



### Model Number

**NBB5-18GM60-I**

### Features

- Inductive analog
- Output 4 mA ... 20 mA
- Flush mounting

### Accessories

#### BF 18

Mounting flange, 18 mm

## Technical Data

### General specifications

Output type	Analog current output
Installation	flush
Output polarity	DC
Measurement 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 $\mu$ m
No-load supply current	$I_0$	$\leq$ 12 mA

### Analog output

Output type	4 ... 20 mA
Slope of output characteristic	4 mA / mm
Linearity error	$\leq$ $\pm$ 5 % of full-scale value
Load resistor	$\leq$ 1000 $\Omega$ typ. 500 $\Omega$
Rate of current rise	
4 ... 20 mA	max. 30.9 A/s
20 ... 4 mA	max. 11.1 A/s
Recovery time	1 ... 10 ms, typ. 5 ms
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 $\mu$ A

### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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### Mechanical specifications

Connection type	cabl PVC , 2 m
Core cross-section	0.5 mm <sup>2</sup>
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67

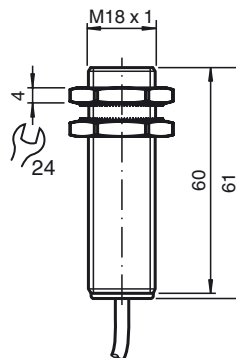
### Compliance with standards and directives

Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 60947-5-7:2003 IEC 60947-5-7:2003

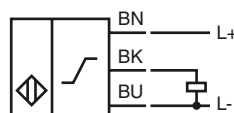
### Approvals and certificates

UL approval	cULus Listed, Class 2 Power Source
CCC approval	CCC approval / marking not required for products rated $\leq$ 36 V

## Dimensions

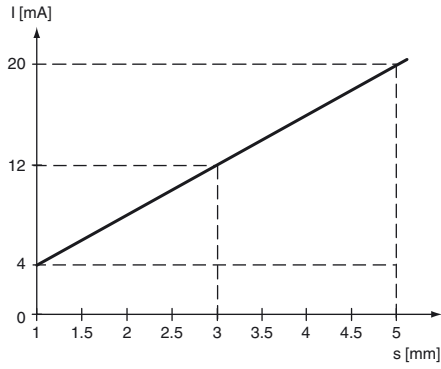


## Electrical Connection

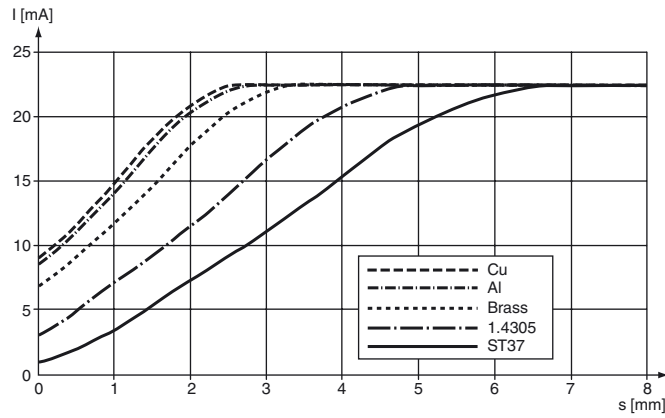


Characteristic Curves

Output characteristics



Reduction factor



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