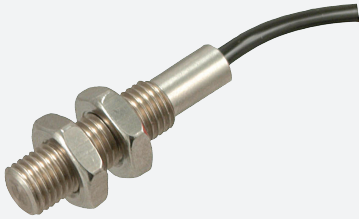


## Inductive sensor

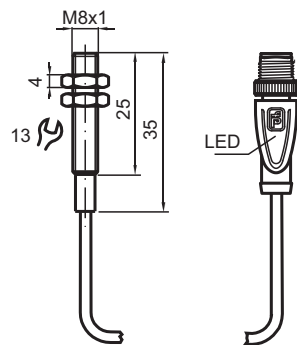
### NMB3-8GM35-E2-150MM-V3



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



## Dimensions



## Technical Data

### General specifications

|                          |       |                    |
|--------------------------|-------|--------------------|
| Switching function       |       | Normally open (NO) |
| Output type              |       | PNP                |
| Rated operating distance | $s_n$ | 3 mm               |
| Installation             |       | flush              |
| Output polarity          |       | DC                 |

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

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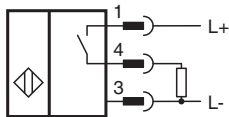
Singapore: +65 6779 9091  
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**PEPPERL+FUCHS**

## Technical Data

|                                             |       |                                                                    |
|---------------------------------------------|-------|--------------------------------------------------------------------|
| Assured operating distance                  | $s_a$ | 0 ... 2.43 mm                                                      |
| Reduction factor $r_{Al}$                   |       | 0.3                                                                |
| Reduction factor $r_{Cu}$                   |       | 0.2                                                                |
| Reduction factor $r_{304}$                  |       | 0.7                                                                |
| <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>Functional safety related parameters</b> |       |                                                                    |
| MTTF <sub>d</sub>                           |       | 2000 a                                                             |
| Mission Time ( $T_M$ )                      |       | 20 a                                                               |
| Diagnostic Coverage (DC)                    |       | 0 %                                                                |
| <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                                      |
| 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 ... 75 °C (-13 ... 167 °F)                                     |
| <b>Mechanical specifications</b>            |       |                                                                    |
| Connection type                             |       | Cable connector M8 x 1 , PUR 150 mm                                |
| 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) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

Accessories

|                                                                                   |              |                                                   |
|-----------------------------------------------------------------------------------|--------------|---------------------------------------------------|
|  | V3-WM-2M-PUR | Female cordset single-ended, M8, 3-pin, PUR cable |
|-----------------------------------------------------------------------------------|--------------|---------------------------------------------------|

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