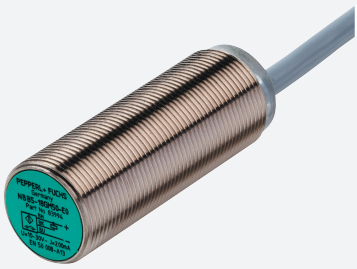


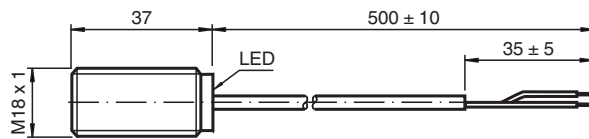
# Inductive sensor NJ5-18GM-N-Y125585



- Comfort series
- 5 mm flush



## Dimensions



## Technical Data

| General specifications     |       |                                  |
|----------------------------|-------|----------------------------------|
| Switching function         |       | Normally closed (NC)             |
| Output type                |       | NAMUR                            |
| Rated operating distance   | $s_n$ | 5 mm                             |
| Installation               |       | flush                            |
| Assured operating distance | $s_a$ | 0 ... 4.05 mm                    |
| Reduction factor $r_{Al}$  |       | 0.21                             |
| Reduction factor $r_{Cu}$  |       | 0.18                             |
| Reduction factor $r_{304}$ |       | 0.63                             |
| Output type                |       | 2-wire                           |
| Nominal ratings            |       |                                  |
| Nominal voltage            | $U_o$ | 8 V                              |
| Switching frequency        | $f$   | 0 ... 500 Hz                     |
| Hysteresis                 | $H$   | 0.1 ... 0.2 mm                   |
| Output signal              |       |                                  |
| Switching state OFF        |       | Switch not actuated: $U_R < 1 V$ |

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

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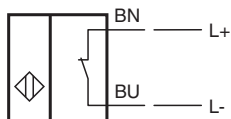
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**PEPPERL+FUCHS**

## Technical Data

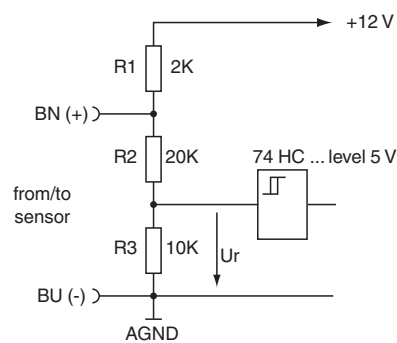
|                                             |                                                                    |
|---------------------------------------------|--------------------------------------------------------------------|
| Switching state ON                          | Switch actuated: $U_R > 2.7 \text{ V}$                             |
| Switching state indicator                   | LED red<br>switch actuated: LED off<br>switch not actuated: LED on |
| <b>Functional safety related parameters</b> |                                                                    |
| MTTF <sub>d</sub>                           | 3843 a                                                             |
| Mission Time (T <sub>M</sub> )              | 20 a                                                               |
| Diagnostic Coverage (DC)                    | 0 %                                                                |
| <b>Approvals and certificates</b>           |                                                                    |
| UL approval                                 | cULus Listed, General Purpose                                      |
| CSA approval                                | cCSAus Listed, General Purpose                                     |
| <b>Ambient conditions</b>                   |                                                                    |
| Ambient temperature                         | -25 ... 70 °C (-13 ... 158 °F)                                     |
| <b>Mechanical specifications</b>            |                                                                    |
| Connection type                             | cablc PVC , 500 mm                                                 |
| Core cross-section                          | 2 x 0.34 mm <sup>2</sup>                                           |
| Housing material                            | brass, nickel-plated                                               |
| Sensing face                                | PBT                                                                |
| Degree of protection                        | IP67                                                               |

## Connection



Mounting

possible sensor interface



Accessories

|                                                                                     |               |                                       |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------|
|  | <b>EXG-18</b> | Quick mounting bracket with dead stop |
|-------------------------------------------------------------------------------------|---------------|---------------------------------------|

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