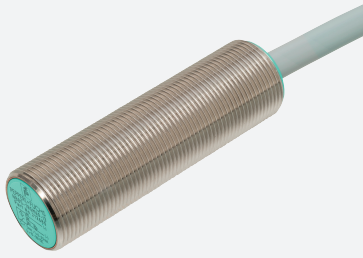


Inductive analog sensor

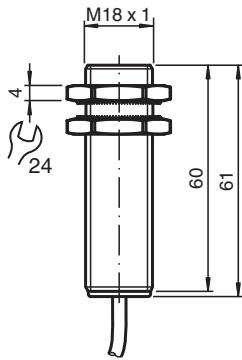
NBB5-18GM60-I3



- 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	\leq 12 mA

Analog output

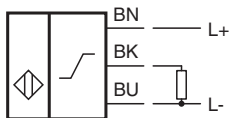
Output type	0 ... 20 mA
Slope of output characteristic	5 mA / mm
Linearity error	$\leq \pm 5$ % of full-scale value
Load resistor	\leq 1000 Ω typ. 500 Ω
Rate of current rise	
0 ... 20 mA	max. 38.9 A/s
20 ... 0 mA	max. 13.9 A/s
Recovery time	1 ... 10 ms , typ. 5 ms

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Technical Data

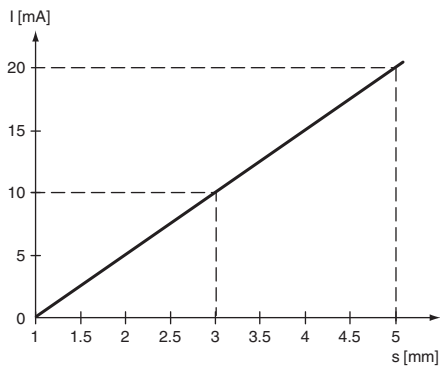
Adjustment tolerance zero point		$\leq \pm 5$ % of full-scale value
Temperature drift		$\leq \pm 0.15$ %/K of full-scale value
Residual ripple		± 125 μ A
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤ 36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °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 mm \pm 0.2 mm
Bending radius		> 10 x 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

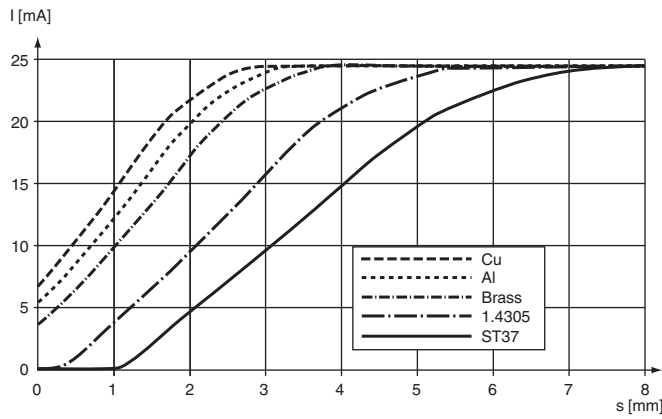


Characteristic Curve

Output characteristics



Reduction factor



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