

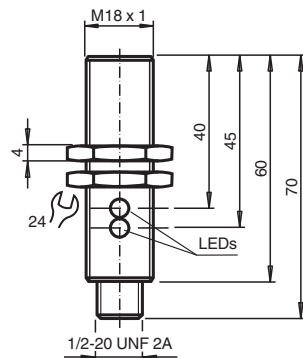
# Inductive sensor

## NBB8-18GM60-US-V12

- 8 mm flush
- 2-wire AC/DC



### Dimensions



### Technical Data

#### General specifications

|                            |                    |
|----------------------------|--------------------|
| Switching function         | Normally open (NO) |
| Output type                | Two-wire           |
| Rated operating distance   | $s_n$ 8 mm         |
| Installation               | flush              |
| Output polarity            | AC/DC              |
| Reduction factor $r_{Al}$  | 0.45               |
| Reduction factor $r_{Cu}$  | 0.4                |
| Reduction factor $r_{304}$ | 0.7                |
| Output type                | 3-wire             |

#### Nominal ratings

|                             |       |                           |
|-----------------------------|-------|---------------------------|
| Switching frequency         | $f$   | 30 Hz                     |
| Hysteresis                  | $H$   | 3 ... 15 % typ. 5 %       |
| Reverse polarity protection |       | reverse polarity tolerant |
| Short-circuit protection    |       | yes                       |
| Voltage drop                | $U_d$ | $\leq 8$ V                |
| Rated operating current     | $I_e$ | 4 ... 300 mA AC/DC        |
| Off-state current           | $I_r$ | $\leq 0.8$ mA             |
| Operating voltage indicator |       | LED, green                |
| Switching state indicator   |       | LED, yellow               |

#### Electrical specifications

|                         |       |                    |
|-------------------------|-------|--------------------|
| Rated operating voltage | $U_e$ | 20 ... 250 V AC/DC |
|-------------------------|-------|--------------------|

#### Compliance with standards and directives

|                     |                  |
|---------------------|------------------|
| Standard conformity |                  |
| Standards           | EN IEC 60947-5-2 |

#### Approvals and certificates

Release date: 2025-06-05 Date of issue: 2025-06-05 Filename: 198078\_eng.pdf

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

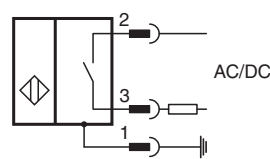
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| 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)                    |
| Storage temperature       | -40 ... 85 °C (-40 ... 185 °F)                    |
| Mechanical specifications |                                                   |
| Connection type           | Connector plug                                    |
| Housing material          | brass, nickel-plated                              |
| Sensing face              | PBT                                               |
| Degree of protection      | IP67                                              |
| Connector                 |                                                   |
| Threading                 | 1/2"-20 UN                                        |
| Number of pins            | 3                                                 |
| Mass                      | 64 g                                              |
| Dimensions                |                                                   |
| Length                    | 70 mm                                             |
| Diameter                  | 18 mm                                             |

Connection



Connection Assignment



Wire colors

|   |       |             |
|---|-------|-------------|
| 1 | GN    | (green)     |
| 2 | RD/BK | (red/black) |
| 3 | RD/WH | (red/white) |

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