

analog input 3200



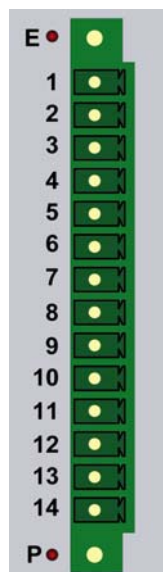
- 16 Bit analog input
- $\pm 10V$
- 2 Channels, simultaneous sampling
- Differential input
- Galvanically isolated

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Pinout

0	4	8	12
1	5	9	13
2	6	10	14
3	7	11	15

LED	
0; (8)	Ch0: positive input voltage
1; (9)	Ch1: positive input voltage
4; (12)	Ch0: negative input voltage
5; (13)	Ch1: negative input voltage
E:	failure: red
P:	power supply, red



Pin	Signal
1	CH0 +
2	CH0 -
3	AGND
4	CH1 +
5	CH1 -
6	AGND
7	reserved
8	reserved
9	reserved
10	reserved
11	reserved
12	reserved
13	Power 24 V DC
14	Power 0 V

Attributes

Data format:

Standard integer (16-Bit) format:

+32767 = +10 V

0 = 0 V

-32768 = -10 V

Applications:

16 bit analog input, voltage sensing

available prints :

- @P3200L: 2 channels, 16 bit analog input, $\pm 10 V$
- @P3200R: 2 channels, 16 bit analog input, $\pm 10 V$

Related Applications:

4 channels, voltage sensing:

- @P3400: 4 channels, 16 bit analog input, $\pm 10 V$

2/4 channels, current sensing:

- @P3210: 2 channels, 16 bit analog input, $\pm 20 mA$
- @P3410: 4 channels, 16 bit analog input, $\pm 20 mA$

Electrical Data

Power supply external	24 V DC $\pm 20\%$
Operating Current	35 mA at 24 V DC, typical
Operating current @ctiveBus	10 mA at 3.3 V DC/ 15mA at 5 V DC
Input protection	30 V overvoltages, surge
Differential input voltage	60 V, maximum
Input resistance	1M Ω
Measurement error	< $\pm 0.2\%$ (of upper range value)
Input capacity	160 nF
Maximum sampling frequency	80 kHz
Input frequency	10 kHz
Resolution / Accuracy	16 bit / 13 bit
No. of converters	2, simultaneous sampling, no multiplexers

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System Information

System ID 0x0188
 System address space 32 bit in, 32 bit out

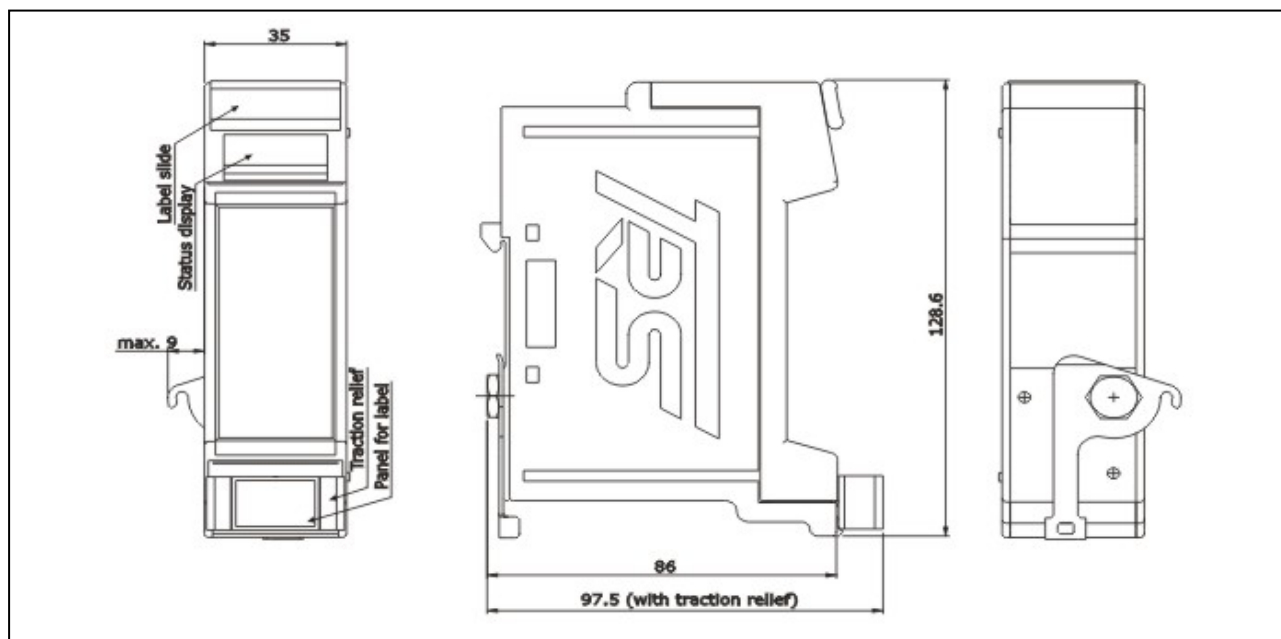
Environmental Conditions

Electromagnetic compatibility (EMC) EN 61000-4-2 (IEC-801-2)
 EN 61000-4-4 (IEC-801-4)
 Operating temperature [°C] 0...+50
 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 105 mm x 80 mm x 12mm

Drawing (effective if mounted in @M housing)



Ordering Key

@	P	3	2	0	0	L	-	3	2	0	0	R	
						L= left slot						R= right slot	
						0 = standard		Description if installed in the right slot.					
						0 = voltage input							
						2 = 2 channels							
						3 = analog input							
	P= print only X= print and cap M= print and housing												

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notes:

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