


ONLINE DATA SHEET
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# Inductive proximity sensors
# Cylindrical threaded housing, IM18

IM18-05BPS-ZC1



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# Cylindrical threaded housing, IM18

**Model Name** > IM18-05BPS-ZC1
**Part No.** > 6011991





**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 |
| Installation type: | Flush |
| Switching frequency: | 600 Hz |
| Output type: | PNP |
| Output function: | NO |
| Electrical wiring: | DC 3-wire |
| Enclosure rating: | IP 67 [1] |
| Electrical connection: | Connector M12, 4-pin |
| Housing: | Standard |

[1] According to EN 60529

## Mechanics/electronics

| | |
|---|---|
| Supply voltage: | 10 V DC ... 30 V DC |
| Residual ripple: | ≤ 10 % |
| Voltage drop: | ≤ 1 V [1] |
| Power consumption: | ≤ 20 mA [2] |
| Time delay before availability: | ≤ 100 ms |
| Hysteresis: | 2 % ... 10 % |
| Repeatability:: | ≤ 2 % [3] [4] |
| Temperature drift (of Sr): | ± 10 % |
| EMC: | According to EN 60947-5-2 |
| Output current Ia: | ≤ 400 mA |


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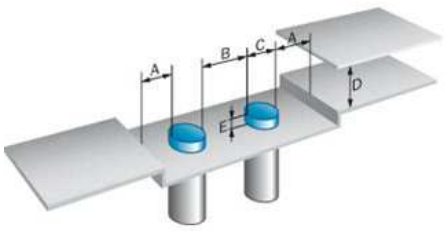
| | |
|---|---|
| Wire-break protection: | 0 |
| Short-circuit protection: | ✓ |
| Reverse polarity protection: | ✓ |
| Power-up pulse protection: | ✓ |
| Shock and vibration resistance: | 30 g, 11 ms／10 ... 55 Hz, 1 mm |
| Ambient temperature operation: | -25 °C ... 70 °C |
| Housing material: | Metal, Nickel-plated brass |
| Housing cap material: | Plastic |
| Housing length: | 64 mm |
| Thread length: | 48 mm |
| Tightening torque, max.: | 30 Nm |

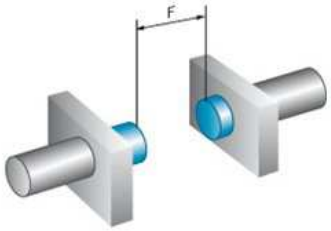
[1] At $I_a$ max [2] Without load [3] Ub and Ta constant [4] Of Sr

## Installation note

| | |
|---|---|
| A: | 9 mm |
| B: | 18 mm |
| C: | 18 mm |
| D: | 15 mm |
| E: | 3.6 mm |
| F: | 40 mm |
| Remark: | Associated graphic see "Installation" |

## Installation note

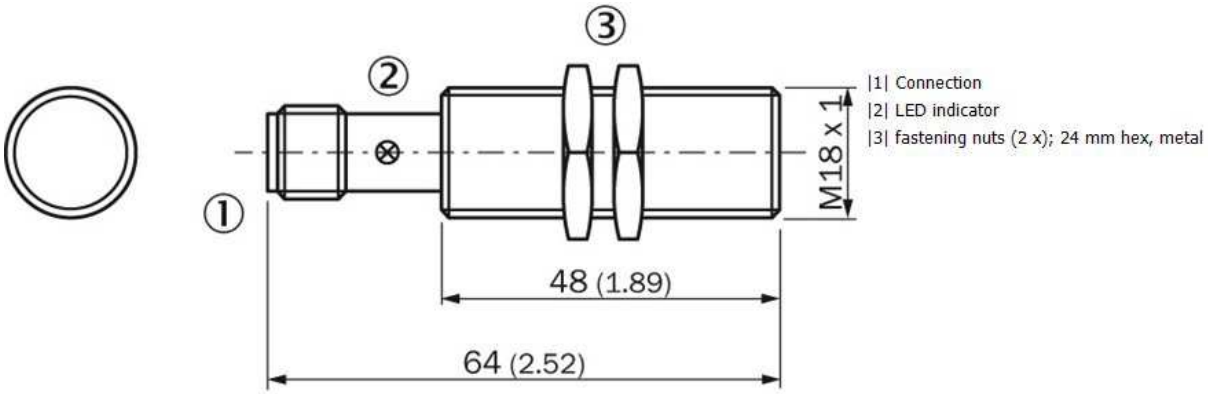




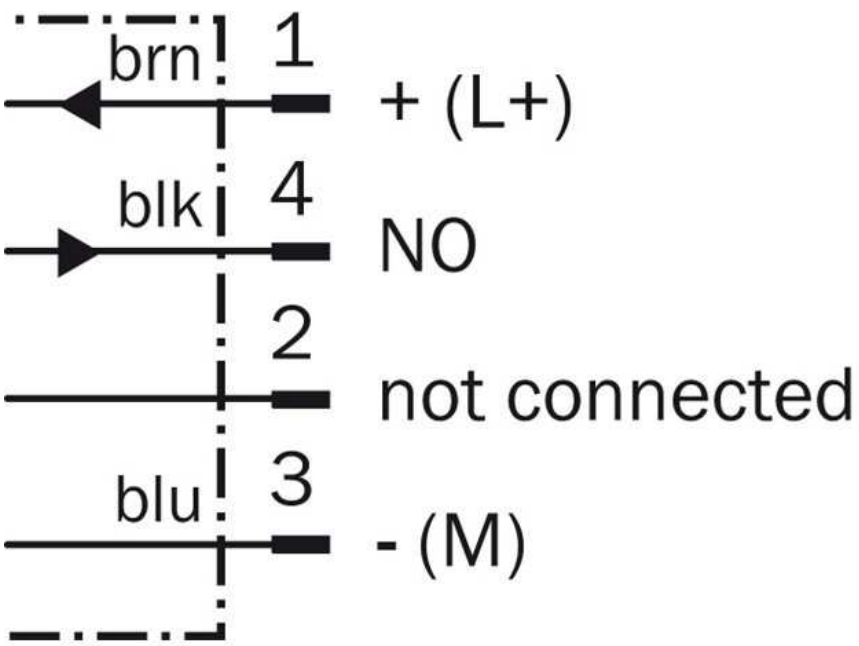
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## Dimensional drawing




All dimensions in mm (inch)

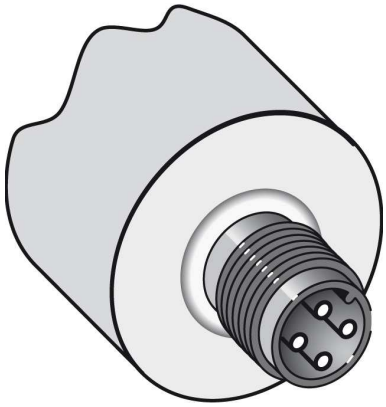
## Connection diagram





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## Connection type




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A4 4c int43

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