

# Inductive sensor

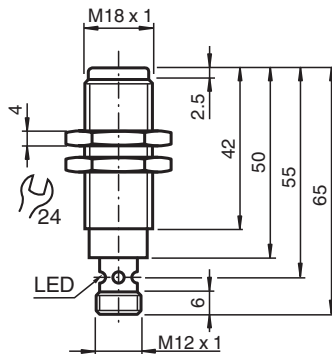
## NMB10-18GM65-E3-V1



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



### Dimensions



### Technical Data

| General specifications      |       |   |
|-----------------------------|-------|---|
| Switching function          |       | Normally closed (NC)                    |
| 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 ... 240 Hz                            |
| Hysteresis                  | $H$   | 3 ... 15 typ. 10 %                      |

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

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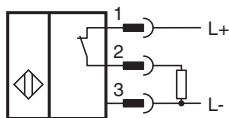
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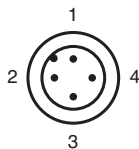
## Technical Data

|   |       |  |
|---|-------|--|
| Reverse polarity protection                     |       | reverse polarity protected   |
| Short-circuit protection                        |       | pulsing  |
| Voltage drop                                    | $U_d$ | $\leq 2 \text{ V}$   |
| Operating current                               | $I_L$ | $\leq 200 \text{ mA}$  |
| Off-state current                               | $I_r$ | $10 \mu\text{A}$   |
| No-load supply current                          | $I_0$ | $\leq 15 \text{ mA}$   |
| Operating voltage indicator                     |       | LED, green   |
| Switching state indicator                       |       | LED, yellow  |
| <b>Functional safety related parameters</b>     |       |  |
| MTTF <sub>d</sub>                               |       | 880 a  |
| Mission Time (T <sub>M</sub> )                  |       | 20 a   |
| Diagnostic Coverage (DC)                        |       | 0 %  |
| <b>Compliance with standards and directives</b> |       |  |
| Standard conformity                             |       |  |
| Standards                                       |       | EN 60947-5-2:2007<br>IEC 60947-5-2:2007                                    |
| <b>Approvals and certificates</b>               |       |  |
| UL approval                                     |       | cULus Listed, General Purpose  |
| CSA approval                                    |       | cCSAus 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                                |       | Stainless steel 1.4305 / AISI 303  |
| Sensing face                                    |       | Stainless steel 1.4305 / AISI 303  |
| Degree of protection                            |       | IP67   |

## Connection



## Connection Assignment

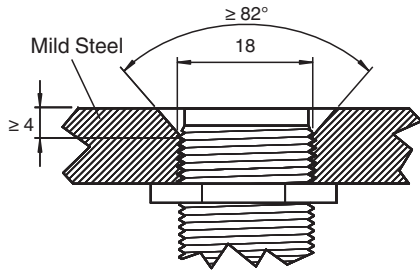


## Connection Assignment

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.

## Accessories

|  |                    |   |
|--|--------------------|---|
|  | <b>V1-G-2M-PUR</b> | Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey |
|  | <b>V1-W-2M-PUR</b> | Female cordset single-ended M12 angled A-coded, 4-pin, PUR cable grey   |

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