



## Inductive proximity sensors Cylindrical threaded housing, IM18

IM18-05BCP-ZWX



**Model Name** > [IM18-05BCP-ZWX](#)  
**Part No.** > [6026520](#)



#### 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

|                        |                     |
|------------------------|---------------------|
| Housing:               | Cylindrical         |
| Thread size:           | M18 x 1             |
| Sensing range Sn:      | 5 mm                |
| Installation type:     | Flush               |
| Switching frequency:   | 300 Hz              |
| Output type:           | PNP or NPN          |
| Output function:       | NC or NO            |
| Electrical wiring:     | DC 4-wire           |
| Enclosure rating:      | IP 67 <sup>1)</sup> |
| Connection type:       | Cable, 4-wire, 9 m  |
| Housing:               | Standard            |
| Output characteristic: | Wire configurable   |

<sup>1)</sup> According to EN 60529

#### Mechanics/electronics

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Supply voltage:                 | 10 V DC ... 30 V DC               |
| Ripple:                         | ≤ 10 %                            |
| Voltage drop:                   | ≤ 1.2 V <sup>1)</sup>             |
| Power consumption:              | ≤ 30 mA <sup>2)</sup>             |
| Time delay before availability: | ≤ 200 ms                          |
| Hysteresis:                     | 2 % ... 10 %                      |
| Repeatability:                  | ≤ 5 % <sup>3)</sup> <sup>4)</sup> |
| Temperature drift (% of Sr):    | ± 10 %                            |
| EMC:                            | According to EN 60947-5-2         |

|                                 |                                |
|---------------------------------|--------------------------------|
| Output current I <sub>a</sub> : | ≤ 100 mA                       |
| Cable material:                 | PVC                            |
| Conductor cross-section:        | 0.34 mm <sup>2</sup>           |
| Wire-break protection:          | 0                              |
| Short-circuit protection:       | ✓                              |
| Reverse polarity protection:    | ✓                              |
| Power-up pulse protection:      | ✓                              |
| Shock/vibration:                | 30 g, 11 ms/10 ... 55 Hz, 1 mm |
| Ambient operating temperature:  | -25 °C ... 70 °C               |
| Housing material:               | Metal, Nickel-plated brass     |
| Housing cap material:           | Plastic                        |
| Housing length:                 | 60 mm                          |
| Thread length:                  | 45 mm                          |
| Tightening torque, max.:        | ≤ 40 Nm                        |
| Special features:               | Shielded cable                 |

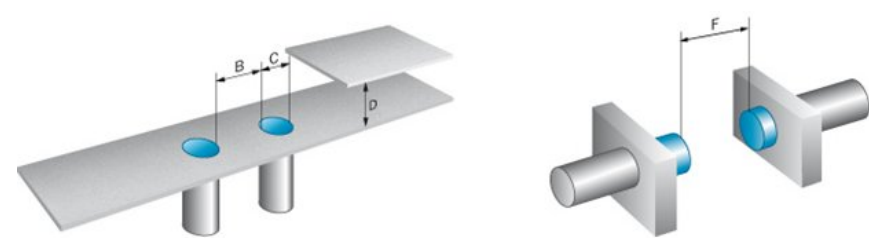
1) At I<sub>a</sub> max    2) Without load    3) U<sub>b</sub> and T<sub>a</sub> constant    4) Of S<sub>r</sub>

#### Installation note

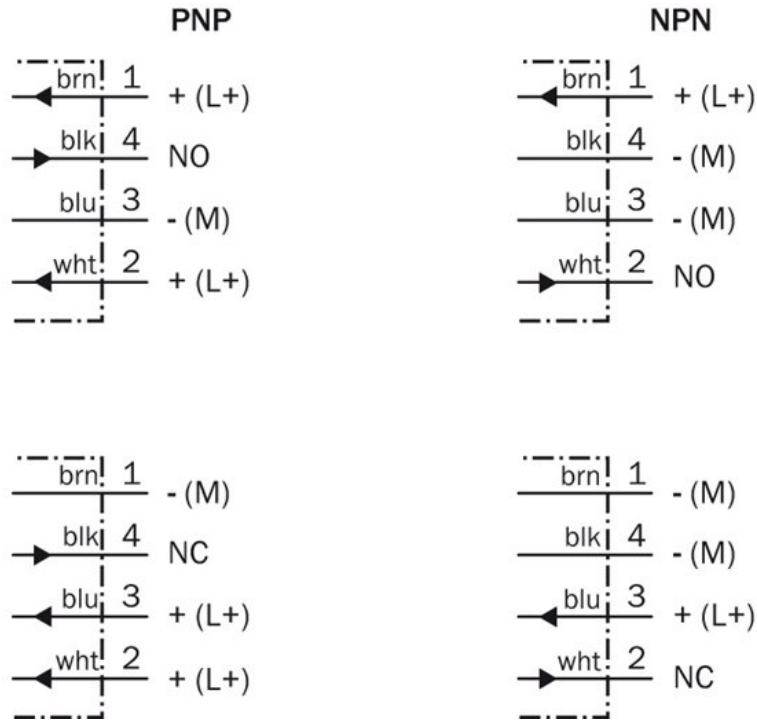
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|         |                                       |
|---------|---------------------------------------|
| A:      | 9 mm                                  |
| B:      | 18 mm                                 |
| C:      | 18 mm                      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

Installation note

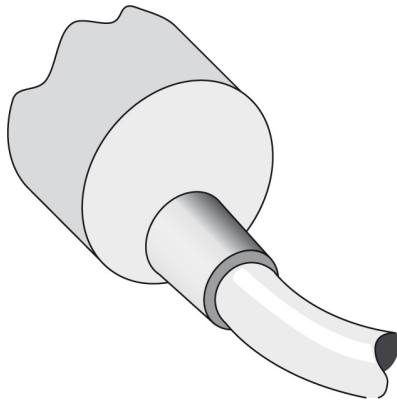


Connection diagram



## Connection type

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