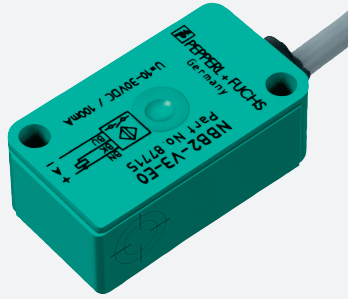


# Inductive sensor

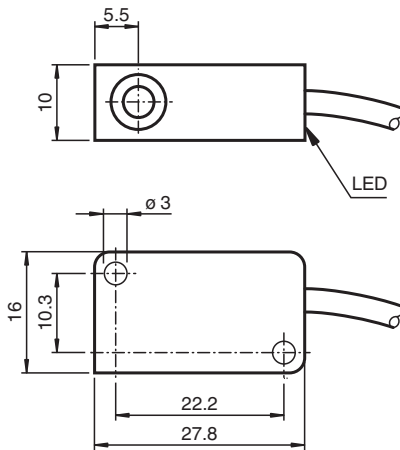
## NBB2-V3-E2



- Basic series
- 2 mm flush
- 3-wire DC



### Dimensions



### Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | Normally open (NO)         |
| Output type                 |       | PNP                        |
| Rated operating distance    | $s_n$ | 2 mm                       |
| Installation                |       | flush                      |
| Output polarity             |       | DC                         |
| Assured operating distance  | $s_a$ | 0 ... 1.62 mm              |
| Reduction factor $r_{Al}$   |       | 0.35                       |
| 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 ... 1000 Hz              |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 3$ V                 |

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

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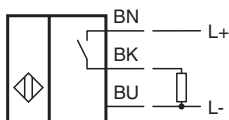
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 PEPPERL+FUCHS

## Technical Data

|   |       |  |
|---|-------|--|
| Operating current                               | $I_L$ | 0 ... 100 mA   |
| Off-state current                               | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C                             |
| No-load supply current                          | $I_0$ | $\leq$ 15 mA   |
| Switching state indicator                       |       | LED, yellow  |
| <b>Functional safety related parameters</b>     |       |  |
| MTTF <sub>d</sub>                               |       | 3560 a   |
| Mission Time (T <sub>M</sub> )                  |       | 20 a   |
| Diagnostic Coverage (DC)                        |       | 0 %  |
| <b>Compliance with standards and directives</b> |       |  |
| Standard conformity                             |       |  |
| Standards                                       |       | EN IEC 60947-5-2   |
| <b>Approvals and certificates</b>               |       |  |
| UL approval                                     |       | cULus Listed, General Purpose                                      |
| CCC approval                                    |       | CCC approval / marking not required for products rated $\leq$ 36 V |
| <b>Ambient conditions</b>                       |       |  |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                     |
| <b>Mechanical specifications</b>                |       |  |
| Connection type                                 |       | 3 cable PVC , 130 mm   |
| Core cross section                              |       | 0.14 mm <sup>2</sup>   |
| Housing material                                |       | PBT  |
| Sensing face                                    |       | PBT  |
| Degree of protection                            |       | IP67   |
| <b>Cable</b>                                    |       |  |
| Cable diameter                                  |       | 3 mm + 0.3 mm  |
| Bending radius                                  |       | > 10 x cable diameter  |
| Tightening torque, fastening screws             |       | $\leq$ 0.4 Nm  |
| <b>Dimensions</b>                               |       |  |
| Height  |       | 10.2 mm  |
| Width   |       | 27.8 mm  |
| Length  |       | 16 mm  |

## Connection



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