

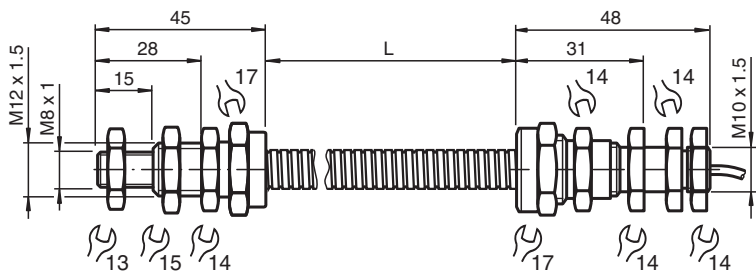
Inductive sensor  
NCB1,5-8GM25-N0-Y295008



■ 1.5 mm flush



Dimensions



Technical Data

|                             |       |                                      |
|-----------------------------|-------|--------------------------------------|
| General specifications      |       |                                      |
| Rated operating distance    | $s_n$ | 1.5 mm                               |
| Installation                |       | flush                                |
| Output polarity             |       | NAMUR                                |
| Assured operating distance  | $s_a$ | 0 ... 1.215 mm                       |
| Actual operating distance   | $s_r$ | 1.35 ... 1.65 mm typ.                |
| Reduction factor $r_{Al}$   |       | 0.3                                  |
| Reduction factor $r_{Cu}$   |       | 0.2                                  |
| Reduction factor $r_{304}$  |       | 0.7                                  |
| 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           |
| Short-circuit protection    |       | yes                                  |

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

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 **PEPPERL+FUCHS**

## Technical Data

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Suitable for 2:1 technology                     | yes , Reverse polarity protection diode not required                                        |
| <b>Current consumption</b>                      |                                                                                             |
| Measuring plate not detected                    | min. 3 mA                                                                                   |
| Measuring plate detected                        | ≤ 1 mA                                                                                      |
| <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> |                                                                                             |
| <b>Standard conformity</b>                      |                                                                                             |
| 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>               |                                                                                             |
| 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 , 2 m<br>Protective hose L = 30 cm                                                |
| Connection assembly                             | Protective hose : stainless steel AISI 304L<br>screwed connection : MS58 nickel-plated      |
| Core cross-section                              | 0.14 mm <sup>2</sup>                                                                        |
| 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

