



Model Number

NMN10-12GH50-E2

Features

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

Accessories

BF 12

Mounting flange, 12 mm

Technical Data

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s_n	10 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s_a	0 ... 8.1 mm
Reduction factor r_{AI}		1
Reduction factor r_{CU}		0.8
Reduction factor r_{304}		0.5 (0.7 of material thickness 2 mm)
Reduction factor r_{317}		1
Output type		3-wire

Nominal ratings

Installation conditions		
A		22 mm (mild steel) 21 mm (stainless steel) 13 mm (aluminum) 15 mm (brass)
B		24 mm
C		30 mm
F		120 mm
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 400 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		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
Time delay before availability	t_v	≤ 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	cable TPE-S, 2 m
Housing material	Stainless steel 1.4435 / AISI 316L
Sensing face	Stainless steel 1.4435 / AISI 316L
Degree of protection	IP68 / IP69K
Mass	86 g

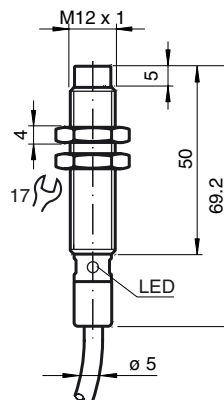
Compliance with standards and directives

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

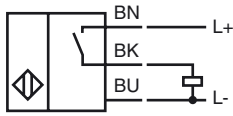
Approvals and certificates

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

Dimensions



Electrical Connection



Installation Conditions

