



Model Number

NMB6-12GH50-E2-V1

Features

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

Accessories

BF 12

Mounting flange, 12 mm

V1-G

Female connector, M12, 4-pin, field attachable

V1-W

Female connector, M12, 4-pin, field attachable

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Technical Data

General specifications

Switching function	Normally open (NO)
Output type	PNP
Rated operating distance	s_n 6 mm
Installation	flush in mild steel
Output polarity	DC
Assured operating distance	s_a 0 ... 4.86 mm
Reduction factor r_{AI}	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
Output type	3-wire

Nominal ratings

Installation conditions	
A	0 mm
B	6 mm
C	18 mm
F	50 mm
Operating voltage	U_B 10 ... 30 V
Switching frequency	f 0 ... 600 Hz
Hysteresis	H 3 ... 15 typ. 5 %
Reverse polarity protection	yes
Short-circuit protection	yes
Voltage drop	U_d $\leq$ 2 V
Operating current	I_L 0 ... 200 mA
Off-state current	I_r $\leq$ 0.1 mA
No-load supply current	I_0 $\leq$ 10 mA
Time delay before availability	t_v $\leq$ 40 ms
Switching state indicator	LED, yellow

Limit data

Operating pressure statically	80 bar (1160.3 psi) max.
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Functional safety related parameters

MTTF _d	652 a
Mission Time (T_M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
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Mechanical specifications

Connection type	Connector plug M12 x 1, 4-pin
Housing material	Stainless steel 1.4435 / AISI 316L
Sensing face	Stainless steel 1.4435 / AISI 316L
Degree of protection	IP68 / IP69K
Mass	24 g

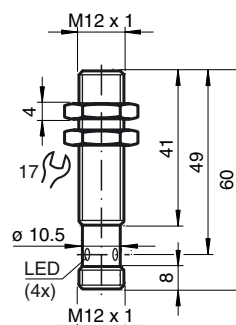
Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

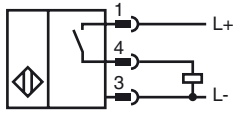
Approvals and certificates

UL approval	cULus Listed, General Purpose
CCC approval	CCC approval / marking not required for products rated $\leq$ 36 V

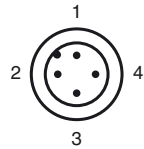
Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

Installation Conditions

