







#### **Model Number**

NBB5-18GM40-E2-V1

### **Features**

- **Basic series**
- 5 mm flush

#### **Accessories**

**BF 18** 

Mounting flange, 18 mm

V1-W

Female connector, M12, 4-pin, field attachable

V1-G

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 Output type Rated operating distance Installation Output polarity Assured operating distance Reduction factor r<sub>Al</sub> Reduction factor r<sub>Cu</sub> Reduction factor r<sub>304</sub>

Output type Nominal ratings

Operating voltage  $\mathsf{U}_\mathsf{B}$ 10 ... 30 V 0 ... 1000 Hz reverse polarity protected Switching frequency Reverse polarity protection Short-circuit protection pulsing Voltage drop Operating current Off-state current  $U_d$ ≤3 V 0 ... 100 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C No-load supply current l<sub>0</sub>  $\leq$  15 mA

Switching state indicator Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) Diagnostic Coverage (DC) Ambient conditions

Ambient temperature

-25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications

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

Degree of protection Compliance with standards and

directives

Standard conformity

EN 60947-5-2:2007 Standards EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

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

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

Normally open (NO)

PNP 5 mm

flush

0 ... 4.05 mm 0.3

LED, yellow

2010 a 20 a 0 %

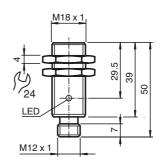
DC

0.25

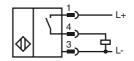
0.7

3-wire

## **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)