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<http://www.pepperl-fuchs.de>

Project Device group: Signal Conditioners / SC-System

Status 04-2014

Created with EPLAN Electric P8 2.3.5.7352

Manufacturer (Company) DUS Daten- und Steuerungstechnik GmbH  
Responsible for project Thomas Göbel

Created on 11.03.2014 by (short name) AWE  
Edit date 17.04.2014 by (short name) TGO

Number of pages 20

			Date	17.04.2014	Device group: Signal Conditioners / SC-System			Title page / cover sheet	== PuF	Page from	20
			Ed.	TGO					= DOC		
			Appr						++		
Modification	Date	Name	Original		Replacement of	Replaced by			+	Page	1



# Macros for Eplan Electric P8

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All statements are made with the best intentions and the best of our knowledge and belief.  
For the correctness and completeness of the specification no adhesion is taken over.  
No responsibility is accepted for the using of the product data with the CAE system Eplan Electric P8.

Project structure

This project is a macro project and contains CAE data for Eplan Electric P8.

CAE data:

Type	File name	Version	File type
Macros		04_2014	.zw5
Parts data		04_2014	.zw6
Parts data import file		04_2014	.xml

Data directories:

..\EPLAN\Electric P8\...\ PEPPERL+FUCHS

Parts data:

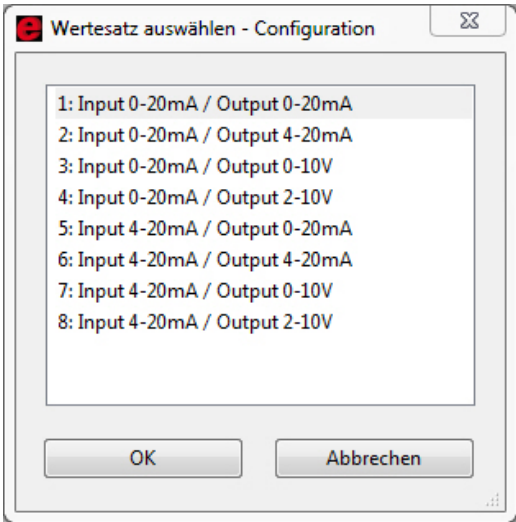
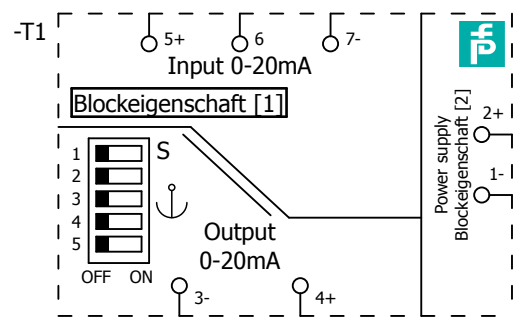
For all macros parts data have been created.  
They apply to the internal part selection.  
For the data exchange between parts data and project / project and parts data the Eplan Electric P8 functions for synchronize parts data will be use.



