

Inductive sensor

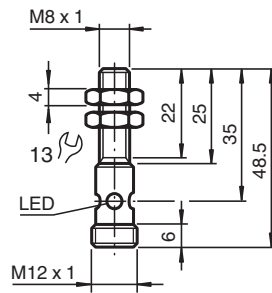
NCB1,5-8GM25-N0-V1



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

Release date: 2023-01-26 Date of issue: 2023-01-26 Filename: 70133079_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS

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 | Multihole-LED, yellow |
| Functional safety related parameters | |
| MTTF _d | 3430 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 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012 |
| 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 |
| NEPSI approval | |
| NEPSI certificate | GYJ16.1393X |
| TIIS approval | |
| TIIS approval | on request |
| ANZEx | |
| ANZEx | 18.3018X |
| Marine approval | |
| Marine approval | DNVGL TAA00001A5 |
| Ambient conditions | |
| Ambient temperature | -25 ... 100 °C (-13 ... 212 °F) |
| Storage temperature | -40 ... 100 °C (-40 ... 212 °F) |
| Mechanical specifications | |
| Connection type | Connector plug |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | LCP |
| Degree of protection | IP67 |
| Connector | |
| Threading | M12 x 1 |
| Number of pins | 4 |
| General information | |
| Use in the hazardous area | see instruction manuals |

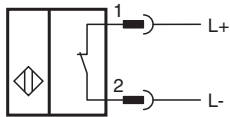
Release date: 2023-01-26 Date of issue: 2023-01-26 Filename: 70133079_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.comUSA: +1 330 486 0001
fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Connection







Connection Assignment



Wire colors in accordance with EN 60947-5-6

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

Accessories

| | | |
|---|----------------------|--|
|  | V1-G-N-2M-PUR | Female cordset single-ended M12 straight A-coded, 2-pin, PUR cable blue, NAMUR |
|  | V1-W-N-2M-PUR | Female cordset single-ended M12 angled A-coded, 2-pin, PUR cable blue, NAMUR |
|  | BF 8 | Mounting flange, 8 mm |
|  | KCD2-E2L | Sensor output interface terminal with lead breakage monitoring |

Release date: 2023-01-26 Date of issue: 2023-01-26 Filename: 70133079_eng.pdf