







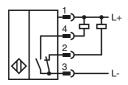
Model Number

NBB2-8GM30-A0-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

BF 8

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Mounting flange, 8 mm **V1-G**

Field attachable female cordset V1-W

Field attachable female cordset

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

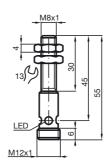
V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General sp	ecifications
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	Switching element function		NPN N	NO/NC
	Rated operating distance	s _n	2 mm	
	Installation		embeddabl	ole
	Output polarity		DC	
	Assured operating distance	sa	0 1.62 m	nm
	Reduction factor r _{Al}		0.45	
	Reduction factor r _{Cu}		0.35	
	Reduction factor r ₃₀₃		0.72	
N	ominal ratings			
	Operating voltage	U _B	10 30 V	
	Switching frequency	f	0 1000 F	Hz
	Hysteresis	Н	typ. 3 %	
	Reverse polarity protected		reverse pol	plarity protected
	Short-circuit protection		pulsing	
	Voltage drop	U _d	≤ 2.5 V	
	Operating current	IL.	0 100 m/	
	Off-state current	l _r	0 0.5 mA	A typ. 0.1 μA at 25 °C
	No-load supply current	I ₀	≤ 15 mA	
	Indication of the switching state		Multihole-I	FD vellow

Functional safety related parameters

 $\begin{array}{c} \text{MTTF}_{\text{d}} & 3720 \text{ a} \\ \text{Mission Time } (\text{T}_{\text{M}}) & 20 \text{ a} \\ \text{Diagnostic Coverage (DC)} & 0 \% \end{array}$

Ambient conditions

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

Mechanical specifications

Connection type Device connector M12 x 1 , 4-pin Housing material brass, nickel-plated Sensing face LCP

Protection degree

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

IP67

CCC marking because they do not require approval.