

virtual encoder 5190



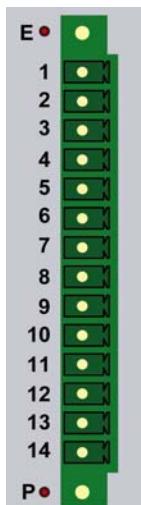
- virtual encoder
- data input / output voltage 5V RS485
- 1 interface
- differential input / output

I/O

Pinout

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

LED:	0	A	activity
	1	B	activity
	4	Zero	activity
	5	I 0	
	6	I 1	
E:			failure, red
P:			power supply, red



Pin	Signal	
1	A	5VDC diff.
2	/A	5VDC diff.
3	B	5VDC diff.
4	/B	5VDC diff.
5	zero	5VDC diff.
6	/zero	5VDC diff.
7	I 0	input
8	/I 0	input
9	I 1	input
10	/I 1	input
11	Power	VCC
12	Power	0V
13	Power	VCC
14	Power	0V

All Power VCC and Power 0V are internal connected

Attributes

Dataformat:

Applications:

This print contains a programmable virtual 16 bit incremental counter. Two different operating modes are possible:

- Master: The virtual encoder distributes position-signals.
- Slave: The virtual encoder is reading in position-signals.

available prints :

- @P5190L: virtual encoder, 5VDC input/output

Related Applications:

The virtual encoder works only together with the virtual encoder repeater.

- @P5191R:virtual encoder repeater, 5V output

digital

output

Electrical Data

Power supply external.....	GND required, see notes, VCC max. 24V= ±20%, optional
Supply current.....	5mA at 24 V
Operating current @ activeBus.....	45mA at 3,3V / 20mA at 5V
Input protection	30V overvoltage, 5V overvoltage
Counter	16 bit
Limiting frequency.....	0,65kHz-333,3kHz

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System Information

System ID 0X0281
 System address space 48 bit in, 48 bit out

Environmental Conditions

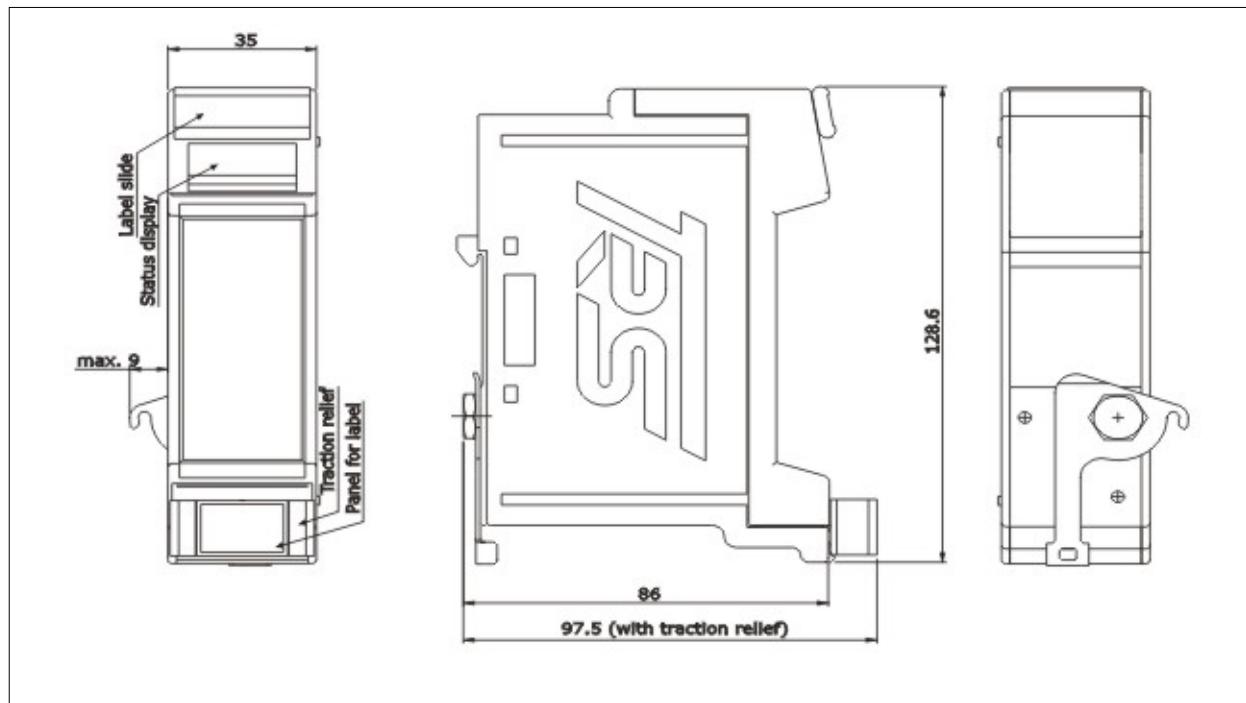
Electromagnetic compatibility (EMC) EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
 operating temperature [°C] 0..+55
 storage temperature [°C] -20 .. +70
 humidity (rel) 98 % (non condensing)
 protection class* IP 20 (DIN 40 050)

