



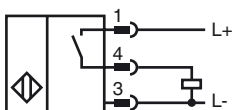
Model Number

NMB6-12GM50-E2-V1-F

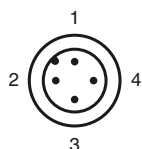
Features

- 6 mm embeddable
- Active surface metal
- One-piece housing with stainless steel (V4A; 1.4435)

Connection



Pinout



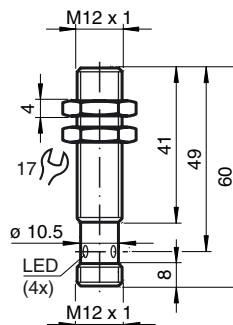
Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Accessories

- BF 12**
Mounting flange, 12 mm
- V1-G**
4-pin, M12 female field-attachable connector
- V1-W**
4-pin, M12 female field-attachable connector
- 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	embeddable in mild steel	
Output polarity	DC	
Assured operating distance	s_a	0 ... 4.86 mm
Reduction factor r_{Al}	1	
Reduction factor r_{Cu}	0.85	
Reduction factor r_{304}	0.5 (0.9 of material thickness 2 mm)	
Reduction factor r_{Si37}	1	
Nominal ratings		
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 600 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protected	yes	
Short-circuit protection	yes	
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	≤ 0.1 mA
No-load supply current	I_0	≤ 10 mA
Indication of the switching state	LED, yellow	
Limit data		
Operating pressure statically	80 bar (1160.3 psi) max.	
Ambient conditions		
Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)	
Mechanical specifications		
Connection type	Device connector M12 x 1, 4-pin	
Housing material	Stainless steel 1.4435 / AISI 316L	
Sensing face	Stainless steel 1.4435 / AISI 316L	
Protection degree	IP68 / IP69K	
Mass	24 g	
Compliance with standards and directives		
Standard conformity	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.	

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