

Datasheet

RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066129





Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard design
Thread size	M5 x 0.5
Diameter	Ø 5 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	3,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

1) According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Current consumption	10 mA ³⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 10 %
Reproducibility	≤ 2 % ⁴⁾
Temperature drift (of S_r)	≤ 10 %
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 3)
Cable material	PUR
Conductor size	0.14 mm ²

Cable diameter	Ø 2.9 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	25 mm
Thread length	23 mm
Tightening torque, max.	≤ 1.8 Nm
Items supplied	Mounting nut, V2A stainless steel (2x)
UL File No.	NRKH.E191603

1) Of V s.

2) With $I_a = 200$ mA.

3) Without load.

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

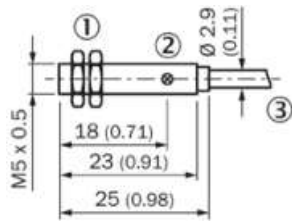
Reduction factors

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

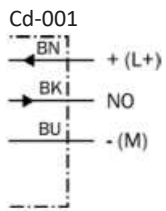
Remark	Associated graphic see "Installation"
A	0 mm
B	4 mm
C	5 mm
D	4.5 mm
E	0 mm
F	12 mm

Dimensional drawing (Dimensions in mm (inch))



- 1 Fastening nuts (2 x); 7 mm hex, stainless steel
- 2 Indication LED
- 3 Connection

Connection diagram



Instruction for installation

Flush installation

