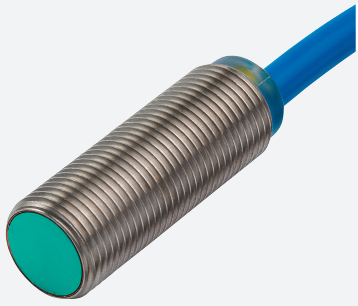


Inductive sensor

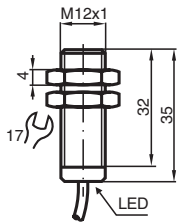
NCB2-12GM35-N0-5M



- 2 mm flush
- NAMUR output
- Stainless steel housing
- Polarity reversal protected
- 5 meter connection cable



Dimensions



Technical Data

| General specifications | | |
|-----------------------------|-------|--------------------------------------|
| Switching function | | Normally closed (NC) |
| Output type | | NAMUR |
| Rated operating distance | s_n | 2 mm |
| Installation | | flush |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Actual operating distance | s_r | 1.8 ... 2.2 mm typ. |
| Reduction factor r_{Al} | | 0.23 |
| Reduction factor r_{Cu} | | 0.21 |
| Reduction factor r_{304} | | 0.7 |
| Output type | | 2-wire |
| Nominal ratings | | |
| Nominal voltage | U_o | 8.2 V (R_i approx. 1 k Ω) |
| Switching frequency | f | 0 ... 1000 Hz |
| Hysteresis | H | 1 ... 10 % typ. 3 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | yes |

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Technical Data

| | |
|---|--|
| Suitable for 2:1 technology | yes , Reverse polarity protection diode not required |
| Current consumption | |
| Measuring plate not detected | min. 3 mA |
| Measuring plate detected | ≤ 1 mA |
| Switching state indicator | all direction LED, yellow |
| Functional safety related parameters | |
| MTTF _d | 2099 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 11.0037X |
| Equipment protection level Gb | IECEX PTB 11.0037X |
| Equipment protection level Da | IECEX PTB 11.0037X |
| Equipment protection level Dc (tc) | IECEX TUR 21.0018X |
| 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 |
| Equipment protection level Dc (tc) | TÜV 20 ATEX 8524 X |
| UL approval | |
| Ordinary Location | E87056 |
| Hazardous Location | E501628 |
| Control drawing | 116-0452 |
| CCC approval | |
| Hazardous Location | 2020322315002255 2024322315005860 |
| CML approval | on request |
| ANZEx | 18.3018X |
| KCC approval | |
| Hazardous Location | 09-AV4BO-0226 |
| Ambient conditions | |
| Ambient temperature | -25 ... 100 °C (-13 ... 212 °F) |
| Storage temperature | -40 ... 100 °C (-40 ... 212 °F) |
| Mechanical specifications | |
| Connection type | cable |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | PBT |
| Degree of protection | IP66 / IP67 |
| Cable | |
| Wire end ferrules | yes |
| Cable diameter | 4.6 mm ± 0.2 mm |
| Bending radius | > 12 x cable diameter |
| Material | PVC |
| Color | blue |
| Number of cores | 2 |

Technical Data

| | | |
|----------------------------|---|--|
| Core cross section | | 0.34 mm ² |
| Length | L | 5 m |
| Dimensions | | |
| Length | | 35 mm |
| Diameter | | 12 mm |
| General information | | |
| Scope of delivery | | 2 self locking nuts in scope of delivery |
| Use in the hazardous area | | see instruction manuals |

Connection Assignment

