

Features

- 1-channel signal conditioner
- 24 V DC supply
- Input bipolar current and voltage sources
- Output bipolar current and voltage sources
- Accuracy 0.1 %
- Configurable via DIP switches and potentiometer

Function

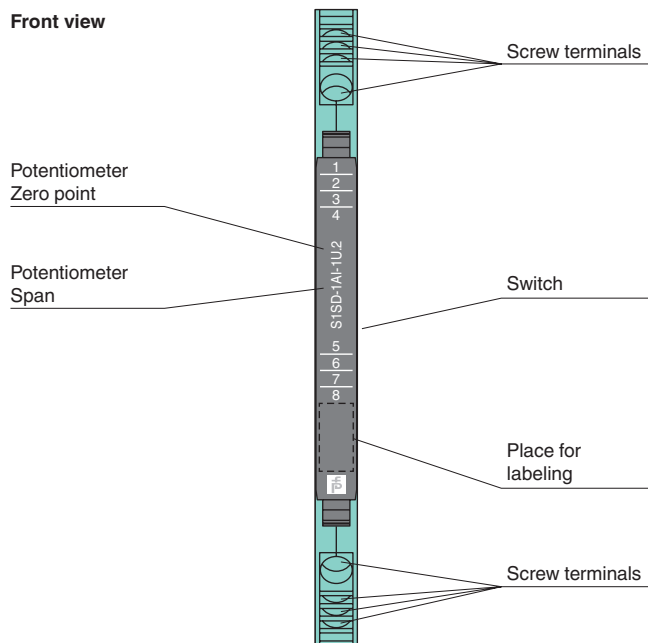
This signal conditioner provides the galvanic isolation between field circuits and control circuits.

The device has an input for bipolar current and voltage sources.

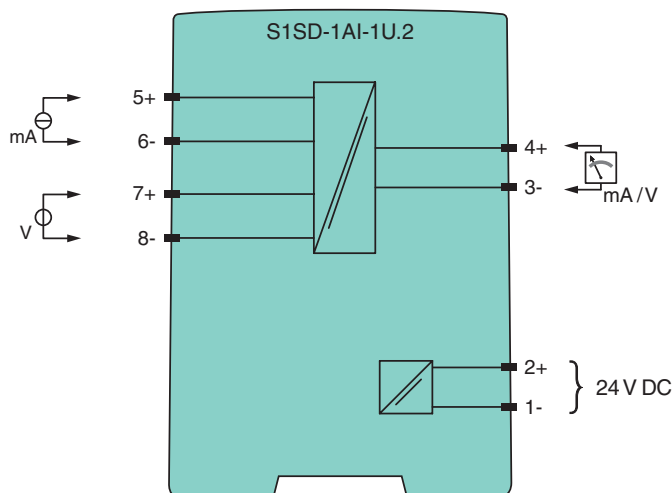
At the output the signals are available as bipolar current and voltage sources.

The device is easily configured by the use of DIP switches and potentiometers.

Assembly



Connection



General specifications	
Signal type	Analog input
Supply	
Connection	terminals 1-, 2+
Rated voltage	16.8 ... 31.2 V DC
Power loss	0.6 W
Power consumption	0.8 W
Input	
Transmission range	linearity range: unipolar -1 ... 110 % bipolar -110 ... 110 %
Input I	
Connection	terminals 5+, 6-
Input signal	0/4 ... 20 mA , 0/2 ... 10 mA , ± 10 mA , ± 20 mA , max. 50 mA
Input resistance	$\leq 25 \Omega$
Input II	
Connection	terminals 7+, 8-
Input signal	0/1 ... 5 V , 0/2 ... 10 V , ± 5 V , ± 10 V , max. 30 V
Input resistance	$> 1 \text{ M}\Omega$
Output	
Connection	terminals 3-, 4+
Analog voltage output	0/1 ... 5 V , 0/2 ... 10 V , ± 5 V , ± 10 V , load $\geq 2 \text{ k}\Omega$
Analog current output	0/4 ... 20 mA , ± 10 mA , ± 20 mA , load $\leq 600 \Omega$
Ripple	$\leq 10 \text{ mV}_{\text{eff}}$
Transfer characteristics	
Deviation	$\leq 0.1 \%$ of full-scale value
Influence of ambient temperature	$< 100 \text{ ppm/K}$ of full-scale value
Frequency range	0 ... 100 Hz , 0 ... 5 kHz
Electrical isolation	
Output/power supply	safe electrical isolation by reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} test voltage 2.5 kV, 50 Hz
Input/Other circuits	safe electrical isolation by reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} test voltage 2.5 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	$\leq 2.5 \text{ mm}^2$, 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 .