

Inductive sensor

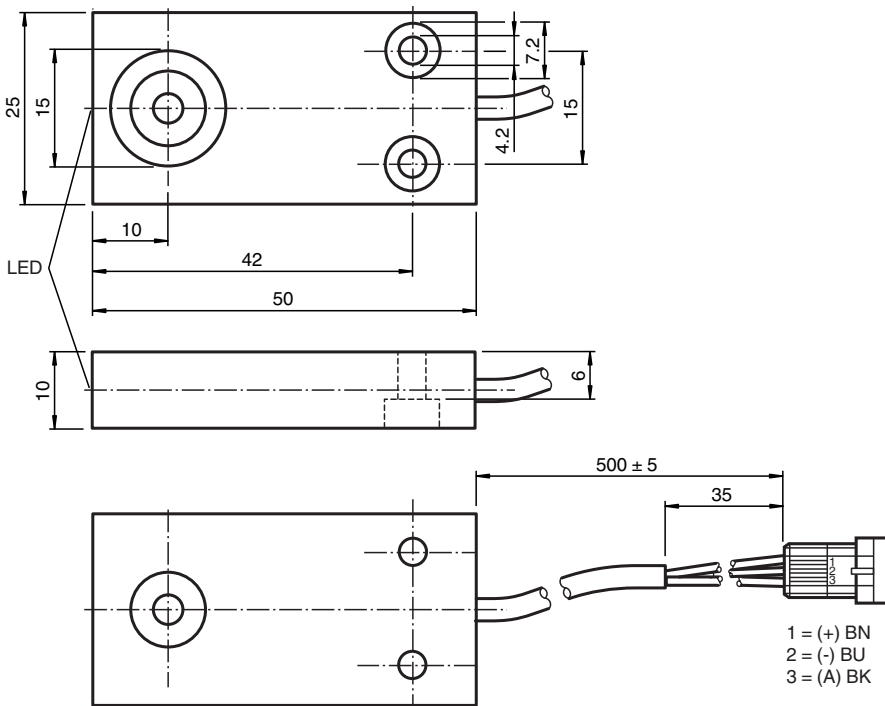
NBB5-F33M-E2-Y228177



- Basic series
- 5 mm flush
- 3-wire DC
- Metal housing



Dimensions



Technical Data

General specifications

| | | |
|----------------------------|-------|--------------------|
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | s_n | 5 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 4.05 mm |
| Reduction factor r_{Al} | | 0.3 |
| Reduction factor r_{Cu} | | 0.2 |
| Reduction factor r_{304} | | 0.6 |

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

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Technical Data

| | | |
|---|-------|--|
| Output type | | 3-wire |
| Nominal ratings | | |
| Operating voltage | U_B | 10 ... 30 V DC |
| Switching frequency | f | 0 ... 500 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 ... 200 mA |
| Off-state current | I_r | 0 ... 0.5 mA typ. 0.1 μ A |
| No-load supply current | I_0 | ≤ 15 mA |
| Time delay before availability | t_v | ≤ 10 ms |
| Switching state indicator | | LED |
| Functional safety related parameters | | |
| MTTF _d | | 1840 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 |
| CSA approval | | cCSAus 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 | | PVC cable with AMP connector AMP housing 282105-1 AMP crimp 282404-1 AMP sealing 281934-4 |
| Core cross section | | 0.34 mm ² |
| Housing material | | metal |
| Sensing face | | PBT |
| Degree of protection | | IP67 |
| Dimensions | | |
| Height | | 25 mm |
| Width | | 50 mm |
| Length | | 10 mm |

Connection

