



### Model Number

NMB10-18GM50-E2-F

### Features

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

### Accessories

BF 18

Mounting flange, 18 mm

## Technical Data

### General specifications

Switching element function	PNP	NO
Rated operating distance	$s_n$	10 mm
Installation		flush in mild steel
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Reduction factor $r_{Al}$		0.4
Reduction factor $r_{Cu}$		0.25
Reduction factor $r_{304}$		0.5 (0.9 of material thickness 2 mm)
Reduction factor $r_{S37}$		1

### Nominal ratings

Installation conditions		
A		0 mm
B		16 mm
C		30 mm
F		60 mm
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	f	0 ... 300 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	60 bar (870.2 psi) max.
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### Functional safety related parameters

MTTF <sub>d</sub>	375 a
Mission Time (T <sub>M</sub> )	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 3 x 0.34 mm <sup>2</sup>
Housing material	Stainless steel 1.4435 / AISI 316L
Sensing face	Stainless steel 1.4435 / AISI 316L
Degree of protection	IP68 / IP69K
Mass	112 g

### General information

Assembly dimensions	x: 18 mm y: $\geq 4$ mm
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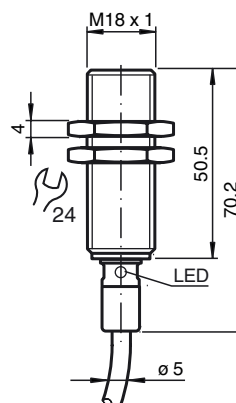
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

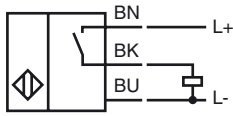
### Approvals and certificates

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

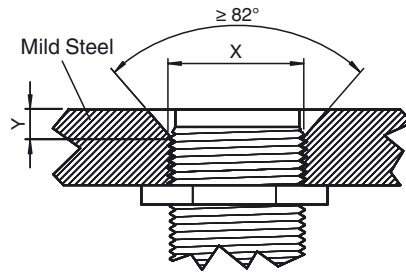
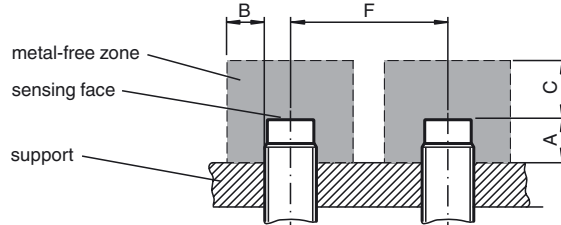
## Dimensions



Electrical Connection



Installation Conditions



Sensor face is flush with mounting surface.