

## Inductive sensor

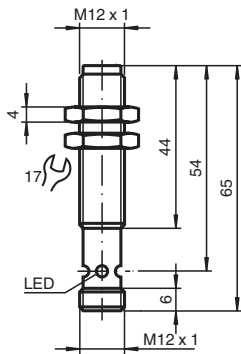
### NMB2-12GM65-E0-NFE-V1



- Stainless steel sensing face
- Sensing range 2 mm
- 3-wire DC
- Nonferrous targets



## Dimensions



## Technical Data

### General specifications

|                              |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | NPN                |
| Rated operating distance     | $s_n$ | 2 mm               |
| Installation                 |       | flush              |
| Output polarity              |       | DC                 |
| Assured operating distance   | $s_a$ | 0 ... 1.62 mm      |
| Actuating element            |       | Nonferrous targets |
| Reduction factor $r_{Al}$    |       | 1                  |
| Reduction factor $r_{Cu}$    |       | 1.1                |
| Reduction factor $r_{304}$   |       | 0                  |
| Reduction factor $r_{St37}$  |       | 0                  |
| Reduction factor $r_{Brass}$ |       | 0.9                |
| Output type                  |       | 3-wire             |

### Nominal ratings

|                     |       |                |
|---------------------|-------|----------------|
| Operating voltage   | $U_B$ | 10 ... 30 V DC |
| Switching frequency | $f$   | 15 Hz          |

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

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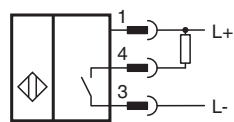
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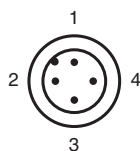
Technical Data

|                                                 |                |                                                                                                           |
|-------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------|
| Hysteresis                                      | H              | 3 ... 15 typ. 5 %                                                                                         |
| Reverse polarity protection                     |                | reverse polarity protected                                                                                |
| Short-circuit protection                        |                | pulsing                                                                                                   |
| Voltage drop                                    | U <sub>d</sub> | ≤ 2 V DC                                                                                                  |
| Operating current                               | I <sub>L</sub> | ≤ 200 mA<br>For a temperature range above 50°C, the permissible operating current I <sub>L</sub> ≤ 150 mA |
| Current consumption                             |                | < 14 mA                                                                                                   |
| Off-state current                               | I <sub>r</sub> | ≤ 10 µA                                                                                                   |
| <b>Indicators/operating means</b>               |                |                                                                                                           |
| Operation indicator                             |                | 4-way dual LED<br>Green: power<br>Yellow: output                                                          |
| <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 ≤36 V                                              |
| <b>Ambient conditions</b>                       |                |                                                                                                           |
| Ambient temperature                             |                | -40 ... 70 °C (-40 ... 158 °F)                                                                            |
| <b>Mechanical specifications</b>                |                |                                                                                                           |
| Connection type                                 |                | V1 connector (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                                  |
| Dimensions                                      |                |                                                                                                           |
| Length                                          |                | 65 mm                                                                                                     |
| Diameter                                        |                | 12 mm                                                                                                     |

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) |