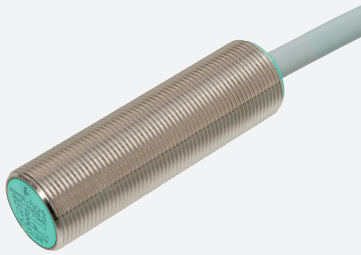


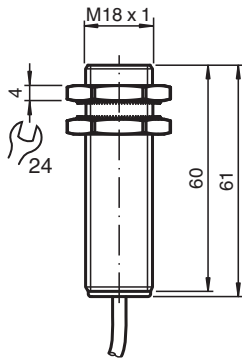
Inductive analog sensor NBB5-18GM60-I3



- Inductive analog sensor
- Output 0 mA ... 20 mA
- Flush mounting



Dimensions



Technical Data

General specifications

Output type	Analog current output
Installation	flush
Output polarity	DC
Measuring range	1 ... 5 mm
Output type	3-wire

Nominal ratings

Operating voltage	U_B	10 ... 30 V DC typ. 20 V DC
Reverse polarity protection		yes
Repeat accuracy		0 ... 80 μ m
No-load supply current	I_0	≤ 12 mA

Analog output

Output type	0 ... 20 mA
Slope of output characteristic	5 mA / mm
Linearity error	$\leq \pm 5$ % of full-scale value
Load resistor	$\leq 1000 \Omega$ typ. 500 Ω
Rate of current rise	
0 ... 20 mA	max. 38.9 A/s
20 ... 0 mA	max. 13.9 A/s
Recovery time	1 ... 10 ms , typ. 5 ms

Release date: 2025-01-13 Date of issue: 2025-01-13 Filename: 303096_eng.pdf

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

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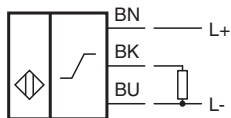
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 **PEPPERL+FUCHS**

Technical Data

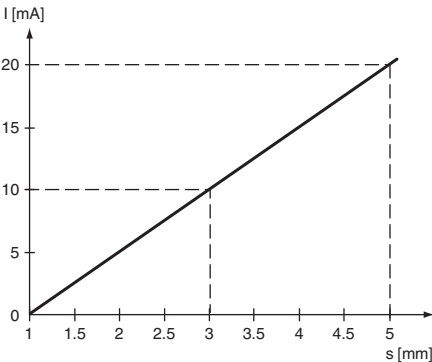
Adjustment tolerance zero point		$\leq \pm 5 \%$ of full-scale value
Temperature drift		$\leq \pm 0.15 \%$ /K of full-scale value
Residual ripple		$\pm 125 \mu\text{A}$
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Ambient conditions		
Ambient temperature		$-25 \dots 70 \text{ }^{\circ}\text{C}$ ($-13 \dots 158 \text{ }^{\circ}\text{F}$)
Mechanical specifications		
Connection type		cable
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67
Cable		
Wire end ferrules		yes
Cable diameter		$4.6 \text{ mm} \pm 0.2 \text{ mm}$
Bending radius		$> 10 \times$ cable diameter
Material		PVC
Color		grey
Number of cores		3
Core cross section		0.5 mm^2
Length	L	2 m
Dimensions		
Length		60 mm
Diameter		18 mm

Connection



Characteristic Curve

Output characteristics



Reduction factor

