









#### **Model Number**

NBB8-18GM50-E2-V1

#### **Features**

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

## **Accessories**

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

BF 18

Mounting flange, 18 mm

**EXG-18** 

Quick mounting bracket with dead stop V1-G

Female connector, M12, 4-pin, field attachable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

#### **Technical Data**

#### General specifications Switching element function

Rated operating distance	s <sub>n</sub>	8 mm			
Installation		flush			
Output polarity		DC			
Assured operating distance	s <sub>a</sub>	0 6.48 mm ( -25 70 °C (-13 158 °F) ) 0 6.08 mm ( -4025 °C (-4013 °F) )			
Reduction factor r <sub>AI</sub>		0.45			
Reduction factor r <sub>Cu</sub>		0.4			
Reduction factor r <sub>304</sub>		0.7			

NO

PNP

Nominal ratings 10 ... 30 V 0 ... 500 Hz Operating voltage  $\mathsf{U}_\mathsf{B}$ Switching frequency Hysteresis typ. 5%

Reverse polarity protection reverse polarity protected pulsing

Short-circuit protection Voltage drop ≤3 V Operating current 0 ... 200 mA

Off-state current 0 ... 0.5 mA typ. 0.1  $\mu A$  at 25  $^{\circ} C$ No-load supply current Time delay before availability ≤ 15 mA ≤ 20 ms

Switching state indicator Multihole-LED, yellow

Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1190 a 20 a

Diagnostic Coverage (DC) 0 % **Ambient conditions** 

Ambient temperature -40 ... 70 °C (-40 ... 158 °F) Storage temperature -40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

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

Compliance with standards and directives

Standard conformity

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

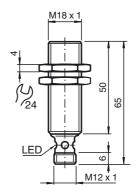
Approvals and certificates

EAC conformity TR CU 020/2011

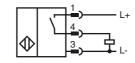
cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose

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)