

incremental interface 5180

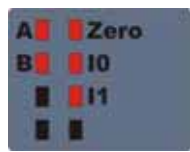


- Incremental interface
- Zero pulse latch
- Data input voltage 5V (RS485)
- Differential input

I/O

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Pinout



LED:	0; (8)	A
	1; (9)	B
	4; (12)	Zero
	5; (13)	not used
	6; (14)	not used
	E:	failure, red
	P:	power supply, red



Pin	Signal	
1	A	Data input (RS485)
2	/A	Data input (RS485)
3	B	Data input (RS485)
4	/B	Data input (RS485)
5	zero	Data input (RS485)
6	/zero	Data input (RS485)
7	-	-
8	-	-
9	-	-
10	-	-
11	Power	VCC *)
12	Power	0V
13	Power	VCC *)
14	Power	0V

All Power VCC and Power 0V are internal connected

*) see notes

Attributes

Dataformat:
3 Byte Counter
3 Byte Latch

Operating modes:
This print contains 1 counter and 1 latch.
With each zero pulse the counter value will be stored.

- 24-bit incremental counter with quadruple evaluation of incremental impulses

Available prints:

- @P5180L: incremental interface, 5V data input
- @P5180R: incremental interface, 5V data input

Related Applications:

- 5V data input voltage
- @P5110: incremental interface, 5V data input
24V data input voltage
- @P5111: incremental interface, 24V data input

*) see notes

digital

interface

Electrical Data

Power supply external..... GND required, VCC 4 - 28VDC, depends from encoder supply *)
 Operating current 5mA at 24V
 Operating current @ctiveBus 25mA at 3,3V / 25mA at 5V
 Input protection 30V overvoltage; 5V overvoltage
 Counter 24 bit
 Limiting frequency 1 MHz
 Data input..... 5V difference signal (RS485)

