

## Inductive sensor

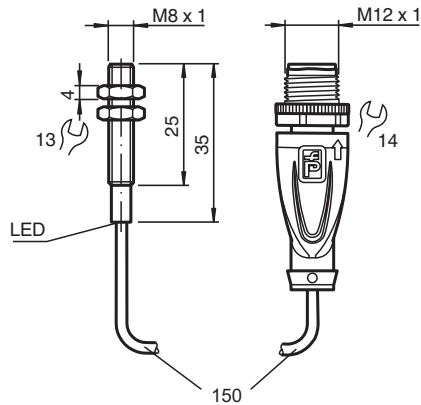
NMB1,5-8GM35-E0-FE-150MM-V1



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



### 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     |

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

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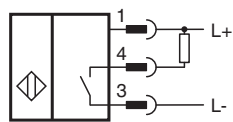
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## Technical Data

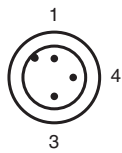
|                                   |       |                                                                    |
|-----------------------------------|-------|--------------------------------------------------------------------|
| Actuating element                 |       | Ferrous targets                                                    |
| Reduction factor $r_{Al}$         |       | 0                                                                  |
| Reduction factor $r_{Cu}$         |       | 0                                                                  |
| Reduction factor $r_{304}$        |       | 0.4 - 0.7                                                          |
| Reduction factor $r_{St37}$       |       | 1                                                                  |
| Reduction factor $r_{Brass}$      |       | 0                                                                  |
| Output type                       |       | 3-wire                                                             |
| <b>Nominal ratings</b>            |       |                                                                    |
| Operating voltage                 | $U_B$ | 10 ... 30 V DC                                                     |
| Switching frequency               | $f$   | 80 Hz                                                              |
| Hysteresis                        | $H$   | 5 ... 15 typ. 10 %                                                 |
| Reverse polarity protection       |       | yes                                                                |
| Short-circuit protection          |       | yes                                                                |
| Voltage drop                      | $U_d$ | $\leq 2$ V                                                         |
| Operating current                 | $I_L$ | $\leq 100$ mA                                                      |
| Current consumption               |       | $\leq 10$ 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                                      |
| CCC approval                      |       | CCC approval / marking not required for products rated $\leq 36$ V |
| <b>Ambient conditions</b>         |       |                                                                    |
| Ambient temperature               |       | -25 ... 75 °C (-13 ... 167 °F)                                     |
| <b>Mechanical specifications</b>  |       |                                                                    |
| Connection type                   |       | fixed cable with plug                                              |
| Housing material                  |       | Stainless steel 1.4305 / AISI 303                                  |
| Sensing face                      |       | Stainless steel 1.4305 / AISI 303                                  |
| Degree of protection              |       | IP67                                                               |
| Connector                         |       |                                                                    |
| Threading                         |       | M12 x 1                                                            |
| Tightening torque                 |       | 0.6 Nm                                                             |
| Number of pins                    |       | 3                                                                  |
| Cable                             |       |                                                                    |
| Cable diameter                    |       | 3 mm - 0.2 mm                                                      |
| Bending radius                    |       | $> 12 \times$ cable diameter                                       |
| Material                          |       | PUR                                                                |
| Color                             |       | black                                                              |
| Number of cores                   |       | 3                                                                  |
| Core cross section                |       | 0.14 mm <sup>2</sup>                                               |
| Length                            | $L$   | 150 mm                                                             |

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Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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