



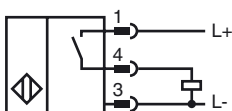
Model Number

NEN6-8GM45-E2-V1

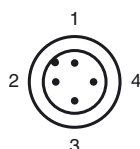
Features

- 6 mm not embeddable
- Increased operating distance

Connection



Pinout



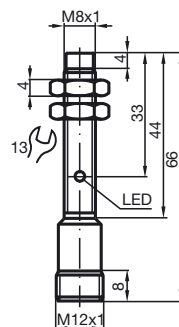
Wire colors in accordance with EN 60947-5-2

- 1 | BN
- 2 | WH
- 3 | BU
- 4 | BK

Accessories

- BF 8**
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

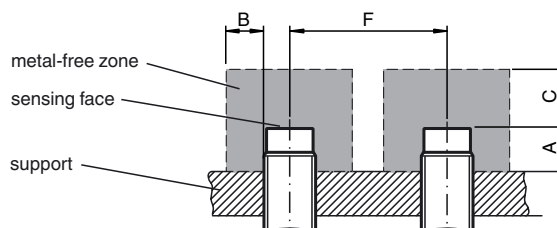
Dimensions



Technical Data

General specifications			
Switching element function		PNP	NO
Rated operating distance	s_n	6 mm	
Installation		not embeddable	
Output polarity		DC	
Assured operating distance	s_a	0 ... 4.86 mm	
Reduction factor r_{Al}		0.36	
Reduction factor r_{Cu}		0.32	
Reduction factor r_{303}		0.69	
Nominal ratings			
Installation conditions			
A		13 mm	
B		16 mm	
C		30 mm	
F		42 mm	
Operating voltage	U_B	10 ... 30 V	
Switching frequency	f	0 ... 500 Hz	
Hysteresis	H	typ. 5%	
Reverse polarity protected		reverse polarity protected	
Short-circuit protection		pulsing	
Voltage drop	U_d	≤ 2 V	
Operating current	I_L	0 ... 200 mA	
Off-state current	I_r	0 ... 0.1 mA typ. 0.1 μ A at 25 °C	
No-load supply current	I_0	≤ 10 mA	
Indication of the switching state		LED, yellow	
Functional safety related parameters			
MTTF _d		311 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		Device connector M12 x 1 , 4-pin	
Housing material		chromium plated brass	
Sensing face		PBT	
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 CCC marking because they do not require approval.	

Installation conditions



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