







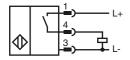
Model Number

NBB2-F41-E2-V3

Features

- 2 mm flush
- 3-wire DC
- **Metal housing**

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

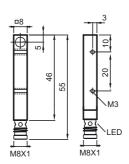
Accessories

Female connector, M8, 3-pin, field attachable

Female connector, M8, 3-pin, field attachable

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		flush	
Output polarity		DC	
Assured operating distance	sa	0 1.62	mm
Reduction factor r _{Al}		0.45	
Reduction factor r _{Cu}		0.4	
Reduction factor r ₃₀₄		0.75	

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Nominal ratings		
Operating voltage	U _B	10 30 V DC
Switching frequency	f	0 3000 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤3 V
Operating current	IL.	0 100 mA
Off-state current	l _r	0 0.5 mA typ.
No-load supply current	I ₀	≤ 15 mA
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF _d	1528 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

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

Mechanical specifications

Connection type Device connector M8 x 1 , 3-pin Housing material Sensing face brass, nickel-plated PBT Protection degree IP67 13.5 g

Compliance with standards and directives

Standard conformity

EN 60947-5-2:2007 Standards 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 $\leq 36 \text{V}$ do not bear a CCC marking because they do not require approval.

V3-WM

V3-GM-2M-PUR

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

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