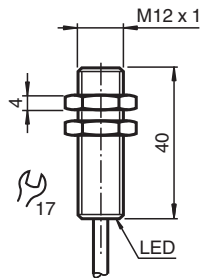


Inductive sensor NBB2-12GS40-Z4L

- 2 mm flush
- 2-wire DC sensor with minimum off-state current
- Switching status indicator, yellow LED
- Stainless steel housing



Dimensions



Technical Data

| General specifications | | |
|-----------------------------|-------|---|
| Switching function | | Normally open (NO) |
| Output type | | Two-wire with minimum off-state current |
| 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} | | 0.3 |
| Reduction factor r_{Cu} | | 0.17 |
| Reduction factor r_{304} | | 0.7 |
| Output type | | 2-wire |
| Nominal ratings | | |
| Operating voltage | U_B | 4 ... 30 V |
| Switching frequency | f | 0 ... 700 Hz |
| Hysteresis | H | 1 ... 10 typ. 5 % |
| Reverse polarity protection | | yes |

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

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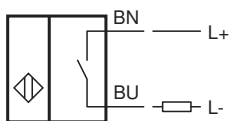
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PF PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|---|
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 4 V |
| Operating current | I_L | 2 ... 30 mA |
| Lowest operating current | I_m | 2 mA |
| Off-state current | I_r | ≤ 200 μ A |
| Switching state indicator | | all direction LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 1558 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| 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 | | |
| UL approval | | cULus Listed, General Purpose, Class 2 Power Source |
| CCC approval | | CCC approval / marking not required for products rated ≤ 36 V |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) |
| Mechanical specifications | | |
| Connection type | | cable PUR , 2 m |
| Core cross section | | 0.14 mm ² |
| Housing material | | Stainless steel 1.4305 / AISI 303 |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Mass | | 40 g |
| General information | | |
| Scope of delivery | | 2 self locking nuts in scope of delivery |

Connection



Accessories

| | | |
|---|--------------|------------------------|
|  | BF 12 | Mounting flange, 12 mm |
|---|--------------|------------------------|