

# Inductive sensor

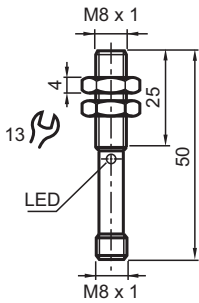
## NMB3-8GM50-E2-V3



- 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   |
| 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  |
| Output type                          |       | 3-wire                                     |
| Nominal ratings                      |       |  |
| Operating voltage                    | $U_B$ | 10 ... 30 V DC                             |
| Switching frequency                  | $f$   | 0 ... 360 Hz                               |
| Hysteresis                           | $H$   | 5 ... 15 typ. 10 %                         |
| Reverse polarity protection          |       | reverse polarity protected                 |
| Short-circuit protection             |       | pulsing                                    |
| 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                               |
| Switching state indicator            |       | LED, red                                   |
| Functional safety related parameters |       |  |

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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

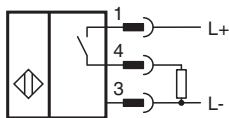
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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## Technical Data

|                                   |  |
|-----------------------------------|--|
| MTTF <sub>d</sub>                 | 2000 a   |
| Mission Time (T <sub>M</sub> )    | 20 a   |
| Diagnostic Coverage (DC)          | 0 %  |
| <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 ≤36 V |
| <b>Ambient conditions</b>         |  |
| Ambient temperature               | -25 ... 75 °C (-13 ... 167 °F)                               |
| <b>Mechanical specifications</b>  |  |
| Connection type                   | Connector plug M8 x 1 , 3-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) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

## Accessories

|   |                     |  |
|---|---------------------|--|
|  | <b>V3-WM-2M-PUR</b> | Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey |
|---|---------------------|--|