*The protection class is valid only with housing and connector installed

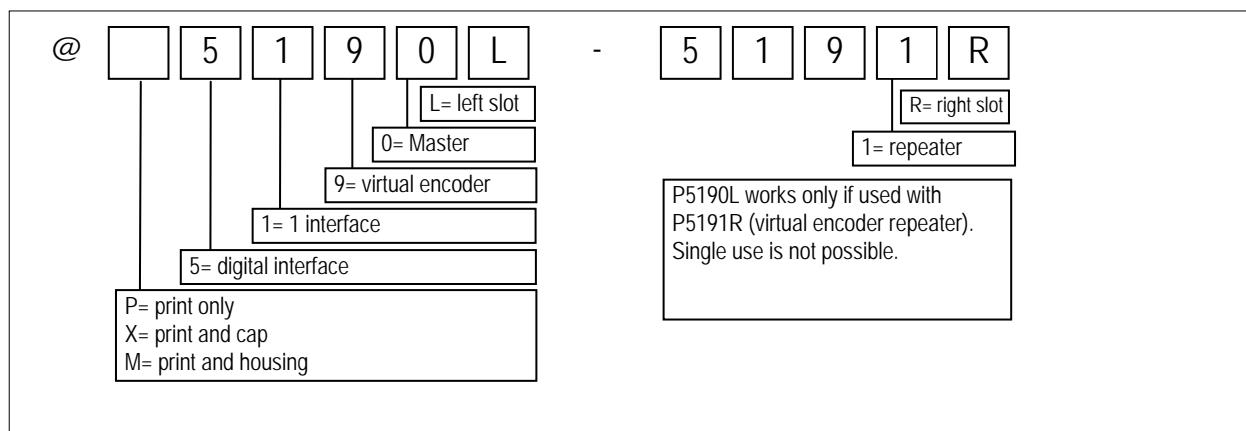
Mechanical Data (effective if mounted in @M housing)

Weight approx. 0.05 kg including connector (PCB only)
 Dimension 105mm x 80mm x 12mm (PCB only)

Drawing (effective if mounted in @M housing)

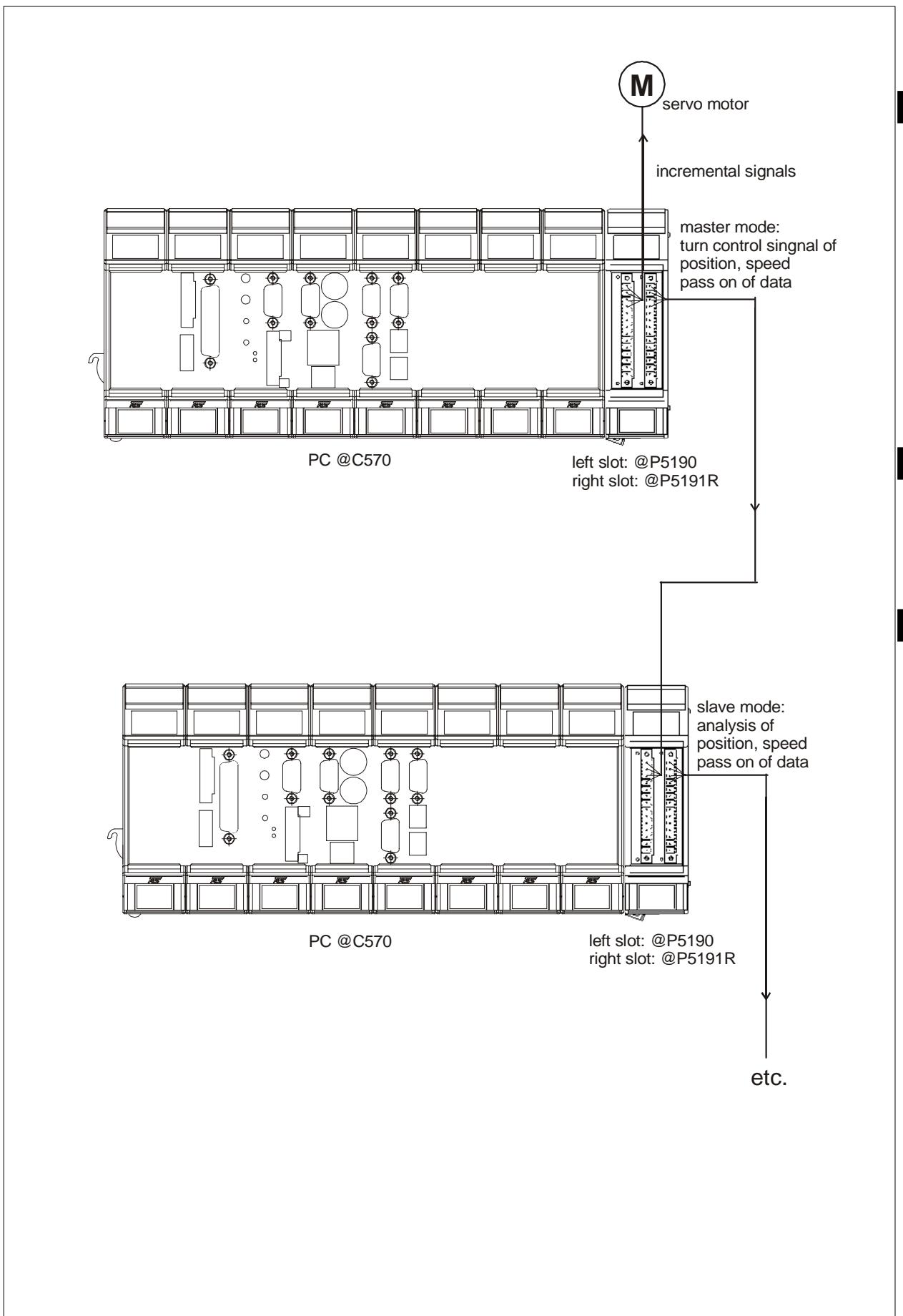


Ordering Key



Example of Application

virtual encoder 5190



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notes:

Caution:

Power 0V has to be directly connected with power 0V of the interface partner and power 0V of the controller-module.

Revision change

Revision	Description	Date (m/y)
00	created	07/02
01	Added: electrical data	09/03