

Inductive analog sensor

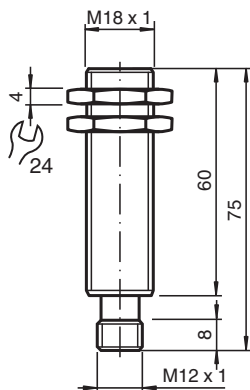
NBB5-18GM60-I3-V1



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



Dimensions



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 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

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

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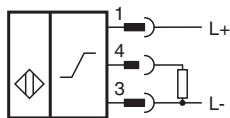
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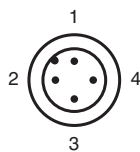
Technical Data

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
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 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 ≤36 V
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP67

Connection



Connection Assignment

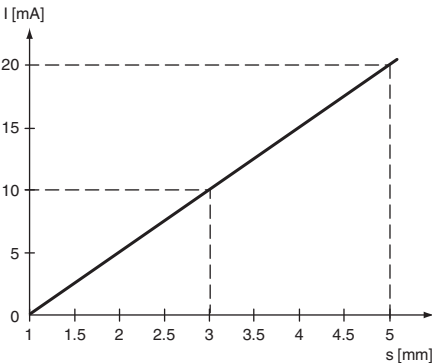


Wire colors in accordance with EN 60947-5-2

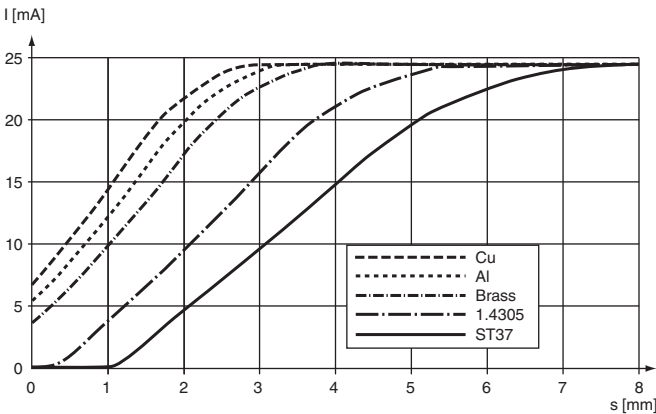
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Characteristic Curve

Output characteristics



Reduction factor



Accessories

	BF 18	Mounting flange, 18 mm
	V1-G-2M-PUR	Female cordset, M12, 4-pin, PUR cable
	V1-W-2M-PUR	Female cordset, M12, 4-pin, PUR cable

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