

RZN-03ZWS-KUB

RZN

CYLINDER SENSORS





Ordering information

Туре	part no.
RZN-03ZWS-KUB	1117648

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



Detailed technical data

Features

Cylinder type	IMI Norgren slot
Cylinder types with adapter	Round body cylinder
Housing length	29.5 mm
Switching output	Reed
Switching frequency	400 Hz
Output function	NO
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

·	
Supply voltage	5 V AC/DC 240 V AC/DC ¹⁾
Rated insulation voltage U _i	240 V
Rated impulse with stand voltage $\mathbf{U}_{\mathrm{imp}}$	4 kV
Voltage drop	≤ 3.5 V
Continuous current I _a	\leq 100 mA $^{2)}$
Switching capacity	≤ 10 W
Protection class	II .
Response sensitivity, typ.	3 mT
Overrun distance, typ.	10 mm
Reproducibility	\leq 0.1 mT $^{3)}$
Status indicator LED	Yes
Teach-in	No
Ambient operating temperature	-40 °C +80 °C

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

²⁾ AC.

 $^{^{\}rm 3)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

Shock and vibration resistance	50 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Connection type	Cable, 2-wire, stripped, drag chain use, 5 m
Connection type Detail	
Conductor cross section	0.14 mm ²
Cable diameter	Ø 2.9 mm
Bending radius	With fixed installation > 4 x cable diameter
	For flexible use > 8 x cable diameter
Torsion force	± 270° / 10 cm
Torsion cycles	> 300,000
Cable outlet	Axial
Material	
Housing	Plastic
Cable	PUR
Items supplied	1 x mounting clip plugged in

 $^{^{1)}}$ 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.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China-RoHS	✓

Classifications

ECLASS 5.0	27270104
ECLASS 5.1.4	27270104
ECLASS 6.0	27270104
ECLASS 6.2	27270104
ECLASS 7.0	27270104
ECLASS 8.0	27270104
ECLASS 8.1	27270104
ECLASS 9.0	27270104
ECLASS 10.0	27270104

²⁾ AC.

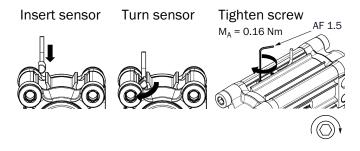
 $^{^{\}rm 3)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

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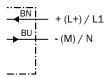
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ECLASS 11.0	27270104
ECLASS 12.0	27274301
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122230

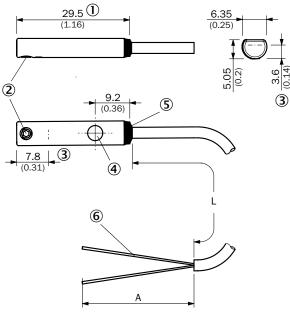
Installation note



Connection diagram Cd-037



Dimensional drawing Cable



Dimensions in mm (inch)

- 1 housing
- ② Fixing screw M3; width across 1.5 mm
- 3 Position sensor element
- ④ Display LED
- ⑤ Delo-Duopox sleeve
- © Connection

		L	A	
1117647	RZN-03ZWS-KW0	2 m	31.5 mm	2
1117646	RZN-03ZWS-KWB	5 m	31.5 mm	2
1117648	RZN-03ZWS-KUB	5 m	31.5 mm	2
1117645	RZN-03ZWS-KWD	10 m	31.5 mm	2

Recommended accessories

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

	Brief description	Туре	part no.
Mounting sys	tems		
	Description: Mounting clip for round body cylinder, clamping range 9.2 mm to 10 mm, for piston rod diameter of 8 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included	BEF-S-R1-08	7902337
	Description: Mounting clip for round body cylinder, clamping range 10.9 mm to 12 mm, for piston rod diameter of 10 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included	BEF-S-R1-10	7901753
9	Description: Mounting clip for round body cylinder, clamping range 12.9 mm to 41 mm, for piston rod diameter of 12 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included	BEF-S-R1-12	7901754
	Description: Mounting clip for round body cylinder, clamping range 16.9 mm to 18 mm, for piston rod diameter of 16 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included	BEF-S-R1-16	7901755
	 Description: Mounting clip for round body cylinder, clamping range 21 mm to 22 mm, for piston rod diameter of 20 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included 	BEF-S-R1-20	7901756
	 Description: Mounting clip for round body cylinder, clamping range 26.1 mm to 27.2 mm, for piston rod diameter of 25 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included 	BEF-S-R1-25	7901757
6	Description: Mounting clip for round body cylinder, clamping range 33 mm to 35 mm, for piston rod diameter of 32 mm Material: Plastic Details: Plastic Items supplied: Mounting hardware included	BEF-S-R1-32	7901758
0	• Description: Mounting clip for round body cylinder, clamping range 41.4 mm to 42.5 mm, for piston rod diameter of 40 mm • Material: Plastic S SNO Walls: Plastic	BEF-S-R1-40	7901759
18	Items supplied: Mounting hardware included		2025-08-02 15:33 change without not

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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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

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