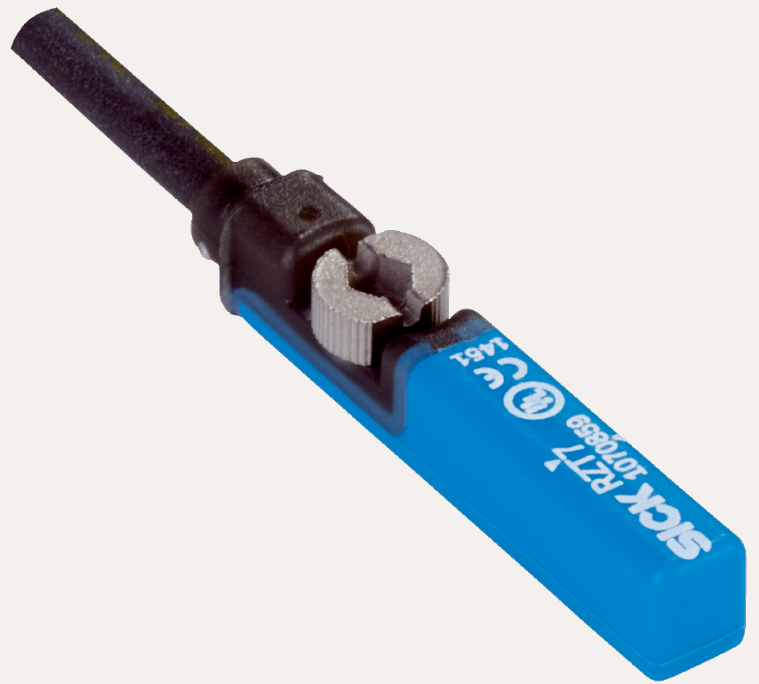




DATA SHEET

RZT7-03ZVO-KWDS19

RZT7
Cylinder sensors

SICK

Sensor Intelligence



CYLINDER SENSORS

RZT7-03Z-
VO-KWDS19

ORDERING INFORMATION

Type	part no.
RZT7-03ZVO-KWDS19	1115151

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

¹⁾ According to EN 60529.

MECHANICS/ELECTRONICS

Supply voltage	5 V AC/DC ... 120 V AC/DC ¹⁾
Rated insulation voltage U _i	230 V
Rated impulse withstand voltage U _{imp}	4 kV
Voltage drop	≤ 3.5 V
Continuous current I _a	≤ 100 mA ²⁾
Switching capacity	≤ 6 W

¹⁾ Mains fuse F < 0.8 A IEC60127-2 sheet 1.

²⁾ AC/DC.

³⁾ Distance covered by the encoder magnet while the sensor outputs a switching signal.

⁴⁾ Supply voltage U_s and constant ambient temperature T_a.

Protection class	II
Response sensitivity, typ.	3 mT
Overrun distance, typ.	10 mm ³⁾
Reproducibility	≤ 0.1 mT ⁴⁾
Status indicator LED	No
Teach-in	No
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, stripped, 10 m
Connection type Detail	
Conductor cross section	0.12 mm ²
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > 10 x cable diameter For flexible use > 15 x cable diameter
Cable outlet	Axial
Material	
Housing	Plastic, Grilamid LVX-65H SST
Cable	PVC

¹⁾ Mains fuse F < 0.8 A IEC60127-2 sheet 1.

²⁾ AC/DC.

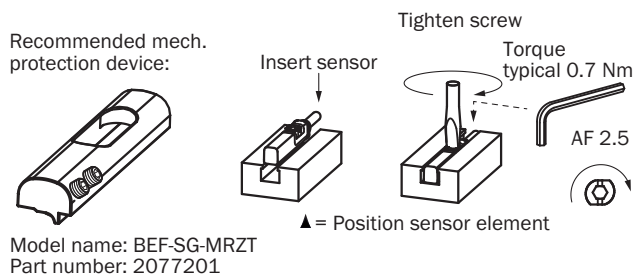
³⁾ Distance covered by the encoder magnet while the sensor outputs a switching signal.

