

# Inductive sensor

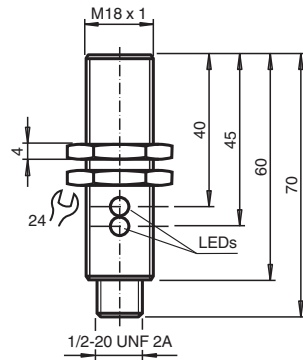
## NBB8-18GM60-US-V12



- 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               |

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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

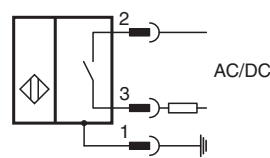
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

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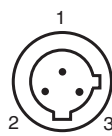
Technical Data

|                                          |                |                                                                       |
|------------------------------------------|----------------|-----------------------------------------------------------------------|
| Electrical specifications                |                |                                                                       |
| Rated operating voltage                  | U <sub>e</sub> | 20 ... 250 V AC/DC                                                    |
| Compliance with standards and directives |                |                                                                       |
| Standard conformity                      |                |                                                                       |
| Standards                                |                | EN IEC 60947-5-2                                                      |
| Approvals and certificates               |                |                                                                       |
| UL approval                              |                | cULus Listed<br>Load Type: Resistive<br>Enclosure Type Rating: Type 1 |
| 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 Assignment



Connection Assignment



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

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