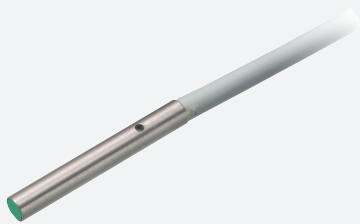


# Inductive sensor

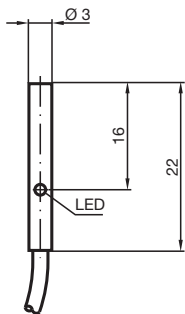
## NBB0,6-3M22-E0



- 0.6 mm flush
- Miniature design



### Dimensions



### Technical Data

| General specifications       |       |                    |
|------------------------------|-------|--------------------|
| Switching function           |       | Normally open (NO) |
| Output type                  |       | NPN                |
| Rated operating distance     | $s_n$ | 0.6 mm             |
| Installation                 |       | flush              |
| Output polarity              |       | DC                 |
| Assured operating distance   | $s_a$ | 0 ... 0.486 mm     |
| Reduction factor $r_{Al}$    |       | 0.4                |
| Reduction factor $r_{Cu}$    |       | 0.29               |
| Reduction factor $r_{304}$   |       | 0.76               |
| Reduction factor $r_{Brass}$ |       | 0.46               |
| Nominal ratings              |       |                    |
| Operating voltage            | $U_B$ | 10 ... 30 V        |

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

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**PEPPERL+FUCHS**

## Technical Data

|                             |                |                            |
|-----------------------------|----------------|----------------------------|
| Switching frequency         | f              | 0 ... 1400 Hz              |
| Hysteresis                  | H              | typ. 5%                    |
| Reverse polarity protection |                | reverse polarity protected |
| Short-circuit protection    |                | pulsing                    |
| Voltage drop                | U <sub>d</sub> | ≤ 3 V                      |
| Operating current           | I <sub>L</sub> | 0 ... 100 mA               |
| Off-state current           | I <sub>r</sub> | 0 ... 0.1 mA typ. at 25 °C |
| No-load supply current      | I <sub>0</sub> | ≤ 10 mA                    |
| Switching state indicator   |                | LED, yellow                |

### Functional safety related parameters

|                                |  |        |
|--------------------------------|--|--------|
| MTTF <sub>d</sub>              |  | 1329 a |
| Mission Time (T <sub>M</sub> ) |  | 20 a   |
| Diagnostic Coverage (DC)       |  | 0 %    |

### Compliance with standards and directives

|                     |  |                                         |
|---------------------|--|-----------------------------------------|
| Standard conformity |  |                                         |
| Standards           |  | EN 60947-5-2:2007<br>IEC 60947-5-2:2007 |

### Approvals and certificates

|              |  |                                                              |
|--------------|--|--------------------------------------------------------------|
| UL approval  |  | cULus Listed, General Purpose                                |
| CSA approval |  | cCSAus Listed, General Purpose                               |
| CCC approval |  | CCC approval / marking not required for products rated ≤36 V |

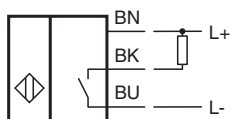
### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--|--------------------------------|

### Mechanical specifications

|                      |  |                                   |
|----------------------|--|-----------------------------------|
| Connection type      |  | cabl PUR 2 m                      |
| Core cross-section   |  | 0.055 mm <sup>2</sup>             |
| Housing material     |  | Stainless steel 1.4305 / AISI 303 |
| Sensing face         |  | PC                                |
| Degree of protection |  | IP67                              |

## Connection



## Mounting

