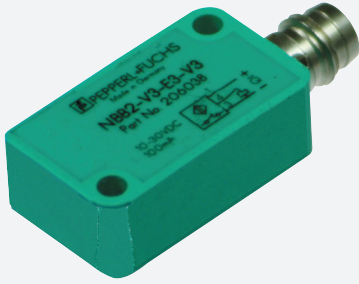


Inductive sensor

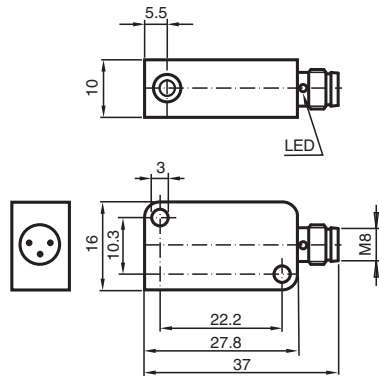
NBB2-V3-E3-V3



- 2 mm flush
- 3-wire DC



Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-------|----------------------|
| Switching function | | Normally closed (NC) |
| Output type | | PNP |
| Rated operating distance | s_n | 2 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 1.62 mm |
| Reduction factor r_{Al} | | 0.35 |
| Reduction factor r_{Cu} | | 0.33 |
| Reduction factor r_{304} | | 0.82 |
| Reduction factor r_{Brass} | | 0.5 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|-----------------------------|-------|--|
| Operating voltage | U_B | 10 ... 30 V DC |
| Switching frequency | f | 0 ... 1000 Hz |
| 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 ... 0.5 mA typ. 0.1 μ A at 25 °C |

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

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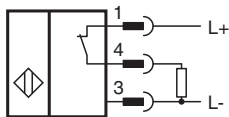
Singapore: +65 6779 9091
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PF PEPPERL+FUCHS

Technical Data

| | | |
|---|-------|--|
| No-load supply current | I_0 | $\leq 15 \text{ mA}$ |
| Switching state indicator | | LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 2300 a |
| Mission Time (T _M) | | 20 a |
| Diagnostic Coverage (DC) | | 0 % |
| Compliance with standards and directives | | |
| Standard conformity | | |
| Standards | | EN 60947-5-2:2007 IEC 60947-5-2:2007 |
| Approvals and certificates | | |
| UL approval | | cULus Listed, General Purpose |
| CCC approval | | CCC approval / marking not required for products rated $\leq 36 \text{ V}$ |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Mechanical specifications | | |
| Connection type | | Connector plug M8 x 1 , 3-pin |
| Housing material | | PBT |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Tightening torque, fastening screws | | $\leq 0.4 \text{ Nm}$ |
| Dimensions | | |
| Height | | 10.2 mm |
| Width | | 27.8 mm |
| Length | | 16 mm |

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

| | | |
|---|----|---------|
| 1 | BN | (brown) |
| 3 | BU | (blue) |
| 4 | BK | (black) |