

Features

- 1-channel signal conditioner
- 24 V DC supply
- Input 2-wire transmitters
- Input current and voltage sources
- Dual output 0/4 mA ... 20 mA, 0/1 V ... 5 V or 0/2 V ... 10 V
- Signal splitter (1 input and 2 outputs)
- Accuracy 0.1 %
- Configurable by DIP switches

Function

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

The device supplies 2-wire transmitters, and can also be used with current and voltage sources.

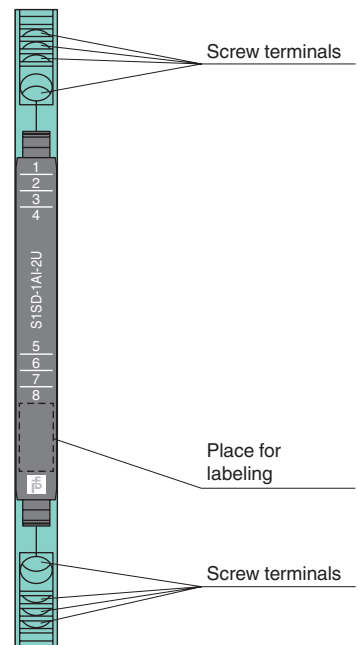
The device provides the following standard signals at the output:

- 0/4 mA ... 20 mA signal
- 0/1 V ... 5 V signal
- 0/2 V ... 10 V signal

The device can be powered via terminals or Power Bus.

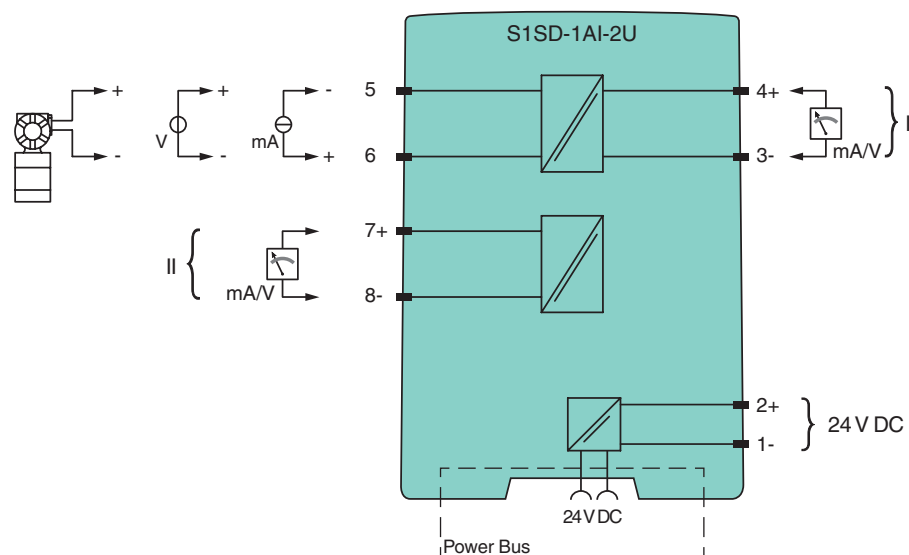
Assembly

Front view



CE

Connection



General specifications	
Signal type	Analog input
Supply	
Connection	Power Bus or terminals 1-, 2+
Rated voltage U_n	16.8 ... 31.2 V DC
Power loss	0.8 W
Power consumption	1.4 W
Input	
Connection	terminals 5+, 6-
Input signal	0/4 ... 20 mA
Open circuit voltage/short-circuit current	$\leq 22 \text{ V} / 35 \text{ mA}$
Input resistance	$\leq 25 \Omega$
Transmission range	linearity range: -1 ... 110 %
Available voltage	16 V at 20 mA
Output	
Ripple	$\leq 10 \text{ mV}_{\text{eff}}$
Output I	
Connection	terminals 3-, 4+
Output signal	0/2 ... 10 V , load $\geq 2 \text{ k}\Omega$ 0/4 ... 20 mA , load $\leq 300 \Omega$
Output II	
Connection	terminals 7+, 8-
Output signal	0/2 ... 10 V , load $\geq 2 \text{ k}\Omega$ 0/4 ... 20 mA , load $\leq 300 \Omega$
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
Rise time/fall time	$\leq 3.5 \text{ ms}$
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 3 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 3 kV, 50 Hz
Output I/II	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	$\leq 2.5 \text{ mm}^2$, 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 .
Accessories	
Designation	optional accessories: - Power Bus POWERBUS-SETL5.250 - Power Bus POWERBUS-SETH5.250 - cover for DIN mounting rail POWERBUS-COV-250 - end cap POWERBUS-CAP

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Configuration

Switch settings

Signal	Input				Output 1			Output 2		
	1	2	3	4	5	6	7	8	9	10
0 mA ... 20 mA										
4 mA ... 20 mA				ON			ON			ON
0 V... 10 V		ON	ON		ON			ON		
2 V ... 10 V		ON	ON	ON	ON		ON	ON		ON
0 V... 5 V		ON			ON	ON		ON	ON	
1 V... 5 V		ON		ON	ON	ON	ON	ON	ON	ON
0 mA ... 20 mA	ON									
4 mA ... 20 mA	ON			ON						

Factory settings: all switches in position OFF

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