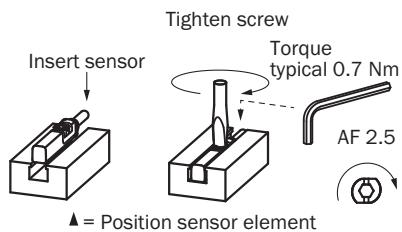
<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>Moroccan declaration of conformity</b>	✓
<b>China-RoHS</b>	✓
<b>cULus certificate</b>	✓

## Classifications

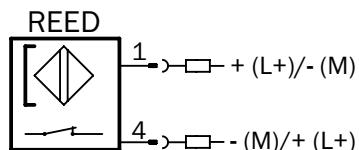
<b>ECLASS 5.0</b>	27270104
<b>ECLASS 5.1.4</b>	27270104
<b>ECLASS 6.0</b>	27270104
<b>ECLASS 6.2</b>	27270104
<b>ECLASS 7.0</b>	27270104
<b>ECLASS 8.0</b>	27270104
<b>ECLASS 8.1</b>	27270104
<b>ECLASS 9.0</b>	27270104
<b>ECLASS 10.0</b>	27270104
<b>ECLASS 11.0</b>	27270104
<b>ECLASS 12.0</b>	27274301
<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

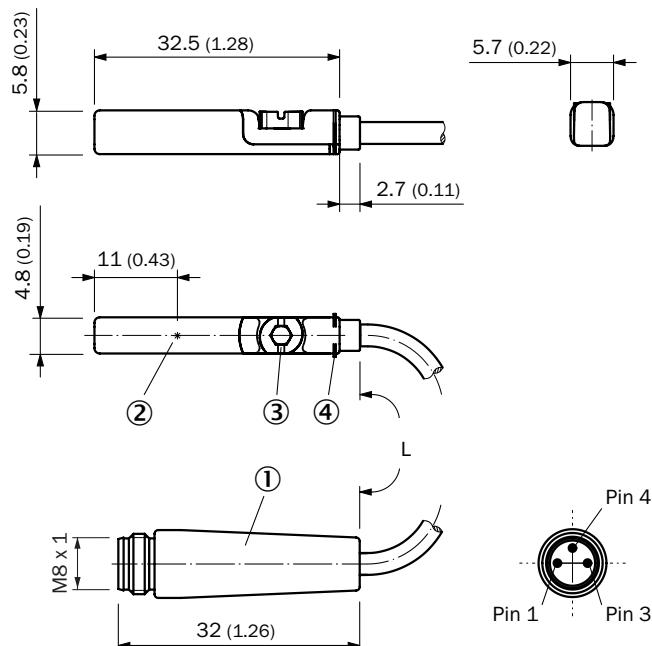
### Installation note



### Connection diagram Cd-449



### Dimensional drawing Cable with connector M8



Dimensions in mm (inch)

① Connection

② Position sensor element

- ③ Fixing screw SW 2.5
- ④ retaining ribs

Part no.	Type	L	Number of cores	Supply voltage
1103085	RZT7-03ZU0-KP0S13	300 mm	2	10 V AC/DC ... 48 V AC/DC

## Recommended accessories

Other models and accessories → [www.sick.com/RZT7](http://www.sick.com/RZT7)