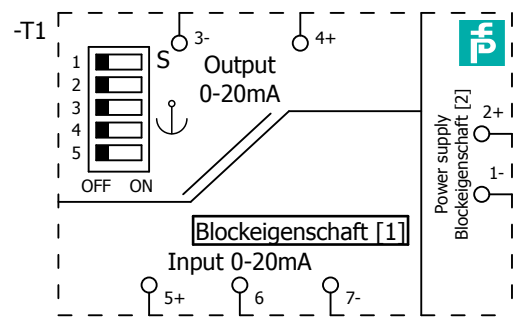
# Parts list

device tag	Quantity	Designation 1 Designation 2 Designation 3	Type number Order number	manufacturer supplier	manufacturer's name supplier name	part number function text
QU						
==PuF =SC-System +S1SD-1AI-1U -T1	2	Transmitter Power Supply 1-channel signal conditioner Current and voltage output	S1SD-1AI-1U S1SD-1AI-1U	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SD-1AI-1U
==PuF =SC-System +S1SD-1AI-2C -T1	2	Transmitter Power Supply/Signal Splitter 1-channel signal conditioner Dual output 0/4 mA ... 20 mA	S1SD-1AI-2C S1SD-1AI-2C	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SD-1AI-2C
==PuF =SC-System +S1SD-1TI-1U -T1	2	Temperature Converter 1-channel signal conditioner Line fault (LFD) and sensor burnout detection	S1SD-1TI-1U S1SD-1TI-1U	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SD-1TI-1U
==PuF =SC-System +S1SL-1AI-1C -T1	2	Passive Isolator 1-channel signal conditioner Current input/output 0/4 mA ... 20 mA	S1SL-1AI-1C S1SL-1AI-1C	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SL-1AI-1C
==PuF =SC-System +S1SL-2AI-2C -T1	2	Passive Isolator 2-channel signal conditioner Current input/output 0/4 mA ... 20 mA	S1SL-2AI-2C S1SL-2AI-2C	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SL-2AI-2C
==PuF =SC-System +S1SD-1AI-1U.2 -T1	2	Isolation amplifier 1-channel signal conditioner Input / Output bipolar current and voltage sources	S1SD-1AI-1U.2 S1SD-1AI-1U.2	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SD-1AI-1U.2
==PuF =SC-System +S1SD-1AI-1U.1 -T1	2	Isolation amplifier 1-channel signal conditioner Current and voltage output	S1SD-1AI-1U.1 S1SD-1AI-1U.1	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SD-1AI-1U.1
==PuF =SC-System +S1SD-1AI-1C.H -T1	2	SMART Transmitter Power Supply 1-channel signal conditioner Output 4 mA ... 20 mA	S1SD-1AI-1C.H S1SD-1AI-1C.H	P+F P+F	Pepperl+Fuchs Pepperl+Fuchs	P+F.S1SD-1AI-1C.H

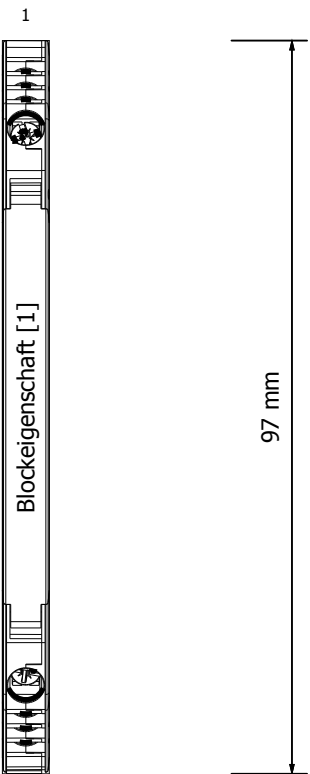
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Variante A  
Version 04/14  
Allpolig



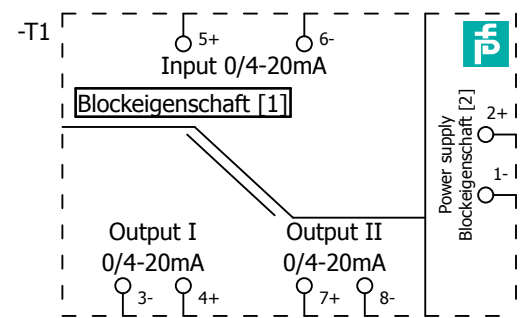
P+F\SC-System\S1SD-1AI-1U.ema  
Variante B  
Version 04/14  
Allpolig



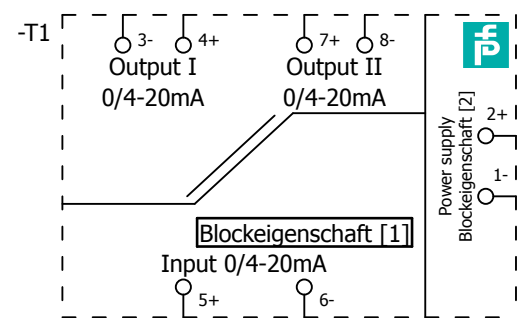
P+F\SC-System\S1SD-1AI-1U.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau



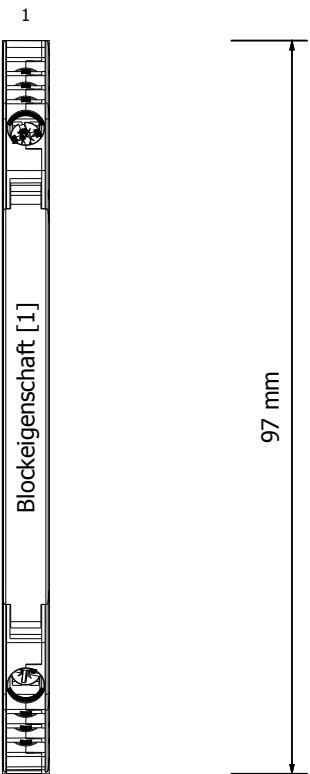
P+F\SC-System\S1SD-1AI-2C.ema  
Variante A  
Version 04/14  
Allpolig



