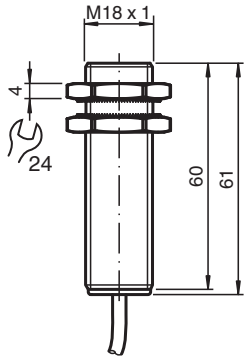


Inductive analog sensor

NBB5-18GM60-I3

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

Dimensions



Technical Data

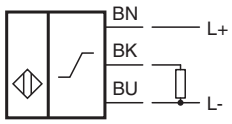
General specifications		
Output type		Analog current output
Installation		flush
Output polarity		DC
Measuring range		1 ... 5 mm
Output type		3-wire
Nominal ratings		
Operating voltage	U_B	10 ... 30 V DC typ. 20 V DC
Reverse polarity protection		yes
Repeat accuracy		0 ... 80 µm
No-load supply current	I_0	≤ 12 mA
Analog output		
Output type		0 ... 20 mA
Slope of output characteristic		5 mA / mm
Linearity error		≤ ± 5 % of full-scale value
Load resistor		≤ 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

Release date: 2025-02-27 Date of issue: 2025-02-27 Filename: 303096_eng.pdf

Technical Data

Adjustment tolerance zero point		≤ ± 5 % of full-scale value
Temperature drift		≤ ± 0.15 %/K of full-scale value
Residual ripple		± 125 µA
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 ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		grey
Number of cores		3
Core cross section		0.5 mm²
Length	L	2 m
Dimensions		
Length		60 mm
Diameter		18 mm

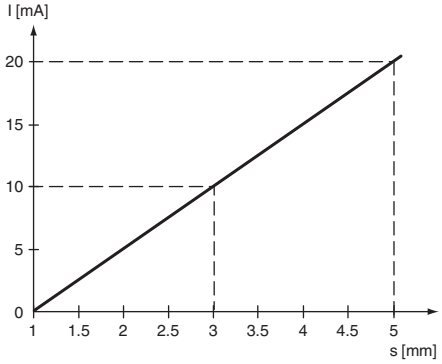
Connection



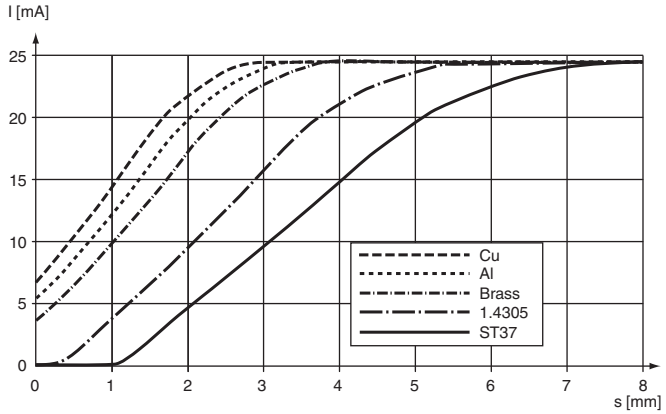
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Characteristic Curve

Output characteristics



Reduction factor



Release date: 2025-02-27 Date of issue: 2025-02-27 Filename: 303096_eng.pdf