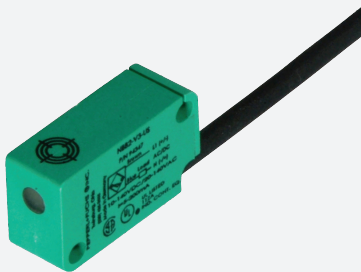


# Inductive sensor

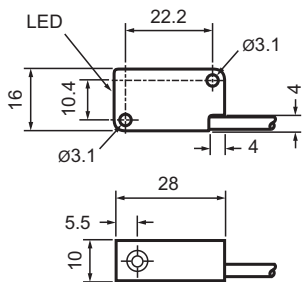
## NBB2-V3-US



- Sensing range 2 mm
- 2-wire AC/DC



### Dimensions



### Technical Data

| General specifications   |       |                    |  |
|--------------------------|-------|--------------------|--|
| Switching function       |       | Normally open (NO) |  |
| Output type              |       | Two-wire           |  |
| Rated operating distance | $s_n$ | 2 mm               |  |
| Installation             |       | flush mountable    |  |
| Output polarity          |       | AC/DC              |  |

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

## Technical Data

|                                                 |       |                                                                                             |
|-------------------------------------------------|-------|---------------------------------------------------------------------------------------------|
| Reduction factor $r_{Al}$                       |       | 0.5                                                                                         |
| Reduction factor $r_{Cu}$                       |       | 0.46                                                                                        |
| Reduction factor $r_{304}$                      |       | 0.9                                                                                         |
| Reduction factor $r_{Si37}$                     |       | 1                                                                                           |
| Reduction factor $r_{Brass}$                    |       | 0.8                                                                                         |
| <b>Nominal ratings</b>                          |       |                                                                                             |
| Operating voltage DC                            | $U_B$ | 10 ... 140 V                                                                                |
| Operating voltage AC                            | $U_B$ | 20 ... 140 V                                                                                |
| Switching frequency                             | $f$   | 25 Hz                                                                                       |
| Reverse polarity protection                     |       | no                                                                                          |
| Short-circuit protection                        |       | no                                                                                          |
| Voltage drop                                    | $U_d$ | $\leq 7$ V                                                                                  |
| Operating current                               | $I_L$ | 5 ... 200 mA max                                                                            |
| Off-state current                               | $I_r$ | $\leq 0.8$ mA                                                                               |
| Switching state indicator                       |       | LED, red                                                                                    |
| <b>Compliance with standards and directives</b> |       |                                                                                             |
| Standard conformity                             |       |                                                                                             |
| Standards                                       |       | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |
| <b>Ambient conditions</b>                       |       |                                                                                             |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                                                              |
| <b>Mechanical specifications</b>                |       |                                                                                             |
| Connection type                                 |       | cable PUR , 2 m                                                                             |
| Core cross-section                              |       | 0.25 mm <sup>2</sup>                                                                        |
| Housing material                                |       | PBT                                                                                         |
| Sensing face                                    |       | PBT                                                                                         |
| Degree of protection                            |       | IP67                                                                                        |

## Connection

