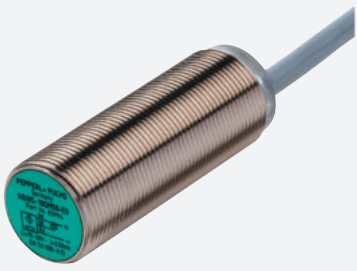


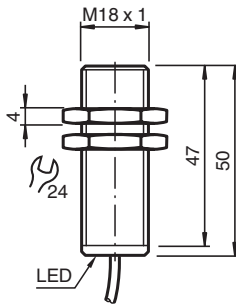
# Inductive sensor NJ5-18GM50-A2-5M



■ 5 mm flush



## Dimensions



## Technical Data

| General specifications      |       |                            |
|-----------------------------|-------|----------------------------|
| Switching function          |       | complementary              |
| Output type                 |       | PNP                        |
| Rated operating distance    | $s_n$ | 5 mm                       |
| Installation                |       | flush                      |
| Output polarity             |       | DC                         |
| Assured operating distance  | $s_a$ | 0 ... 4.05 mm              |
| Reduction factor $r_{AI}$   |       | 0.4                        |
| Reduction factor $r_{Cu}$   |       | 0.35                       |
| Reduction factor $r_{304}$  |       | 0.7                        |
| Output type                 |       | 4-wire                     |
| Nominal ratings             |       |                            |
| Operating voltage           | $U_B$ | 10 ... 60 V                |
| Switching frequency         | $f$   | 0 ... 500 Hz               |
| Hysteresis                  | $H$   | typ. 5 %                   |
| 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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**PEPPERL+FUCHS**

# Technical Data

|                                                 |       |                                                   |
|-------------------------------------------------|-------|---------------------------------------------------|
| Voltage drop                                    | $U_d$ | $\leq 3 \text{ V}$                                |
| Operating current                               | $I_L$ | 0 ... 400 mA                                      |
| Off-state current                               | $I_r$ | 0 ... 0.5 mA                                      |
| No-load supply current                          | $I_0$ | $\leq 15 \text{ mA}$                              |
| Switching state indicator                       |       | all direction LED, yellow                         |
| <b>Functional safety related parameters</b>     |       |                                                   |
| MTTF <sub>d</sub>                               |       | 1000 a                                            |
| Mission Time (T <sub>M</sub> )                  |       | 20 a                                              |
| Diagnostic Coverage (DC)                        |       | 0 %                                               |
| <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                                    |       | 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                                 |       | cable                                             |
| Housing material                                |       | Stainless steel 1.4305 / AISI 303                 |
| Sensing face                                    |       | PBT                                               |
| Degree of protection                            |       | IP67                                              |
| Cable                                           |       |                                                   |
| Wire end ferrules                               |       | yes                                               |
| Cable diameter                                  |       | 6.2 mm $\pm$ 0.2 mm                               |
| Bending radius                                  |       | > 10 x cable diameter                             |
| Material                                        |       | PVC                                               |
| Color                                           |       | black                                             |
| Number of cores                                 |       | 4                                                 |
| Core cross section                              |       | 0.5 mm <sup>2</sup>                               |
| Length                                          | L     | 5 m                                               |
| <b>Dimensions</b>                               |       |                                                   |
| Length                                          |       | 50 mm                                             |
| Diameter                                        |       | 18 mm                                             |

# Connection

