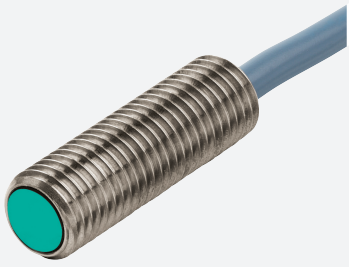


Inductive sensor

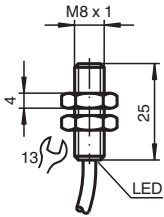
NCB1,5-8GM25-N0



- 1.5 mm flush
- NAMUR output
- Stainless steel housing
- Polarity reversal protected



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} | | 0.3 |
| 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 Ω) |
| Switching frequency | f | 0 ... 2000 Hz |
| Hysteresis | H | 1 ... 10 % typ. 3 % |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | yes |

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Technical Data

| | | |
|---|--|-----|
| 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 | |
| Functional safety related parameters | | |
| MTTF _d | 3590 a | |
| Mission Time (T _M) | 20 a | |
| Diagnostic Coverage (DC) | 0 % | |
| Compliance with standards and directives | | |
| Standard conformity | | |
| NAMUR | EN 60947-5-6:2000 IEC 60947-5-6:1999 | |
| Standards | EN IEC 60947-5-2 | |
| Approvals and certificates | | |
| IECEX approval | | |
| Equipment protection level Ga | IECEX PTB 11.0037X | |
| Equipment protection level Gb | IECEX PTB 11.0037X | |
| Equipment protection level Da | IECEX PTB 11.0037X | |
| Equipment protection level Mb | IECEX PTB 11.0037X | |
| ATEX approval | | |
| Equipment protection level Ga | PTB 00 ATEX 2048 X | |
| Equipment protection level Gb | PTB 00 ATEX 2048 X | |
| Equipment protection level Da | PTB 00 ATEX 2048 X | |
| UL approval | | |
| Ordinary Location | E87056 | |
| Hazardous Location | E501628 | |
| Control drawing | 116-0452 | |
| CCC approval | | |
| Hazardous Location | 2020322315002256 | |
| CML approval | on request | |
| ANZEx | 18.3018X | |
| 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 | Stainless steel 1.4305 / AISI 303 | |
| Sensing face | LCP | |
| Degree of protection | IP67 | |
| Cable | | |
| Wire end ferrules | yes | |
| Cable diameter | 2.6 mm ± 0.2 mm | |
| Bending radius | > 10 x cable diameter | |
| Material | PVC | |
| Color | blue | |
| Number of cores | 2 | |
| Core cross section | 0.14 mm ² | |
| Length | L | 2 m |
| Dimensions | | |
| Length | 25 mm | |
| Diameter | 8 mm | |
| General information | | |

Technical Data

| | |
|---------------------------|--|
| Scope of delivery | 2 self locking nuts in scope of delivery |
| Use in the hazardous area | see instruction manuals |

Connection Assignment

