

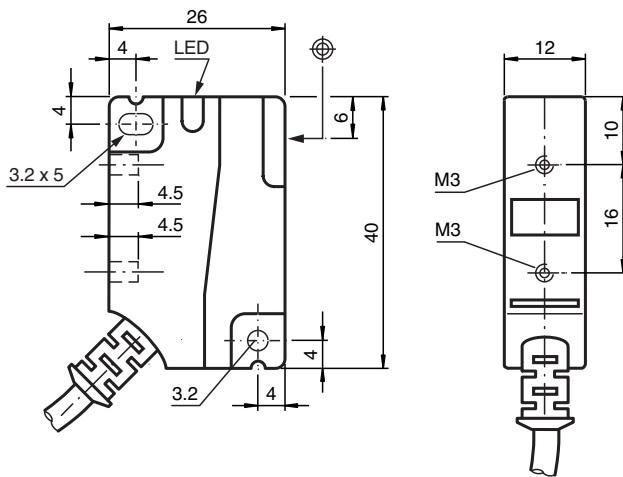


Inductive sensor NBB4-F1-A2 5M

- 4 mm flush
- 4-wire DC



Dimensions



Technical Data

General specifications

| | | |
|------------------------------|-------|---------------|
| Switching function | | complementary |
| Output type | | PNP |
| Rated operating distance | s_n | 4 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 3.24 mm |
| Reduction factor r_{Al} | | 0.3 |
| Reduction factor r_{Cu} | | 0.2 |
| Reduction factor r_{304} | | 0.7 |
| Reduction factor r_{Brass} | | 0.55 |

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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

| | | |
|---|-----------|---|
| Output type | 4-wire | |
| Nominal ratings | | |
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 1400 Hz |
| Hysteresis | H | typ. 5% |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 2.5 V |
| Rated insulation voltage | U_{BIS} | 60 V |
| Operating current | I_L | 0 ... 250 mA |
| Off-state current | I_r | < 0.5 mA |
| No-load supply current | I_o | ≤ 15 mA |
| Switching state indicator | | LED, yellow |
| Functional safety related parameters | | |
| MTTF _d | | 1640 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 |
| 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 | | cable PVC , 5 m |
| Core cross section | | 0.5 mm ² |
| Housing material | | PA, green |
| Sensing face | | PA |
| Degree of protection | | IP67 |
| Cable | | |
| Cable diameter | | 5.2 mm \pm 0.2 mm |
| Tightening torque, fastening screws | | Threading M3 max: 1.1 Nm |

Connection