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 8 mm ... 130 mm, ambient temperature min -30 °C max 80 °C</li> <li><b>Material:</b> Stainless steel, Zinc cast</li> <li><b>Details:</b> Stainless steel, Zinc cast</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT1-130	2077684
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 8 mm ... 25 mm, ambient temperature min -30 °C max 80 °C</li> <li><b>Material:</b> Stainless steel, Zinc cast</li> <li><b>Details:</b> Stainless steel, Zinc cast</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT1-25	2077682
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 8 mm ... 63 mm, ambient temperature min -30 °C max 80 °C</li> <li><b>Material:</b> Stainless steel, Zinc cast</li> <li><b>Details:</b> Stainless steel, Zinc cast</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT1-63	2077683
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 12 mm, ambient temperature min 0 °C max 50 °C</li> <li><b>Dimensions (W x H x L):</b> 22.4 m</li> <li><b>Material:</b> Plastic, Aluminum</li> <li><b>Details:</b> Plastic, Aluminum</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT-12	2077681
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 16 mm, ambient temperature min 0 °C max 50 °C</li> <li><b>Dimensions (W x H x L):</b> 26.6 m</li> <li><b>Material:</b> Plastic, Aluminum</li> <li><b>Details:</b> Plastic, Aluminum</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT-16	2077680
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 20 mm, ambient temperature min 0 °C max 50 °C</li> <li><b>Dimensions (W x H x L):</b> 30.6 m</li> <li><b>Material:</b> Plastic, Aluminum</li> <li><b>Details:</b> Plastic, Aluminum</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT-20	2077679
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 25 mm, ambient temperature min 0 °C max 50 °C</li> <li><b>Dimensions (W x H x L):</b> 35.7 m</li> <li><b>Material:</b> Plastic, Aluminum</li> <li><b>Details:</b> Plastic, Aluminum</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT-25	2077678
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 32 mm, ambient temperature min 0 °C max 50 °C</li> <li><b>Dimensions (W x H x L):</b> 42.9 m</li> <li><b>Material:</b> Plastic, Aluminum</li> <li><b>Details:</b> Plastic, Aluminum</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Suitable for:</b> T-slot</li> </ul>	BEF-KHZ-RT-32	2077677
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 40 mm, ambient temperature min 0 °C max 50 °C</li> <li><b>Dimensions (W x H x L):</b> 50.9 m</li> <li><b>Material:</b> Plastic, Aluminum</li> <li><b>Details:</b> Plastic, Aluminum</li> <li><b>Packing unit:</b> 1 piece</li> </ul>	BEF-KHZ-RT-40	2077676

	<b>Brief description</b>	<b>Type</b>	<b>part no.</b>
	<ul style="list-style-type: none"><li><b>Suitable for:</b> T-slot</li><li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 50 mm, ambient temperature min 0 °C max 50 °C</li><li><b>Dimensions (W x H x L):</b> 61.8 m</li><li><b>Material:</b> Plastic, Aluminum</li><li><b>Details:</b> Plastic, Aluminum</li><li><b>Packing unit:</b> 1 piece</li><li><b>Suitable for:</b> T-slot</li></ul>	BEF-KHZ-RT-50	2077675
	<ul style="list-style-type: none"><li><b>Description:</b> Mounting bracket on round body cylinder with piston diameter of 63 mm, ambient temperature min 0 °C max 50 °C</li><li><b>Dimensions (W x H x L):</b> 73.9 m</li><li><b>Material:</b> Plastic, Aluminum</li><li><b>Details:</b> Plastic, Aluminum</li><li><b>Packing unit:</b> 1 piece</li><li><b>Suitable for:</b> T-slot</li></ul>	BEF-KHZ-RT-63	2077674
	<ul style="list-style-type: none"><li><b>Description:</b> Mounting bracket for integrated profile cylinder/tie-rod cylinder</li><li><b>Material:</b> Zinc diecast</li><li><b>Details:</b> Zinc diecast</li><li><b>Items supplied:</b> Mounting hardware included</li></ul>	BEF-KHZ-PT1	2022702
	<ul style="list-style-type: none"><li><b>Description:</b> Mounting bracket for mounting on SMC rails ECDQ2 (T-slot)</li><li><b>Material:</b> Aluminum</li><li><b>Details:</b> Aluminum</li><li><b>Items supplied:</b> Without mounting hardware</li></ul>	BEF-KHZ-TT1	2046439
	<ul style="list-style-type: none"><li><b>Description:</b> Mounting bracket for mounting on SMC rails CDQ2 (T-slot)</li><li><b>Material:</b> Aluminum</li><li><b>Details:</b> Aluminum</li><li><b>Items supplied:</b> Without mounting hardware</li></ul>	BEF-KHZ-TT2	2046440
	<ul style="list-style-type: none"><li><b>Description:</b> Mounting bracket for cylinder with dovetail slot</li><li><b>Material:</b> Aluminum</li><li><b>Details:</b> Aluminum</li><li><b>Items supplied:</b> Without mounting hardware</li></ul>	BEF-KHZ-ST1	2022703
<b>device protection and care</b>			
	<ul style="list-style-type: none"><li><b>Description:</b> Protective adapter</li><li><b>Material:</b> Zinc diecast</li><li><b>Items supplied:</b> Mounting hardware included</li><li><b>Suitable for:</b> MZT7, RZT7, MZT8</li></ul>	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.

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