



Inductive proximity sensors
Cylindrical smooth housing, IH06

IH06-02BPS-VT1



Model Name > [IH06-02BPS-VT1](#)
Part No. > [7900179](#)



At a glance

- Operating distance of up to 4 mm
- High switching frequency
- Short-circuit protection (pulsed)
- IP 67 enclosure rating
- Stainless steel housing
- LED status indicator

Your benefits

- Reliable detection of high-speed processes increases machine throughput
- High-visibility indicator LED ensures simple monitoring of the operational state
- High resistance to shock and vibrations increases service life and reduces maintenance and replacement costs



Features

| | |
|---------------------------|---------------------|
| Design: | Cylindrical |
| Diameter: | 6.5 mm |
| Sensing range Sn: | 2 mm |
| Assured sensing range Sa: | 1.62 mm |
| Installation type: | Flush |
| Switching frequency: | 5,000 Hz |
| Output type: | PNP |
| Output function: | NO |
| Electrical wiring: | DC 3-wire |
| Enclosure rating: | IP 67 ¹⁾ |
| Electrical connection: | Connector M8, 3-pin |
| Housing: | Standard |

¹⁾ According to EN 60529

Mechanics/electronics

| | |
|---------------------------------|-----------------------|
| Supply voltage: | 10 V DC ... 30 V DC |
| Residual ripple: | ≤ 10 % ¹⁾ |
| Voltage drop: | ≤ 1.8 V ²⁾ |
| Power consumption: | ≤ 10 mA ³⁾ |
| Time delay before availability: | ≤ 50 ms |
| Hysteresis: | 1 % ... 20 % |

| | |
|---------------------------------|---|
| Repeatability: | ≤ 5 % ^{4) 5)} |
| Temperature drift (of Sr): | ± 10 % |
| EMC: | According to EN 60947-5-2 |
| Output current I _a : | ≤ 200 mA |
| Short-circuit protection: | ✓ |
| Reverse polarity protection: | ✓ |
| Power-up pulse protection: | ✓ |
| Shock and vibration resistance: | 30 g, 11 ms/10 ... 55 Hz, 1 mm |
| Ambient temperature operation: | -25 °C ... 70 °C |
| Housing material: | Stainless steel, Stainless steel (V2A, 304) |
| Housing cap material: | Plastic, PBT |
| Housing length: | 50 mm |

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 ⁵⁾ Of Sr

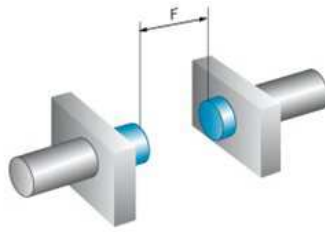
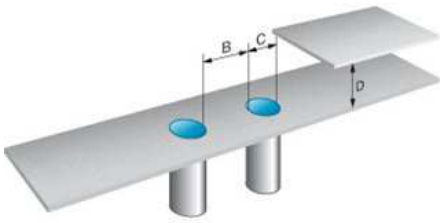
Reduction factors

| | |
|-----------------------------|--|
| Note: | The values are reference values which may vary |
| Stainless steel (V2A, 304): | Ca. 0.6 |
| Copper (Cu): | Ca. 0.1 |
| Aluminum (Al): | Ca. 0.17 |
| Brass (Br): | Ca. 0.25 |

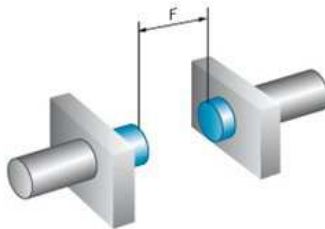
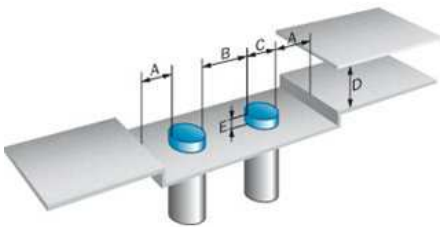
Installation note

| | |
|---------|---------------------------------------|
| A: | 3.25 mm |
| B: | 6,5 mm |
| C: | 6,5 mm |
| D: | 6 mm |
| E: | 4 mm |
| F: | 16 mm |
| Remark: | Associated graphic see "Installation" |

