







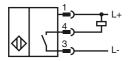
## **Model Number**

NBB5-18GM50-E0-V1

### **Features**

- Basic series
- 5 mm embeddable

#### Connection



## **Pinout**



Wire colors in accordance with EN 60947-5-2

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

### **Accessories**

Date of issue: 2012-02-03 084194\_eng.xml

2011-07-14 09:16

Release date:

4-pin, M12 female field-attachable connector

V1-W

4-pin, M12 female field-attachable connector V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

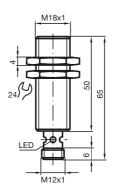
BF 18 Mounting flange, 18 mm

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable **EXG-18** 

Quick mounting bracket with dead stop

### **Dimensions**



# **Technical Data**

General specifications				
Switching element function		NPN NC	10	
Rated operating distance	s <sub>n</sub>	5 mm		
Installation		embeddable		
Output polarity		DC		
Assured operating distance	sa	0 4.05 mm		
Reduction factor r <sub>Al</sub>		0.3		
Reduction factor r <sub>Cu</sub>		0.3		
Reduction factor r <sub>304</sub>		0.7		
Nominal ratings				
Operating voltage	Un	10 30 V		

Reduction factor r <sub>304</sub>		0.7
Nominal ratings		
Operating voltage	U <sub>B</sub>	10 30 V
Switching frequency	f	0 800 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U <sub>d</sub>	≤3 V
Operating current	IL.	0 200 mA
Off-state current	I <sub>r</sub>	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	In	≤ 20 mA

Indication of the switching state Multihole-LED, yellow Functional safety related parameters

 $MTTF_d$ 

1920 a Mission Time (T<sub>M</sub>)
Diagnostic Coverage (DC) 0 %

**Ambient conditions** 

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

Mechanical specifications

Connection type Device connector M12 x 1, 4-pin Housing material Sensing face brass, nickel-plated PBT IP67 Protection degree

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards

IEC 60947-5-2:2007

Approvals and certificates

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

CCC approval Products with a maximum operating voltage of  $\leq 36 \text{ V}$  do not bear a CCC marking because they do not require approval.