

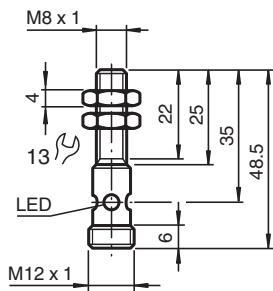
Inductive sensor  
NCB1,5-8GM25-N0-V1



■ 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 $r_{Al}$   |       | 0.22                                 |
| Reduction factor $r_{Cu}$   |       | 0.19                                 |
| Reduction factor $r_{304}$  |       | 0.65                                 |
| Output type                 |       | 2-wire                               |
| Nominal ratings             |       |                                      |
| Nominal voltage             | $U_o$ | 8.2 V ( $R_i$ approx. 1 k $\Omega$ ) |
| Switching frequency         | $f$   | 0 ... 2000 Hz                        |
| Hysteresis                  | $H$   | 1 ... 10 typ. 3 %                    |
| Reverse polarity protection |       | reverse polarity protected           |

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

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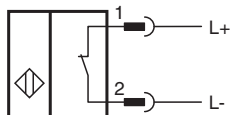
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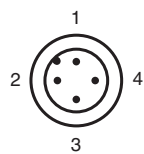
## Technical Data

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| 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                       | Multihole-LED, yellow                                                                       |
| <b>Functional safety related parameters</b>     |                                                                                             |
| MTTF <sub>d</sub>                               | 3430 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                                                                              |
| FM approval                                     |                                                                                             |
| Control drawing                                 | 116-0165                                                                                    |
| 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                                 | Connector plug M12 x 1 , 4-pin                                                              |
| Housing material                                | Stainless steel 1.4305 / AISI 303                                                           |
| Sensing face                                    | LCP                                                                                         |
| Degree of protection                            | IP67                                                                                        |
| <b>General information</b>                      |                                                                                             |
| Use in the hazardous area                       | see instruction manuals                                                                     |

## Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-6

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

Accessories

|                                                                                    |                      |                                              |
|------------------------------------------------------------------------------------|----------------------|----------------------------------------------|
|   | <b>V1-G-N-2M-PUR</b> | Female cordset, M12, 2-pin, NAMUR, PUR cable |
|   | <b>V1-W-N-2M-PUR</b> | Female cordset, M12, 2-pin, NAMUR, PUR cable |
|  | <b>BF 8</b>          | Mounting flange, 8 mm                        |

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