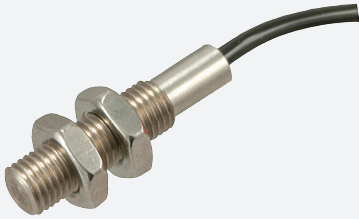


## Inductive sensor

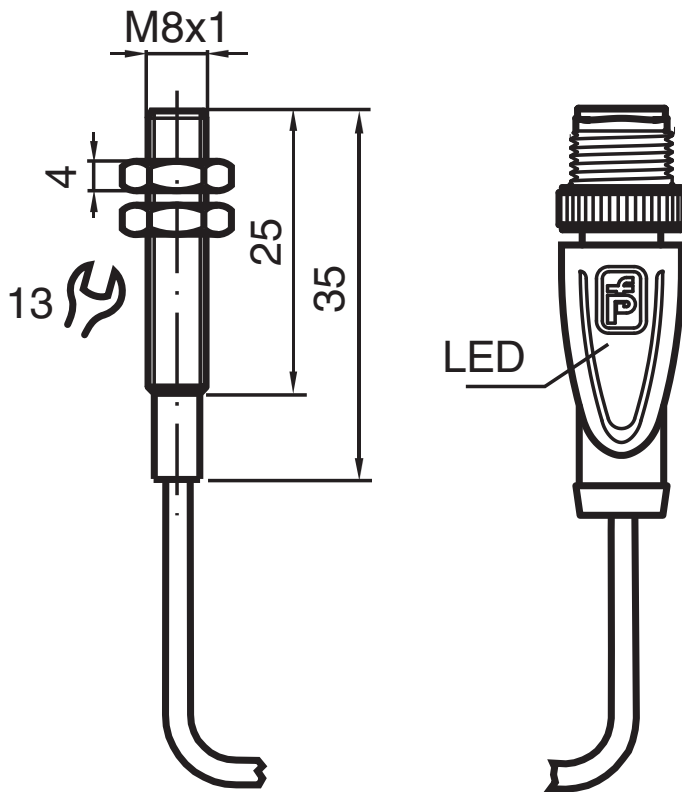
NMB3-8GM35-E2-150MM-V1



- 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      |

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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>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<br>Load Type: General Purpose<br>Circuitry: Class 2 Power Source<br>Enclosure Type Rating: Type 1<br>Supply/Switching Voltage: 30 V DC<br>Output Switching Current: 100 mA |
| 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   |
| Number of pins                              |       | 3   |
| <b>Cable</b>                                |       |   |
| Cable diameter                              |       | 3 mm - 0.2 mm   |
| Bending radius                              |       | > 12 x 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) |