



Inductive proximity sensors  
Cylindrical threaded housing, IM18

IM18-05BUO-ZU0



**Model Name** > [IM18-05BUO-ZU0](#)  
**Part No.** > [7902123](#)



**At a glance**

- Size M18
- IP 67 enclosure rating
- Operating temperature from -25° C to +75° 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:	M18 x 1
Sensing range Sn:	5 mm
Assured sensing range Sa:	4.05 mm
Installation type:	Flush
Switching frequency::	100 Hz, 25 Hz <sup>1) 2)</sup>
Output function:	NC
Electrical wiring:	AC/DC 2-wire
Enclosure rating:	IP 67 <sup>3)</sup>
Electrical connection:	Cable, 2-wire, 2 m
Housing:	Standard

<sup>1)</sup> AC <sup>2)</sup> DC <sup>3)</sup> According to EN 60529

**Mechanics/electronics**

Supply voltage:	20 V AC/DC ... 250 V AC/DC
Voltage drop:	≤ 6.5 V AC ≤ 6 V DC
Time delay before availability:	≤ 8 ms
Hysteresis:	1 % ... 15 %
Repeatability::	≤ 10 % <sup>1) 2)</sup>
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 100 mA (DC), ≤ 250 mA (AC (+80 °C)), ≤ 350 mA (AC (+50 °C))
Off-state current:	≤ 0.8 mA (DC 24 V), ≤ 1.3 mA (AC 110 V), ≤ 2.5 mA (AC 250 V)

Load resistance, min.:	5 mA
Short-time withstand current:	2.2 A <sup>3)</sup>
Cable material:	PUR
Conductor cross-section:	0.5 mm <sup>2</sup>
Wire-break protection:	0
Short-circuit protection <sup>4)</sup> :	-
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 ... +80 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic
Housing length:	80 mm
Thread length:	58 mm
Tightening torque, max.:	≤ 35 Nm
Protection class:	II

<sup>1)</sup> Ub and Ta constant <sup>2)</sup> Of Sr <sup>3)</sup> 20 ms/0.5 Hz <sup>4)</sup> Miniature fuse as per IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow)

### Reduction factors

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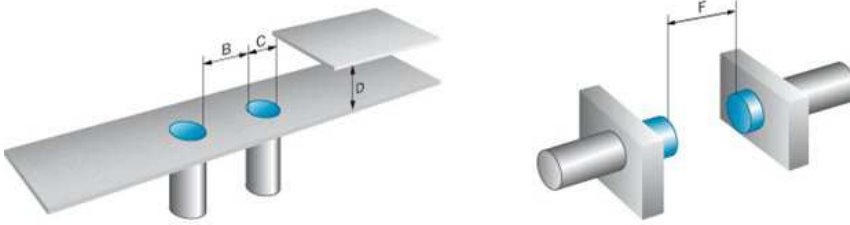
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45

### Installation note

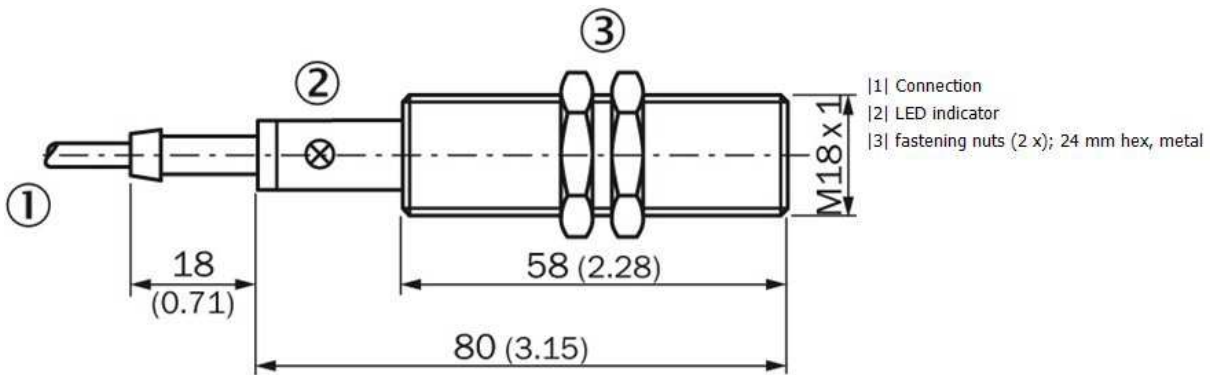
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A:	0 mm
B:	18 mm
C:	18 mm
D:	15 mm
E:	0 mm
F:	40 mm
Remark:	Associated graphic see "Installation"

## Installation note



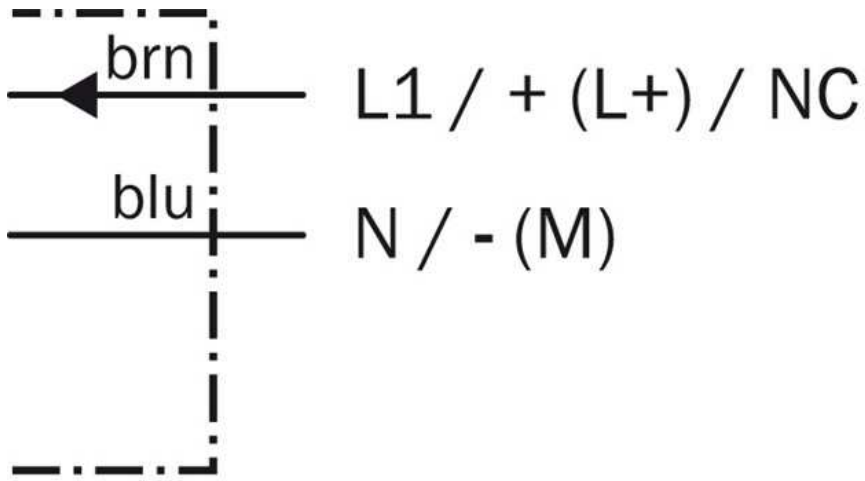
## Dimensional drawing



All dimensions in mm (inch)

Connection diagram

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Miniature fuse to IEC60127-2  
sheet 1,  $\leq 2$  A (fast acting)

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