

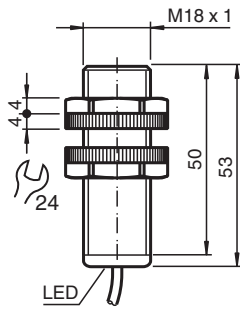


# Inductive sensor NBN8-18GK50-A2-15M

■ 8 mm non-flush



## Dimensions



## Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | complementary              |
| Output type                 |       | PNP                        |
| Rated operating distance    | $s_n$ | 8 mm                       |
| Installation                |       | non-flush                  |
| Output polarity             |       | DC                         |
| Assured operating distance  | $s_a$ | 0 ... 6.48 mm              |
| Reduction factor $r_{AI}$   |       | 0.45                       |
| Reduction factor $r_{Cu}$   |       | 0.4                        |
| Reduction factor $r_{304}$  |       | 0.7                        |
| Output type                 |       | 4-wire                     |
| Nominal ratings             |       |                            |
| Operating voltage           | $U_B$ | 10 ... 30 V                |
| Switching frequency         | $f$   | 0 ... 500 Hz               |
| Reverse polarity protection |       | reverse polarity protected |
| Short-circuit protection    |       | pulsing                    |
| Voltage drop                | $U_d$ | $\leq 3$ V                 |

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

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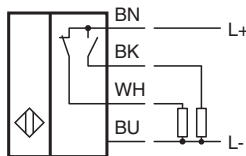
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**PEPPERL+FUCHS**

Technical Data

|                                                 |       |                                                              |
|-------------------------------------------------|-------|--------------------------------------------------------------|
| Operating current                               | $I_L$ | 0 ... 200 mA                                                 |
| No-load supply current                          | $I_0$ | ≤ 25 mA                                                      |
| Switching state indicator                       |       | LED, yellow                                                  |
| <b>Compliance with standards and directives</b> |       |                                                              |
| Standard conformity                             |       |                                                              |
| Standards                                       |       | EN IEC 60947-5-2                                             |
| <b>Approvals and certificates</b>               |       |                                                              |
| UL approval                                     |       | cULus Listed, General Purpose                                |
| CCC approval                                    |       | CCC approval / marking not required for products rated ≤36 V |
| <b>Ambient conditions</b>                       |       |                                                              |
| Ambient temperature                             |       | -25 ... 70 °C (-13 ... 158 °F)                               |
| <b>Mechanical specifications</b>                |       |                                                              |
| Connection type                                 |       | cable                                                        |
| Housing material                                |       | PBT                                                          |
| Sensing face                                    |       | PBT                                                          |
| Degree of protection                            |       | IP69K                                                        |
| Cable                                           |       |                                                              |
| Wire end ferrules                               |       | yes                                                          |
| Cable diameter                                  |       | 4.8 mm ± 0.1 mm                                              |
| Bending radius                                  |       | > 10 x cable diameter                                        |
| Material                                        |       | PVC                                                          |
| Color                                           |       | grey                                                         |
| Number of cores                                 |       | 4                                                            |
| Core cross section                              |       | 0.34 mm <sup>2</sup>                                         |
| Length                                          | L     | 15 m                                                         |
| Dimensions                                      |       |                                                              |
| Length                                          |       | 50 mm                                                        |
| Diameter                                        |       | 18 mm                                                        |

Connection



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