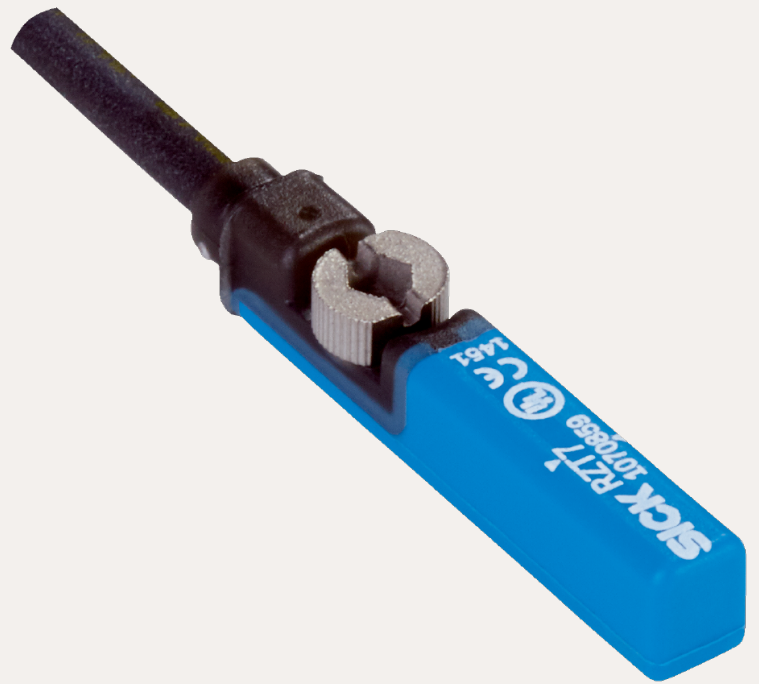




DATA SHEET

RZT7-03ZUSTKUB

RZT7
Cylinder sensors

SICK

Sensor Intelligence



CYLINDER SENSORS

RZT7-03ZUSTKUB

ORDERING INFORMATION

Type	part no.
RZT7-03ZUSTKUB	1120494

Further device versions and accessories at 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	29.5 mm
Switching output	Reed
Switching frequency	400 Hz
Output function	NO
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP65 ¹⁾ IP67
Special features	Extended operating temperature

¹⁾ According to EN 60529.

MECHANICS/ELECTRONICS

Supply voltage	10 V AC/DC ... 30 V AC/DC
Voltage drop	≤ 3.5 V
Continuous current I _a	≤ 100 mA ¹⁾
Switching capacity	≤ 6 W
Protection class	III
Response sensitivity, typ.	3 mT

¹⁾ AC/DC.

²⁾ Distance covered by the encoder magnet while the sensor outputs a switching signal.

³⁾ Supply voltage U_s and constant ambient temperature T_a.

