







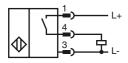
Model Number

NBB2-8GM30-E2-0,3M-V3

Features

- 2 mm embeddable
- · Increased operating distance

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

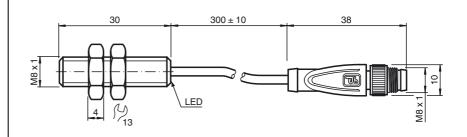
BF 8

Mounting flange, 8 mm

EXG-08

Quick mounting bracket with dead stop

Dimensions



Technical Data

General specifications					
Switching element function		PNP	NO		
Rated operating distance	s _n	2 mm			
Installation		embeddab	ole		
Output polarity		DC			
Assured operating distance	sa	0 1.62 n	nm		
Reduction factor r _{Al}		0.45			
Reduction factor r _{Cu}		0.4			
Reduction factor r ₃₀₃		0.75			

Nominal ratings

Operating voltage	U _B	10 30 V
Switching frequency		0 3000 Hz
Hysteresis	Н	typ. 5%
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U _d	≤3 V
Operating current	IL.	0 100 mA
Off-state current	l _r	0 0.5 mA typ. 0.1 μA at 25 °C
Na land accomplicación esta	1	< 15 mm A

No-load supply current $I_0 \le 15 \text{ mA}$ Indication of the switching state LED, yellow

Functional safety related parameters

parameters	
MTTF _d	2790 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
Core cross-section
Housing material
Sensing face
Protection degree

Cable connector M8 x 1 , PVC , 300 mm
0.14 mm²
brass, nickel-plated
LCP
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

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