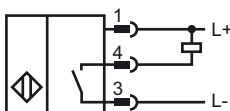


**Model Number**

NBB2-8GM25-E0-V3

**Features**

- Basic series
- 2 mm embeddable
- Increased operating distance

**Connection****Pinout**

Wire colors in accordance with EN 60947-5-2

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

**Accessories****BF 8**

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**

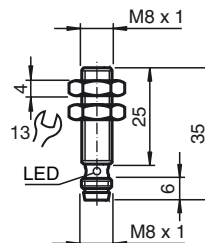
Cable socket, M8, 3-pin, PUR cable

**V3-WM-2M-PUR**

Cable socket, M8, 3-pin, PUR cable

**EXG-08**

Quick mounting bracket with dead stop

**Dimensions****Technical Data****General specifications**

Switching element function		NPN	NO
Rated operating distance	$s_n$	2 mm	
Installation		embeddable	
Output polarity		DC	
Assured operating distance	$s_a$	0 ... 1.62 mm	
Reduction factor $r_{AI}$		0.45	
Reduction factor $r_{Cu}$		0.35	
Reduction factor $r_{303}$		0.7	

**Nominal ratings**

Operating voltage	$U_B$	5 ... 30 V	
Switching frequency	$f$	0 ... 3000 Hz	
Short-circuit protection		pulsing	
Voltage drop	$U_d$	$\leq 2.5$ V	
Operating current	$I_L$	0 ... 100 mA	
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.1 $\mu$ A at 25 °C	
No-load supply current	$I_0$	$\leq 15$ mA	
Indication of the switching state		Multihole-LED, yellow	

**Functional safety related parameters**

MTTF <sub>d</sub>	1870 a
Mission Time ( $T_M$ )	20 a
Diagnostic Coverage (DC)	0 %

**Ambient conditions**

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

Connection type	Device connector M8 x 1, 3-pin
Housing material	brass, nickel-plated
Sensing face	LCP
Protection degree	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
CCC approval	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.