







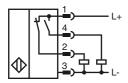
Model Number

NBB2-8GM30-A2-V1

Features

- **Basic series**
- 2 mm embeddable
- Increased operating distance

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

BF8

Mounting flange, 8 mm V1-G

Field attachable female cordset

Field attachable female cordset

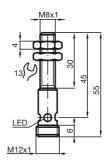
V1-G-2M-PUR Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR Cable socket, M12, 4-pin, PUR cable

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General	specifications
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General specifications		
Switching element function		PNP NO/NC
Rated operating distance	Sn	2 mm
Installation		embeddable
Output polarity		DC
Assured operating distance	sa	0 1.62 mm
Reduction factor r _{Al}		0.45
Reduction factor r _{Cu}		0.35
Reduction factor r ₃₀₃		0.72
Nominal ratings		
Operating voltage	U _B	10 30 V
Switching frequency	f	0 1000 Hz
Reverse polarity protected		reverse polarity protected

pulsing ≤ 2.5 V 0 ... 100 mA Short-circuit protection Voltage drop Operating current Off-state current 0 ... 0.5 mA typ. 0.1 μ A at 25 °C ≤ 15 mA No-load supply current

Multihole-LED, yellow Indication of the switching state Functional safety related parameters

MTTF_d Mission Time (T_M) 3720 a 20 a 0 % Diagnostic Coverage (DC)

Ambient conditions

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

Mechanical specifications Connection type Housing material Device connector M12 x 1, 4-pin brass, nickel-plated

Sensing face 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