



# **Datasheet**

# RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066159







### Detailed technical data

#### Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M12 x 1
Diameter	Ø 12 mm
Sensing range S <sub>n</sub>	8 mm
Safe sensing range S <sub>a</sub>	6.48 mm
Installation type	Non-flush
Switching frequency	2,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sub>1)</sub>

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

# Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤10%
Voltage drop	≤ 2 V 1)
Current consumption	10 mA 2)
Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	≤ 2 % 3) 4)
Temperature drift (of S <sub>r</sub> )	± 10 %





EMC	According to EN 60947-5-2
Continuous current Ia	≤ 200 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms/10 Hz 55 Hz, 1 mm
Ambient operating temperature	−25 °C +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	46 mm
Thread length	24 mm
Tightening torque, max.	≤ 12 Nm
Items supplied	Mounting nut, brass, nickel-plated (2x)
UL File No.	NRKH.E181493

<sup>1)</sup> At I a max.

# Safety-related parameters

MTTFD	1,735 years
DCavg	0%

#### **Reduction factors**

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (Al)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.4

#### Installation note

Remark	Associated graphic see "Installation"
A	12 mm
В	24 mm
С	12 mm
D	24 mm
E	16 mm
F	64 mm





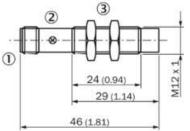
<sup>2)</sup> Without load.

<sup>3)</sup> Ub and Ta constant.

<sup>4)</sup> Of Sr.

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

Short-body housing, connector, non-flush



- 1 Connection
- 2 Indication LED
- 3 Fastening nuts (2x); width across 17, metal

#### Connection type



#### Connection diagram

#### Instruction for installation

Non-flush installation

