





## **Model Number**

#### NBB15-30GM50-E2-V1

#### **Features**

- 15 mm flush
- · Increased operating distance
- **Extended temperature range**

# **Accessories**

BF 30

Mounting flange, 30 mm

**EXG-30** 

Quick mounting bracket with dead stop

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical	Data
General specif	ications

Sv

Switching element function		PNP	NO
Rated operating distance	s <sub>n</sub>	15 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	s <sub>a</sub>		nm ( -25 70 °C (-13 158 °F) ) m ( -4025 °C (-4013 °F) )

Reduction factor rAI Reduction factor r<sub>Cu</sub> Reduction factor r<sub>304</sub>

Nominal ratings 10 ... 30 V 0 ... 200 Hz Operating voltage  $U_{\mathsf{B}}$ Switching frequency Hysteresis typ. 5% Reverse polarity protection reverse polarity protected

Short-circuit protection Voltage drop pulsing ≤3 V  $U_{d}$ Operating current 0 ... 200 mA Off-state current 0 ... 0.5 mA typ. 0.1  $\mu A$  at 25  $^{\circ} C$ ≤ 15 mA Multihole-LED, yellow

No-load supply current Switching state indicator Functional safety related parameters

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 1000 a 20 a

Ambient conditions

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

**Mechanical specifications** 

Connection type Connector M12 x 1, 4-pin Housing material brass, nickel-plated Sensing face PBT IP67 Degree of protection

## Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

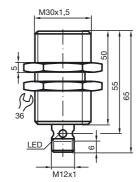
Approvals and certificates

cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose CCC approval CCC approval / marking not required for products rated ≤36 V

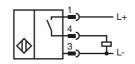
NO

0.3 0.75

#### **Dimensions**



#### **Electrical Connection**



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

2