P+F\SC-System\S1SD-1AI-2C.ema  
Variante B  
Version 04/14  
Allpolig

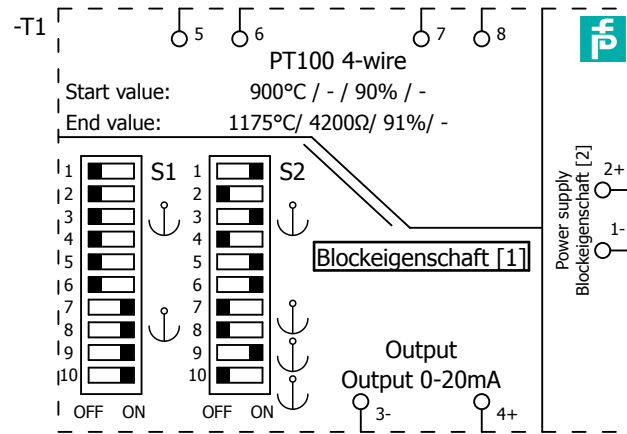


P+F\SC-System\S1SD-1AI-2C.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau

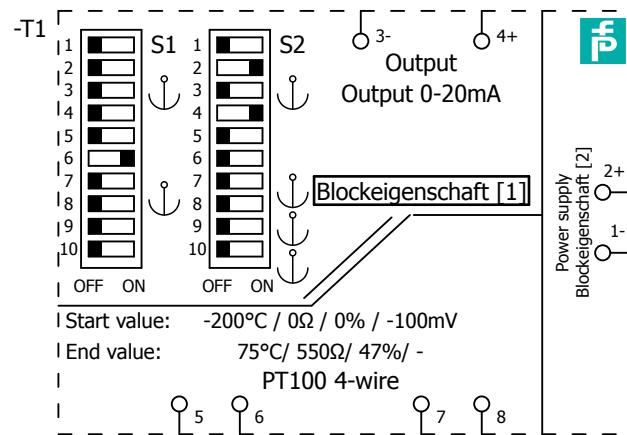




P+F\SC-System\S1SD-1TI-1U.ema  
Variante A  
Version 04/14  
Allpolig



P+F\SC-System\S1SD-1TI-1U.ema  
Variante B  
Version 04/14  
Allpolig



Wertesatz auswählen - Sensor

- 1: PT100 4-wire
- 2: PT100 3-wire
- 3: PT100 2-wire
- 4: PT1000 4-wire
- 5: PT1000 3-wire
- 6: PT1000 2-wire
- 7: Ni100 4-wire
- 8: Ni100 3-wire
- 9: Ni100 2-wire
- 10: Resistor 4-wire
- 11: Resistor 3-wire
- 12: Resistor 2-wire
- 13: Typ J CJC Internal
- 14: Typ J CJC external
- 15: Typ K CJC internal
- 16: Typ K CJC internal
- 17: Potentiometer
- 18: + -100mV
- 19: + -1000mV
- 20: PC-Programming

OK Abbrechen

Wertesatz auswählen - Start value

- 1: -200°C / 0Ω / 0% / -100mV
- 2: -175°C / 50Ω / 1% / -90mV
- 3: -150°C / 100Ω / 2% / -80mV
- 4: -125°C / 150Ω / 3% / -70mV
- 5: -100°C / 200Ω / 4% / -60mV
- 6: -75°C / 250Ω / 5% / -50mV
- 7: -50°C / 300Ω / 6% / -45mV
- 8: -25°C / 350Ω / 7% / -40mV
- 9: 0°C / 400Ω / 8% / -35mV
- 10: 25°C / 450Ω / 9% / -30mV
- 11: 50°C / 500Ω / 10% / -25mV
- 12: 75°C / 550Ω / 11% / -20mV
- 13: 100°C / 600Ω / 12% / -15mV
- 14: 125°C / 650Ω / 13% / -10mV
- 15: 150°C / 700Ω / 14% / -5mV
- 16: 175°C / 750Ω / 15% / 0mV
- 17: 200°C / 800Ω / 20% / 5mV
- 18: 225°C / 850Ω / 25% / 10mV
- 19: 250°C / 900Ω / 30% / 15mV
- 20: 275°C / 950Ω / 35% / 20mV
- 21: 300°C / 1000Ω / 40% / 25mV
- 22: 350°C / 1500Ω / 45% / 30mV
- 23: 400°C / 2000Ω / 50% / 35mV
- 24: 450°C / 2500Ω / 55% / 40mV
- 25: 500°C / 3000Ω / 60% / 45mV
- 26: 550°C / 3500Ω / 65% / 50mV
- 27: 600°C / 4000Ω / 70% / 60mV
- 28: 650°C / 4500Ω / 75% / 70mV
- 29: 700°C / - / 80% / 80mV
- 30: 800°C / - / 85% / 90mV
- 31: 900°C / - / 90% / -
- 32: 1000°C / - / TeachIN / -

