

# Inductive sensor

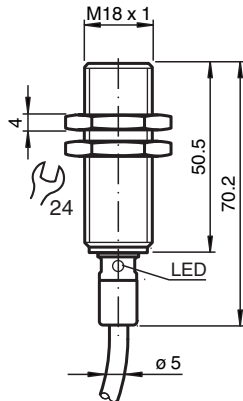
## NMB10-18GH50-E2



- 10 mm 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		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 $r_{S137}$		1
Output type		3-wire

#### Nominal ratings

Installation conditions

Release date: 2022-05-25 Date of issue: 2022-05-25 Filename: 288267\_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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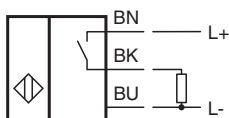
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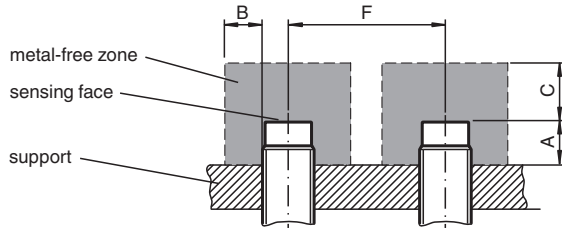
## Technical Data

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
<b>Limit data</b>		
Operating pressure statically		60 bar (870.2 psi) max.
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		655 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
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
<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 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
<b>General information</b>		
Assembly dimensions		x: 18 mm y: $\geq 4$ mm

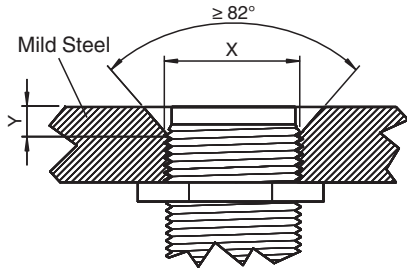
## Connection



**Installation**



**Mounting**



Sensor face is flush with mounting surface.

**Accessories**

	<p><b>BF 18</b></p>	<p>Mounting flange, 18 mm</p>
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