



Datasheet RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066164



INDUCTIVE PROXIMITY SENSORS





Detailed technical data

Features

| Housing | Cylindrical thread design |
|-----------------------|---------------------------|
| Housing | Short-body |
| Thread size | M18 x 1 |
| Diameter | Ø 18 mm |
| | |
| Sensing range Sn | 20 mm |
| Safe sensing range Sa | 16.2 mm |
| Installation type | Non-flush |
| Switching frequency | 200 Hz |
| Connection type | Male connector M12, 4-pin |
| Switching output | PNP |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67 ₁₎ |
| Special features | Triple sensing range |

1) 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 | 1 % 15 % |
| Reproducibility | ≤ 5 % 3) 4) |





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| Temperature drift (of S _r) | ± 10 % |
|--|---|
| EMC | According to EN 60947-5-2 |
| Continuous current la | ≤ 200 mA |
| Current consumption, no load | ≤10 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 |
| Ambient storage temperature | −25 °C +75 °C |
| Housing material | Brass, nickel-plated |
| Sensing face material | Plastic, PA 66 |
| Housing length | 50 mm |
| Thread length | 23 mm |
| Tightening torque, max. | ≤ 30 Nm |
| Items supplied | Mounting nut, brass, nickel-plated (2x) |
| UL File No. | NRKH.E181493 |

¹⁾ At I a max.

Safety-related parameters

| MTTF□ | 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. 0.78 |
| Aluminum (Al) | Approx. 0.43 |
| Copper (Cu) | Approx. 0.37 |
| Brass (Br) | Approx. 0.4 |

Installation note

| Remark | Associated graphic see "Installation" |
|--------|---------------------------------------|
| Α | 30 mm |
| В | 86 mm |
| С | 18 mm |
| D | 60 mm |
| E | 20 mm |
| F | 200 mm |





²⁾ Without load.

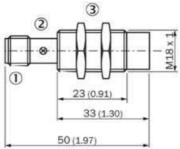
³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

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Dimensional drawing (Dimensions in mm (inch))

Short-body housing, connector, non-flush

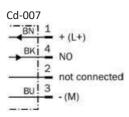


- 1 Connection
- 2 Indication LED
- 3 Fastening nuts (2x); width across 24, metal

Connection type



Connection diagram



Instruction for installation

Non-flush installation

