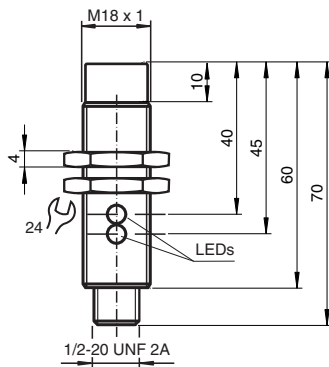


## Inductive sensor NBN15-18GM60-US-V12

- 15 mm non-flush
- 2-wire AC/DC



### Dimensions



### Technical Data

#### General specifications

|                            |       |                    |
|----------------------------|-------|--------------------|
| Switching function         |       | Normally open (NO) |
| Output type                |       | Two-wire           |
| Rated operating distance   | $s_n$ | 15 mm              |
| Installation               |       | non-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

|                             |       |                                 |
|-----------------------------|-------|---------------------------------|
| Operating voltage           | $U_B$ | 20 ... 250 V AC/20 ... 300 V DC |
| 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                      |
| Operating current           | $I_L$ | 4 ... 300 mA AC/DC              |
| Off-state current           | $I_r$ | $\leq 0.8$ mA                   |

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 198084\_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

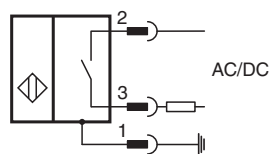
Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

**PEPPERL+FUCHS**

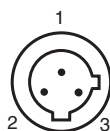
Technical Data

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Operating voltage indicator                     | LED, green                                                                                  |
| Switching state indicator                       | LED, yellow                                                                                 |
| <b>Compliance with standards and directives</b> |                                                                                             |
| 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 |
| <b>Approvals and certificates</b>               |                                                                                             |
| UL approval                                     | cULus Listed, General Purpose                                                               |
| CSA approval                                    | cCSAus Listed, General Purpose                                                              |
| CCC approval                                    | Certified by China Compulsory Certification (CCC)                                           |
| <b>Ambient conditions</b>                       |                                                                                             |
| Ambient temperature                             | -25 ... 70 °C (-13 ... 158 °F)                                                              |
| Storage temperature                             | -40 ... 85 °C (-40 ... 185 °F)                                                              |
| <b>Mechanical specifications</b>                |                                                                                             |
| Connection type                                 | Connector 1/2"-20 UN , 3-pin                                                                |
| Housing material                                | brass, nickel-plated                                                                        |
| Sensing face                                    | PBT                                                                                         |
| Degree of protection                            | IP67                                                                                        |

Connection



Connection Assignment



Wire colors

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

Accessories

|                                                                                     |              |                        |
|-------------------------------------------------------------------------------------|--------------|------------------------|
|  | <b>BF 18</b> | Mounting flange, 18 mm |
|-------------------------------------------------------------------------------------|--------------|------------------------|

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 198084\_eng.pdf

Accessories

|                                                                                   |                       |                                                   |
|-----------------------------------------------------------------------------------|-----------------------|---------------------------------------------------|
|  | <b>V12-G-YE2M-PVC</b> | Connecting cable, 1/2" - 20 UNF, 3-pin, PVC cable |
|-----------------------------------------------------------------------------------|-----------------------|---------------------------------------------------|

Release date: 2020-03-23 Date of issue: 2020-03-30 Filename: 198084\_eng.pdf