



Model Number

NBB1,5-F41-E2

Features

- 1.5 mm flush
- 3-wire DC
- Metal housing

Technical Data

General specifications

| | | |
|----------------------------|-------|--------------------|
| Switching function | | Normally open (NO) |
| Output type | | PNP |
| Rated operating distance | s_n | 1.5 mm |
| Installation | | flush |
| Output polarity | | DC |
| Assured operating distance | s_a | 0 ... 1.215 mm |
| Reduction factor r_{AI} | | 0.45 |
| Reduction factor r_{CU} | | 0.35 |
| Reduction factor r_{304} | | 0.75 |
| Output type | | 3-wire |

Nominal ratings

| | | |
|--------------------------------|-------|----------------------------|
| Operating voltage | U_B | 10 ... 30 V DC |
| Switching frequency | f | 0 ... 1500 Hz |
| Hysteresis | H | typ. 3 % |
| 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. |
| No-load supply current | I_0 | ≤ 15 mA |
| Time delay before availability | t_v | ≤ 20 ms |
| Switching state indicator | | LED, yellow |

Functional safety related parameters

| | |
|--------------------------------|--------|
| MTTF _d | 1528 a |
| Mission Time (T _M) | 20 a |
| Diagnostic Coverage (DC) | 0 % |

Ambient conditions

| | |
|---------------------|--------------------------------|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
|---------------------|--------------------------------|

Mechanical specifications

| | |
|----------------------|-----------------------|
| Connection type | cable PVC, 2 m |
| Core cross-section | 0.14 mm ² |
| Housing material | brass, nickel-plated |
| Sensing face | PBT |
| Degree of protection | IP67 |
| Cable | |
| Cable diameter | 3 mm + 0.3 mm |
| Bending radius | > 10 x cable diameter |
| Mass | 13.5 g |

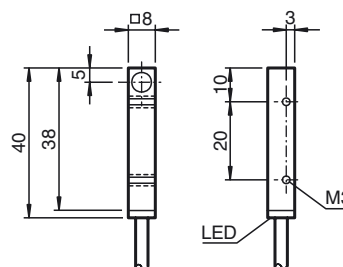
Compliance with standards and directives

| | |
|---------------------|---|
| 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 |

Dimensions



Electrical Connection

