Passive Isolator

Screw terminals

Assembly Features • 1-channel signal conditioner · Field side loop powered Front view • Current input/output 0/4 mA ... 20 mA Screw terminals • Accuracy 0.1 % · Reverse polarity protection · Connection via screw terminals Function S1SL-1AI-1C 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. Place for labeling

CE

Connection



General specifications	
Signal type	Analog input
Supply	
Bated voltage	2.2 20 V DC loop powered
Power dissipation	
Power appaulation	0.05 W
Power consumption	0.3 W
	terminals 5+, 6-
	0/4 20 mA , max. 50 mA
Input voltage	\geq 2.3 V + 1 X load , max. 30 V
Voltage drop	≤2.3 V
Output	
Connection	terminals 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	≤ 3.5 ms
Galvanic 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, 1 min
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
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)
Damaging gas	designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3
Mechanical specifications	
Connection type	screw terminals
Core cross-section	0.5 2.5 mm ² . 20 14 AWG
Degree of protection	IP20
Mass	
Dimensions	$62 \times 97 \times 107 \text{ mm} (0.24 \times 3.82 \times 4.21 \text{ inch})$ housing type S1
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection	
with hazardous areas	
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
International approvals	
	E106378
IECEx approval	IECEX UL 16.0116X
Approved for	ExinA IIC T4 Gc
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be
cappionentaly mornation	observed where applicable. For information see www.pepperl-fuchs.com.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com

