





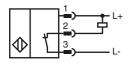
## **Model Number**

NBB2-12GM50-E1-V1

#### **Features**

· 2 mm flush

## Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	WH BU

# **Accessories**

**BF 12** 

087770 eng.xml

issue:

Date of

2012-05-11 10:17

Release date:

Mounting flange, 12 mm

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

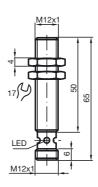
Cable socket, M12, 4-pin, PUR cable

EXG-12

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Quick mounting bracket with dead stop

### **Dimensions**



# **Technical Data**

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General specifications			
Switching element function		NPN NC	
Rated operating distance	s <sub>n</sub>	2 mm	
Installation		flush	
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>304</sub>		0.7	
Nominal ratings			
Operating voltage	U <sub>B</sub>	10 30 V	
Switching frequency	f	0 1500 Hz	
Reverse polarity protected		reverse polarity protected	
Short-circuit protection		nulsing	

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

≤ 17 mA Indication of the switching state Multihole-LED, yellow

Functional safety related parameters MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)

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 PRT

Sensing face Protection degree 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

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CCC approval Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.