







## **Model Number**

#### NBB15-30GM30-E2-V1

#### **Features**

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

## **Accessories**

BF 30-F

Mounting flange with dead stop, 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 specifications Switching element function

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	Rated operating distance	s <sub>n</sub>	15 mm			
	Installation		flush			
	Output polarity		DC			
	Assured operating distance	s <sub>a</sub>	0 12.15 mm ( -25 70 °C (-13 158 °F) ) 0 11.4 mm ( -4025 °C (-4013 °F) )			
	Reduction factor r <sub>Al</sub>		0.3			
	Reduction factor r <sub>Cu</sub>		0.3			
	Reduction factor r <sub>304</sub>		0.75			
- 1	Nominal ratings					

NO

PNP

10 ... 30 V Operating voltage  $U_{B}$ Switching frequency 0 ... 150 Hz Hysteresis typ. 5% Reverse polarity protection reverse polarity protected Short-circuit protection Voltage drop pulsing ≤3 V Operating current 0 ... 100 mA Off-state current 0 ... 0.5 mA typ. 0.1  $\mu A$  at 25  $^{\circ} C$ 

No-load supply current I<sub>0</sub> ≤ 15 mA
Switching state indicator Multihole-LED, yellow
Functional safety related parameters

 MTTF<sub>d</sub>
 2090 a

 Mission Time (T<sub>M</sub>)
 20 a

 Diagnostic Coverage (DC)
 0 %

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
Degree of protection IP67

Compliance with standards and directives

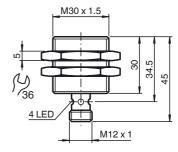
Standard conformity

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

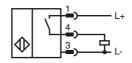
Approvals and certificates

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

# **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)