





## **Model Number**

NBB5-18GM50-E2-C-V1

### **Features**

- 5 mm flush
- 3-wire DC
- **Weld Immune**

### **Accessories**

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-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

V1-W-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

## **Technical Data**

## General specifications

Switching element function		PNP	NO		
Rated operating distance	s <sub>n</sub>	5 mm			
Installation		flush			
Output polarity		DC			
Assured operating distance	sa	0 4.05 mm			
Reduction factor r <sub>AI</sub>		0.3			
Reduction factor r <sub>Cu</sub>		0.2			
Reduction factor r <sub>304</sub>		0.6			

### Nominal ratings

Operating voltage U <sub>B</sub> 10 30 V I	/ DC
Switching frequency f 0 800 Hz	Ηz
Hysteresis H typ. 5 %	

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

≤ 3 V 0 ... 200 mA Voltage drop Operating current Off-state current

0 ... 0.5 mA typ. 0.1  $\mu$ A at 25 °C No-load supply current Multihole-LED, yellow

Switching state indicator Mag. Field strength, AC fields Mag. Field strength, DC fields 150 mT 150 mT

Functional safety related parameters MTTF<sub>d</sub> Mission Time (T<sub>M</sub>) 1740 a 20 a Diagnostic Coverage (DC) 0 %

**Ambient conditions** 

-25 ... 70 °C (-13 ... 158 °F) Ambient temperature

Mechanical specifications

Connection type Connector M12 x 1, 4-pin Housing material Brass, PTFE coated Sensing face **PPS** Degree of protection IP67

Compliance with standards and directives

Standard conformity

FN 60947-5-2:2007 Standards

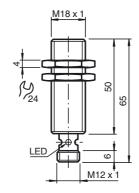
IEC 60947-5-2:2007

Approvals and certificates

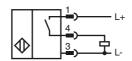
cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose

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)