

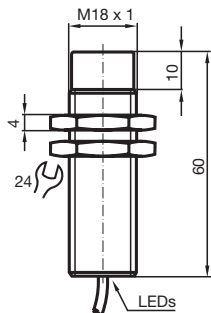
# Inductive sensor NBN8-18GM60-WO



- 8 mm non-flush
- 2-wire AC



## Dimensions



## Technical Data

### General specifications

|                            |       |                          |
|----------------------------|-------|--------------------------|
| Switching function         |       | Normally closed (NC)     |
| Output type                |       | Two-wire                 |
| Rated operating distance   | $s_n$ | 8 mm                     |
| Installation               |       | non-flush                |
| Output polarity            |       | AC                       |
| Assured operating distance | $s_a$ | 0 ... 6.48 mm            |
| Actual operating distance  | $s_r$ | 7.2 ... 8.8 mm typ. 8 mm |
| Reduction factor $r_{Al}$  |       | 0.4                      |
| Reduction factor $r_{Cu}$  |       | 0.4                      |
| Reduction factor $r_{304}$ |       | 0.7                      |
| Output type                |       | 2-wire                   |

### Nominal ratings

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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**PEPPERL+FUCHS**

## Technical Data

|                                      |       |                                                |
|--------------------------------------|-------|------------------------------------------------|
| Operating voltage                    | $U_B$ | 20 ... 253 V                                   |
| Switching frequency                  | $f$   | 0 ... 20 Hz                                    |
| Hysteresis                           | $H$   | typ. 7.5 %                                     |
| Reverse polarity protection          |       | reverse polarity tolerant                      |
| Voltage drop                         | $U_d$ | < 5 V ( $I_L > 50$ mA); < 8 V ( $I_L < 50$ mA) |
| Momentary current<br>(20 ms, 0.1 Hz) |       | 0 ... 1600 mA                                  |
| Operating current                    | $I_L$ | 5 ... 200 mA                                   |
| Off-state current                    | $I_r$ | 0 ... 1.7 mA typ.                              |
| Time delay before availability       | $t_v$ | ≤ 30 ms                                        |
| 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) |

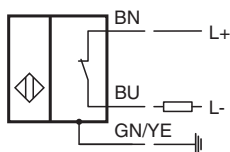
### Ambient conditions

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

### Mechanical specifications

|                      |  |                                                                                                                                                                                                                                                       |
|----------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connection type      |  | cabl PVC , 2 m                                                                                                                                                                                                                                        |
| Core cross-section   |  | 0.34 mm <sup>2</sup>                                                                                                                                                                                                                                  |
| Housing material     |  | brass, nickel-plated                                                                                                                                                                                                                                  |
| Sensing face         |  | PBT                                                                                                                                                                                                                                                   |
| Degree of protection |  | IP67                                                                                                                                                                                                                                                  |
| Note                 |  | 1) In the temperature range below 0 °C, permissible operating voltage $U_b$ 80...253 V<br>Safety fuse ≤ 0.8 A (quick-blow) according to IEC 60127-2 Sheet 1<br>Recommendation: after a short circuit, check that the device is functioning correctly. |

## Connection



## Accessories

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