

**Features**

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

**Function**

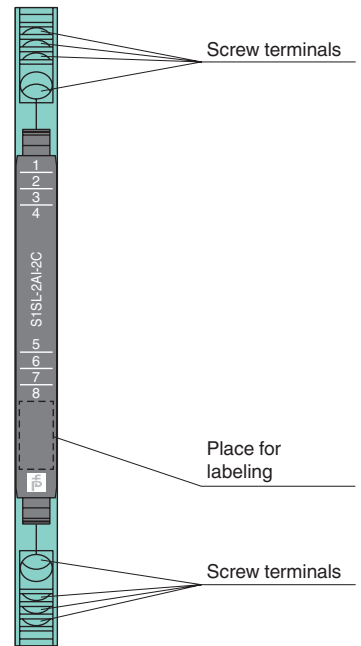
This signal conditioner provides the galvanic isolation between field circuits and control circuits.

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

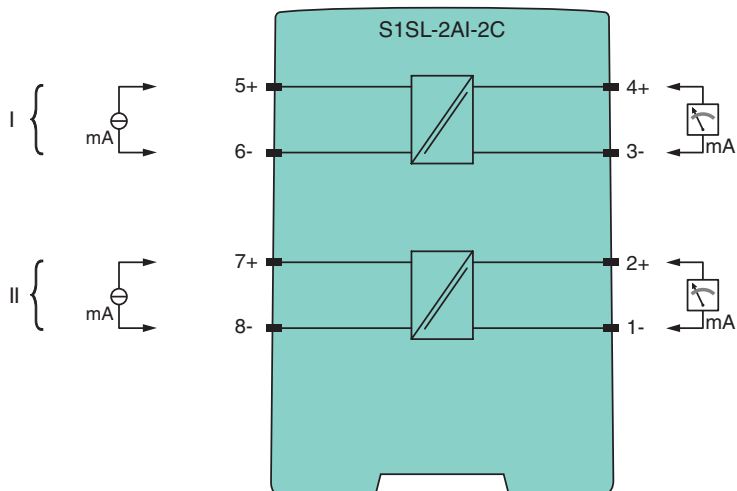
This device is loop powered. No additional power supply has to be connected.

**Assembly**

Front view



**Connection**



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

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<b>General specifications</b>		
Signal type		Analog input
<b>Supply</b>		
Rated voltage	$U_n$	2.2 ... 30 V DC , loop powered
Power dissipation		0.1 W
Power consumption		0.6 W
<b>Input</b>		
Connection		terminals 5+, 6-, 7+, 8-
Input signal		0/4 ... 20 mA , max. 50 mA
Voltage drop		≤ 2.3 V
<b>Output</b>		
Connection		terminals 1-, 2+, 3-, 4+
Analog current output		0/4 ... 20 mA, load ≤ 600 Ω
Ripple		≤ 10 mV <sub>eff</sub>
<b>Transfer characteristics</b>		
Deviation		≤ 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		≤ 3.5 ms
<b>Electrical isolation</b>		
Field circuit/control circuit		safe electrical isolation by reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> test voltage 3 kV, 50 Hz
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2013 (industrial locations)
<b>Conformity</b>		
Degree of protection		IEC 60529:2001
Protection against electrical shock		EN 61010-1:2010
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Connection type		screw terminals
Core cross-section		≤ 2.5 mm <sup>2</sup> , 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
<b>General information</b>		
Supplementary information		Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

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