OK Abbrechen

Wertesatz auswählen - End value

- 33: 650°C / 2100Ω / 70% / -10mV
- 34: 675°C / 2200Ω / 71% / -15mV
- 35: 700°C / 2300Ω / 72% / -20mV
- 36: 725°C / 2400Ω / 73% / -25mV
- 37: 750°C / 2500Ω / 74% / -30mV
- 38: 775°C / 2600Ω / 75% / -35mV
- 39: 800°C / 2700Ω / 76% / -40mV
- 40: 825°C / 2800Ω / 77% / -45mV
- 41: 850°C / 2900Ω / 78% / -50mV
- 42: 875°C / 3000Ω / 79% / -55mV
- 43: 900°C / 3100Ω / 80% / -60mV
- 44: 925°C / 3200Ω / 81% / -65mV
- 45: 950°C / 3300Ω / 82% / -70mV
- 46: 975°C / 3400Ω / 83% / -75mV
- 47: 1000°C / 3500Ω / 84% / -80mV
- 48: 1025°C / 3600Ω / 85% / -85mV
- 49: 1050°C / 3700Ω / 86% / -90mV
- 50: 1075°C / 3800Ω / 87% / -
- 51: 1100°C / 3900Ω / 88% / -
- 52: 1125°C / 4000Ω / 89% / -
- 53: 1150°C / 4100Ω / 90% / -
- 54: 1175°C / 4200Ω / 91% / -
- 55: 1200°C / 4300Ω / 92% / -
- 56: 1225°C / 4400Ω / 93% / -
- 57: 1250°C / 4500Ω / 94% / -
- 58: 1275°C / 4600Ω / 95% / -
- 59: 1300°C / 4700Ω / 96% / -
- 60: 1325°C / 4800Ω / 97% / -
- 61: 1350°C / 4900Ω / 98% / -
- 62: 1375°C / 5000Ω / 99% / -
- 63: 1400°C / - / 100% / -
- 64: - / - / TeachIN / -

OK Abbrechen

Wertesatz auswählen - Output

- 1: 0-5V
- 2: 0-10V
- 3: 4-20mA
- 4: 0-20mA

OK Abbrechen

Wertesatz auswählen - Output Characteri...

