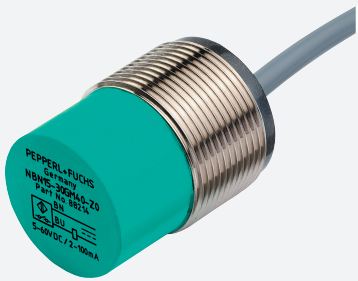


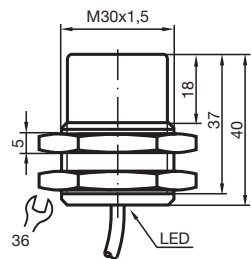
Inductive sensor  
NCN15-30GM40-N0-30M



- Comfort series
- Stainless steel housing



Dimensions



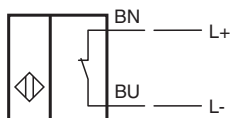
Technical Data

|                                   |                |                       |
|-----------------------------------|----------------|-----------------------|
| General specifications            |                |                       |
| Switching function                |                | Normally closed (NC)  |
| Output type                       |                | NAMUR                 |
| Rated operating distance          | s <sub>n</sub> | 15 mm                 |
| Installation                      |                | non-flush             |
| Assured operating distance        | s <sub>a</sub> | 0 ... 12.15 mm        |
| Actual operating distance         | s <sub>r</sub> | 13.5 ... 16.5 mm typ. |
| Reduction factor r <sub>Al</sub>  |                | 0.4                   |
| Reduction factor r <sub>Cu</sub>  |                | 0.35                  |
| Reduction factor r <sub>304</sub> |                | 0.7                   |
| Output type                       |                | 2-wire                |
| Nominal ratings                   |                |                       |
| Nominal voltage                   | U <sub>o</sub> | 8 V DC                |

## Technical Data

|                                                       |   |                                                                                                                                              |
|-------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------|
| Switching frequency                                   | f | 0 ... 150 Hz                                                                                                                                 |
| Hysteresis                                            | H | 5 ... 15 typ. 5 %                                                                                                                            |
| Reverse polarity protection                           |   | reverse polarity protected                                                                                                                   |
| Short-circuit protection                              |   | yes                                                                                                                                          |
| Current consumption                                   |   |                                                                                                                                              |
| Measuring plate not detected                          |   | min. 2.2 mA                                                                                                                                  |
| Measuring plate detected                              |   | ≤ 1 mA                                                                                                                                       |
| Switching state indicator                             |   | all direction LED, yellow                                                                                                                    |
| <b>Compliance with standards and directives</b>       |   |                                                                                                                                              |
| Standard conformity                                   |   |                                                                                                                                              |
| NAMUR                                                 |   | EN 60947-5-6:2000<br>IEC 60947-5-6:1999                                                                                                      |
| Electromagnetic compatibility                         |   | NE 21:2007                                                                                                                                   |
| Standards                                             |   | EN 60947-5-2:2007<br>EN 60947-5-2/A1:2012<br>IEC 60947-5-2:2007<br>IEC 60947-5-2 AMD 1:2012                                                  |
| <b>Approvals and certificates</b>                     |   |                                                                                                                                              |
| EAC conformity                                        |   | TR CU 012/2011                                                                                                                               |
| UL approval                                           |   |                                                                                                                                              |
| Ordinary Location                                     |   | E87056                                                                                                                                       |
| Hazardous Location                                    |   | E501628                                                                                                                                      |
| Control drawing                                       |   | 116-0452                                                                                                                                     |
| CSA approval                                          |   | cCSAus Listed, General Purpose                                                                                                               |
| CCC approval                                          |   | CCC approval / marking not required for products rated ≤36 V                                                                                 |
| <b>Ambient conditions</b>                             |   |                                                                                                                                              |
| Ambient temperature                                   |   | -25 ... 100 °C (-13 ... 212 °F)                                                                                                              |
| Storage temperature                                   |   | -40 ... 100 °C (-40 ... 212 °F)                                                                                                              |
| <b>Mechanical specifications</b>                      |   |                                                                                                                                              |
| Connection type                                       |   | cable PVC , 30 m                                                                                                                             |
| Core cross-section                                    |   | 0.75 mm <sup>2</sup>                                                                                                                         |
| Housing material                                      |   | Stainless steel 1.4305 / AISI 303                                                                                                            |
| Sensing face                                          |   | PBT                                                                                                                                          |
| Degree of protection                                  |   | IP66 / IP67                                                                                                                                  |
| Cable                                                 |   |                                                                                                                                              |
| Cable diameter                                        |   | 6 mm ± 0.2 mm                                                                                                                                |
| Bending radius                                        |   | > 10 x cable diameter                                                                                                                        |
| <b>Equipment protection level Dc (tc)</b>             |   |                                                                                                                                              |
| <b>Special conditions</b>                             |   |                                                                                                                                              |
| Maximum permissible ambient temperature<br>$T_{Umax}$ |   | Values can be obtained from the following list, depending on the max. operating voltage $U_{Bmax}$ and the minimum series resistance $R_v$ . |
| <b>General information</b>                            |   |                                                                                                                                              |
| Use in the hazardous area                             |   | see instruction manuals                                                                                                                      |

## Connection



Accessories

|                                                                                   |              |                        |
|-----------------------------------------------------------------------------------|--------------|------------------------|
|  | <b>BF 30</b> | Mounting flange, 30 mm |
|-----------------------------------------------------------------------------------|--------------|------------------------|

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