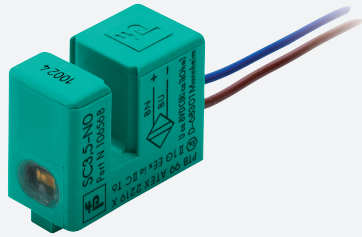


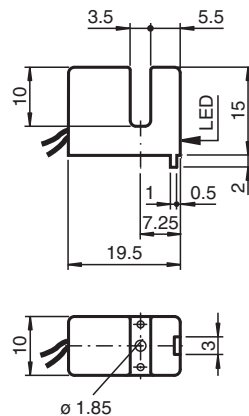
# Inductive slot sensor SC3,5-N0-WH



■ Comfort series



## Dimensions



## Technical Data

### General specifications

|                              |                      |
|------------------------------|----------------------|
| Switching function           | Normally closed (NC) |
| Output type                  | NAMUR                |
| Slot width                   | 3.5 mm               |
| Depth of immersion (lateral) | 5 ... 7 typ. 6 mm    |
| Output type                  | 2-wire               |

### Nominal ratings

|                              |       |                                                      |
|------------------------------|-------|------------------------------------------------------|
| Nominal voltage              | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ )                 |
| Operating voltage            | $U_B$ | 5 ... 25 V                                           |
| Switching frequency          | $f$   | 0 ... 3000 Hz                                        |
| Hysteresis                   | $H$   | 0.06 ... 0.1 mm                                      |
| Suitable for 2:1 technology  |       | yes , Reverse polarity protection diode not required |
| Current consumption          |       |                                                      |
| Measuring plate not detected |       | $\geq 3$ mA at nominal voltage                       |
| Measuring plate detected     |       | $\leq 1$ mA at nominal voltage                       |
| Switching state indicator    |       | LED, yellow                                          |

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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

|                              |       |
|------------------------------|-------|
| Safety Integrity Level (SIL) | SIL 2 |
|------------------------------|-------|

### Compliance with standards and directives

#### Standard conformity

|                               |                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------|
| NAMUR                         | EN 60947-5-6:2000<br>IEC 60947-5-6:1999                                                     |
| Electromagnetic compatibility | NE 21:2007                                                                                  |
| 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                                |
| Ordinary Location  | E87056                                                       |
| Hazardous Location | E501628                                                      |
| Control drawing    | 116-0453                                                     |
| 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      | flexible leads LiY , 500 mm |
| Core cross-section   | 0.14 mm <sup>2</sup>        |
| Housing material     | PBT                         |
| Degree of protection | IP67                        |

### General information

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

## Connection

