

analog input 3413

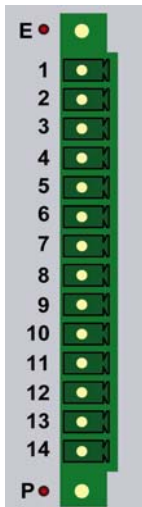


- 16 bit analog fast input (0,2ms)
- ± 20mA
- 4 channels, simultaneous sampling
- differential input
- galvanically isolated

I/O

Pinout

LED:	Pin	Signal
	0; (8)	Ch0: positive input current
	1; (9)	Ch1: positive input current
	2; (10)	Ch2: positive input current
	3; (11)	Ch3: positive input current
	4; (12)	Ch0: negative input current
	5; (13)	Ch1: negative input current
	6; (14)	Ch2: negative input current
	7; (15)	Ch3: negative input current
	E:	failure, red
	P:	power supply, red



Pin	Signal
1	Ch0+
2	Ch0-
3	AGND
4	Ch1+
5	Ch1-
6	AGND
7	Ch2+
8	Ch2-
9	AGND
10	Ch3+
11	Ch3-
12	AGND
13	Power +24V
14	Power 0V

Attributes

The @P3413 is a Modul with fast analog inputs.
The input values are conducted without a pre-processing directly to the system bus.

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

Applications:
16 bit analog input, current sensing
available prints :

- @P3413L: 4 channels, 16 bit analog input, ±20mA
- @P3413R: 4 channels, 16 bit analog input, ±20mA

Related Applications:
2 channels, current sensing:

- @P3210: 2 channels, 16 bit analog input, ±20mA

 4 channels, current sensing:

- @P3410: 4 channels, 16 bit analog input, ±20mA

2/4 channels, voltage sensing:

- @P3200: 2 channels, 16 bit analog input, ±10V
- @P3400: 4 channels, 16 bit analog input, ±10V

analog

input

Electrical Data

Power supply external.....	24V= ± 20%
Supply Current	55mA at 24V=, typical
Operating current @ctiveBus.....	15mA at 3,3V / 15mA at 5V
Input protection	30V overvoltage, surge
Differential input voltage	60V, maximum
Input resistance.....	50Ω
Input capacity.....	160nF
Maximum sampling frequency	80kHz
Input frequency	9kHz
Resolution / Accuracy	16 bit / 13 bit
No. of converters.....	4, simultaneous sampling, no multiplexers

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System Information

System ID	0x0211
System address space	64 bit in , 64 bit out (4x2 Byte)
Harware Release.....	L@P14060A

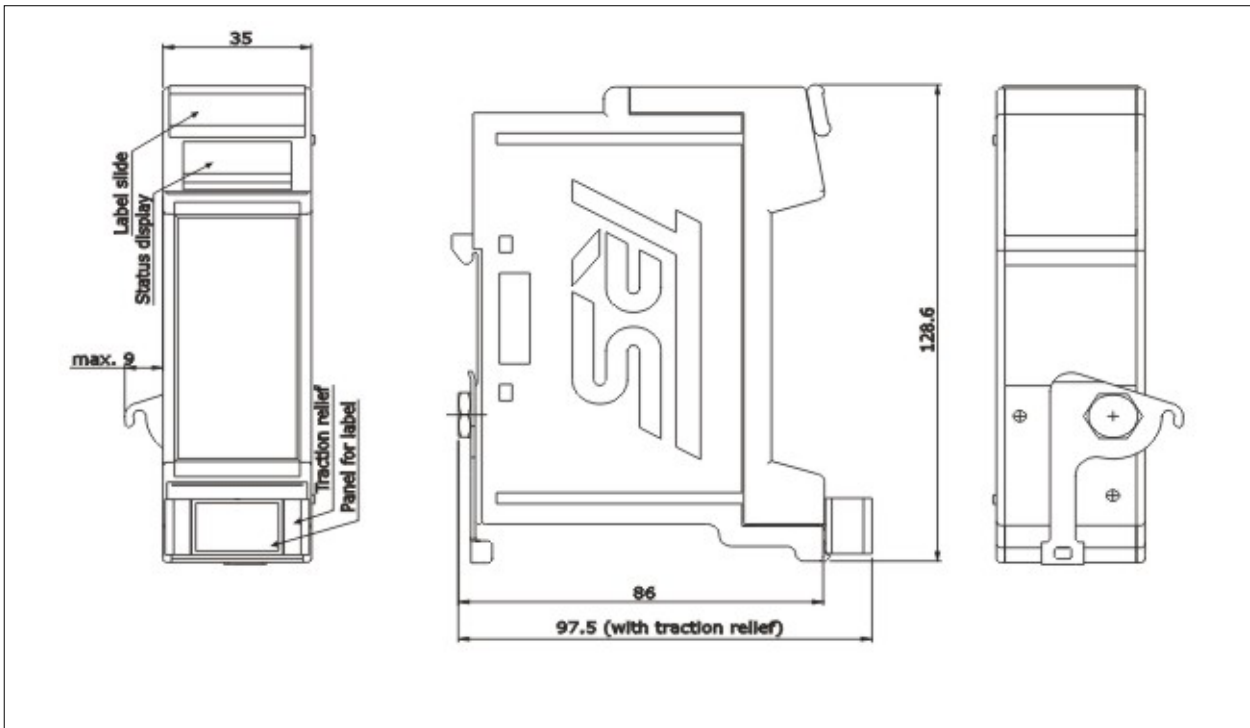
Environmental Conditions

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	

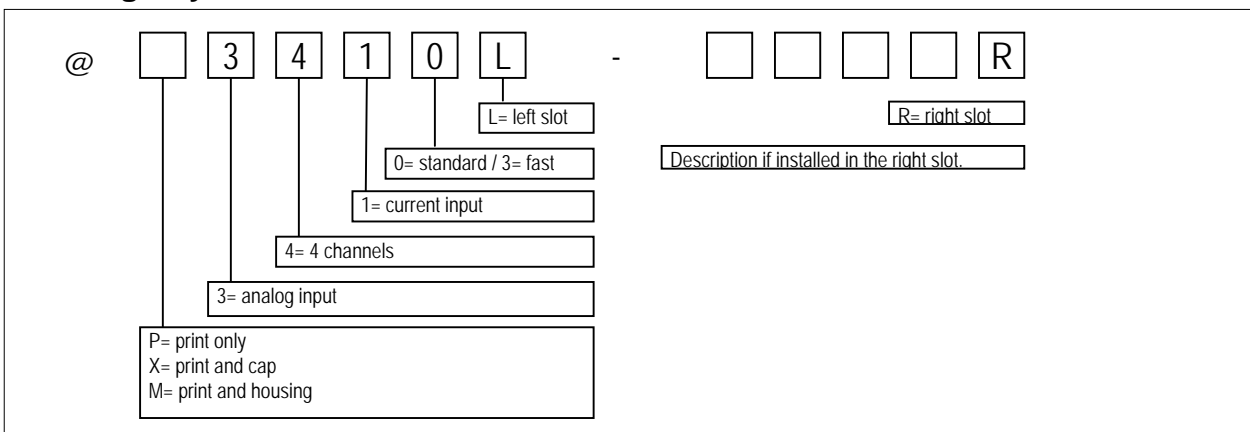
Mechanical Data PCB

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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