



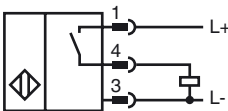
Model Number

NEB3-8GM50-E2-V3

Features

- 3 mm quasi-embeddable
- Increased operating distance

Connection



Pinout



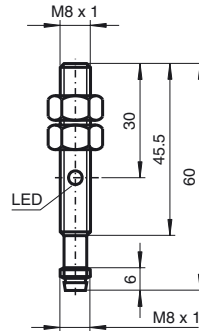
Wire colors in accordance with EN 60947-5-2

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

Accessories

- 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
- BF 8**
Mounting flange, 8 mm
- 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_n	3 mm
Installation		quasi embedd.
Output polarity		DC
Assured operating distance	s_a	0 ... 2.43 mm
Reduction factor r_{AI}		0.36
Reduction factor r_{Cu}		0.27
Reduction factor r_{304}		0.77

Nominal ratings

Installation conditions		
A		0 mm
B		6 mm
C		9 mm
F		16 mm
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1000 Hz
Hysteresis	H	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 10 mA
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF _d	311 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	chromium plated brass
Sensing face	PBT
Protection degree	IP67

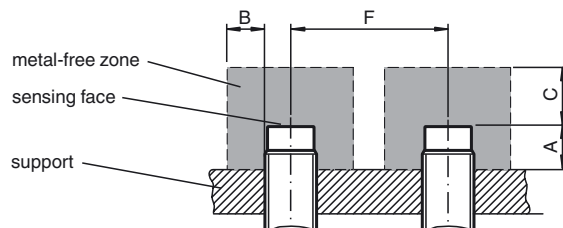
Compliance with standards and directives

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	Products with a maximum operating voltage of ≤ 36 V do not bear a CCC marking because they do not require approval.

Installation conditions



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