

**Features**

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

**Function**

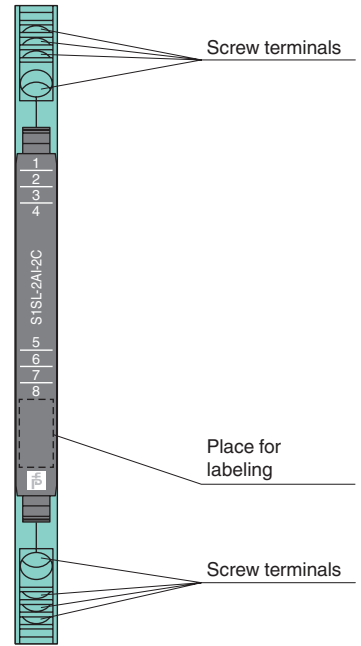
This signal conditioner provides the galvanic isolation between field circuits and control circuits.

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

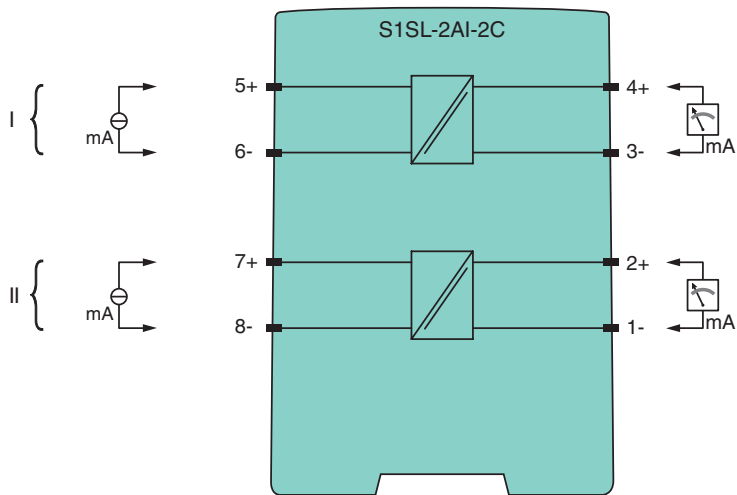
This device is loop powered. No additional power supply has to be connected.

**Assembly**

Front view



**Connection**



Zone 2  
Div. 2

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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 $U_r$	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
Input voltage	$\geq 2.3 \text{ V} + I \times \text{load}$ , max. 30 V
Voltage drop	$\leq 2.3 \text{ V}$
<b>Output</b>	
Connection	terminals 1-, 2+; 3-, 4+
Analog current output	0/4 ... 20 mA, load $\leq 600 \Omega$
Ripple	$\leq 10 \text{ mV}_{\text{eff}}$
<b>Transfer characteristics</b>	
Deviation	$\leq 0.1 \%$ of full-scale value
Influence of load	0.05 % of the measured value per 100 $\Omega$
Influence of ambient temperature	$< 100 \text{ ppm/K}$ of full-scale value
Frequency range	0 ... 100 Hz
Rise time/fall time	$\leq 3.5 \text{ ms}$
<b>Galvanic isolation</b>	
Field circuit/control circuit	safe electrical isolation by reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 $V_{\text{eff}}$ test voltage 3 kV, 50 Hz, 1 min
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	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)
Damaging gas	designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>	
Connection type	screw terminals
Core cross-section	0.5 ... 2.5 mm <sup>2</sup> , 20 ... 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 inch) , housing type S1
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
<b>Data for application in connection with hazardous areas</b>	
EU-Type Examination Certificate	DEMKO 16 ATEX 1750X
Marking	 II 3G Ex nA IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-15:2010
<b>International approvals</b>	
UL approval	E106378
IECEX approval	IECEX UL 16.0116X
Approved for	Ex nA IIC T4 Gc
<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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