⁴⁾ Supply voltage U_s and constant ambient temperature Ta.

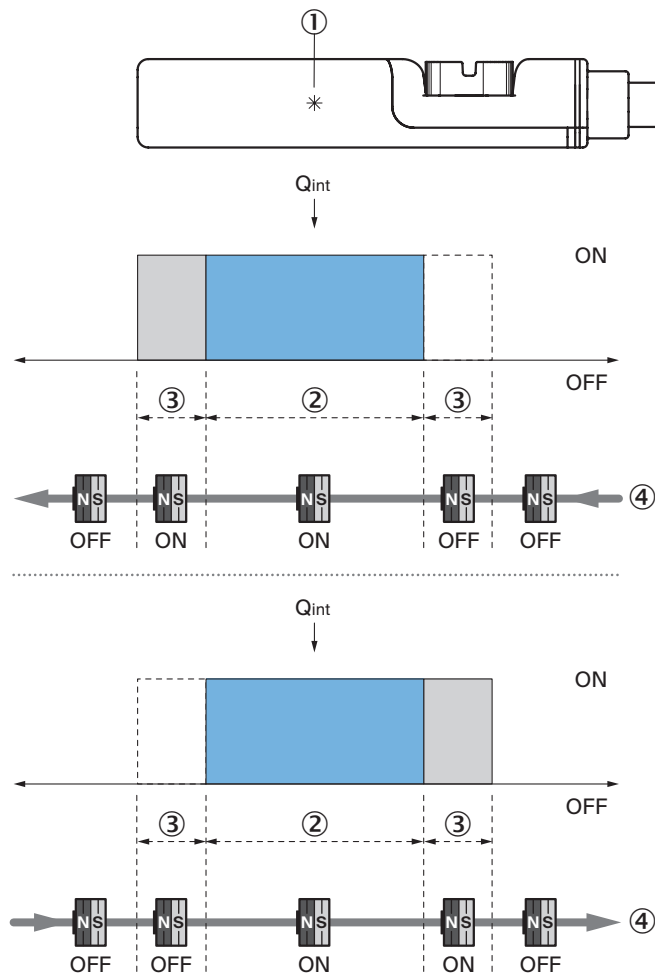
CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
CCC certificate	✓

INSTALLATION NOTE



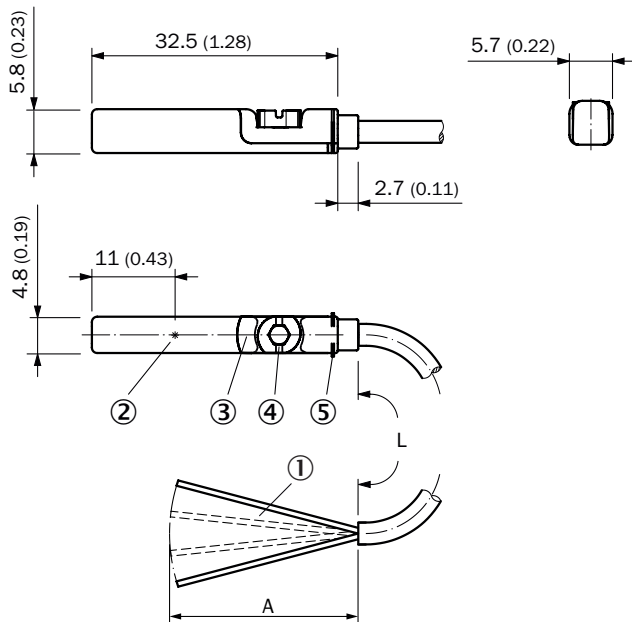
FUNCTIONAL PRINCIPLE OVERRUN DISTANCE



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

Part no.	Type	L	A	Number of cores	Supply voltage
1070866	RZT7-03ZVO-KW0	2 m	31.5	2	5 V AC/DC ... 120 V AC/DC
1115151	RZT7-03ZVO-KWDS19	10 m	31.5	2	5 V AC/DC ... 120 V AC/DC

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/1115151



SICK AG
WALDKIRCH
GERMANY
SICK.COM

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

SICK
Sensor Intelligence