



Inductive proximity sensors
Cylindrical threaded housing, IM08

IM08-1B5NS-ZWK



Model Name > **IM08-1B5NS-ZWK**
Part No. > **6020173**



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:	NPN
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

Output current I_a :	≤ 200 mA
Cable material:	PVC
Conductor cross-section:	0.14 mm ²
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) U_b and T_a constant 5) Of S_r

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

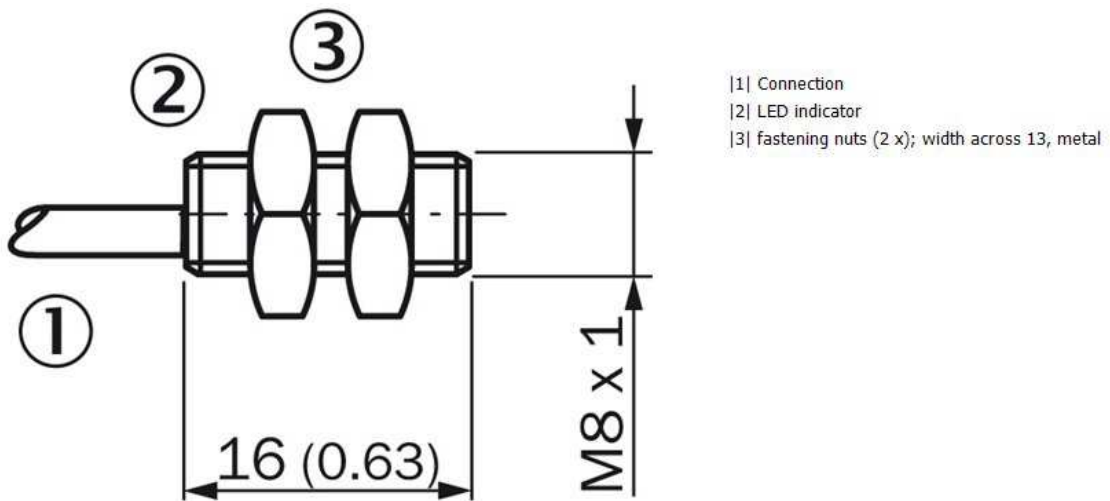
Installation note

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"

Installation note

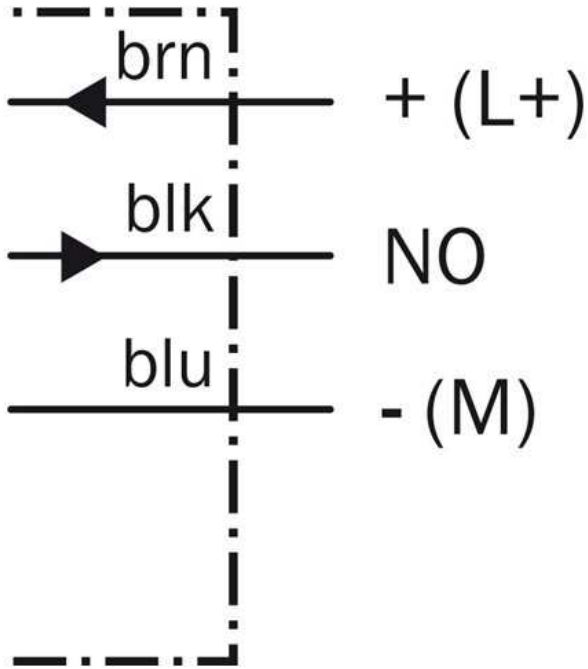


Dimensional drawing

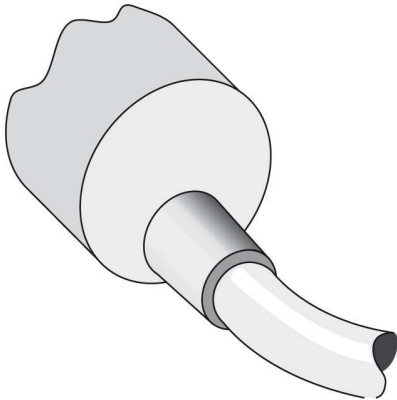


All dimensions in mm (inch)

Connection diagram



Connection type



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