

# Inductive sensor

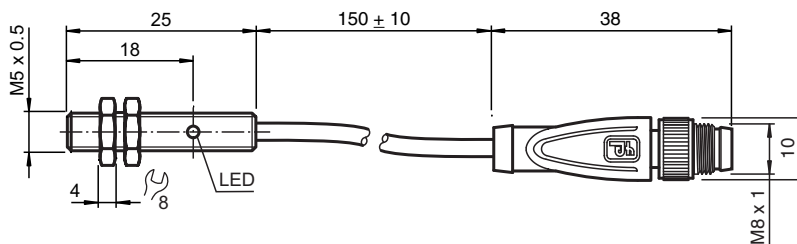
## NBB0,8-5GM25-E0-PUR-150MM-V3



- Basic series
- 0.8 mm flush
- Pigtail quick disconnect



## Dimensions



## Technical Data

### General specifications

|                            |                    |                |
|----------------------------|--------------------|----------------|
| Switching function         | Normally open (NO) |                |
| Output type                | NPN                |                |
| Rated operating distance   | $s_n$              | 0.8 mm         |
| Installation               | flush              |                |
| Output polarity            | DC                 |                |
| Assured operating distance | $s_a$              | 0 ... 0.648 mm |
| Reduction factor $r_{AI}$  | 0.45               |                |
| Reduction factor $r_{Cu}$  | 0.4                |                |
| Reduction factor $r_{304}$ | 0.77               |                |

### Nominal ratings

|                             |                            |                                        |
|-----------------------------|----------------------------|----------------------------------------|
| Operating voltage           | $U_B$                      | 10 ... 30 V                            |
| Switching frequency         | $f$                        | 0 ... 3000 Hz                          |
| Hysteresis                  | $H$                        | typ. 5%                                |
| Reverse polarity protection | reverse polarity protected |                                        |
| Short-circuit protection    | pulsing                    |                                        |
| Voltage drop                | $U_d$                      | $\leq 3$ 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: 2020-03-23 Date of issue: 2020-03-30 Filename: 911708\_eng.pdf

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

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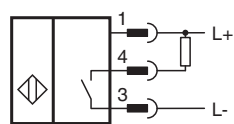
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**PEPPERL+FUCHS**

Technical Data

|                                                 |  |                                                              |
|-------------------------------------------------|--|--------------------------------------------------------------|
| <b>Functional safety related parameters</b>     |  |                                                              |
| MTTF <sub>d</sub>                               |  | 2140 a                                                       |
| Mission Time (T <sub>M</sub> )                  |  | 20 a                                                         |
| Diagnostic Coverage (DC)                        |  | 0 %                                                          |
| <b>Compliance with standards and directives</b> |  |                                                              |
| Standard conformity                             |  |                                                              |
| 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 ... 70 °C (-13 ... 158 °F)                               |
| <b>Mechanical specifications</b>                |  |                                                              |
| Connection type                                 |  | Cable connector M8 x 1 , 3-pin with PUR cable 150 mm         |
| Core cross-section                              |  | 0.14 mm <sup>2</sup>                                         |
| Sensing face                                    |  | PC                                                           |
| Degree of protection                            |  | IP67                                                         |

Connection



Accessories

|                                                                                     |                     |                                                   |
|-------------------------------------------------------------------------------------|---------------------|---------------------------------------------------|
|  | <b>BF 5</b>         | Mounting flange, 5 mm                             |
|  | <b>V3-WM-2M-PUR</b> | Female cordset single-ended, M8, 3-pin, PUR cable |

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