

# Inductive sensor

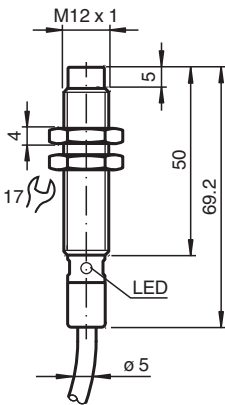
## NMN10-12GH50-E2



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



### Dimensions



### Technical Data

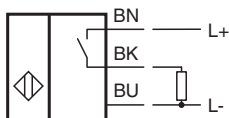
General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	10 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Reduction factor $r_{Al}$		1
Reduction factor $r_{Cu}$		0.8
Reduction factor $r_{304}$		0.5 (0.7 of material thickness 2 mm)
Reduction factor $r_{St37}$		1
Output type		3-wire
Nominal ratings		
Installation conditions		
A		22 mm (mild steel) 21 mm (stainless steel) 13 mm (aluminum) 15 mm (brass)

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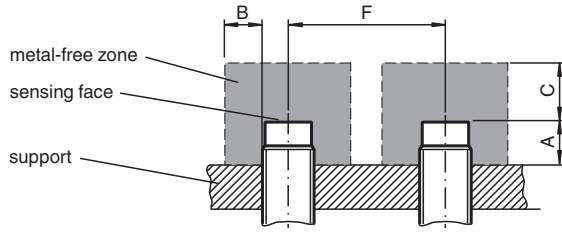
## Technical Data

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	$U_d$	$\leq 2$ 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
<b>Limit data</b>		
Operating pressure statically		80 bar (1160.3 psi) max.
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		652 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36$ V
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
<b>Mechanical specifications</b>		
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
<b>Dimensions</b>		
Length		69 mm
Diameter		12 mm

## Connection



## Installation



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