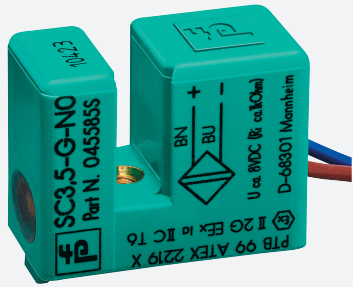


Inductive slot sensor

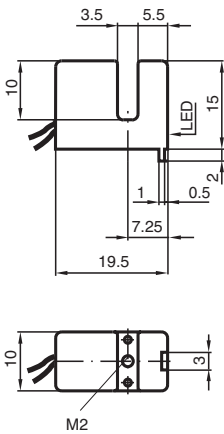
SC3,5-G-N0



- 3.5 mm slot width
- Usable up to SIL 2 acc. to IEC 61508



Dimensions



Technical Data

General specifications

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

Nominal ratings

| | | |
|------------------------------|-------|------------------------------------------------------|
| Nominal voltage | U_o | 8.2 V (R_i approx. 1 k Ω) |
| Operating voltage | U_B | 5 ... 25 V |
| Switching frequency | f | 0 ... 3000 Hz |
| Hysteresis | H | 0.41 ... 0.6 mm |
| Suitable for 2:1 technology | | yes , Reverse polarity protection diode not required |
| Current consumption | | |
| Measuring plate not detected | | ≥ 3 mA |
| Measuring plate detected | | ≤ 1 mA |
| Switching state indicator | | LED, yellow |

Functional safety related parameters

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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 _d | 5880 a |
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |
| Compliance with standards and directives | |
| Standard conformity | |
| NAMUR | EN 60947-5-6:2000 IEC 60947-5-6:1999 |
| Electromagnetic compatibility | NE 21:2007 |
| Standards | EN IEC 60947-5-2 |
| Approvals and certificates | |
| 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 | |
| | cULus Listed Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC |
| 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 |
| Marine approval | DNVGL TAA00001A5 |
| Ambient conditions | |
| Ambient temperature | -25 ... 100 °C (-13 ... 212 °F) |
| Mechanical specifications | |
| Connection type | flexible leads |
| Housing material | PBT |
| Degree of protection | IP67 |
| Cable | |
| Cable diameter | 1.1 mm ± 0.1 mm |
| Bending radius | > 10 x cable diameter |
| Material | PVC |
| Core cross section | 0.14 mm ² |
| Length | L 135 mm |
| Dimensions | |
| Height | 15 mm |
| Width | 10 mm |
| Length | 19.5 mm |
| General information | |
| Use in the hazardous area | see instruction manuals |

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Connection Assignment



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