

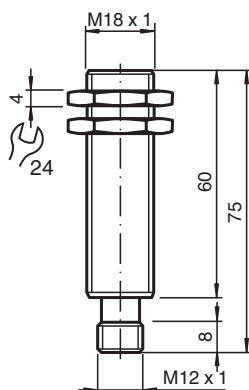


Inductive analog sensor NBB5-18GM60-I3-V1

- 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 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

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

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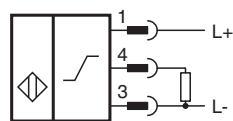
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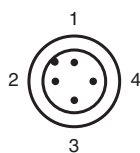
Technical Data

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	$\pm 125 \mu\text{A}$
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	Connector plug M12 x 1 , 4-pin
Housing material	brass, nickel-plated
Sensing face	PBT
Degree of protection	IP67
Dimensions	
Length	75 mm
Diameter	18 mm

Connection



Connection Assignment



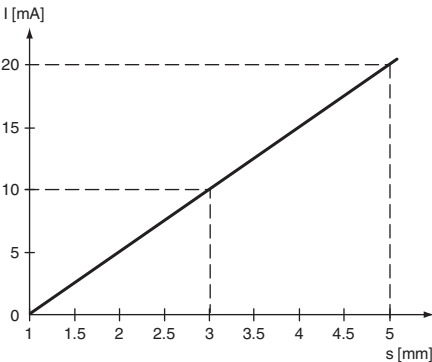
Wire colors in accordance with EN 60947-5-2

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

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Characteristic Curve

Output characteristics



Reduction factor

