







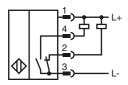
Model Number

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

BF8

Mounting flange, 8 mm

V1-W

V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

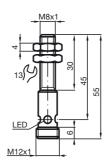
Cable socket, M12, 4-pin, PUR cable

EXG-08

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Quick mounting bracket with dead stop

Dimensions



Technical Data

General sp	ecifications
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	Switching element function		NPN	NO/NC
	Rated operating distance	s _n	2 mm	
	Installation		embedda	ble
	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	
N	ominal ratings			
	Operating voltage	U _B	10 30 \	I
	Switching frequency	f	0 1000	Hz
	Hysteresis	Н	typ. 3 %	
	Reverse polarity protected		reverse p	olarity protected
	Short-circuit protection		pulsing	
	Voltage drop	U _d	≤ 2.5 V	
	Operating current	IL.	0 100 r	
	Off-state current	I _r	0 0.5 n	nA 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

MTTF _d	3720 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

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 LCP IP67

Protection degree Compliance with standards and directives

Standard conformity

Germany: +49 621 776-4411

fa-info@pepperl-fuchs.com

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

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 CCC marking because they do not require approval.	

14:19

2011-07-07

V1-G

Field attachable female cordset

Field attachable female cordset