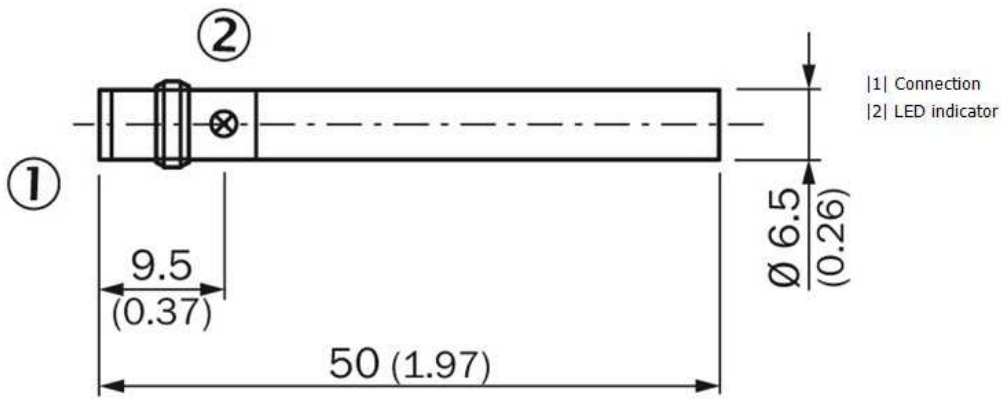
Installation note



Installation note non-flush installation

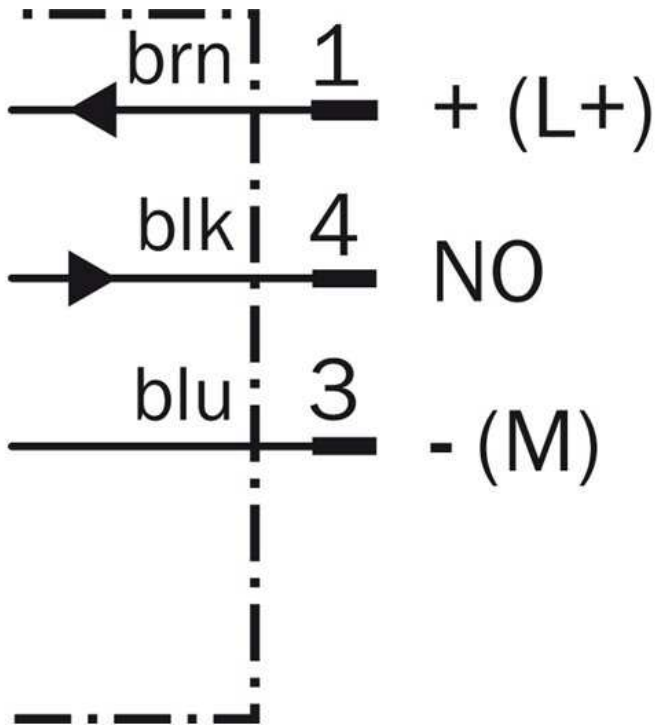


Dimensional drawing

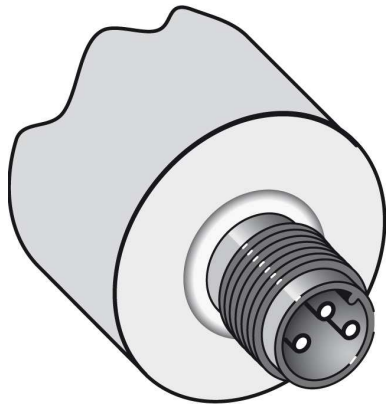


All dimensions in mm (inch)

Connection diagram



Connection type



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