

Inductive sensor

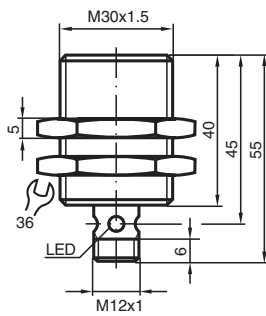
NCB10-30GM40-N0-V1



- 10 mm flush
- Usable up to SIL 2 acc. to IEC 61508
- Stainless steel housing



Dimensions



Technical Data

| General specifications | | |
|-----------------------------|-------|--------------------------------------|
| Switching function | | Normally closed (NC) |
| Output type | | NAMUR |
| Rated operating distance | s_n | 10 mm |
| Installation | | flush |
| Assured operating distance | s_a | 0 ... 8.1 mm |
| Actual operating distance | s_r | 9 ... 11 mm typ. |
| Reduction factor r_{Al} | | 0.35 |
| Reduction factor r_{Cu} | | 0.3 |
| Reduction factor r_{304} | | 0.75 |
| Output type | | 2-wire |
| Nominal ratings | | |
| Nominal voltage | U_o | 8.2 V (R_i approx. 1 k Ω) |
| Switching frequency | f | 0 ... 200 Hz |
| Hysteresis | H | 1 ... 15 typ. 5 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | yes |

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

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Technical Data

| | | |
|---|--|---|
| Current consumption | | |
| Measuring plate not detected | | min. 2.2 mA |
| Measuring plate detected | | ≤ 1 mA |
| Switching state indicator | | Multihole-LED, yellow |
| Functional safety related parameters | | |
| Safety Integrity Level (SIL) | | SIL 2 |
| MTTF _d | | 1821 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 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 |
| Approvals and certificates | | |
| IECEX approval | | |
| Equipment protection level Ga | | IECEX PTB 11.0037X |
| Equipment protection level Gb | | IECEX PTB 11.0037X |
| Equipment protection level Da | | IECEX PTB 11.0037X |
| Equipment protection level Mb | | IECEX PTB 11.0037X |
| ATEX approval | | |
| Equipment protection level Ga | | PTB 00 ATEX 2048 X |
| Equipment protection level Gb | | PTB 00 ATEX 2048 X |
| Equipment protection level Da | | PTB 00 ATEX 2048 X |
| UL approval | | |
| Ordinary Location | | E87056 |
| Hazardous Location | | E501628 |
| Control drawing | | 116-0452 |
| CCC approval | | |
| Hazardous Location | | 2020322315002255 |
| NEPSI approval | | |
| NEPSI certificate | | GYJ16.1393X |
| CML approval | | on request |
| ANZEx | | 18.3018X |
| KCC approval | | |
| Hazardous Location | | 09-AV4BO-0226 |
| Marine approval | | DNVGL TAA00001A5 |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 100 °C (-13 ... 212 °F) |
| Storage temperature | | -40 ... 100 °C (-40 ... 212 °F) |
| Mechanical specifications | | |
| Connection type | | Connector plug |
| Housing material | | Stainless steel 1.4305 / AISI 303 |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Connector | | |
| Threading | | M12 x 1 |
| Number of pins | | 4 |
| Dimensions | | |
| Length | | 55 mm |

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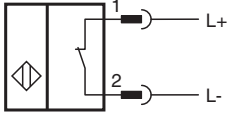
Technical Data

Diameter 30 mm

General information

Use in the hazardous area see instruction manuals

Connection



Wire colors in accordance with EN 60947-5-6

| | | | |
|---|--|----|---------|
| 1 | | BN | (brown) |
| 2 | | BU | (blue) |