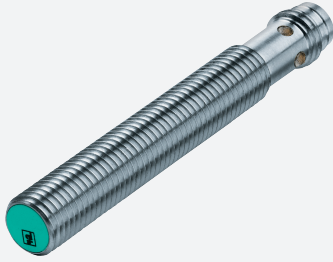


# Inductive sensor

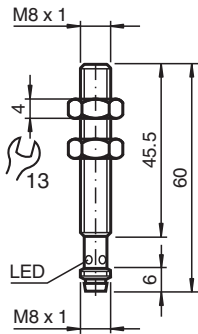
## NEB4-8GM50-E2-V3



- 4 mm quasi flush
- Increased operating distance



### Dimensions



### Technical Data

| General specifications      |       |                                        |
|-----------------------------|-------|----------------------------------------|
| Switching function          |       | Normally open (NO)                     |
| Output type                 |       | PNP                                    |
| Rated operating distance    | $s_n$ | 4 mm                                   |
| Installation                |       | quasi flush                            |
| Output polarity             |       | DC                                     |
| Assured operating distance  | $s_a$ | 0 ... 3.24 mm                          |
| Reduction factor $r_{Al}$   |       | 0.25                                   |
| Reduction factor $r_{Cu}$   |       | 0.22                                   |
| Reduction factor $r_{304}$  |       | 0.65                                   |
| Output type                 |       | 3-wire                                 |
| Nominal ratings             |       |                                        |
| Operating voltage           | $U_B$ | 10 ... 30 V                            |
| Switching frequency         | $f$   | 0 ... 500 Hz                           |
| Reverse polarity protection |       | reverse polarity protected             |
| Short-circuit protection    |       | pulsing                                |
| Voltage drop                | $U_d$ | $\leq 2$ V                             |
| Operating current           | $I_L$ | 0 ... 200 mA                           |
| Off-state current           | $I_r$ | 0 ... 0.1 mA typ. 0.1 $\mu$ A at 25 °C |
| No-load supply current      | $I_0$ | $\leq 10$ mA                           |
| Switching state indicator   |       | LED, yellow                            |

Release date: 2024-05-28 Date of issue: 2024-06-08 Filename: 123384\_eng.pdf

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

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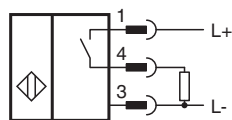
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 **PEPPERL+FUCHS**

Technical Data

|                                          |  |                                                              |
|------------------------------------------|--|--------------------------------------------------------------|
| Functional safety related parameters     |  |                                                              |
| MTTF <sub>d</sub>                        |  | 311 a                                                        |
| Mission Time (T <sub>M</sub> )           |  | 20 a                                                         |
| Diagnostic Coverage (DC)                 |  | 0 %                                                          |
| Compliance with standards and directives |  |                                                              |
| Standard conformity                      |  |                                                              |
| Standards                                |  | EN IEC 60947-5-2                                             |
| Approvals and certificates               |  |                                                              |
| UL approval                              |  | cULus Listed, General Purpose                                |
| CSA approval                             |  | cCSAus Listed, General Purpose                               |
| CCC approval                             |  | CCC approval / marking not required for products rated ≤36 V |
| Ambient conditions                       |  |                                                              |
| Ambient temperature                      |  | -25 ... 70 °C (-13 ... 158 °F)                               |
| Mechanical specifications                |  |                                                              |
| Connection type                          |  | Connector plug M8 x 1 , 3-pin                                |
| Housing material                         |  | chromium plated brass                                        |
| Sensing face                             |  | PBT                                                          |
| Degree of protection                     |  | IP67                                                         |
| Dimensions                               |  |                                                              |
| Length                                   |  | 45.5 mm                                                      |
| Diameter                                 |  | 8 mm                                                         |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

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