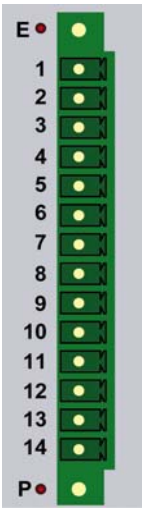
analog output 4210

- **16 Bit analog output**
- **± 20mA**
- **2 Channels, simultaneous converting**
- **Galvanicaly isolated**

I/O

Pinout

LED:	0; (8)	Ch 0: positive output current
	1; (9)	Ch 1: positive output current
	4; (12)	Ch 0: negative output current
	5; (13)	Ch 1: negative output current
	E:	Failure, red
	P:	Power supply, red



Pin	Signal
1	Ch0
2	AGND
3	Ch1
4	AGND
5	reserved
6	reserved
7	reserved
8	reserved
9	reserved
10	reserved
11	Power 24VDC *)
12	Power 0V *)
13	Power 24VDC
14	Power 0V

All Power +24V= and Power 0V are internal connected

*) 9/2002 and later

Attributes

Dataformat:
Standard integer (16-Bit) format :
+32767= +20mA
0 = 0mA
-32768 = -20mA

Applications:
2 channels, analog current output
available prints :

- @P4210L: 2 channels, 16 bit analog output, ±20mA
- @P4210R: 2 channels, 16 bit analog output, ±20mA

analog

Related Applications:
4 channels, analog current output

- @P4410 : 4 channels, 16 bit analog output, ±20mA

output

2/4 channels, analog voltage output

- @P4200 : 2 channels, 16 bit voltage output ±10V
- @P4400 : 4 channels, 16 bit voltage output ±10V

Electrical Data

Power supply external	24V= ± 20%
Supply Current	35mA at 24V
Operating current @ctiveBus	15mA at 3,3V / 0mA at 5V
Input protection	30V overvoltage, surge
Differential input voltage	60V, maximum
Input resistance	50Ω
Input capacity	160nF
Maximum converting frequency	40 kHz
Resolution / Accuracy	16 bit / 13 bit
No. of converters	2, simultaneous converting, no multiplexers
Burden:	< 400Ω (short-circuit proof)

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System Information

System ID 0x0182
System adress space .....32 bit in, 32 bit out byte (2x2 Byte)

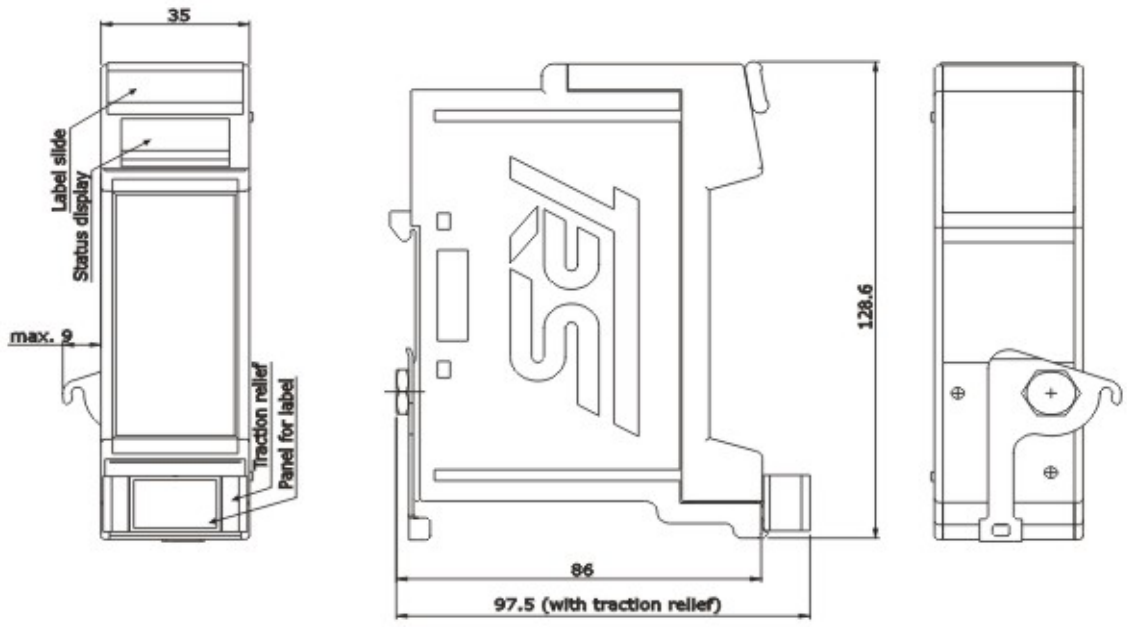
Environmental Conditions

Electromagnetic compatibility (EMC) .....EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating temperature [°C] .....0 .. +55
Storage temperature [°C] .....-20 .. +70
Humidity (rel) .....98 % (non condensing)
Protection class*.....IP 20 (DIN 40 050)
*The protection class is valid only with housing and connector installed

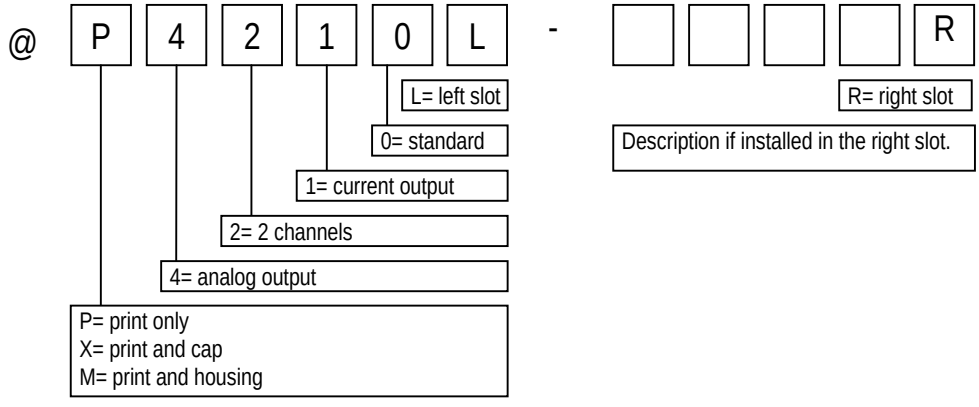
Mechanical Data PCB

Weight .....approx. 0.05 kg including connector
Dimension .....105mm x 80mm x 12mm

Drawing **(effective if mounted in @M housing)**



Ordering Key



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notes:

Revision change

Version	Description	Date (m/y)
00	serie 0	09/02
01	added: electrical data (operating current)	09/03
02	added: Burden (see electrical data)	03/05

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