



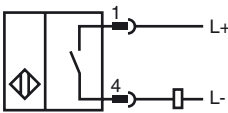
Model Number

NBN2-8GM50-Z3-V3

Features

- Basic series
- 2 mm not embeddable
- 2-wire DC

Connection



Pinout



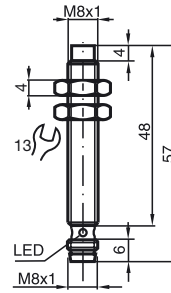
Wire colors in accordance with EN 60947-5-2

1	BN
3	BU
4	BK

Accessories

- V3-WM-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-GM**
Female connector, M8, 3-pin, field attachable
- V3-GM-2M-PUR**
Cable socket, M8, 3-pin, PUR cable

Dimensions



Technical Data

General specifications

Switching element function	DC	NO
Rated operating distance	s_n	2 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.4
Reduction factor r_{Cu}		0.39
Reduction factor r_{V2A}		0.75

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	≤ 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		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		Certified by China Compulsory Certification (CCC)

Release date: 2010-11-16 11:18 Date of issue: 2010-11-16 088539_ENG.xml