

# Inductive sensor

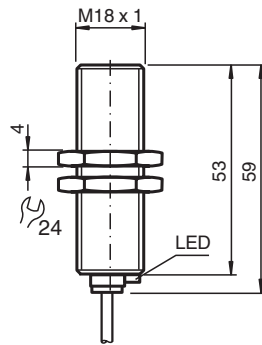
## NEB12-18GM50-E2-5M



- Increased operating distance
- 12 mm quasi flush



### Dimensions



### Technical Data

General specifications		
Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	12 mm
Installation		quasi flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 9.72 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 36 mm x 36 mm x 1 mm
Reduction factor $r_{Al}$		0.26
Reduction factor $r_{Cu}$		0.2
Reduction factor $r_{304}$		0.63
Reduction factor $r_{Brass}$		0.33
Output type		3-wire
Nominal ratings		
Installation conditions		
A		in steel 1.0037 (St37): 4 mm

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

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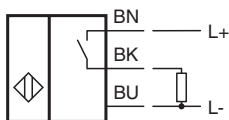
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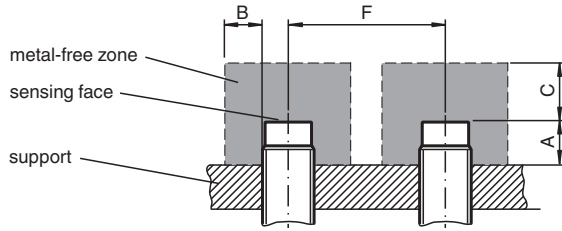
## Technical Data

B		14 mm
C		36 mm
F		36 mm
Operating voltage	$U_B$	10 ... 30 V
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	0.12 ... 1.8 mm
Reverse polarity protection		yes
Short-circuit protection		pulsing
Overload resistance		yes
Wire breakage protection		yes
Inductive overvoltage protection		yes
Surge suppression		yes
Ripple		10 %
Voltage drop	$U_d$	$\leq 2$ V
Repeat accuracy	R	0.6 mm
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	$\leq 10$ $\mu$ A
No-load supply current	$I_0$	$\leq 11$ mA
Time delay before availability	$t_v$	$\leq 50$ ms
Switching state indicator		LED, yellow
<b>Functional safety related parameters</b>		
MTTF <sub>d</sub>		2650 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 IEC 60947-5-2:2007
<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)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Connection type		cable PUR , 5 m
Core cross section		0.34 mm <sup>2</sup>
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Mass		100 g

## Connection



## Installation



## Accessories

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