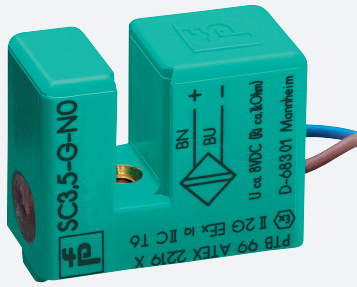


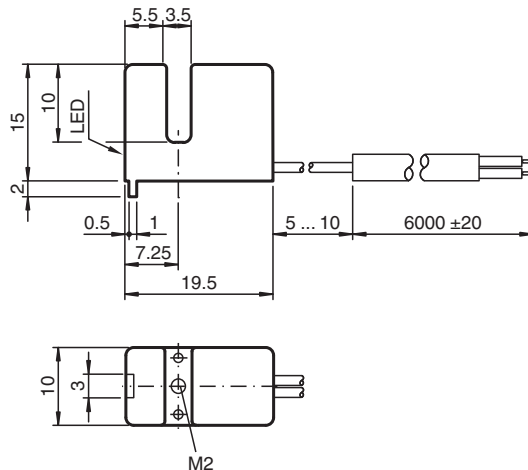
# Inductive slot sensor

## SC3,5-G-N0-6M

■ 3.5 mm slot width



## 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 ... 0.6 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                                          |

### Compliance with standards and directives

Release date: 2025-06-13 Date of issue: 2025-06-18 Filename: 70132959\_eng.pdf

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

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**PEPPERL+FUCHS**

## Technical Data

|                                   |   |                                         |
|-----------------------------------|---|-----------------------------------------|
| Standard conformity               |   |                                         |
| NAMUR                             |   | EN 60947-5-6:2000<br>IEC 60947-5-6:1999 |
| Electromagnetic compatibility     |   | NE 21:2007                              |
| Standards                         |   | EN IEC 60947-5-2                        |
| <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                      |
| UL approval                       |   |                                         |
| Ordinary Location                 |   | E87056                                  |
| Hazardous Location                |   | E501628                                 |
| Control drawing                   |   | 116-0453                                |
| CCC approval                      |   |                                         |
| Hazardous Location                |   | 2020322315002306                        |
| NEPSI approval                    |   |                                         |
| NEPSI certificate                 |   | GYJ16.1391X                             |
| KCC approval                      |   |                                         |
| Hazardous Location                |   | 13-AV4BO-0353X                          |
| <b>Ambient conditions</b>         |   |                                         |
| Ambient temperature               |   | -25 ... 100 °C (-13 ... 212 °F)         |
| <b>Mechanical specifications</b>  |   |                                         |
| Connection type                   |   | flexible leads                          |
| Housing material                  |   | PBT                                     |
| Degree of protection              |   | IP67                                    |
| Cable                             |   |                                         |
| Cable diameter                    |   | 2.6 mm ± 0.2 mm                         |
| Bending radius                    |   | > 10 x cable diameter                   |
| Material                          |   | PVC                                     |
| Core cross section                |   | 0.14 mm <sup>2</sup>                    |
| Length                            | L | 6 m                                     |
| Dimensions                        |   |                                         |
| Height                            |   | 15 mm                                   |
| Width                             |   | 10 mm                                   |
| Length                            |   | 19.5 mm                                 |
| <b>General information</b>        |   |                                         |
| Use in the hazardous area         |   | see instruction manuals                 |

## Connection Assignment

