

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical threaded housing, IM08

IM08-1B5PS-ZWK



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Inductive proximity sensors
Cylindrical threaded housing, IM08

Model Name > IM08-1B5PS-ZWK
Part No. > 6020111





At a glance

- Size M8
- IP 67 enclosure rating
- Operating temperature from -25° C to +70° C

Your benefits

- Reduced machine downtime
- Reduced mechanical damage
- Fewer maintenance costs due to longer service life
- High resistance to shock and vibrations

Features

Design:	Cylindrical
Thread size:	M8 x 1
Sensing range Sn:	1.5 mm
Assured sensing range Sa:	1.22 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, 2 m
Housing:	Short-body

[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]
Time delay before availability:	≤ 10 ms
Hysteresis:	≤ 10 %
Repeatability::	≤ 5 % [4] [5]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2

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Output current Ia:	≤ 200 mA
Cable material:	PVC
Conductor cross-section:	0.14 mm²
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:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	16 mm
Thread length:	16 mm
Tightening torque, max.:	4 Nm

[1] Of V_S [2] At I_a max [3] Without load [4] Ub and Ta constant [5] Of Sr

Reduction factors

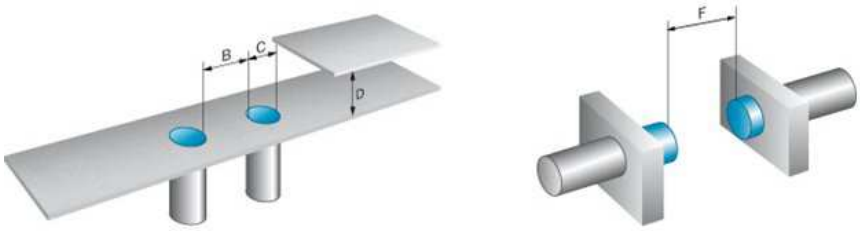
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45
Brass (Br):	Ca. 0.5

Installation note

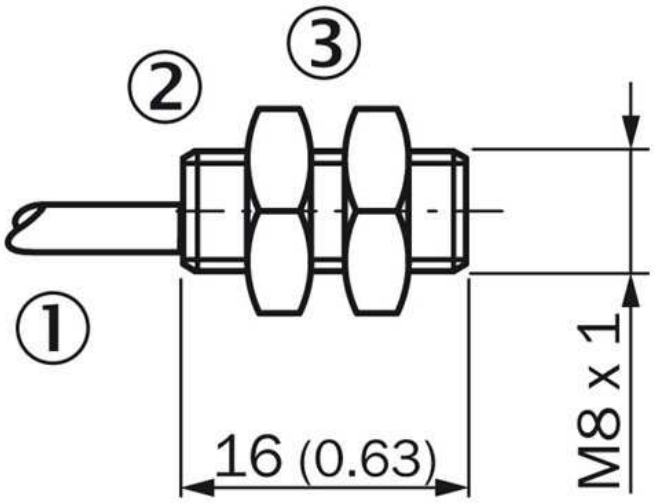
A:	1.5 mm
B:	2 mm
C:	8 mm
D:	4.5 mm
E:	0 mm
F:	12 mm
Remark:	Associated graphic see "Installation"

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Installation note



Dimensional drawing

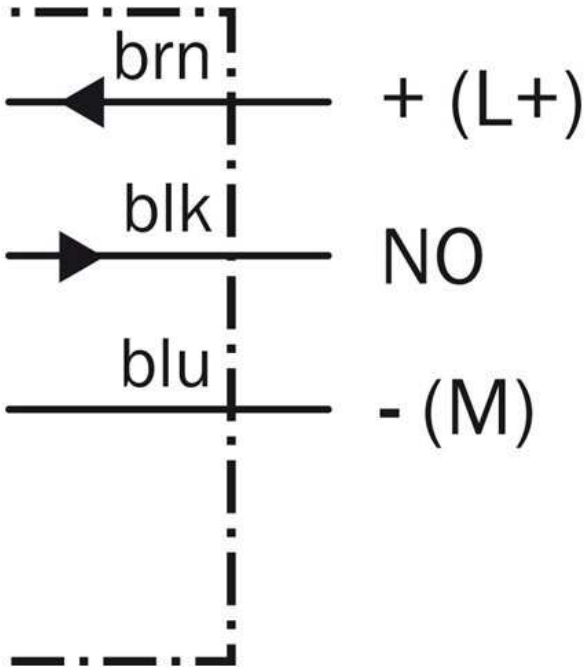


|1| Connection
|2| LED indicator
|3| fastening nuts (2 x); width across 13, metal

All dimensions in mm (inch)

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Connection diagram



Connection type



A4 4c int43

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