



Model Number

NBB0,8-5GM25-E2-V3

Features

- Basic series
- 0.8 mm flush

Accessories

BF 5

Mounting flange, 5 mm

V3-WM

Female connector, M8, 3-pin, field attachable

V3-GM

Female connector, M8, 3-pin, field attachable

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

Technical Data

General specifications

| | |
|----------------------------|----------------------|
| Switching function | Normally open (NO) |
| Output type | PNP |
| Rated operating distance | s_n 0.8 mm |
| Installation | flush |
| Output polarity | DC |
| Assured operating distance | s_a 0 ... 0.648 mm |
| Reduction factor r_{Al} | 0.45 |
| Reduction factor r_{Cu} | 0.4 |
| Reduction factor r_{304} | 0.85 |
| Output type | 3-wire |

Nominal ratings

| | | |
|-----------------------------|-------|----------------------------|
| Operating voltage | U_B | 10 ... 30 V |
| Switching frequency | f | 0 ... 3000 Hz |
| Reverse polarity protection | | reverse polarity protected |
| Short-circuit protection | | pulsing |
| Voltage drop | U_d | ≤ 3 V |
| Operating current | I_L | 0.1 ... 100 mA |
| Off-state current | I_r | 0 ... 0.1 mA |
| No-load supply current | I_0 | ≤ 15 mA |
| Switching state indicator | | LED, yellow |

Functional safety related parameters

| | |
|--------------------------------|--------|
| MTTF _d | 1402 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 | Connector M8 x 1, 3-pin |
| Housing material | Stainless steel 1.4305 / AISI 303 |
| Sensing face | PBT |
| Degree of protection | IP67 |

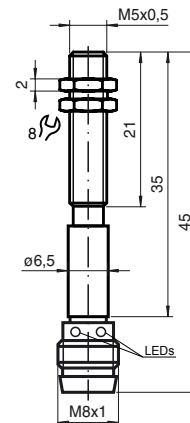
Compliance with standards and directives

| | |
|---------------------|---|
| Standard conformity | |
| Standards | EN 60947-5-2:2007 IEC 60947-5-2:2007 |

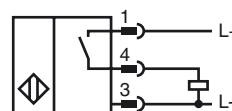
Approvals and certificates

| | |
|--------------|--|
| UL approval | cULus Listed, General Purpose |
| CSA approval | cCSAus Listed, General Purpose |
| CCC approval | CCC approval / marking not required for products rated ≤ 36 V |

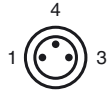
Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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



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