*) see notes

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System Information

System ID	0x0285
System address space	48 bit in, 48 bit out

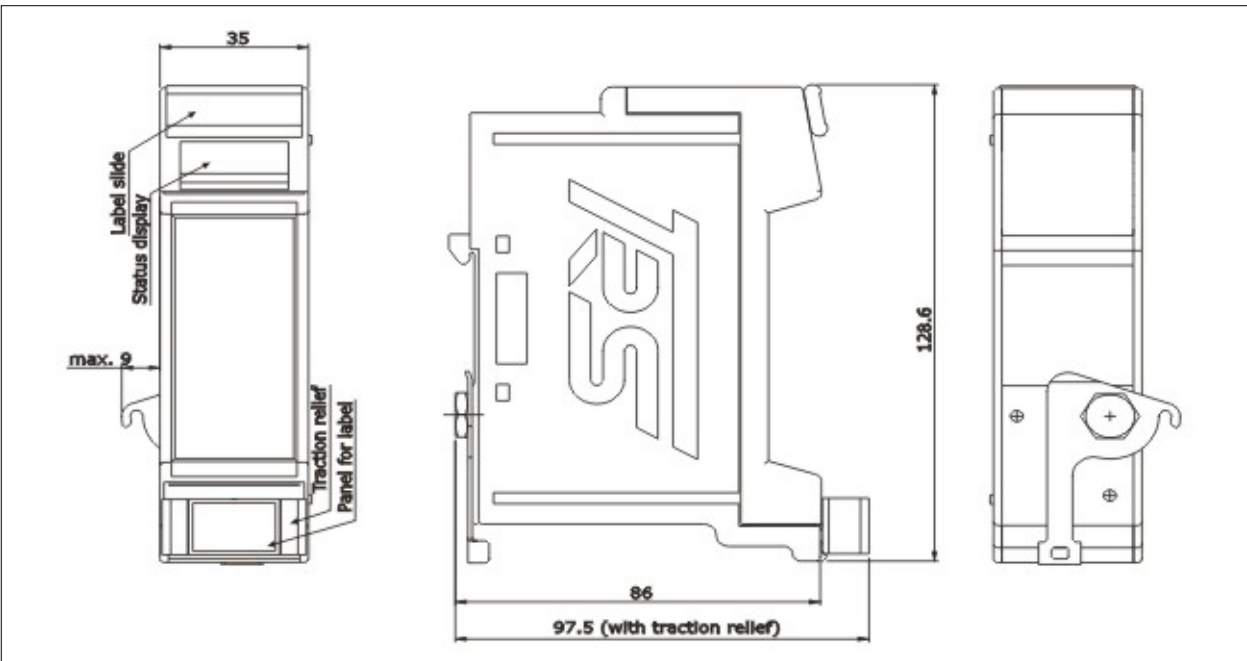
Environmental Conditions

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	

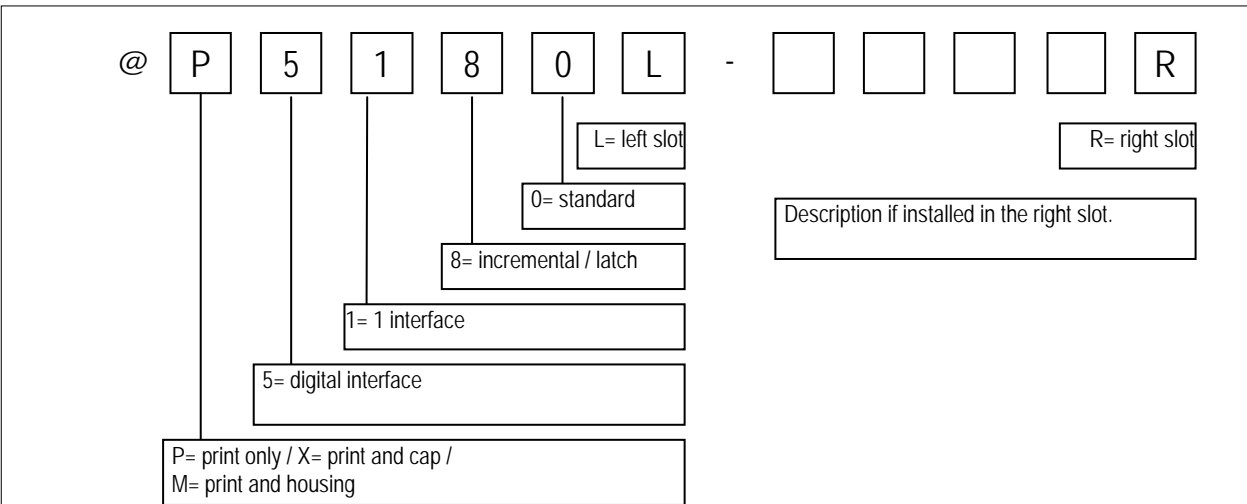
Mechanical Data PCB

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

Drawing (effective if mounted in @M housing)



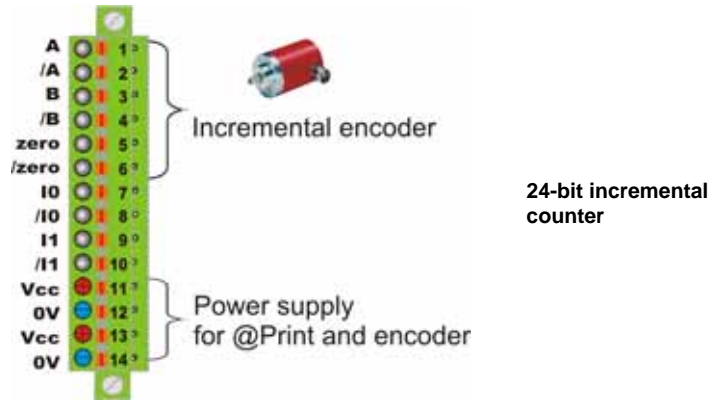
Ordering Key



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notes:

Connection at operating mode:



Power Supply for the @Print

The power supply can be chosen freely. Selection between 4 - 28V. This can be dependent from the supply for the encoder/sensor.
 Caution! Never connect different voltage potential!

System bus data:

Bit	Name	Description
0-23	24bit Counter	24 Bit incremental counter
24-47	24bit Latch	24Bit latch with zero pulse storage

Reset 24Bit incremenatal counter:

The counter will be reseted by system start.

Caution:

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

Revision change:

Version	Description	Date (m/y)
00	created	05/06
01	Changes in Technical data and in document design	11/08

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