



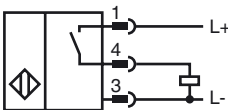
Model Number

NBB2-8GM40-E2-0,2M-V1

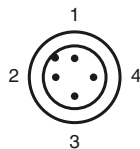
Features

- Extended Range
- Sensing range 2 mm
- 3-wire DC

Connection



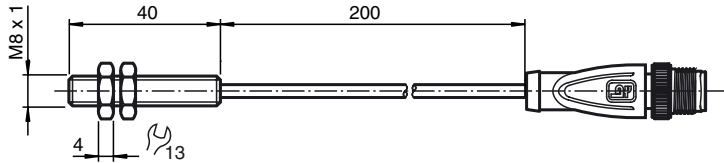
Pinout



Accessories

- BF 8**
Mounting flange, 8 mm
- EXG-08**
Quick mounting bracket with dead stop
- V1-G-2M-PVC**
Cable socket, M12, 4-pin, PVC cable
- V1-W-2M-PVC**
Cable socket, M12, 4-pin, PVC cable

Dimensions



Technical Data

General specifications

Switching element function		PNP	NO
Rated operating distance	s_n	2 mm	
Installation		embeddable	
Output polarity		DC	
Assured operating distance	s_a	0 ... 1,62 mm	
Reduction factor r_{Al}		0,45	
Reduction factor r_{Cu}		0,4	
Reduction factor r_{V2A}		0,75	

Nominal ratings

Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	typ. 5 %
Reverse polarity protected		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	I_L	0 ... 100 mA
Off-state current	I_r	0 ... 0,5 mA typ. 0,1 μ A
No-load supply current	I_0	≤ 15 mA
Indication of the switching state		LED, yellow

Functional safety related parameters

MTTF _d	2790 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Standard conformity

Standards	IEC / EN 60947-5-2:2004
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Ambient conditions

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

Core cross-section	0,14 mm ²
Housing material	brass, nickel-plated
Sensing face	LCP
Protection degree	IP67

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.

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