Characteristic: falling  
Characteristic: rising

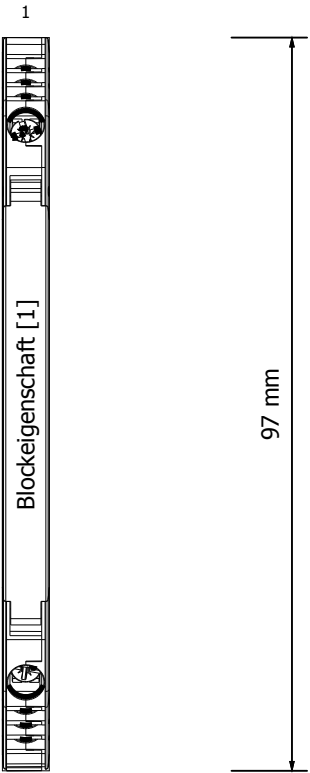
OK Abbrechen

Wertesatz auswählen - Output On Error

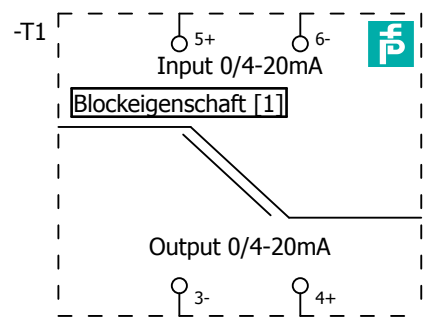
On Error: downscale  
On Error: upscale

OK Abbrechen

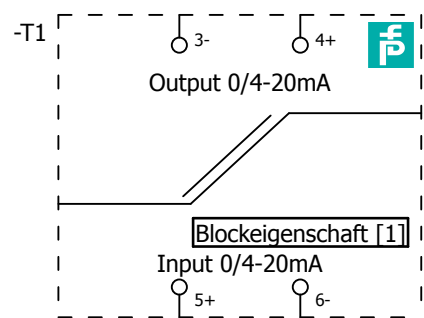
P+F\SC-System\S1SD-1TI-1U.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau



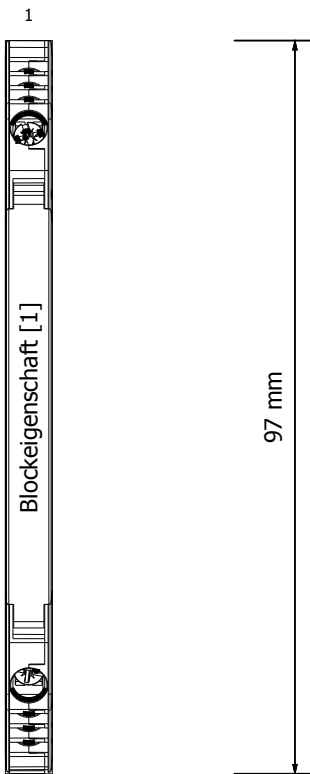
P+F\SC-System\S1SL-1AI-1C.ema  
Variante A  
Version 04/14  
Allpolig



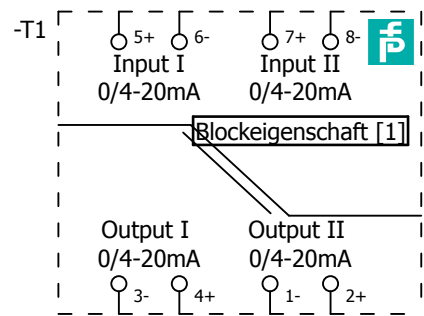
P+F\SC-System\S1SL-1AI-1C.ema  
Variante B  
Version 04/14  
Allpolig



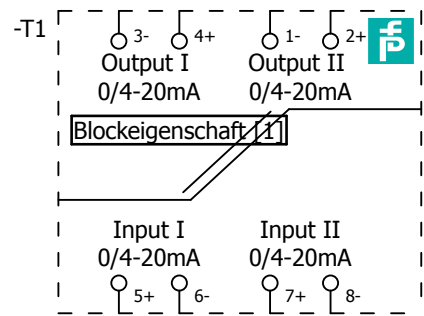
P+F\SC-System\S1SL-1AI-1C.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau



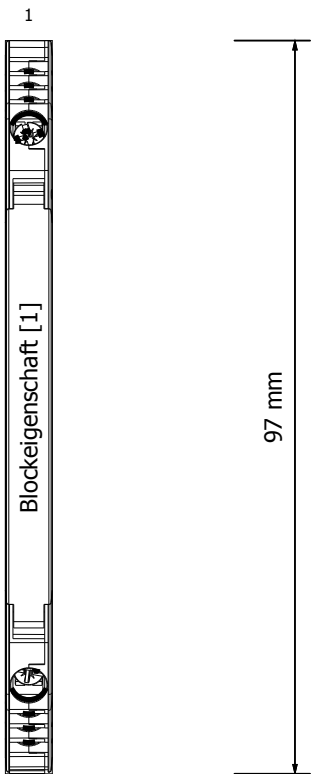
P+F\SC-System\S1SL-2AI-2C.ema  
Variante A  
Version 04/14  
Allpolig



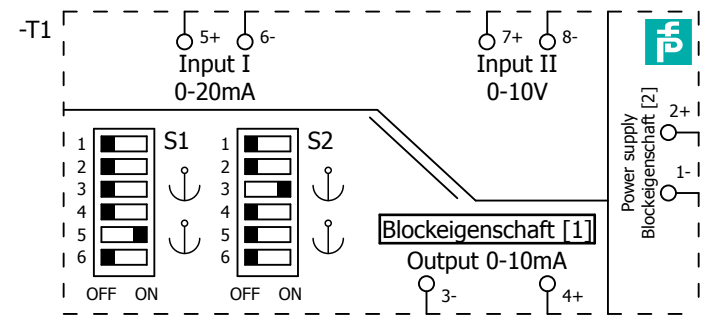
P+F\SC-System\S1SL-2AI-2C.ema  
Variante B  
Version 04/14  
Allpolig



