







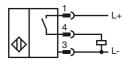
Model Number

NBB2-12GM50-E2-V1

Features

- 2 mm embeddable
- Extended temperature range

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

| 1 | BN | (brown) |
|---|----|---------|
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |

Accessories

RF 12

Mounting flange, 12 mm

EXG-12

Quick mounting bracket with dead stop

V1-G

4-pin, M12 female field-attachable connector

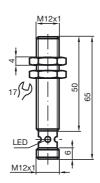
V1-W

4-pin, M12 female field-attachable connector

V1-G-2M-PUR
Cable socket, M12, 4-pin, PUR cable
V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

Dimensions



Technical Data

| General specifications | | |
|-----------------------------------|----------------|---|
| Switching element function | | PNP NO |
| Rated operating distance | s _n | 2 mm |
| Installation | | embeddable |
| Output polarity | | DC |
| Assured operating distance | s _a | 0 1.62 mm (-25 70 °C (-13 158 °F)) 0 1.52 mm (-4025 °C (-4013 °F)) |
| Reduction factor r _{Al} | | 0.3 |
| Reduction factor r _{Cu} | | 0.2 |
| Reduction factor r ₃₀₃ | | 0.7 |
| Nominal ratings | | |

Functional safety related parameters

MTTF_d 990 a

Mission Time (T_M) 20 a

Diagnostic Coverage (DC) 0 %

Diagnostic Coverage (DC) 0 %

Ambient conditions

Ambient temperature -40 ... 70 °C (-40 ... 158 °F)

Mechanical specifications

Connection type Device connector M12 x 1 , 4-pin
Housing material brass, nickel-plated
Sensing face PBT

Protection degree General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity
Standards

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 Products with a maximum operating voltage of ≤36 V do not bear a

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CCC marking because they do not require approval.

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