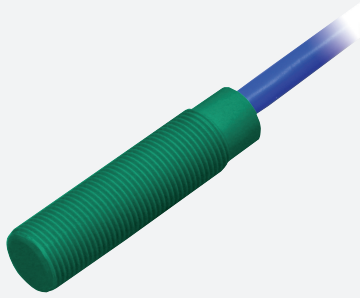
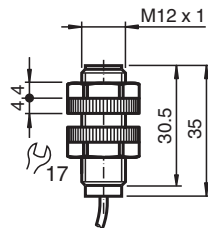


# Inductive sensor NJ4-12GK-N-35M

■ Comfort series



## Dimensions



## Technical Data

### General specifications

|                            |                      |               |
|----------------------------|----------------------|---------------|
| Switching function         | Normally closed (NC) |               |
| Output type                | NAMUR                |               |
| Rated operating distance   | $s_n$                | 4 mm          |
| Installation               | non-flush            |               |
| Assured operating distance | $s_a$                | 0 ... 3.24 mm |
| Reduction factor $r_{Al}$  | 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 V           |
| Switching frequency          | $f$         | 0 ... 1500 Hz |
| Current consumption          |             |               |
| Measuring plate not detected | min. 3 mA   |               |
| Measuring plate detected     | $\leq 1$ mA |               |

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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>              | 11774 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                                               |
| UL approval    | cULus Listed, General Purpose                                |
| CSA approval   | cCSAus Listed, General Purpose                               |
| CCC approval   | CCC approval / marking not required for products rated ≤36 V |

### Ambient conditions

|                     |                                 |
|---------------------|---------------------------------|
| Ambient temperature | -25 ... 100 °C (-13 ... 212 °F) |
|---------------------|---------------------------------|

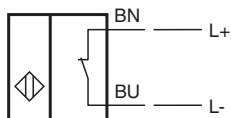
### Mechanical specifications

|                      |                       |
|----------------------|-----------------------|
| Connection type      | cable PVC , 35 m      |
| Core cross-section   | 0.34 mm <sup>2</sup>  |
| Housing material     | PBT                   |
| Sensing face         | PBT                   |
| Degree of protection | IP66 / IP68           |
| Cable                |                       |
| Cable diameter       | 4.8 mm ± 0.2 mm       |
| Bending radius       | > 10 x cable diameter |

### General information

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

## Connection



## Accessories


**BF 12**

Mounting flange, 12 mm