

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 $I_a = 200 \text{ mA}$.

3) Without load.

4) $U_b = 20 \text{ V DC} \dots 30 \text{ V DC}$, $T_a = 23 \text{ °C} \pm 5 \text{ °C}$.

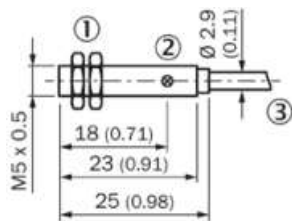
Reduction factors

| | |
|----------------------------|--|
| 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 |

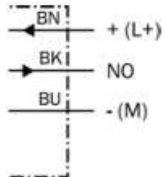
Dimensional drawing (Dimensions in mm (inch))



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

Connection diagram

Cd-001



Instruction for installation

Flush installation

