



Inductive proximity sensors Cylindrical threaded housing, IM05

IM05-1B5POVU2S



Model Name > IM05-1B5POVU2S
Part No. > 6049736



At a glance

- Operating distance up to 1,5 mm
- Small housing sizes and low weight
- Integrated LED indicator and snubber circuit
- Rugged stainless steel housing
- Thread sizes M5 available

Your benefits

- Trouble-free installation in space-critical applications provides a high degree of design freedom, saving machine space
- Reliable detection of rapid handling and assembly processes increases throughput
- High-visibility indicator LED for simple monitoring of operational state reduces commissioning time
- High positioning accuracy increases machine throughput
- High resistance to shock and vibrations reduces maintenance costs



Features

Housing:	Cylindrical
Thread size:	M5 x 0.5
Sensing range Sn:	1.5 mm
Assured sensing range Sa:	1.215 mm
Installation type:	Flush
Switching frequency:	3,000 Hz
Output type:	PNP
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Connection type:	Cable, 3-wire, 2 m

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 20 % ¹⁾
Voltage drop:	≤ 2 V ²⁾
Power consumption:	≤ 10 mA ³⁾

Time delay before availability:	≤ 10 ms
Hysteresis:	1 % ... 10 %
Repeatability:	≤ 2 % ⁴⁾
Temperature drift (% of Sr):	≤ 10 %
EMC:	According to EN 60947-5-2
Output current I _a :	≤ 200 mA
Cable material:	PUR
Conductor cross-section:	0.14 mm ²
Cable diameter:	3.5 mm
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	-
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 70 °C
Housing material:	Stainless steel
Housing cap material:	Plastic, PA 66
Housing length:	25 mm
Thread length:	20 mm
Tightening torque, max.:	≤ 1.8 Nm

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

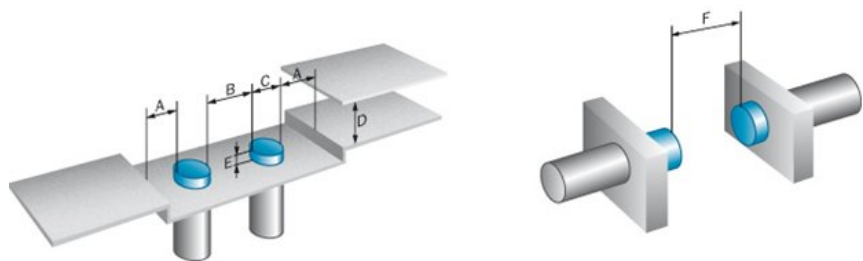
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.75
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.4
Brass (Br):	Ca. 0.5

