



**Model Number**

**NEB4-8GM50-E2-V3**

**Features**

- 4 mm quasi flush
- Increased operating distance

**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

**Technical Data**

**General specifications**

Switching element function	PNP	NO
Rated operating distance	$s_n$	4 mm
Installation		quasi flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 3.24 mm
Reduction factor $r_{AI}$		0.25
Reduction factor $r_{Cu}$		0.22
Reduction factor $r_{304}$		0.65

**Nominal ratings**

Operating voltage	$U_B$	10 ... 30 V
Switching frequency	$f$	0 ... 500 Hz
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2$ V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.1 mA typ. 0.1 $\mu$ A at 25 °C
No-load supply current	$I_0$	$\leq 10$ mA
Switching state indication		LED, yellow

**Functional safety related parameters**

MTTF <sub>d</sub>	311 a
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

**Ambient conditions**

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

Connection type	Connector M8 x 1 , 3-pin
Housing material	chromium plated brass
Sensing face	PBT
Protection degree	IP67

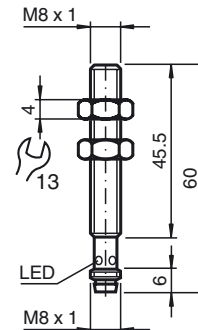
**Compliance with standards and directives**

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

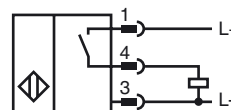
**Approvals and certificates**

UL approval	cULus Listed, General Purpose
CSA approval	cCSAus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq 36$ V

**Dimensions**

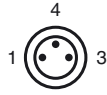


**Electrical Connection**



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## Pinout



Wire colors in accordance with EN 60947-5-2

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