

# Inductive sensor

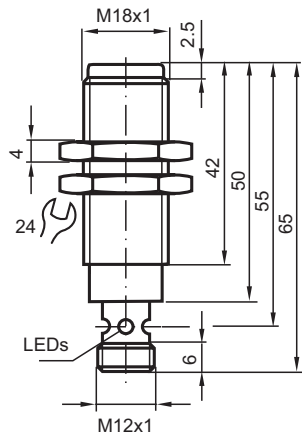
## NMB5-18GM65-Z0-FE-V1



- Stainless steel sensing face
- Sensing range 5 mm
- 2-wire DC
- Ferrous targets



### Dimensions



### Technical Data

#### General specifications

|                    |                    |
|--------------------|--------------------|
| Switching function | Normally open (NO) |
|--------------------|--------------------|

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

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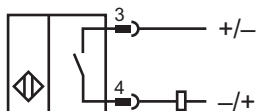
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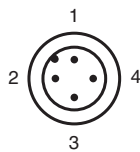
## Technical Data

|                                                 |       |                                                                                             |
|-------------------------------------------------|-------|---------------------------------------------------------------------------------------------|
| Output type                                     |       | Two-wire                                                                                    |
| Rated operating distance                        | $s_n$ | 5 mm                                                                                        |
| Installation                                    |       | flush                                                                                       |
| Output polarity                                 |       | DC                                                                                          |
| Assured operating distance                      | $s_a$ | 0 ... 4.05 mm                                                                               |
| Actuating element                               |       | Ferrous targets                                                                             |
| Reduction factor $r_{Al}$                       |       | 0                                                                                           |
| Reduction factor $r_{Cu}$                       |       | 0                                                                                           |
| Reduction factor $r_{304}$                      |       | 0.75                                                                                        |
| Reduction factor $r_{St37}$                     |       | 1                                                                                           |
| Output type                                     |       | 2-wire                                                                                      |
| <b>Nominal ratings</b>                          |       |                                                                                             |
| Operating voltage                               | $U_B$ | 6 ... 30 V DC                                                                               |
| Switching frequency                             | $f$   | 15 Hz                                                                                       |
| Hysteresis                                      | $H$   | 3 ... 15 typ. 5 %                                                                           |
| Reverse polarity protection                     |       | reverse polarity tolerant                                                                   |
| Short-circuit protection                        |       | no                                                                                          |
| Voltage drop                                    | $U_d$ | $\leq 5.5$ V DC                                                                             |
| Operating current                               | $I_L$ | 2 ... 100 mA                                                                                |
| Off-state current                               | $I_r$ | $\leq 1$ mA                                                                                 |
| <b>Indicators/operating means</b>               |       |                                                                                             |
| Operation indicator                             |       | 4-way LED<br>Yellow: output                                                                 |
| <b>Compliance with standards and directives</b> |       |                                                                                             |
| Standard conformity                             |       |                                                                                             |
| Standards                                       |       | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| <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 $\leq 36$ V                          |
| <b>Ambient conditions</b>                       |       |                                                                                             |
| Ambient temperature                             |       | -40 ... 70 °C (-40 ... 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 / IP68 / IP69K - cordset dependent according to cable specification                    |

## Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Accessories

|                                                                                    |                    |                                       |
|------------------------------------------------------------------------------------|--------------------|---------------------------------------|
|   | <b>V1-W-2M-PUR</b> | Female cordset, M12, 4-pin, PUR cable |
|   | <b>V1-G-2M-PUR</b> | Female cordset, M12, 4-pin, PUR cable |
|  | <b>AB-18</b>       | Mounting aid                          |

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