



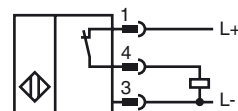
Model Number

NEN6-6,5M45-E3-V3

Features

- Increased operating distance
- 6 mm non-flush

Connection



Pinout



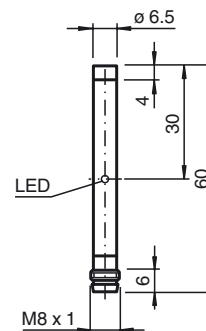
Wire colors in accordance with EN 60947-5-2

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

Accessories

- BF 6,5**
Mounting flange, 6.5 mm
- V3-GM**
Female connector, M8, 3-pin, field attachable
- V3-WM**
Female connector, M8, 3-pin, field attachable
- V3-GM-2M-PUR**
Cable socket, M8, 3-pin, PUR cable
- V3-WM-2M-PUR**
Cable socket, M8, 3-pin, PUR cable

Dimensions



Technical Data

| General specifications | | | |
|--|-------|--|----|
| Switching element function | | PNP | NC |
| Rated operating distance | s_n | 6 mm | |
| Installation | | non-flush | |
| Output polarity | | DC | |
| Assured operating distance | s_a | 0 ... 4.86 mm | |
| Actuating element | | mild steel, e. g. 1.0037, SR235JR (formerly St37-2) | |
| | | 18 mm x 18 mm x 1 mm | |
| Reduction factor r_{Al} | | 0.5 | |
| Reduction factor r_{Cu} | | 0.45 | |
| Reduction factor r_{304} | | 0.8 | |
| Reduction factor r_{Brass} | | 0.55 | |
| Nominal ratings | | | |
| Installation conditions | | | |
| A | | in steel 1.0037 (St37): 8 mm | |
| B | | 12 mm | |
| C | | 18 mm | |
| F | | 28 mm | |
| Operating voltage | U_B | 10 ... 30 V DC | |
| Switching frequency | f | 0 ... 750 Hz | |
| Hysteresis | H | 0.06 ... 0.6 mm | |
| Reverse polarity protection | | yes | |
| Short-circuit protection | | pulsing | |
| Overload resistance | | yes | |
| Wire breakage protection | | yes | |
| Surge suppression | | yes | |
| Ripple | | 10 % | |
| Voltage drop | U_d | ≤ 2 V | |
| Repeat accuracy | | 0.3 mm | |
| Operating current | I_L | 0 ... 200 mA, above 50°C ≤ 150 mA | |
| Off-state current | I_r | ≤ 10 μ A | |
| No-load supply current | I_0 | ≤ 15 mA | |
| Time delay before availability | t_v | ≤ 50 ms | |
| Indication of the switching state | | LED, yellow | |
| Functional safety related parameters | | | |
| MTTF _d | | 1740 a | |
| Mission Time (T _M) | | 20 a | |
| Diagnostic Coverage (DC) | | 0 % | |
| Ambient conditions | | | |
| Ambient temperature | | -25 ... 85 °C (-13 ... 185 °F) | |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) | |
| Mechanical specifications | | | |
| Connection type | | Device connector M8 x 1, 3-pin | |
| Housing material | | brass, nickel-plated | |
| Sensing face | | PBT | |
| Protection degree | | IP67 | |
| Mass | | 20 g | |
| Tightening torque, fastening screws | | max. 2 Nm | |
| 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, Class 2 Power Source | |
| CCC approval | | Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval. | |

Release date: 2012-10-19 14:18 Date of issue: 2012-10-19 23:16:79_eng.xml

Installation conditions

