







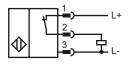
### **Model Number**

NBB8-18GM30-E3-V1

### **Features**

- · 8 mm embeddable
- · Increased operating distance

### Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

# **Accessories**

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Date of issue: 2011-07-14

2011-07-14

Release date:

Mounting flange with dead stop, 18 mm

**EXG-18** 

Quick mounting bracket with dead stop

V1-G

4-pin, M12 female field-attachable connector V1-W

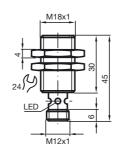
www.pepperl-fuchs.com

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

Cable socket, M12, 4-pin, PUR cable V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

### **Dimensions**



## **Technical Data**

General	specifications
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•		
Switching element function		PNP NC
Rated operating distance	s <sub>n</sub>	8 mm
Installation		embeddable
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 r <sub>303</sub>		0.7
Nominal ratings		
Operating voltage	U <sub>B</sub>	10 30 V
Switching frequency	f	0 500 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	≤3 V

Operating current 0 ... 100 mA Off-state current
No-load supply current
Indication of the switching state 0 ... 0.5 mA typ. 0.1  $\mu A$  at 25 °C ≤ 15 mA

LED, yellow Functional safety related parameters

 $MTTF_d$ 2090 a Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC) 0 %

**Ambient conditions** 

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

Mechanical specifications

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

#### Compliance with standards and directives

Standard conformity Standards

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

Approvals and certificates

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

Products with a maximum operating voltage of ≤36 V do not bear a CCC approval CCC marking because they do not require approval.