

Inductive sensor

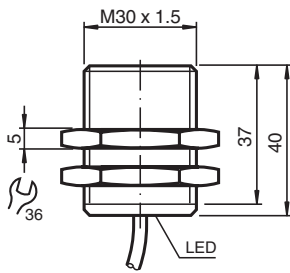
NCB10-30GK40-N0



- 10 mm flush
- NAMUR output
- Polarity reversal protected
- Plastic 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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Technical Data

| | | |
|---|---|---|
| Current consumption | | |
| Measuring plate not detected | | min. 2.2 mA |
| Measuring plate detected | | ≤ 1 mA |
| Switching state indicator | | all direction LED, yellow |
| 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 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 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 | | cULus Listed, General Purpose |
| CCC approval | | |
| Hazardous Location | | 2020322315002255 2024322315005860 |
| CML approval | | on request |
| ANZEx | | 18.3018X |
| 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 | | cable |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Cable | | |
| Wire end ferrules | | yes |
| Cable diameter | | 6 mm ± 0.2 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PVC |
| Color | | blue |
| Number of cores | | 2 |
| Core cross section | | 0.75 mm ² |
| Length | L | 2 m |
| Mass | | 170 g |
| Dimensions | | |
| Length | | 40 mm |
| Diameter | | 30 mm |
| General information | | |
| Scope of delivery | | Supplied with 2 nuts |
| Use in the hazardous area | | see instruction manuals |

Connection Assignment



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