Model Number

NBB2-6,5M25-E2-V3

Features

- **2 mm flush**
- **Increased operating distance**

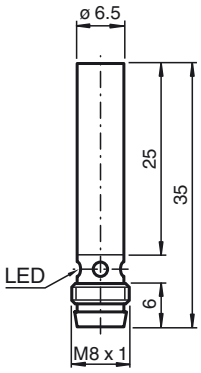
Accessories

BF 6,5
Mounting flange, 6.5 mm
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

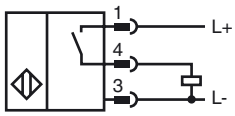
Technical Data

General specifications			
Switching element function		PNP	NO
Rated operating distance	s_n	2 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	s_a	0 ... 1.62 mm	
Reduction factor r_{Al}		0.45	
Reduction factor r_{Cu}		0.4	
Reduction factor r_{304}		0.75	
Nominal ratings			
Operating voltage	U_B	10 ... 30 V	
Switching frequency	f	0 ... 3000 Hz	
Reverse polarity protection		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 µA at 25 °C	
No-load supply current	I_0	≤ 15 mA	
Switching state indicator		Multihole-LED, yellow	
Ambient conditions			
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)	
Mechanical specifications			
Connection type		Connector M8 x 1 , 3-pin	
Housing material		brass, nickel-plated	
Sensing face		LCP	
Degree of protection		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 ≤36 V	

Dimensions



Electrical Connection



Pinout

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Wire colors in accordance with EN 60947-5-2

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

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