







## **Model Number**

NBB8-18GM30-E2-V1

### **Features**

- 8 mm flush
- Increased operating distance
- **Extended temperature range**

### **Accessories**

V1-G

Female connector, M12, 4-pin, field attachable

BF 18-F

Mounting flange with dead stop, 18 mm

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

**EXG-18** 

Quick mounting bracket with dead stop

## **Technical Data**

General specifications

Switching function Normally open (NO) Output type Rated operating distance PNP 8 mm Installation flush Output polarity DC

Assured operating distance Reduction factor rAI

Reduction factor r<sub>Cu</sub> Reduction factor r<sub>304</sub> Output type
Nominal ratings

Operating voltage Switching frequency 10 ... 30 V 0 ... 500 Hz UB Hysteresis typ. 5% Reverse polarity protection reverse polarity protected

Short-circuit protection pulsing Voltage drop ≤3 V Operating current 0 ... 100 mA Off-state current

0 ... 0.5 mA typ. 0.1  $\mu$ A at 25 °C  $\leq$  15 mA No-load supply current
Time delay before availability ≤ 20 ms Switching state indicator LED, yellow

Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 2090 a 20 a Diagnostic Coverage (DC) 0 % Ambient conditions

Ambient temperature Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material brass, nickel-plated

PBT Sensing face 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

cULus Listed, General Purpose UL approval cCSAus Listed, General Purpose CSA approval CCC approval

CCC approval / marking not required for products rated ≤36 V

0 ... 6.48 mm ( -25 ... 70 °C (-13 ... 158 °F) ) 0 ... 6.08 mm ( -40 ... -25 °C (-40 ... -13 °F) )

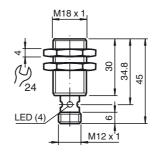
0.45

0.4

0.7

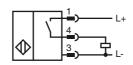
3-wire

## **Dimensions**



-40 ... 70 °C (-40 ... 158 °F)

#### **Electrical Connection**



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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