





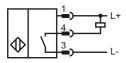
Model Number

NBB2-12GM50-E0-V1

Features

· 2 mm embeddable

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

BF 12

Mounting flange, 12 mm

Quick mounting bracket with dead stop

V1-G

4-pin, M12 female field-attachable connector

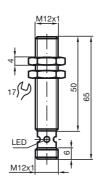
V1-W 4-pin, M12 female field-attachable connector

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 | | NPN | NO | | |
| Rated operating distance | s _n | 2 mm | | | |
| Installation | | embeddab | le | | |
| Output polarity | | DC | | | |
| Assured operating distance | sa | 0 1.62 m | ım | | |
| Reduction factor r _{Al} | | 0.3 | | | |
| Reduction factor r _{Cu} | | 0.2 | | | |
| Reduction factor r ₃₀₃ | | 0.7 | | | |
| Nominal ratings | | | | | |
| Operating voltage | U_{R} | 10 30 V | | | |

Switching frequency 0 ... 1500 Hz Reverse polarity protected Short-circuit protection reverse polarity protected pulsing Voltage drop . ≤3 V Uд Operating current 0 ... 200 mA I_L Off-state current $0 \dots 0.5$ mA typ. $0.1~\mu A$ No-load supply current Indication of the switching state ≤ 17 mA Multihole-LED, yellow

Functional safety related parameters

MTTF_d Mission Time (T_M) 1600 a 20 a 0 % Diagnostic Coverage (DC)

Ambient conditions

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

Mechanical specifications

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

Sensing face Protection degree PRT IP67 General information

Scope of delivery 2 self locking nuts in scope of delivery

Compliance with standards and directives

Standard conformity EN 60947-5-2:2007 Standards 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 CCC marking because they do not require approval.

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