







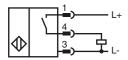
## **Model Number**

NBB4-12GM30-E2-T-V1

#### **Features**

- Increased operating distance
- 4 mm flush
- Temperature range -25 ... 100 °C (-13 ... 212 °F)

### Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

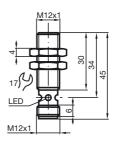
## **Accessories**

Quick mounting bracket with dead stop

V1-G-2M-PUR H/S

Female cordset, M12, 4-pin, irradiated PUR cable

### **Dimensions**



# **Technical Data**

General specifications		
Switching element function		PNP NO
Rated operating distance	s <sub>n</sub>	4 mm
Installation		flush
Output polarity		DC
Assured operating distance	sa	0 3.24 mm
Reduction factor r <sub>Al</sub>		0.45
Reduction factor r <sub>Cu</sub>		0.35
Reduction factor r <sub>304</sub>		0.7
Nominal ratings		

Operating voltage UB 10 ... 30 V Switching frequency 0 ... 1000 Hz Hysteresis Reverse polarity protected 1 ... 20 typ. 5 % reverse polarity protected Short-circuit protection pulsing Voltage drop ≤ 3 V  $U_{d}$ 

0 ... 100 mA 0 ... 0.5 mA typ. 0.1 μA Operating current Off-state current No-load supply current ≤ 15 mA Indication of the switching state Multihole-LED, yellow

Functional safety related parameters

 $MTTF_d$ 1940 a Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 0 %

**Ambient conditions** Ambient temperature -25 ... 100 °C (-13 ... 212 °F)

Mechanical specifications

Connection type connector M12 x 1, 4-pin Cable version Housing material PBT brass, nickel-plated Sensing face Protection degree IP67 Mass 30 g

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 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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