









Model Number

NBB4-12GM30-E2-V3

Features

- · Increased operating distance
- 4 mm flush

Accessories

BF 12

Mounting flange, 12 mm **EXG-12**

Quick mounting bracket with dead stop

V3-GM

Female connector, M8, 3-pin, field attachable

V3-WM

Female connector, M8, 3-pin, field attachable

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

Technical Data

General specifications

Switching element function		PNP	NO		
Rated operating distance	s _n	4 mm			
Installation		flush			
Output polarity		DC			
Assured operating distance	sa	0 3.24 mm	1		
Reduction factor r _{AI}		0.45			
Reduction factor r _{Cu}		0.35			
Reduction factor r ₃₀₄		0.7			

Nominal ratings

Operating voltage	U _B	10 30 V
Switching frequency	f	0 500 Hz
Hysteresis	Н	typ. 5 %

Reverse polarity protection reverse polarity protected Short-circuit protection pulsing ≤ 3 V 0 ... 150 mA Voltage drop

Operating current Off-state current 0 ... 0.5 mA typ. 0.1 μ A at 25 °C

Off-state current T_U =40 °C, switching ele- ≤

ment off

No-load supply current ≤ 15 mA Time delay before availability ≤ 20 ms Switching state indicator Multihole-LED, yellow

Functional safety related parameters

MTTF_d
Mission Time (T_M) 1770 a Diagnostic Coverage (DC) 0%

Ambient conditions

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

Mechanical specifications

Connection type Connector M8 x 1, 3-pin Cable version brass, nickel-plated Housing material Sensing face PBT Degree of protection IP67 30 g

Compliance with standards and directives

Standard conformity

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

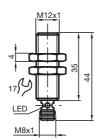
Approvals and certificates

EAC conformity TR CU 020/2011

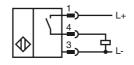
cULus Listed, General Purpose **UL** approval CSA approval cCSAus Listed, General Purpose

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)
4	BK	(black)