Overrun distance, typ.	10 mm ²⁾												
Reproducibility	$\leq 0.1 \text{ mT}$ ³⁾												
Status indicator LED	No												
Teach-in	No												
Ambient operating temperature	-20 °C ... +120 °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, stripped, 5 m												
Connection type Detail	<table> <tr> <td>Conductor cross section</td><td>0.14 mm²</td></tr> <tr> <td>Cable diameter</td><td>Ø 2.9 mm</td></tr> <tr> <td>Bending radius</td><td>With fixed installation > 3 x cable diameter For flexible use > 10 x cable diameter</td></tr> <tr> <td>Torsion force</td><td>$\pm 270^\circ / 10 \text{ cm}$</td></tr> <tr> <td>Torsion cycles</td><td>> 2,000,000</td></tr> <tr> <td>Cable outlet</td><td>Axial</td></tr> </table>	Conductor cross section	0.14 mm ²	Cable diameter	Ø 2.9 mm	Bending radius	With fixed installation > 3 x cable diameter For flexible use > 10 x cable diameter	Torsion force	$\pm 270^\circ / 10 \text{ cm}$	Torsion cycles	> 2,000,000	Cable outlet	Axial
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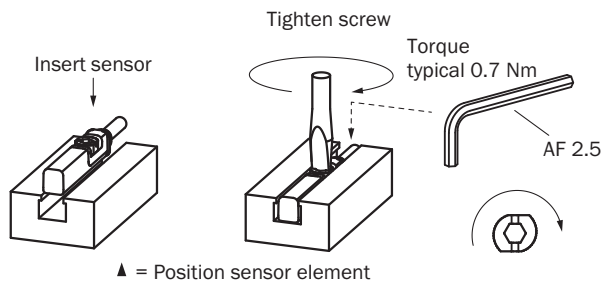
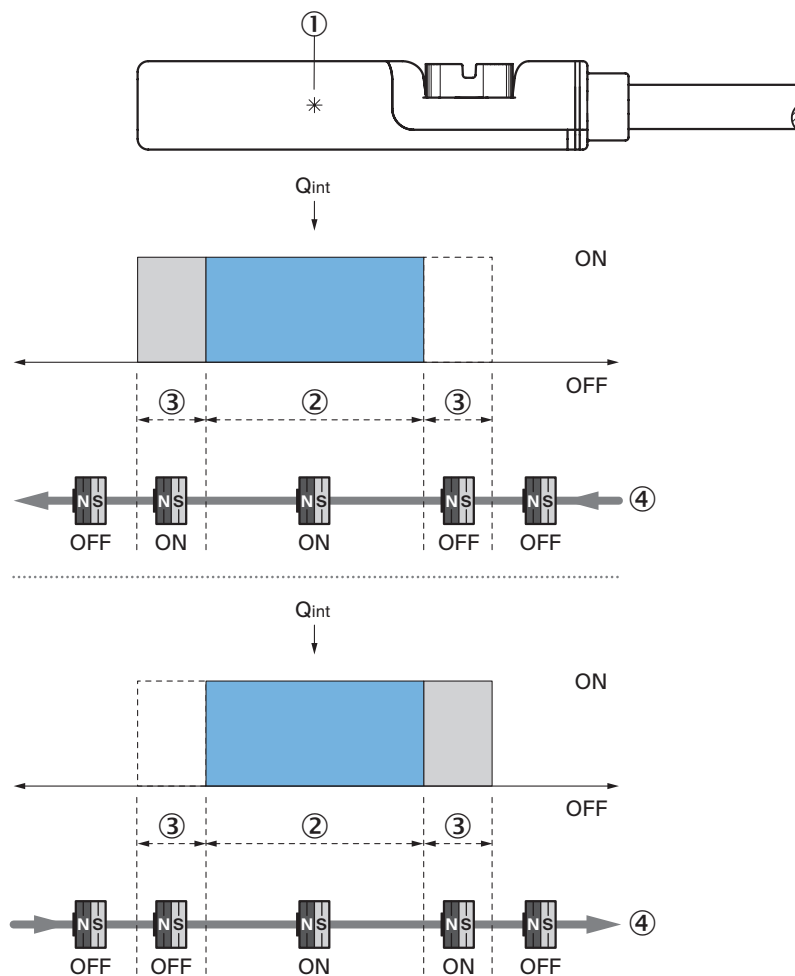
SAFETY-RELATED PARAMETERS

MTTF _D	23,876 years
DC _{avg}	0 %
T _M (mission time)	20 years
B _{10D}	10,000,000 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.

CERTIFICATES

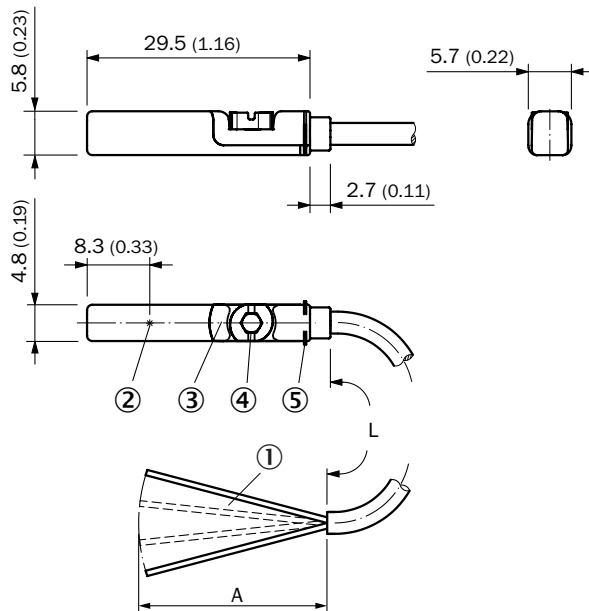
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓

INSTALLATION NOTE**FUNCTIONAL PRINCIPLE OVERRUN DISTANCE**

Note: Sensor housing may differ; representation corresponds to “NO contact” output function; overrun distance = switching point width + hysteresis

- ① Position sensor element
- ② Width of the switching point
- ③ Hysteresis
- ④ Direction of movement of the magnet

DIMENSIONAL DRAWING CABLE



Dimensions in mm (inch)

- ① Connection
- ② Position sensor element
- ③ Fixing screw SW 2.5
- ④ retaining ribs

		L	A	
1093627	RZT7-03ZUSTKUA	3 m	31.5	2
1120494	RZT7-03ZUSTKUB	5 m	31.5	2

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1120494



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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