

## Inductive sensor

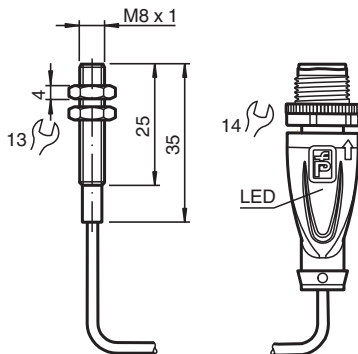
### NMB3-8GM35-E0-150MM-V1



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



## Dimensions



## Technical Data

### General specifications

|                            |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | NPN                |
| Rated operating distance   | $s_n$ | 3 mm               |
| Installation               |       | flush              |
| Output polarity            |       | DC                 |
| Assured operating distance | $s_a$ | 0 ... 2.43 mm      |

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

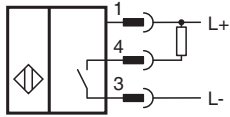
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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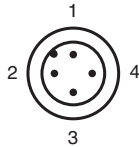
## Technical Data

|                                   |       |                                                                    |
|-----------------------------------|-------|--------------------------------------------------------------------|
| Reduction factor $r_{Al}$         |       | 0.3                                                                |
| Reduction factor $r_{Cu}$         |       | 0.2                                                                |
| Reduction factor $r_{304}$        |       | 0.7                                                                |
| Output type                       |       | 3-wire                                                             |
| <b>Nominal ratings</b>            |       |                                                                    |
| Operating voltage                 | $U_B$ | 10 ... 30 V                                                        |
| Switching frequency               | $f$   | 0 ... 360 Hz                                                       |
| Hysteresis                        | $H$   | 5 ... 15 typ. 10 %                                                 |
| Reverse polarity protection       |       | yes                                                                |
| Short-circuit protection          |       | yes                                                                |
| Voltage drop                      | $U_d$ | $\leq 2$ V                                                         |
| Operating current                 | $I_L$ | 0 ... 100 mA                                                       |
| Off-state current                 | $I_r$ | 0 ... 10 $\mu$ A typ. 0.1 $\mu$ A at 25 °C                         |
| No-load supply current            | $I_0$ | $\leq 10$ mA                                                       |
| <b>Indicators/operating means</b> |       |                                                                    |
| Operation indicator               |       | Dual LED<br>Green: power<br>Yellow: 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                                                               |
| <b>Connector</b>                  |       |                                                                    |
| Threading                         |       | M12 x 1                                                            |
| Tightening torque                 |       | $\leq 0.6$ Nm                                                      |
| Number of pins                    |       | 3                                                                  |
| <b>Cable</b>                      |       |                                                                    |
| 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                                                             |
| <b>Dimensions</b>                 |       |                                                                    |
| Length                            |       | 35 mm                                                              |
| Diameter                          |       | 8 mm                                                               |

## Connection



## Connection Assignment



Wire colors in accordance with EN 60947-5-2

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