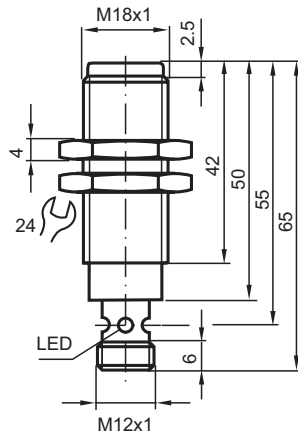


## Inductive sensor NMB10-18GM65-E2-C-V1

- 10 mm flush
- Stainless steel sensing face
- Increased operating distance
- Weld Immune



### Dimensions



### Technical Data

#### General specifications

|                             |       |                                         |
|-----------------------------|-------|-----------------------------------------|
| Switching function          |       | Normally open (NO)                      |
| Output type                 |       | PNP                                     |
| Rated operating distance    | $s_n$ | 10 mm                                   |
| Installation                |       | flush (Requirements: see drawing below) |
| Output polarity             |       | DC                                      |
| Assured operating distance  | $s_a$ | 0 ... 8.1 mm                            |
| Actuating element           |       | Ferrous and nonferrous targets          |
| Reduction factor $r_{Al}$   |       | 0.4                                     |
| Reduction factor $r_{Cu}$   |       | 0.25                                    |
| Reduction factor $r_{304}$  |       | 0.85                                    |
| Reduction factor $r_{St37}$ |       | 1                                       |
| Output type                 |       | 3-wire                                  |

#### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V DC             |
| Switching frequency         | $f$   | 0 ... 5 Hz                 |
| Hysteresis                  | $H$   | 3 ... 15 typ. 5 %          |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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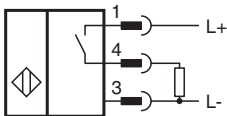
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**PEPPERL+FUCHS**

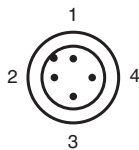
Technical Data

|                                                 |       |                                                                           |
|-------------------------------------------------|-------|---------------------------------------------------------------------------|
| Voltage drop                                    | $U_d$ | $\leq 2\text{ V}$                                                         |
| Operating current                               | $I_L$ | 0 ... 200 mA                                                              |
| Current consumption                             |       | $\leq 10\text{ mA}$                                                       |
| Off-state current                               | $I_r$ | $\leq 10\text{ }\mu\text{A}$                                              |
| No-load supply current                          | $I_0$ | $\leq 15\text{ mA}$                                                       |
| Operating voltage indicator                     |       | LED, green                                                                |
| Switching state indicator                       |       | Multihole-LED, yellow                                                     |
| Mag. Field strength, AC fields                  |       | 250 mT                                                                    |
| Mag. Field strength, DC fields                  |       | 250 mT                                                                    |
| <b>Functional safety related parameters</b>     |       |                                                                           |
| MTTF <sub>d</sub>                               |       | 906 a                                                                     |
| Mission Time (T <sub>M</sub> )                  |       | 20 a                                                                      |
| Diagnostic Coverage (DC)                        |       | 0 %                                                                       |
| <b>Compliance with standards and directives</b> |       |                                                                           |
| Standard conformity                             |       |                                                                           |
| Standards                                       |       | EN IEC 60947-5-2                                                          |
| <b>Approvals and certificates</b>               |       |                                                                           |
| UL approval                                     |       | cULus Listed, General Purpose                                             |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq 36\text{ V}$ |
| <b>Ambient conditions</b>                       |       |                                                                           |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                            |
| <b>Mechanical specifications</b>                |       |                                                                           |
| Connection type                                 |       | Connector plug M12 x 1 , 4-pin                                            |
| Housing material                                |       | Xylan coated - Stainless steel 1.4305 / AISI 303                          |
| Sensing face                                    |       | Xylan coated - Stainless steel 1.4305 / AISI 303                          |
| Degree of protection                            |       | IP67                                                                      |
| Dimensions                                      |       |                                                                           |
| Length                                          |       | 65 mm                                                                     |
| Diameter                                        |       | 18 mm                                                                     |

Connection



Connection Assignment



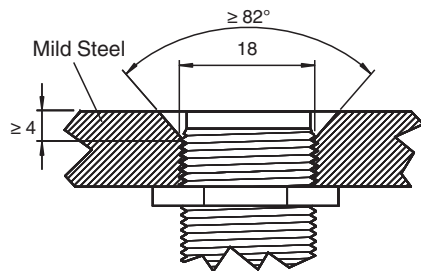
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## Connection Assignment

Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

## Mounting



Sensor face is flush with mounting surface.