





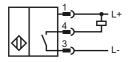
# **Model Number**

#### NBB2-8GM40-E0-V1

#### **Features**

- **Basic series**
- 2 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**

V1-G

Mounting flange, 8 mm

Field attachable female cordset

Cable socket, M12, 4-pin, PUR cable

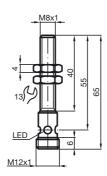
EXG-08

Quick mounting bracket with dead stop

USA: +1 330 486 0001

fa-info@us.pepperl-fuchs.com

### **Dimensions**



# **Technical Data**

General specifications
Switching element func

Switching element function		NPN	NO	
Rated operating distance	s <sub>n</sub>	2 mm		
Installation		embeddabl	le	
Output polarity		DC		
Assured operating distance	sa	0 1.62 m	nm	
Reduction factor r <sub>Al</sub>		0.45		
Reduction factor r <sub>Cu</sub>		0.35		
Reduction factor r <sub>303</sub>		0.75		
Maminal values				

Nominal ratings

Operating voltage 10 ... 30 V  $U_{\mathsf{B}}$ Switching frequency 0 ... 1500 Hz Hysteresis Reverse polarity protected Н typ. 5% reverse polarity protected Short-circuit protection pulsing Voltage drop  $U_d$ ≤ 3 V 0 ... 100 mA 0 ... 0.5 mA typ. 0.1 μA Operating current Off-state current No-load supply current ≤ 15 mA Multihole-LED, yellow

Indication of the switching state Functional safety related parameters

2740 a  $MTTF_d$ 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 brass, nickel-plated LCP Sensing face Protection degree IP67

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 cCSAus Listed, General Purpose CSA approval 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.

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Field attachable female cordset

BF8

V1-W

V1-G-2M-PUR

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