



Sick Sensor Intelligence.

**SENSORS FOR IMI NORGREN SLOT** 

SENSORS FOR IMI NORGREN SLOT



### Ordering information

Туре	Part no.
RZN-03ZUS-KP0	1117649

Other models and accessories -> www.sick.com/RZT7



### 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 <sup>1)</sup>

 $^{\mbox{1})}$  According to EN 60529.

Mechan		lootror	
NECHAL	10S/H	есног	IICS -

Supply voltage	5 V AC/DC 30 V AC/DC
Voltage drop	≤ 3.5 V
Continuous current I <sub>a</sub>	≤ 100 mA <sup>1)</sup>
Switching capacity	≤ 10 W
Protection class	III
Response sensitivity, typ.	3 mT
Overrun distance, typ.	10 mm
Reproducibility	$\leq$ 0.1 mT <sup>2)</sup>
Status indicator LED	Yes
Ambient operating temperature	-40 °C +80 °C
Shock and vibration resistance	50 g, 11 ms / 10 55 Hz, 1 mm
EMC	According to EN 60947-5-2
Connection type	Cable with connector M8, 3-pin, drag chain use, 0.3 m
Connection type Detail	
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

<sup>1)</sup> AC.

 $^{(2)}$  Supply voltage  $U_{\text{B}}$  and constant ambient temperature Ta.

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Torsion cycles	> 2,000,000
Cable outlet	Axial
Material	
Housing	Plastic
Cable	PUR
Items supplied	1 x mounting clip plugged in

<sup>1)</sup> AC.

 $^{\rm 2)}$  Supply voltage  ${\rm U}_{\rm B}$  and constant ambient temperature Ta.

#### Safety-related parameters

MTTF <sub>D</sub>	23,876 years
DC <sub>avg</sub>	0 %
T <sub>M</sub> (mission time)	20 years
B <sub>10d</sub>	790,000 Switching cycles <sup>1)</sup>

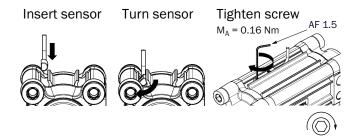
 $^{(1)}$  Only for devices containing electro-mechanical components. In this case, the MTTF<sub>D</sub> value of the entire device must be calculated from the given B<sub>10D</sub> value, the number of switching cycles and the given MTTF<sub>D</sub> value.

#### 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
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

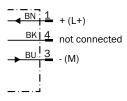
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#### Installation note



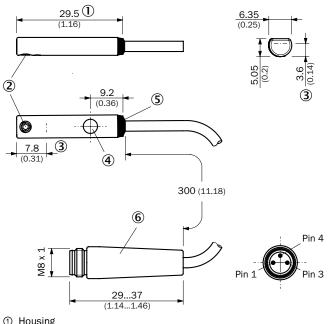
#### **Connection diagram**

Cd-246



#### Dimensional drawing (Dimensions in mm (inch))

Cable with connector M8



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

Recommended accessories

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

	Brief description	Туре	Part no.		
Brackets for	Brackets for cylinder sensors				
P	Mounting clip for round body cylinder, clamping range 9.2 mm to 10 mm, for piston rod diameter of 8 mm, plastic, mounting hardware included	BEF-S-R1-08	7902337		
	Mounting clip for round body cylinder, clamping range 10.9 mm to 12 mm, for piston rod diameter of 10 mm, plastic, mounting hardware included	BEF-S-R1-10	7901753		
	Mounting clip for round body cylinder, clamping range 12.9 mm to 41 mm, for piston rod diameter of 12 mm, plastic, mounting hardware included	BEF-S-R1-12	7901754		
	Mounting clip for round body cylinder, clamping range 16.9 mm to 18 mm, for piston rod diameter of 16 mm, plastic, mounting hardware included	BEF-S-R1-16	7901755		
	Mounting clip for round body cylinder, clamping range 21 mm to 22 mm, for piston rod diameter of 20 mm, plastic, mounting hardware included	BEF-S-R1-20	7901756		
	Mounting clip for round body cylinder, clamping range 26.1 mm to 27.2 mm, for piston rod diameter of 25 mm, plastic, mounting hardware included	BEF-S-R1-25	7901757		
	Mounting clip for round body cylinder, clamping range 33 mm to 35 mm, for piston rod diameter of 32 mm, plastic, mounting hardware included	BEF-S-R1-32	7901758		
	Mounting clip for round body cylinder, clamping range 41.4 mm to 42.5 mm, for piston rod diameter of 40 mm, plastic, mounting hardware included	BEF-S-R1-40	7901759		
	Mounting clip for round body cylinder, clamping range 52.5 mm to 54 mm, for piston rod diameter of 50 mm, plastic, mounting hardware included	BEF-S-R1-50	7901760		
	Mounting clip for round body cylinder, clamping range 66 mm to 67 mm, for piston rod diameter of 63 mm, plastic, mounting hardware included	BEF-S-R1-63	7901761		
Others					
N.	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF8U13- 020UA1XLEAX	2094782		
×.	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 020VA1XLEAX	2095860		
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 3 m, 3-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF8U13- 030UA1XLEAX	2094787		
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YF8U13- 050UA1XLEAX	2094788		
N.	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U13- 050VA1XLEAX	2095884		

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	Brief description	Туре	Part no.
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PUR, halogen-free</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with oils and lubricants, Drag chain operation, Robot</li> </ul>	YG8U13- 020UA1XLEAX	2094794
5	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YG8U13- 020VA1XLEAX	2096165
5	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 3-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YG8U13- 050VA1XLEAX	2096166
	<ul> <li>Connection type head A: Male connector, M8, 3-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm<sup>2</sup> 0.5 mm<sup>2</sup></li> </ul>	STE-0803-G	6037322
	<ul> <li>Connection type head A: Female connector, M8, 3-pin, straight, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Screw-type terminals</li> <li>Permitted cross-section: 0.14 mm<sup>2</sup> 0.5 mm<sup>2</sup></li> </ul>	DOS-0803-G	7902077
×.	<ul> <li>Connection type head A: Female connector, M8, 3-pin, angled, A-coded</li> <li>Description: Unshielded</li> <li>Connection systems: Solder connection</li> <li>Permitted cross-section: ≤ 0.25 mm<sup>2</sup></li> </ul>	DOS-0803-W	7902078

# 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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