



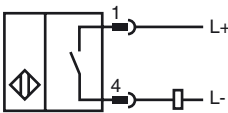
**Model Number**

**NBB1,5-8GM50-Z3-V3**

**Features**

- 1.5 mm embeddable
- 2-wire DC

**Connection**



**Pinout**



Wire colors in accordance with EN 60947-5-2

1	BN
3	BU
4	BK

**Accessories**

**V3-GM**  
Female connector, M8, 3-pin, field attachable

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

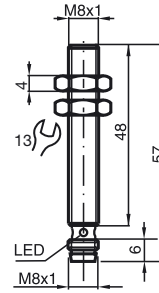
**EXG-08**  
Quick mounting bracket with dead stop

**BF 8**  
Mounting flange, 8 mm

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

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

**Dimensions**



**Technical Data**

**General specifications**

Switching element function	DC	NO
Rated operating distance	$s_n$	1.5 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	$s_a$	0 ... 1.21 mm
Reduction factor $r_{Al}$		0.22
Reduction factor $r_{Cu}$		0.16
Reduction factor $r_{V2A}$		0.64

**Nominal ratings**

Operating voltage	$U_B$	5 ... 60 V
Switching frequency	$f$	0 ... 1200 Hz
Hysteresis	$H$	1 ... 10 typ. 5 %
Reverse polarity protected		tolerant
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 5$ V
Operating current	$I_L$	2 ... 100 mA
Lowest operating current	$I_m$	2 mA
Off-state current	$I_r$	0 ... 0.5 mA typ.
Indication of the switching state		LED, yellow

**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	Stainless steel 1.4305 / AISI 303
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

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