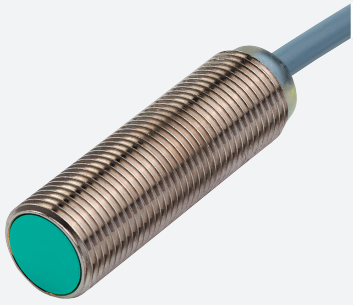


Inductive sensor

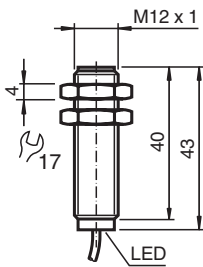
NBB2-12GM40-Z0



- 2 mm flush
- 2-wire DC



Dimensions



Technical Data

| General specifications | | |
|-----------------------------|-------|---------------------------|
| Switching function | | Normally open (NO) |
| Output type | | Two-wire |
| Rated operating distance | s_n | 2 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Actual operating distance | s_r | 1.8 ... 2.2 mm typ. |
| Reduction factor r_{Al} | | 0.18 |
| Reduction factor r_{Cu} | | 0.12 |
| Reduction factor r_{304} | | 0.67 |
| Output type | | 2-wire |
| Nominal ratings | | |
| Operating voltage | U_B | 5 ... 60 V |
| Switching frequency | f | 0 ... 1000 Hz |
| Hysteresis | H | 1 ... 10 % typ. 5 % |
| Reverse polarity protection | | reverse polarity tolerant |

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

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pf PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|---|
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 5 V |
| Operating current | I_L | 2 ... 100 mA |
| Lowest operating current | I_m | 2 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. |
| Switching state indicator | | all direction LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 2250 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 | | Certified by China Compulsory Certification (CCC) |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Mechanical specifications | | |
| Connection type | | cable |
| Housing material | | brass, nickel-plated |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Cable | | |
| Wire end ferrules | | yes |
| Cable diameter | | 3 mm ± 0.2 mm |
| Bending radius | | > 10 x cable diameter |
| Material | | PVC |
| Color | | grey |
| Number of cores | | 2 |
| Core cross section | | 0.14 mm ² |
| Length | L | 2 m |
| Mass | | 57 g |
| Dimensions | | |
| Length | | 40 mm |
| Diameter | | 12 mm |

Connection