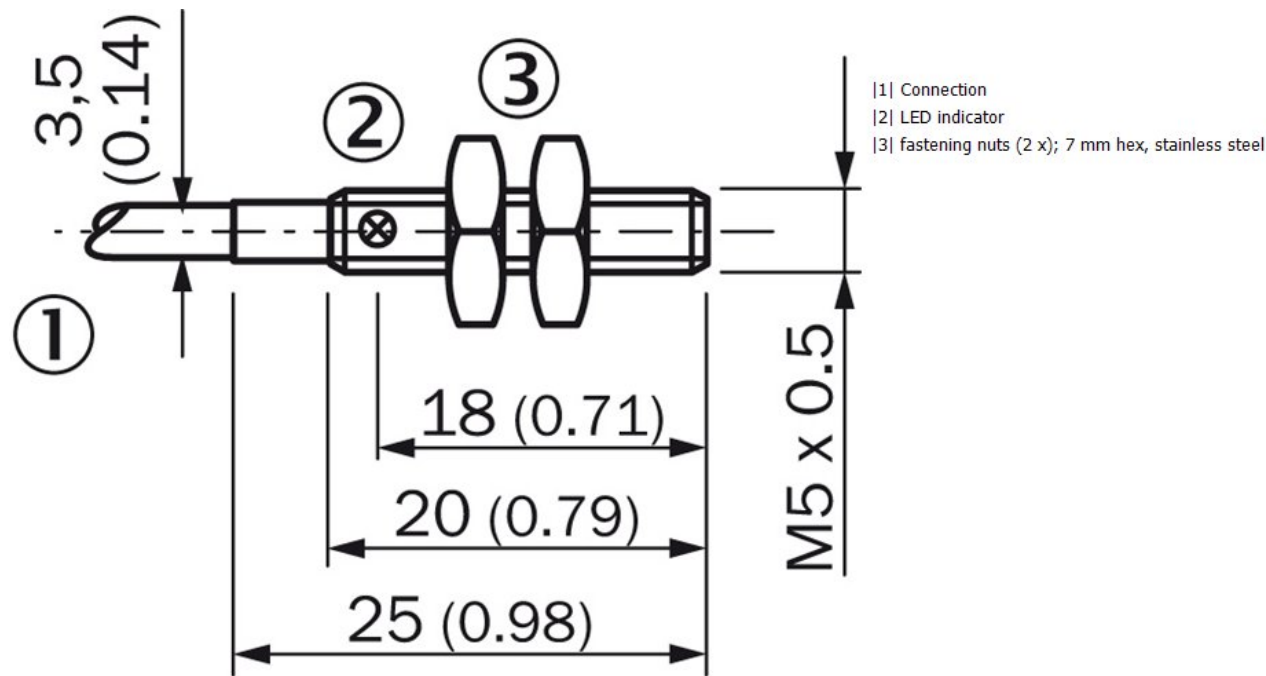
Installation note

E:	0 mm
Remark:	Associated graphic see "Installation"

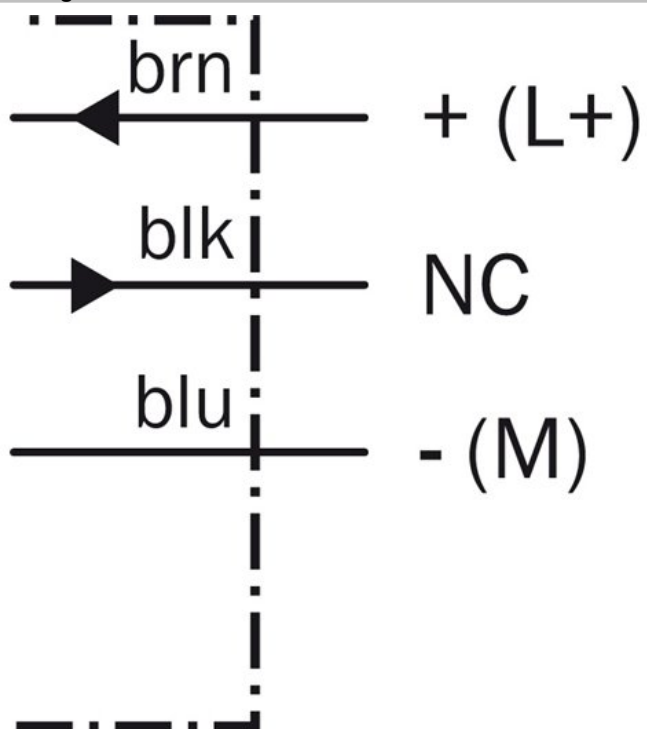
Installation note



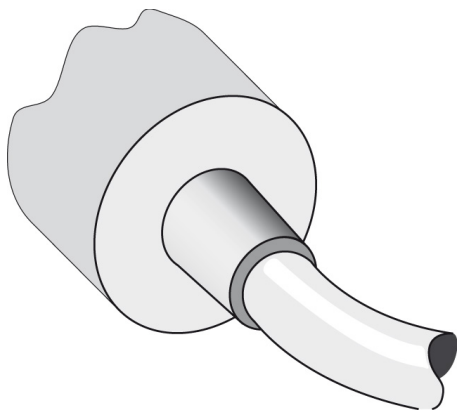
Dimensional drawing



Connection diagram



Connection type



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