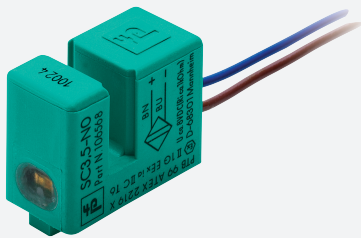


# Inductive slot sensor

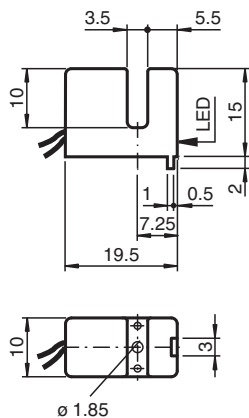
## SC3,5-N0-YE



■ 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 <sub>o</sub> | 8 V                                                  |
| Operating voltage                    | U <sub>B</sub> | 5 ... 25 V                                           |
| Switching frequency                  | f              | 0 ... 3000 Hz                                        |
| Hysteresis                           | H              | 0 ... 0.05 mm                                        |
| Suitable for 2:1 technology          |                | yes , Reverse polarity protection diode not required |
| Current consumption                  |                |                                                      |
| Measuring plate not detected         |                | ≥ 3 mA at nominal voltage                            |
| Measuring plate detected             |                | ≤ 1 mA at nominal voltage                            |
| Switching state indicator            |                | LED, yellow                                          |
| Functional safety related parameters |                |                                                      |

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

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**PEPPERL+FUCHS**

## Technical Data

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Safety Integrity Level (SIL)                    | SIL 2                                                                                       |
| MTTF <sub>d</sub>                               | 4472 a                                                                                      |
| Mission Time (T <sub>M</sub> )                  | 20 a                                                                                        |
| Diagnostic Coverage (DC)                        | 0 %                                                                                         |
| <b>Compliance with standards and directives</b> |                                                                                             |
| 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 |
| <b>Approvals and certificates</b>               |                                                                                             |
| IECEX approval                                  |                                                                                             |
| Equipment protection level Ga                   | IECEX PTB 11.0091X                                                                          |
| Equipment protection level Gb                   | IECEX PTB 11.0091X                                                                          |
| Equipment protection level Da                   | IECEX PTB 11.0091X                                                                          |
| Equipment protection level Mb                   | IECEX PTB 11.0091X                                                                          |
| ATEX approval                                   |                                                                                             |
| Equipment protection level Ga                   | PTB 99 ATEX 2219 X                                                                          |
| Equipment protection level Gb                   | PTB 99 ATEX 2219 X                                                                          |
| Equipment protection level Da                   | PTB 99 ATEX 2219 X                                                                          |
| EAC conformity                                  | TR CU 012/2011                                                                              |
| FM approval                                     |                                                                                             |
| Control drawing                                 | 116-0165                                                                                    |
| UL approval                                     | cULus Listed, General Purpose                                                               |
| Ordinary Location                               | E87056                                                                                      |
| Hazardous Location                              | E501628                                                                                     |
| Control drawing                                 | 116-0453                                                                                    |
| CSA approval                                    | cCSAus Listed, General Purpose                                                              |
| <b>Ambient conditions</b>                       |                                                                                             |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)                                                             |
| <b>Mechanical specifications</b>                |                                                                                             |
| Connection type                                 | flexible leads PVC , 500 mm                                                                 |
| Core cross-section                              | 0.14 mm <sup>2</sup>                                                                        |
| Housing material                                | PBT                                                                                         |
| Degree of protection                            | IP67                                                                                        |
| <b>General information</b>                      |                                                                                             |
| Use in the hazardous area                       | see instruction manuals                                                                     |

## Connection

