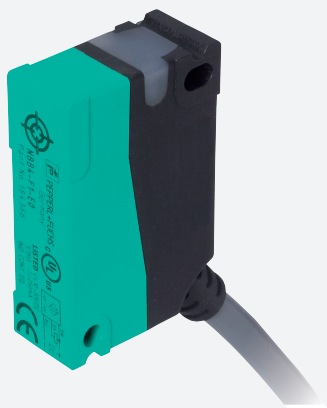


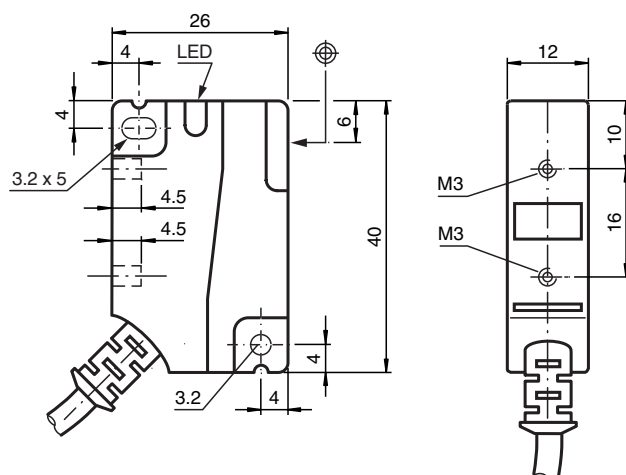


## Inductive sensor NBB4-F1-US

- 4 mm flush
- 2-wire AC/DC



### Dimensions



### Technical Data

#### General specifications

|                            |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | Two-wire           |
| Rated operating distance   | $s_n$ | 4 mm               |
| Installation               |       | flush              |
| Output polarity            |       | AC/DC              |
| Assured operating distance | $s_a$ | 0 ... 3.24 mm      |
| Reduction factor $r_{AI}$  |       | 0.3                |
| Reduction factor $r_{Cu}$  |       | 0.2                |
| Reduction factor $r_{304}$ |       | 0.7                |

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

### Nominal ratings

|                                      |       |                                    |
|--------------------------------------|-------|------------------------------------|
| Operating voltage                    | $U_B$ | 20 ... 253 V AC/DC                 |
| Switching frequency                  | $f$   | 0 ... 25 Hz                        |
| Hysteresis                           | $H$   | typ. 5%                            |
| Reverse polarity protection          |       | reverse polarity protected         |
| Short-circuit protection             |       | pulsing                            |
| Voltage drop                         | $U_d$ | $\leq 7$ V                         |
| Momentary current<br>(20 ms, 0.1 Hz) |       | 0 ... 2100 mA                      |
| Operating current                    | $I_L$ | 4 ... 250 mA AC<br>4 ... 100 mA DC |
| Off-state current                    | $I_r$ | $\leq 1.7$ mA                      |
| No-load supply current               | $I_0$ | $\leq 4$ mA                        |
| Operating voltage indicator          |       | LED, green                         |
| Switching state indicator            |       | LED, yellow                        |

### 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 |  | Certified by China Compulsory Certification (CCC) |

### Ambient conditions

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

### Mechanical specifications

|                                     |  |                          |
|-------------------------------------|--|--------------------------|
| Connection type                     |  | cablE PVC , 2 m          |
| Core cross-section                  |  | 0.5 mm <sup>2</sup>      |
| Housing material                    |  | PA                       |
| Sensing face                        |  | PA                       |
| Degree of protection                |  | IP67                     |
| Tightening torque, fastening screws |  | Threading M3 max: 1.1 Nm |

## Connection

