

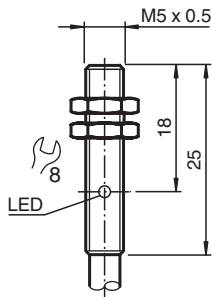
# Inductive sensor NBB0,8-5GM25-E3



- Basic series
- 0.8 mm flush



## Dimensions



## Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | Normally closed (NC)       |
| Output type                 |       | PNP                        |
| 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                    |

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: 053492\_eng.pdf

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

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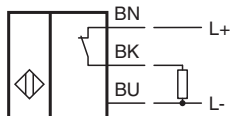
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**PEPPERL+FUCHS**

## Technical Data

|                                                 |       |                                                                            |
|-------------------------------------------------|-------|----------------------------------------------------------------------------|
| Voltage drop                                    | $U_d$ | $\leq 3 \text{ V}$                                                         |
| Operating current                               | $I_L$ | 0 ... 200 mA                                                               |
| Off-state current                               | $I_r$ | 0 ... 0.1 mA typ. 0.1 $\mu\text{A}$ at 25 °C                               |
| No-load supply current                          | $I_0$ | $\leq 10 \text{ mA}$                                                       |
| Switching state indicator                       |       | LED, yellow                                                                |
| <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 $\leq 36 \text{ V}$ |
| <b>Ambient conditions</b>                       |       |                                                                            |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                             |
| <b>Mechanical specifications</b>                |       |                                                                            |
| Connection type                                 |       | cabl e PVC , 2 m                                                           |
| Core cross-section                              |       | 0.14 mm <sup>2</sup>                                                       |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                                          |
| Sensing face                                    |       | PC                                                                         |
| Degree of protection                            |       | IP67                                                                       |

## Connection Assignment



## Accessories

|                                                                                     |             |                       |
|-------------------------------------------------------------------------------------|-------------|-----------------------|
|  | <b>BF 5</b> | Mounting flange, 5 mm |
|-------------------------------------------------------------------------------------|-------------|-----------------------|