





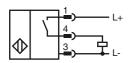
#### **Model Number**

# NBB2-8GM25-E2-V3

# **Features**

- **Basic series**
- 2 mm flush
- Increased operating distance

#### Connection



#### **Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

# **Accessories**

Mounting flange, 8 mm

V3-GM

Female connector, M8, 3-pin, field attachable

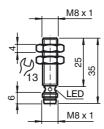
V3-WM Female connector, M8, 3-pin, field attachable

V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

### **Dimensions**



# **Technical Data**

General specifications			
Switching element function		PNP NO	
Rated operating distance	s <sub>n</sub>	2 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 1.62 mm	
Reduction factor r <sub>Al</sub>		0.45	
Reduction factor r <sub>Cu</sub>		0.4	
Reduction factor r <sub>304</sub>		0.75	
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Nominal ratings Operating voltage  $U_{\mathsf{B}}$ 10 ... 30 V Switching frequency 0 ... 3000 Hz Hysteresis Н typ. 5% Reverse polarity protection reverse polarity protected Short-circuit protection pulsing

Voltage drop Operating current 0 ... 100 mA 0 ... 0.5 mA typ. 0.1  $\mu$ A at 25 °C  $\leq$  15 mA Off-state current No-load supply current Switching state indication Multihole-LED, yellow

Functional safety related parameters

MTTF<sub>d</sub>
Mission Time (T<sub>M</sub>) 2750 a Diagnostic Coverage (DC) 0 %

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

Mechanical specifications

Connection type Connector M8 x 1, 3-pin brass, nickel-plated LCP Housing material Sensing face 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 CCC approval / marking not required for products rated ≤36 V