



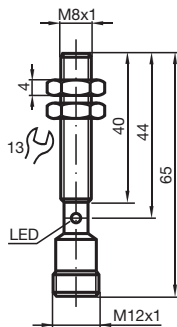
## Inductive sensor

### NMB1,5-8GM65-E0-FE-V1

- Stainless steel sensing face
- Sensing range 1.5 mm
- 3-wire DC
- Ferrous targets



## Dimensions



## Technical Data

### General specifications

|                             |       |                    |
|-----------------------------|-------|--------------------|
| Switching function          |       | Normally open (NO) |
| Output type                 |       | NPN                |
| Rated operating distance    | $s_n$ | 1.5 mm             |
| Installation                |       | flush              |
| Output polarity             |       | DC                 |
| Assured operating distance  | $s_a$ | 0 ... 1.215 mm     |
| Actuating element           |       | Ferrous targets    |
| Reduction factor $r_{Al}$   |       | 0                  |
| Reduction factor $r_{Cu}$   |       | 0                  |
| Reduction factor $r_{304}$  |       | 0.6                |
| Reduction factor $r_{S137}$ |       | 1                  |

### Nominal ratings

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

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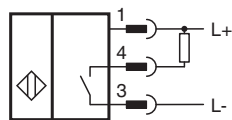
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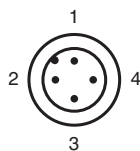
Technical Data

|                                   |       |                                                                    |
|-----------------------------------|-------|--------------------------------------------------------------------|
| Operating voltage                 | $U_B$ | 10 ... 30 V DC                                                     |
| Switching frequency               | $f$   | 80 Hz                                                              |
| Hysteresis                        | $H$   | 3 ... 15 typ. 5 %                                                  |
| Reverse polarity protection       |       | yes                                                                |
| Short-circuit protection          |       | yes                                                                |
| Voltage drop                      | $U_d$ | $\leq 2$ V                                                         |
| Operating current                 | $I_L$ | $\leq 100$ mA                                                      |
| Current consumption               |       | $\leq 15$ mA                                                       |
| Off-state current                 | $I_r$ | $\leq 10$ $\mu$ A                                                  |
| <b>Indicators/operating means</b> |       |                                                                    |
| Operation indicator               |       | LED red: output                                                    |
| <b>Standard conformity</b>        |       |                                                                    |
| 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 $\leq 36$ V |
| <b>Ambient conditions</b>         |       |                                                                    |
| Ambient temperature               |       | -25 ... 70 °C (-13 ... 158 °F)                                     |
| <b>Mechanical specifications</b>  |       |                                                                    |
| Connection type                   |       | 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                                                               |

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

|                                                                                   |             |                                       |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------|
|  | V1-G-2M-PUR | Female cordset, M12, 4-pin, PUR cable |
|  | V1-W-2M-PUR | Female cordset, M12, 4-pin, PUR cable |

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