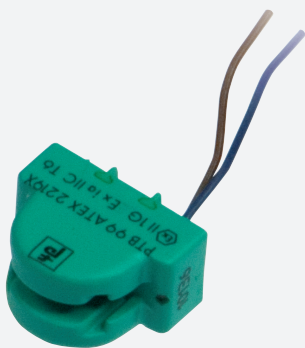


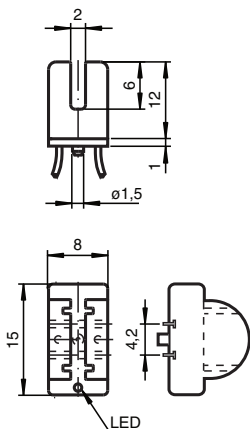


# Inductive slot sensor SC2-N0-GN

■ 2 mm slot width



## Dimensions



## Technical Data

| General specifications       |                |                                     |
|------------------------------|----------------|-------------------------------------|
| Switching function           |                | Normally closed (NC)                |
| Output type                  |                | NAMUR                               |
| Slot width                   |                | 2 mm                                |
| Depth of immersion (lateral) |                | 5 ... 7 mm , typ. 6 mm              |
| Output type                  |                | 2-wire                              |
| Nominal ratings              |                |                                     |
| Nominal voltage              | U <sub>o</sub> | 8.2 V (R <sub>i</sub> approx. 1 kΩ) |
| Operating voltage            | U <sub>B</sub> | 5 ... 25 V                          |
| Switching frequency          | f              | 0 ... 5000 Hz                       |
| Hysteresis                   | H              | 0.11 ... 0.2 mm                     |
| Current consumption          |                |                                     |
| Measuring plate not detected |                | ≥ 3 mA                              |

## Technical Data

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Measuring plate detected                        | ≤ 1 mA                                                                                      |
| Switching state indicator                       | LED, yellow                                                                                 |
| <b>Functional safety related parameters</b>     |                                                                                             |
| MTTF <sub>d</sub>                               | 5790 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 Gc                   | PF13CERT2895 X                                                                              |
| Equipment protection level Da                   | PTB 99 ATEX 2219 X                                                                          |
| UL approval                                     |                                                                                             |
| 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                                |
| <b>Ambient conditions</b>                       |                                                                                             |
| Ambient temperature                             | -25 ... 100 °C (-13 ... 212 °F)                                                             |
| <b>Mechanical specifications</b>                |                                                                                             |
| Connection type                                 | cabl PVC , 500 mm                                                                           |
| Core cross-section                              | 0.06 mm <sup>2</sup>                                                                        |
| Housing material                                | PBT                                                                                         |
| Degree of protection                            | IP67                                                                                        |
| <b>General information</b>                      |                                                                                             |
| Use in the hazardous area                       | see instruction manuals                                                                     |

## Connection

