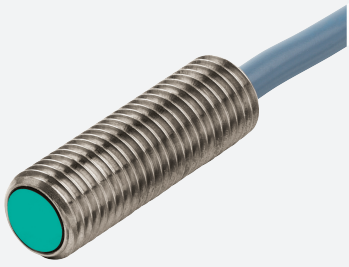


## Inductive sensor

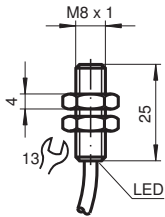
NCB1,5-8GM25-N0-10M



- Comfort series
- 1.5 mm flush



### Dimensions



### Technical Data

#### General specifications

|                            |       |                       |
|----------------------------|-------|-----------------------|
| Switching function         |       | Normally closed (NC)  |
| Output type                |       | NAMUR                 |
| Rated operating distance   | $s_n$ | 1.5 mm                |
| Installation               |       | flush                 |
| Assured operating distance | $s_a$ | 0 ... 1.215 mm        |
| Actual operating distance  | $s_r$ | 1.35 ... 1.65 mm typ. |
| Reduction factor $r_{AI}$  |       | 0.3                   |
| Reduction factor $r_{Cu}$  |       | 0.2                   |
| Reduction factor $r_{304}$ |       | 0.7                   |
| Output type                |       | 2-wire                |

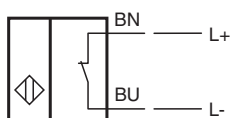
#### Nominal ratings

|                 |       |     |
|-----------------|-------|-----|
| Nominal voltage | $U_o$ | 8 V |
|-----------------|-------|-----|

## Technical Data

|                                                 |   |                                                                                             |
|-------------------------------------------------|---|---------------------------------------------------------------------------------------------|
| Switching frequency                             | f | 0 ... 2000 Hz                                                                               |
| Hysteresis                                      | H | 1 ... 10 typ. 3 %                                                                           |
| Reverse polarity protection                     |   | reverse polarity protected                                                                  |
| Short-circuit protection                        |   | yes                                                                                         |
| 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                       |   | LED, yellow                                                                                 |
| <b>Functional safety related parameters</b>     |   |                                                                                             |
| MTTF <sub>d</sub>                               |   | 3590 a                                                                                      |
| Mission Time (T <sub>M</sub> )                  |   | 20 a                                                                                        |
| Diagnostic Coverage (DC)                        |   | 0 %                                                                                         |
| <b>Compliance with standards and directives</b> |   |                                                                                             |
| Standard conformity                             |   |                                                                                             |
| NAMUR                                           |   | EN 60947-5-6:2000<br>IEC 60947-5-6:1999                                                     |
| 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                                 |   | cabl PVC , 10 m                                                                             |
| Core cross-section                              |   | 0.14 mm <sup>2</sup>                                                                        |
| Housing material                                |   | Stainless steel 1.4305 / AISI 303                                                           |
| Sensing face                                    |   | LCP                                                                                         |
| Degree of protection                            |   | IP67                                                                                        |
| Cable                                           |   |                                                                                             |
| Cable diameter                                  |   | 2.6 mm ± 0.2 mm                                                                             |
| Bending radius                                  |   | > 10 x cable diameter                                                                       |
| <b>General information</b>                      |   |                                                                                             |
| Use in the hazardous area                       |   | see instruction manuals                                                                     |

## Connection



Accessories

|                                                                                   |             |                       |
|-----------------------------------------------------------------------------------|-------------|-----------------------|
|  | <b>BF 8</b> | Mounting flange, 8 mm |
|-----------------------------------------------------------------------------------|-------------|-----------------------|

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