P+F\SC-System\S1SL-2AI-2C.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau



P+F\SC-System\S1SD-1AI-1U.2.ema  
Variante A  
Version 04/14  
Allpolig



Wertesatz auswählen - Configuration S1

1: Input I +- 20mA / Input II +- 10V  
2: Input I 0-20mA / Input II 0-10V  
3: Input I 4-20mA / Input II 2-10V  
4: Input I +- 10mA / Input II +- 5V  
5: Input I 0-10mA / Input II 0-5V  
6: Input I 2-10mA / Input II 1-5V

OK Abbrechen

Wertesatz auswählen - Configuration S2

1: Output +- 10V  
2: Output 0-10V  
3: Output 2-10V  
4: Output +- 5V  
5: Output 0-5V  
6: Output 1-5V  
7: Output +- 20mA  
8: Output 0-20mA  
9: Output 4-20mA  
10: Output +- 10mA  
11: Output 0-10mA  
12: Output 2-10mA

OK Abbrechen

Wertesatz auswählen - Configuration S1 ...

1: Zero potentiometer active  
2: Span potentiometer active

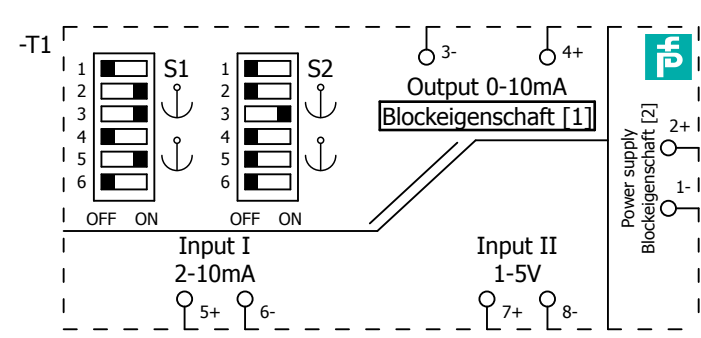
OK Abbrechen

Wertesatz auswählen - Configuration S2 ...

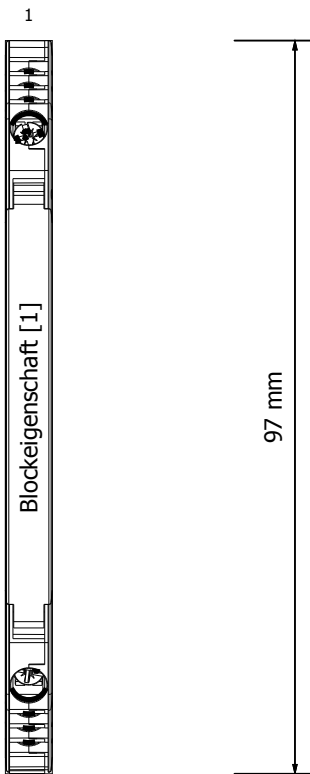
1: Filter 5kHz  
2: Filter 100Hz

OK Abbrechen

P+F\SC-System\S1SD-1AI-1U.2.ema  
Variante B  
Version 04/14  
Allpolig

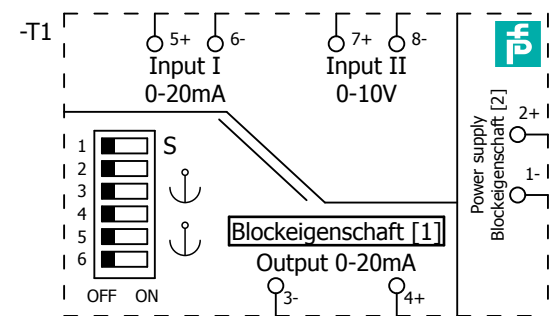


P+F\SC-System\S1SD-1AI-1U.2.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau





