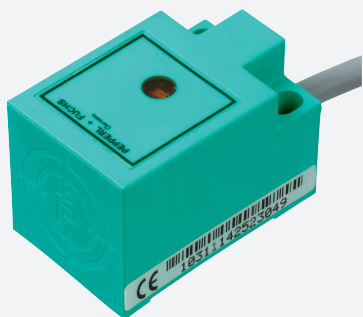




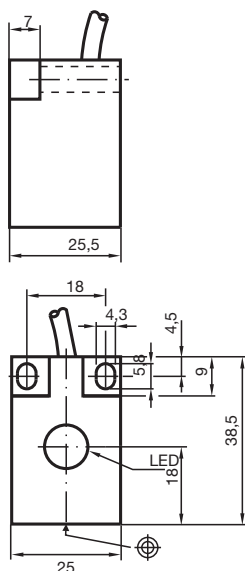
# Inductive sensor

## NBN10-F10-E2

- 10 mm non-flush
- 3-wire DC



### Dimensions



### Technical Data

| General specifications     |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | PNP                |
| Rated operating distance   | $s_n$ | 10 mm              |
| Installation               |       | non-flush          |
| Output polarity            |       | DC                 |
| Assured operating distance | $s_a$ | 0 ... 8.1 mm       |
| Reduction factor $r_{Al}$  |       | 0.3                |
| Reduction factor $r_{Cu}$  |       | 0.2                |
| Reduction factor $r_{304}$ |       | 0.6                |
| Output type                |       | 3-wire             |
| Nominal ratings            |       |                    |
| Operating voltage          | $U_B$ | 10 ... 30 V 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

|                             |                |                                   |
|-----------------------------|----------------|-----------------------------------|
| Switching frequency         | f              | 0 ... 500 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 ... 0.5 mA typ. 0.1 µA at 25 °C |
| No-load supply current      | I <sub>0</sub> | ≤ 15 mA                           |
| Switching state indicator   |                | LED, yellow                       |

### Compliance with standards and directives

|                     |  |                                                                                             |
|---------------------|--|---------------------------------------------------------------------------------------------|
| 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 |

### Approvals and certificates

|                |  |                                                              |
|----------------|--|--------------------------------------------------------------|
| EAC conformity |  | TR CU 020/2011                                               |
| UL approval    |  | cULus 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      |  | cablE PVC , 2 m       |
| Core cross-section   |  | 0.34 mm <sup>2</sup>  |
| Housing material     |  | PBT                   |
| Sensing face         |  | PBT                   |
| Degree of protection |  | IP67                  |
| Cable                |  |                       |
| Cable diameter       |  | 4.6 mm ± 0.2 mm       |
| Bending radius       |  | > 10 x cable diameter |

## Connection

