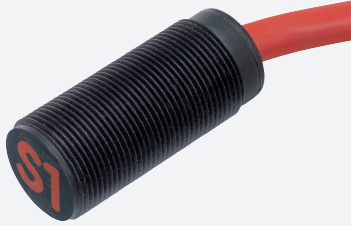


## Inductive sensor

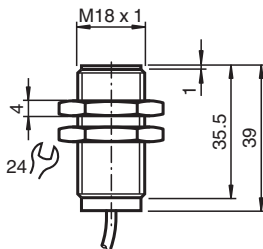
NJ5-18GK-SN-10M-Y70103518



- 5 mm flush
- ATEX approval Ex-i and Ex-nA/tc for zone 0-2 and zone 20-22
- Degree of protection IP68



### Dimensions



### Technical Data

#### General specifications

|                            |       |                            |
|----------------------------|-------|----------------------------|
| Switching function         |       | Normally closed (NC)       |
| Output type                |       | NAMUR with safety function |
| Rated operating distance   | $s_n$ | 5 mm                       |
| Installation               |       | flush                      |
| Assured operating distance | $s_a$ | 0 ... 4.05 mm              |
| Reduction factor $r_{AI}$  |       | 0.4                        |
| Reduction factor $r_{Cu}$  |       | 0.3                        |
| Reduction factor $r_{304}$ |       | 0.85                       |
| Output type                |       | 2-wire                     |

#### Nominal ratings

|                              |       |              |
|------------------------------|-------|--------------|
| Nominal voltage              | $U_o$ | 8.2 V        |
| Switching frequency          | $f$   | 0 ... 500 Hz |
| Current consumption          |       |              |
| Measuring plate not detected |       | $\geq 3$ mA  |
| Measuring plate detected     |       | $\leq 1$ mA  |

Release date: 2020-05-13 Date of issue: 2020-05-13 Filename: 70103518\_eng.pdf

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

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 **PEPPERL+FUCHS**

## Technical Data

### Functional safety related parameters

|                                |         |
|--------------------------------|---------|
| MTTF <sub>d</sub>              | 11850 a |
| Mission Time (T <sub>M</sub> ) | 20 a    |
| Diagnostic Coverage (DC)       | 0 %     |

### Compliance with standards and directives

|                     |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| Standard conformity |                                                                                             |
| NAMUR               | EN 60947-5-6:2000<br>IEC 60947-5-6:1999                                                     |
| Standards           | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012 |

### Approvals and certificates

|                |                                                              |
|----------------|--------------------------------------------------------------|
| EAC conformity | TR CU 012/2011                                               |
| CCC approval   | CCC approval / marking not required for products rated ≤36 V |

### Ambient conditions

|                     |                                 |
|---------------------|---------------------------------|
| Ambient temperature | -40 ... 100 °C (-40 ... 212 °F) |
|---------------------|---------------------------------|

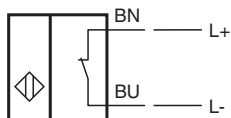
### Mechanical specifications

|                      |                       |
|----------------------|-----------------------|
| Connection type      | cable silicone , 10 m |
| Core cross-section   | 0.75 mm <sup>2</sup>  |
| Housing material     | Crastin (PBT), black  |
| Sensing face         | Crastin (PBT), black  |
| Degree of protection | IP68                  |

### General information

|                           |                         |
|---------------------------|-------------------------|
| Use in the hazardous area | see instruction manuals |
|---------------------------|-------------------------|

## Connection



## Accessories


**BF 18**

Mounting flange, 18 mm