

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical threaded housing, IM05

IM05-0B8PS-ZWB



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Cylindrical threaded housing, IM05

Model Name > IM05-0B8PS-ZWB
Part No. > 6021575



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

Design:	Cylindrical
Thread size:	M5 x 0.5
Sensing range Sn:	0.8 mm
Assured sensing range Sa:	0.648 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:	Cable, 3-wire, 5 m

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 20 % [1]
Voltage drop:	≤ 2 V [2]
Power consumption:	≤ 10 mA [3]

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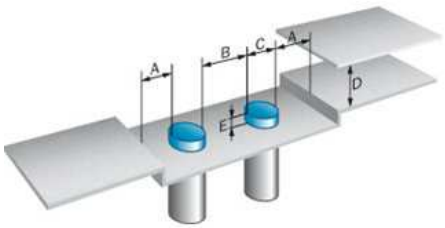
Time delay before availability:	≤ 10 ms
Hysteresis:	1 % ... 10 %
Repeatability:	≤ 1.5 % [4]
Temperature drift (of Sr):	≤ 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 200 mA
Cable material:	PUR
Conductor cross-section:	0.14 mm²
Cable diameter:	3.5 mm
Short-circuit protection:	✓
Reverse polarity 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
Housing cap material:	Plastic, PA 66
Housing length:	25 mm
Thread length:	20 mm
Tightening torque, max.:	≤ 1.5 Nm

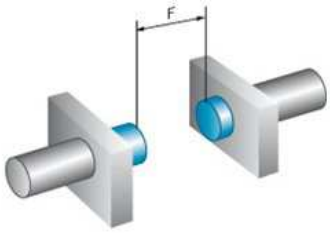
[1] Of V_S [2] With Ia = 200 mA [3] Without load [4] Ub = 20 V DC ... 30 V DC, Ta = 23 °C ± 5 °C

Installation note

Remark:	Associated graphic see "Installation"

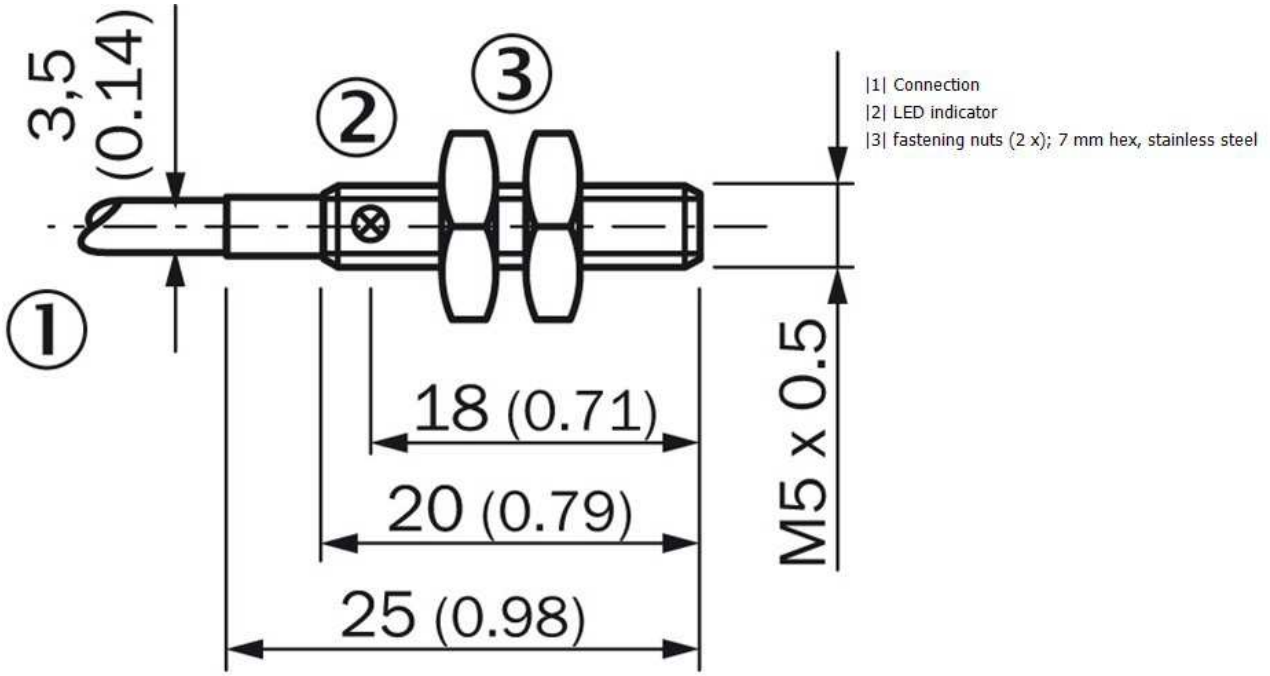
Installation note



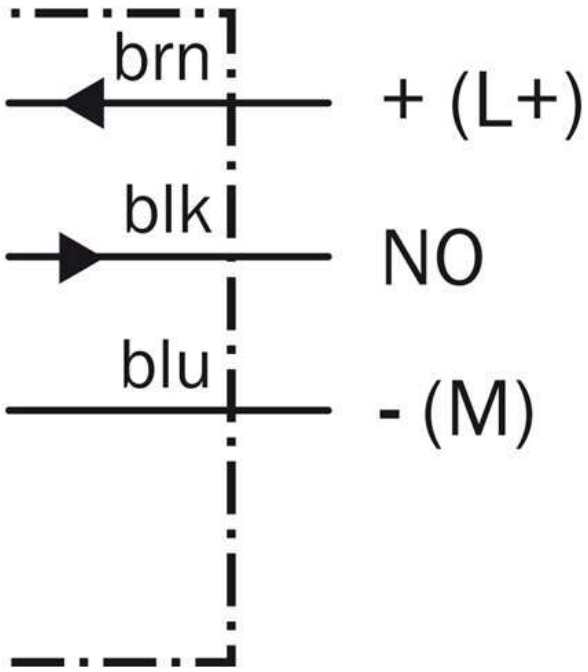


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Dimensional drawing

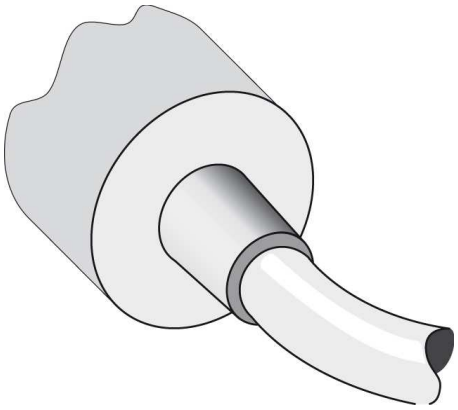


Connection diagram



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Connection type



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