

Features

- 2-channel signal conditioner
- Field side loop powered
- Current input/output 0/4 mA ... 20 mA
- Accuracy 0.1 %
- Reverse polarity protection

Function

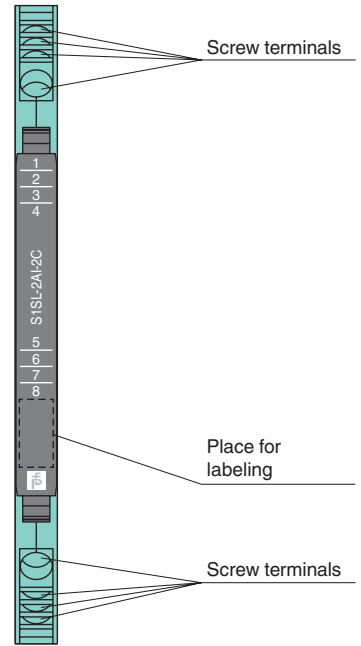
This signal conditioner provides the galvanic isolation between field circuits and control circuits.

The device transfers a 0/4 mA ... 20 mA signal of a current source from the field side to the control side.

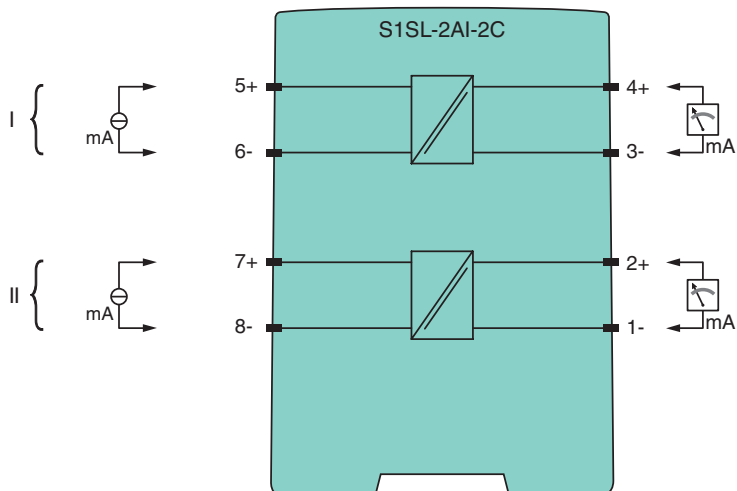
This device is loop powered. No additional power supply has to be connected.

Assembly

Front view



Connection



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

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General specifications	
Signal type	Analog input
Supply	
Rated voltage U_n	2.2 ... 30 V DC , loop powered
Power loss	0.1 W
Power consumption	0.6 W
Input	
Connection	terminals 5+, 6-; 7+, 8-
Input signal	0/4 ... 20 mA , max. 50 mA
Output	
Connection	terminals 1-, 2+; 3-, 4+
Analog current output	0/4 ... 20 mA, load \leq 600 Ω
Ripple	\leq 10 mV _{eff}
Transfer characteristics	
Deviation	\leq 0.1 % of full-scale value
Influence of load	0.05 % of the measured value per 100 Ω
Influence of ambient temperature	$<$ 100 ppm/K of full-scale value
Frequency range	0 ... 100 Hz
Rise time/fall time	\leq 3.5 ms
Electrical isolation	
Field circuit/control circuit	safe electrical isolation by reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} test voltage 3 kV, 50 Hz
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Conformity	
Degree of protection	IEC 60529:2001
Protection against electrical shock	EN 61010-1:2010
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications	
Connection type	screw terminals
Core cross-section	\leq 2.5 mm ² , 14 AWG
Degree of protection	IP20
Mass	approx. 70 g
Dimensions	6.2 x 97 x 107 mm (0.24 x 3.82 x 4.21 in) , housing type S1
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

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