

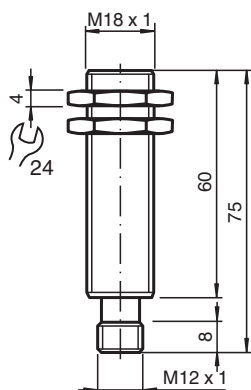


Inductive analog sensor NBB5-18GM60-I-V1

- Inductive analog
- Output 4 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	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 Ω
Rate of current rise	
4 ... 20 mA	max. 30.9 A/s
20 ... 4 mA	max. 11.1 A/s

Release date: 2024-05-28 Date of issue: 2024-06-08 Filename: 303099_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

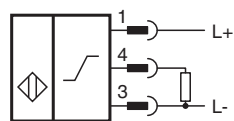
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

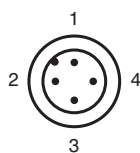
Technical Data

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 ... 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
Dimensions	
Length	75 mm
Diameter	18 mm

Connection



Connection Assignment



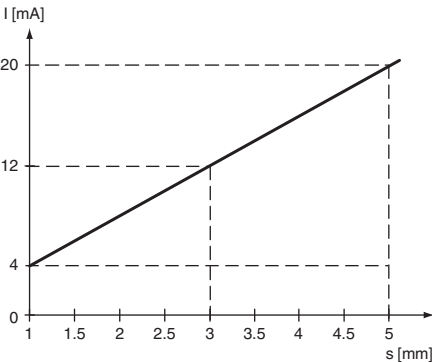
Wire colors in accordance with EN 60947-5-2

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

Release date: 2024-05-28 Date of issue: 2024-06-08 Filename: 303099_eng.pdf

Characteristic Curve

Output characteristics



Reduction factor

