

Inductive analog sensor

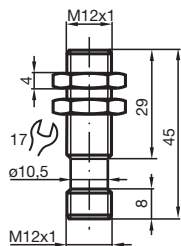
IA6-12GM35-U-V1



- Inductive analog
- Analog output
0 V ... 5 V



Dimensions



Technical Data

General specifications		
Output type		Analog voltage output
Installation		quasi flush
Output polarity		DC
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 18 mm x 18 mm x 1 mm
Measurement range		0 ... 6 mm
Output type		4-wire
Nominal ratings		
Operating voltage	U _B	10 ... 30 V
Limit frequency (3dB)		1000 Hz at s = 3 mm
Reverse polarity protection		yes
Short-circuit protection		yes
Repeat accuracy		0 ... 1 µm

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

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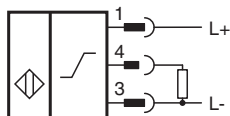
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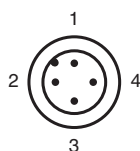
Technical Data

No-load supply current	I_0	$\leq 10 \text{ mA}$
Analog output		
Output type		0 ... 5 V
Load resistor		$\geq 500 \Omega$
Recovery time		1 ... 10 ms , typ. 5 ms
Adjustment tolerance zero point		$\leq \pm 10 \text{ \%}$ of full-scale value
Temperature drift		$\pm 5 \text{ \%}$ (0 ... 70 °C) $\pm 10 \text{ \%}$ (-25 ... 0 °C)
Residual ripple		20 %
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, General Purpose
CSA approval		cCSAus Listed, General Purpose
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		chromium plated brass
Sensing face		PBT
Degree of protection		IP67

Connection



Connection Assignment

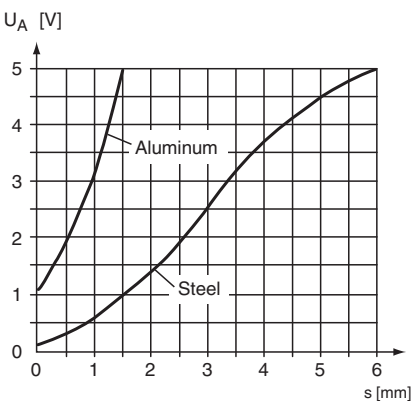


Wire colors in accordance with EN 60947-5-2

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

Characteristic Curve

Output characteristics



Accessories

	BF 12	Mounting flange, 12 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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