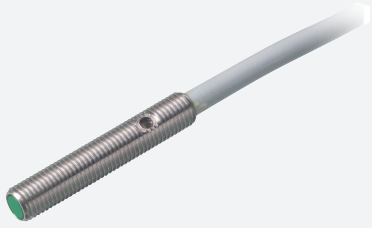


Inductive sensor

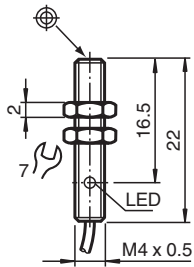
NBB1-4GM22-E2



- 1 mm flush
- Miniature design



Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-------|--------------------|
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | s_n | 1 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 0.81 mm |
| Reduction factor r_{Al} | | 0.4 |
| Reduction factor r_{Cu} | | 0.29 |
| Reduction factor r_{304} | | 0.76 |
| Reduction factor r_{Brass} | | 0.46 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|-----------------------------|-------|----------------------------|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 700 Hz |
| Hysteresis | H | typ. 5% |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0 ... 100 mA |
| Off-state current | I_r | 0 ... 0.1 mA typ. at 25 °C |
| No-load supply current | I_o | ≤ 10 mA |
| Switching state indicator | | LED, yellow |

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 206385_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

| Functional safety related parameters | | |
|--|---|--|
| MTTF _d | | 1340 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| Standards | | EN IEC 60947-5-2 |
| Approvals and certificates | | |
| UL approval | | cULus Listed, General Purpose |
| CCC approval | | CCC approval / marking not required for products rated ≤36 V |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Mechanical specifications | | |
| Connection type | | cable |
| Housing material | | Stainless steel 1.4305 / AISI 303 |
| Sensing face | | PC |
| Degree of protection | | IP67 |
| Cable | | |
| Cable diameter | | 2.6 mm ± 0.1 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PUR |
| Color | | grey |
| Number of cores | | 3 |
| Core cross section | | 0.055 mm ² |
| Length | L | 2 m |
| Dimensions | | |
| Length | | 22 mm |
| Diameter | | 4 mm |

Connection

