









### **Model Number**

NBB8-18GM60-A2-V1

#### **Features**

- 8 mm flush
- · Increased operating distance

### Accessories

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 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

Hated 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>Al</sub>		0.45
Reduction factor r <sub>Cu</sub>		0.4
Reduction factor race		0.7

PNP

NO/NC

**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 °C

No-load supply current Time delay before availability ≤ 25 mA ≤ 20 ms Switching state indicator LED, yellow

Functional safety related parameters

MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1110 a 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

PBT Sensing face Degree of protection IP67 Compliance with standards and directives

Standard conformity

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

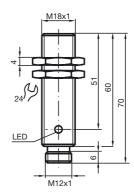
Approvals and certificates

EAC conformity TR CU 020/2011

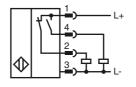
**UL** approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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)