

**Datasheet**

# RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066124





Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard design
Thread size	M4 x 0.5
Diameter	Ø 4 mm
Sensing range $S_n$	0.6 mm
Safe sensing range $S_a$	0.486 mm
Installation type	Flush
Switching frequency	+ 5,000 Hz
Connection type	Cable, 3-wire, 2 m <sup>1)</sup>
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>2)</sup>

1) Do not bend below 0 °C.

2) According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 20 % <sup>1)</sup>
Voltage drop	≤ 2 V <sup>2)</sup>
Current consumption	10 mA <sup>3)</sup>
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 10 %
Reproducibility	≤ 2 % <sup>4)</sup>

Temperature drift (of $S_r$ )	≤ 10 %
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 2)
Continuous current $I_a$	≤ 100 mA
Cable material	PUR
Conductor size	0.14 mm <sup>2</sup>
Cable diameter	∅ 2.5 mm
Short-circuit protection	✓
Reverse polarity protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, E130i
Housing length	22 mm
Thread length	20 mm
Tightening torque, max.	≤ 0.8 Nm
Items supplied	Mounting nut, V2A stainless steel (2x)
UL File No.	NRKH.E191603

1) Of  $V_s$ .

2) With  $I_a = 100$  mA.

3) Without load.

4)  $U_b = 20$  V DC ... 30 V DC,  $T_a = 23$  °C ± 5 °C.

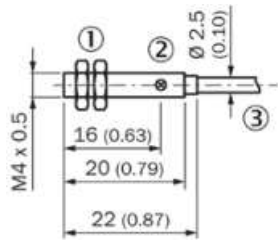
### Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.7
Aluminum (Al)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.5

### Installation note

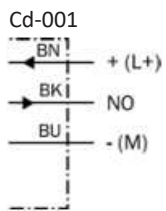
Remark	Associated graphic see "Installation"
B	1 mm
C	4 mm
D	1.8 mm
E	0 mm
F	3 mm

Dimensional drawing (Dimensions in mm (inch))



- 1 Fastening nuts (2 x); 6 mm hex, stainless steel
- 2 Indication LED
- 3 Connection

Connection diagram



Instruction for installation

