

analog input 3402

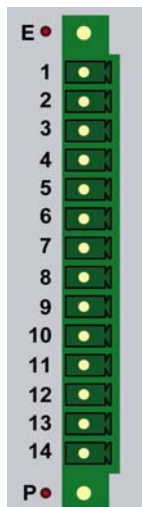


- 16 Bit analog input
- $\pm 10V$
- Input resistance 100k Ω
- 4 Channels, simultaneous sampling
- Differential input
- Galvanically isolated

I/O

Pinout

LED:	Pin	Signal
	0; (8)	Ch0: positive input voltage
	1; (9)	Ch1: positive input voltage
	2; (10)	Ch2: positive input voltage
	3; (11)	Ch3: positive input voltage
	4; (12)	Ch0: negative input voltage
	5; (13)	Ch1: negative input voltage
	6; (14)	Ch2: negative input voltage
	7; (15)	Ch3: 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	Ch2+
8	Ch2-
9	AGND
10	Ch3+
11	Ch3-
12	AGND
13	Power +24V=
14	Power 0V

Attributes

Dataformat:

Standard integer (16-Bit) format :
 +32767 = +10V
 0 = 0V
 -32768 = -10V

Applications:

16 bit analog input, voltage sensing
 available prints :

- @P3402L: 4 channels, 16 bit analog input, $\pm 10V$
- @P3402R: 4 channels, 16 bit analog input, $\pm 10V$

Related Applications:

4 channels, voltage sensing, 16 bit analog input

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

2 channels, voltage sensing:

- @P3200: 2 channels, 16 bit analog input, $\pm 10V$

2/4 channels, current sensing:

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

analog

input

Electrical Data

Power supply external.....	24V= $\pm 20\%$
Operating Current	40mA at 24V=, typical
Operating current @ctiveBus.....	
Input protection	30V overvoltage, surge
Differential input voltage	60V, maximum
Input resistance.....	100k Ω
Input capacity.....	160nF
Maximum sampling frequency	80kHz
Input frequency	
Resolution / Accuracy	16 bit / 13 bit
No. of converters.....	4, simultaneous sampling, no multiplexers

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System Information

System ID	0x020A
System address space	64 bit in, 64 bit out

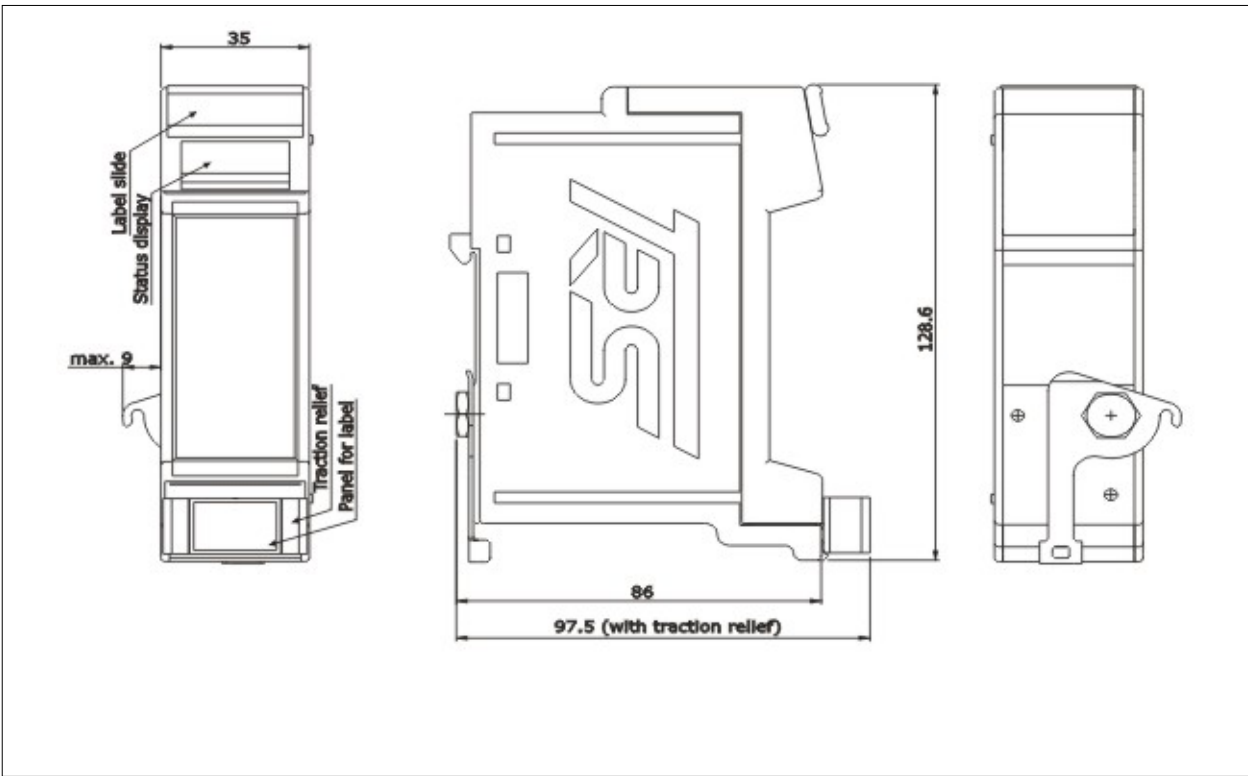
Environmental Conditions

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating temperature [°C]	0 .. +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

@	<input type="text"/>	3	4	0	2	L	-	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	R
					L= left slot							R= right slot
					2=100kΩ		Description if installed in the right slot.					
					0= voltage input							
					4= 4 channels							
					3= analog input							
					P= print only							
					X= print and cap							
					M= print and housing							

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notes:

Revision change

Version	Description	Date (m/y)
00	serie 0	09/02

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