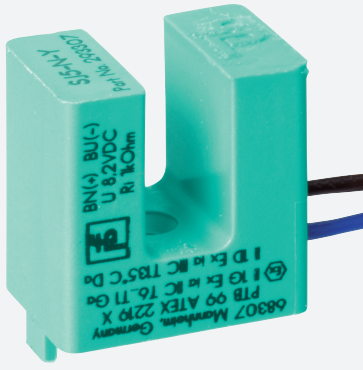
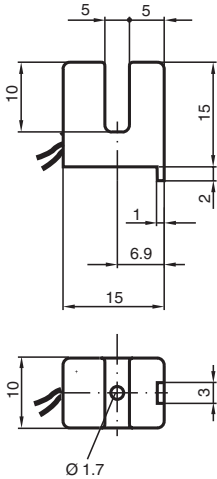


# Inductive slot sensor SJ5-N-Y293307

■ 5 mm slot width



## Dimensions



## Technical Data

### General specifications

|                              |                        |
|------------------------------|------------------------|
| Switching function           | Normally closed (NC)   |
| Output type                  | NAMUR                  |
| Slot width                   | 5 mm                   |
| Depth of immersion (lateral) | 5 ... 7 mm , typ. 6 mm |
| Output polarity              | NAMUR                  |
| 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 ... 2000 Hz                        |
| Hysteresis                   | H     | 0.05 ... 0.65 mm                     |
| Current consumption          |       |                                      |
| Measuring plate not detected |       | $\geq 3$ mA at nominal voltage       |
| Measuring plate detected     |       | $\leq 1$ mA at nominal voltage       |

### Functional safety related parameters

|                   |        |
|-------------------|--------|
| MTTF <sub>d</sub> | 9060 a |
|-------------------|--------|

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## Technical Data

|   |   |
|---|---|
| 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 |
| 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                      |
| 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   |   |
| Material  | PTFE                                    |
| Core cross section                              | 0.14 mm <sup>2</sup>                    |
| Length  | L 500 mm                                |
| Dimensions                                      |   |
| Height  | 15 mm                                   |
| Width   | 10 mm                                   |
| Length  | 15 mm                                   |
| <b>General information</b>                      |   |
| Use in the hazardous area                       | see instruction manuals                 |

## Connection

