

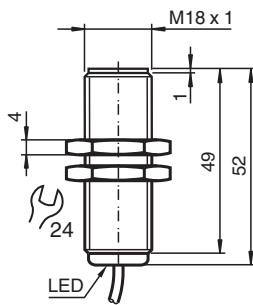


## Inductive sensor NBB5-18GK50-E0

- With increased sealing, protection class IP68 / IP69K



### Dimensions



### Technical Data

#### General specifications

|                             |       |                    |
|-----------------------------|-------|--------------------|
| Switching function          |       | Normally open (NO) |
| Output type                 |       | NPN                |
| Rated operating distance    | $s_n$ | 5 mm               |
| Installation                |       | flush              |
| Output polarity             |       | DC                 |
| Assured operating distance  | $s_a$ | 0 ... 4.05 mm      |
| Reduction factor $r_{Al}$   |       | 0.3                |
| Reduction factor $r_{Cu}$   |       | 0.25               |
| Reduction factor $r_{304}$  |       | 0.7                |
| Reduction factor $r_{St37}$ |       | 1                  |

#### Nominal ratings

|                             |       |                            |
|-----------------------------|-------|----------------------------|
| Operating voltage           | $U_B$ | 10 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 1000 Hz              |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |

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

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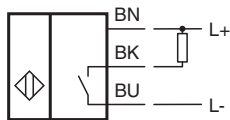
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**PEPPERL+FUCHS**

Technical Data

|                                          |       |                                                                           |
|------------------------------------------|-------|---------------------------------------------------------------------------|
| Voltage drop                             | $U_d$ | $\leq 3\text{ V}$                                                         |
| Operating current                        | $I_L$ | 0 ... 200 mA                                                              |
| Off-state current                        | $I_r$ | 0 ... 0.5 mA typ. 0.1 $\mu\text{A}$ at 25 °C                              |
| No-load supply current                   | $I_0$ | $\leq 15\text{ mA}$                                                       |
| 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                             |       | CCC approval / marking not required for products rated $\leq 36\text{ V}$ |
| Ambient conditions                       |       |                                                                           |
| Ambient temperature                      |       | -25 ... 70 °C (-13 ... 158 °F)                                            |
| Mechanical specifications                |       |                                                                           |
| Connection type                          |       | cablе PVC , 2 m                                                           |
| Core cross-section                       |       | 0.34 mm <sup>2</sup>                                                      |
| Housing material                         |       | PBT                                                                       |
| Sensing face                             |       | PBT                                                                       |
| Degree of protection                     |       | IP68 / IP69K                                                              |
| Note                                     |       | use only delivered nuts                                                   |

Connection



Accessories

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

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