



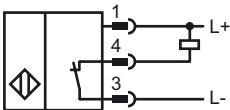
Model Number

NBB2-8GM25-E1-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

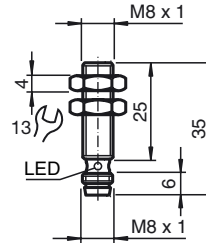
V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications

Switching element function		NPN	NC
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
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 1.5 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 1 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Indication of the switching state		Multihole-LED, yellow

Functional safety related parameters

MTTF _d	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 ≤ 36 V do not bear a CCC marking because they do not require approval.