



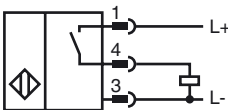
Model Number

NBB2-V3-E2-0,2M-V3

Features

- Basic series
- 2 mm embeddable
- 3-wire DC

Connection



Pinout



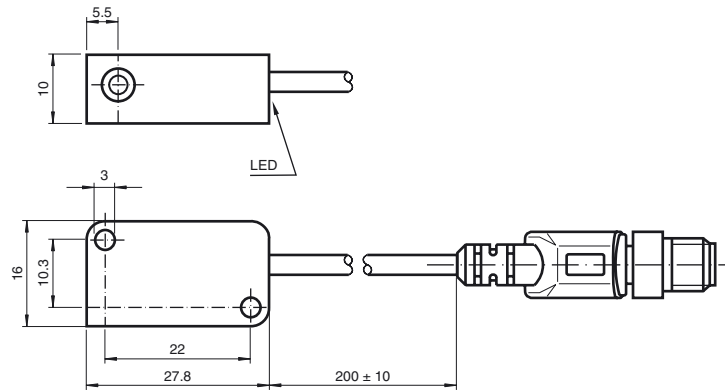
Wire colors in accordance with EN 60947-5-2

1	BN
3	BU
4	BK

Accessories

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

Dimensions



Technical Data

General specifications

Switching element function	PNP	NO
Rated operating distance	s_n	2 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	s_a	0 ... 1.62 mm
Reduction factor r_{Al}		0.35
Reduction factor r_{Cu}		0.2
Reduction factor r_{V2A}		0.7

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC
Switching frequency	f	0 ... 1000 Hz
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 15 mA
Indication of the switching state		LED, yellow

Ambient conditions

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

Mechanical specifications

Connection type	Cable connector M8 x 1 , 3-pin with PVC cable 200 mm
Housing material	PBT
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.

Release date: 2010-11-16 17:09 Date of issue: 2010-11-18 104186_ENG.xml