P+F\SC-System\S1SD-1AI-1U.1.ema  
Variante A  
Version 04/14  
Allpolig



Wertesatz auswählen - Configuration

1: Output 0-20mA / Input I 0-20mA / Input II 0-10V

2: Output 0-20mA / Input I 4-20mA / Input II 2-10V

3: Output 4-20mA / Input I 0-20mA / Input II 0-10V

4: Output 4-20mA / Input I 4-20mA / Input II 2-10V

5: Output 0-10V / Input I 0-20mA / Input II 0-10V

6: Output 0-10V / Input I 4-20mA / Input II 2-10V

7: Output 2-10V / Input I 0-20mA / Input II 0-10V

8: Output 2-10V / Input I 4-20mA / Input II 2-10V

OK

Abbrechen

Wertesatz auswählen - Filter

1: 5kHz

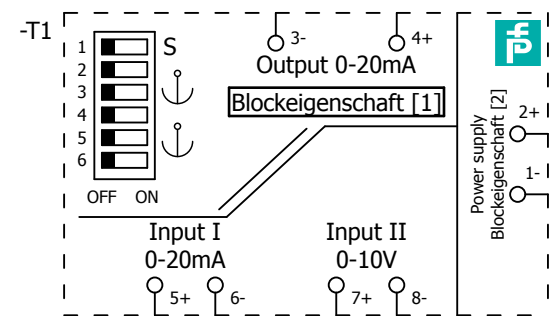
2: 100Hz

3: 10Hz

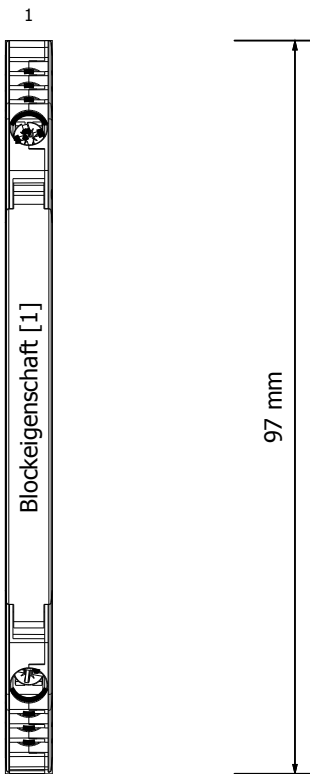
OK

Abbrechen

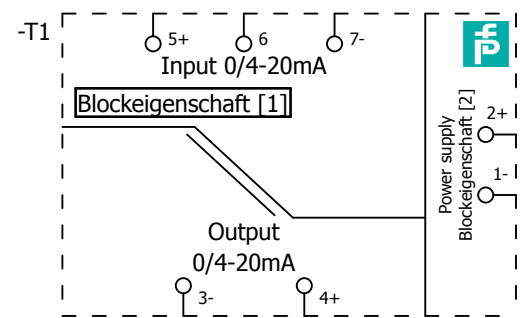
P+F\SC-System\S1SD-1AI-1U.1.ema  
Variante B  
Version 04/14  
Allpolig



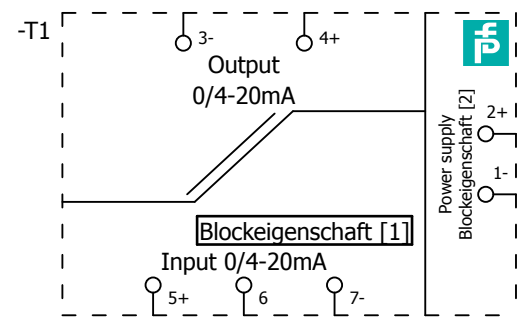
P+F\SC-System\S1SD-1AI-1U.1.ema  
Variante A  
Version 04/14  
Schaltschrankaufbau



P+F\SC-System\S1SD-1AI-1C.H.ema  
Variante A  
Version 04/14  
Allpolig



P+F\SC-System\S1SD-1AI-1C.H.ema  
Variante B  
Version 04/14  
Allpolig



0	1	2	3	4	5	6	7	8	9				
<div><div>P+F\SC-System\S1SD-1AI-1C.H.ema Variante A Version 04/14 Schaltschrankaufbau</div><div><div>1</div><div><div>97 mm</div></div></div></div>													
1													
			Date	17.04.2014	Device group: Signal Conditioners / SC-System			S1SD-1AI-1C.H		== PuF		Page	20
			Ed.	TGO						= SC-System			
			Appr							++			
Modification	Date	Name	Original		Replacement of	Replaced by					+ S1SD-1AI-1C.H		Page