

CE

Model Number

NBB3-V3-E3-V3

Features

- 3 mm flush
- 3-wire DC

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

Technical Data

General specifications

Switching element function		PNP	NC
Rated operating distance	s _n	3 mm	
Installation		flush	
Output polarity		DC	
Assured operating distance	sa	0 2.43 mr	n
Reduction factor r _{Al}		0.35	
Reduction factor r _{Cu}		0.33	
Reduction factor r ₃₀₄		0.82	
Reduction factor r _{Brass}		0.5	

Reduction factor r_{Brass} Nominal ratings

10 ... 30 V DC 0 ... 1000 Hz Operating voltage U_{B} Switching frequency Reverse polarity protection reverse polarity protected

Short-circuit protection pulsing U_{d} Voltage drop

≤3 V 0 ... 100 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C Operating current Off-state current I_L I_r I₀ No-load supply current

LED, yellow Switching state indicator

Functional safety related parameters

MTTF_d
Mission Time (T_M)
Diagnostic Coverage (DC) 2300 a 20 a 0 %

Ambient conditions

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

Mechanical specifications

Connection type Connector M8 x 1, 3-pin Housing material Sensing face PBT PBT Degree of protection IP67

Compliance with standards and directives

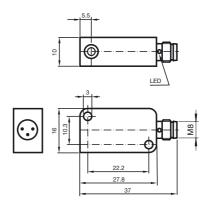
Standard conformity

EN 60947-5-2:2007 Standards IEC 60947-5-2:2007

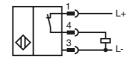
Approvals and certificates

CCC approval CCC approval / marking not required for products rated ≤36 V

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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