





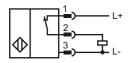
### **Model Number**

NBB2-12GM50-E3-V1

#### **Features**

· 2 mm embeddable

## Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN
2	WH
3	BU
4	BK

## **Accessories**

**BF 12** 

Mounting flange, 12 mm

V1-G

Field attachable female cordset

V1-W

Field attachable female cordset

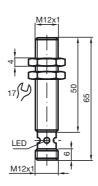
V1-G-2M-PUR

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

Cable socket, M12, 4-pin, PUR cable EXG-12

Quick mounting bracket with dead stop

## **Dimensions**



## Technical Data

1 Commour Bata		
General specifications		
Switching element function		PNP NC
Rated operating distance	s <sub>n</sub>	2 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	sa	0 1.62 mm
Reduction factor r <sub>Al</sub>		0.3
Reduction factor r <sub>Cu</sub>		0.2
Reduction factor r <sub>V2A</sub>		0.7
Nominal ratings		
Operating voltage	UB	10 30 V
Switching frequency	f	0 1500 Hz
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Malka ara aluara	1.1	< 0.1/

Voltage drop \_ ≤ 3 V Operating current 0 ... 200 mA 0 ... 0.5 mA typ. 0.1  $\mu A$  at 25  $^{\circ} C$ Off-state current No-load supply current Indication of the switching state ≤ 17 mA

Multihole-LED, yellow Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 990 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.