

# Controller @C101-PB

CPU



- Profibus-DP
- Automatic Baudrate Detection (up to 12MBaud)
- RS232 for programming and diagnostic
- High grade CPU for applications

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## Pinout

<b>LED:</b>	RUN	see notes
	DIAG	
	ERR	
	FDX	
	FTX	
	SDX	



<b>Address:</b>	
X10	decimal place of the add.
X1	unit place of the add.
<b>Profibus-DP:</b>	
Pin 3	PB_B
Pin 4	PB_RTS
Pin 5	PB_GND
Pin 6	+5V=
Pin 8	PB_A
<b>Serial:</b>	
Pin 1	TxD RS232
Pin 2	RxD RS232
Pin 3	Reserved
Pin 4	Reserved
Pin 5	0V
Pin 6	nc.
Pin 7	RS485+
Pin 8	RS485-
<b>Power:</b>	
Pin 1	+24V=
Pin 2	0V

## Attributes

### Fieldbus Interface:

The @C101-PB connects the Profibus system to the IO-Moduls.

The @C101-PB contains a C165 µController

### Address:

The bus-address can be adjusted with two HEX-rotary-switches. X1 is the unit place, X10 the decimal place.

### CPU specifications:

Flash memory : ..... 1 MByte (16 Bit)  
 SRAM : ..... 1 MByte (16 Bit)  
 NVRAM : ..... 32 kByte (8 Bit)  
 CPU clock : ..... 44 MHz

### Profibus specifications:

Profibus controller : ..... SPC3

### System specifications:

Hardware supervisor system :

- temperature control
- power control
- hardware watchdog
- power fail system
- supports UPS

## Electrical Data

Power supply external ..... +24V= ± 20% , see notes  
 Operating Current ..... < 120mA at 24 V  
 Input protection ..... 30V overvoltage, surge

## Controller @C101-PB

### System Information

System ID .....	0x1102
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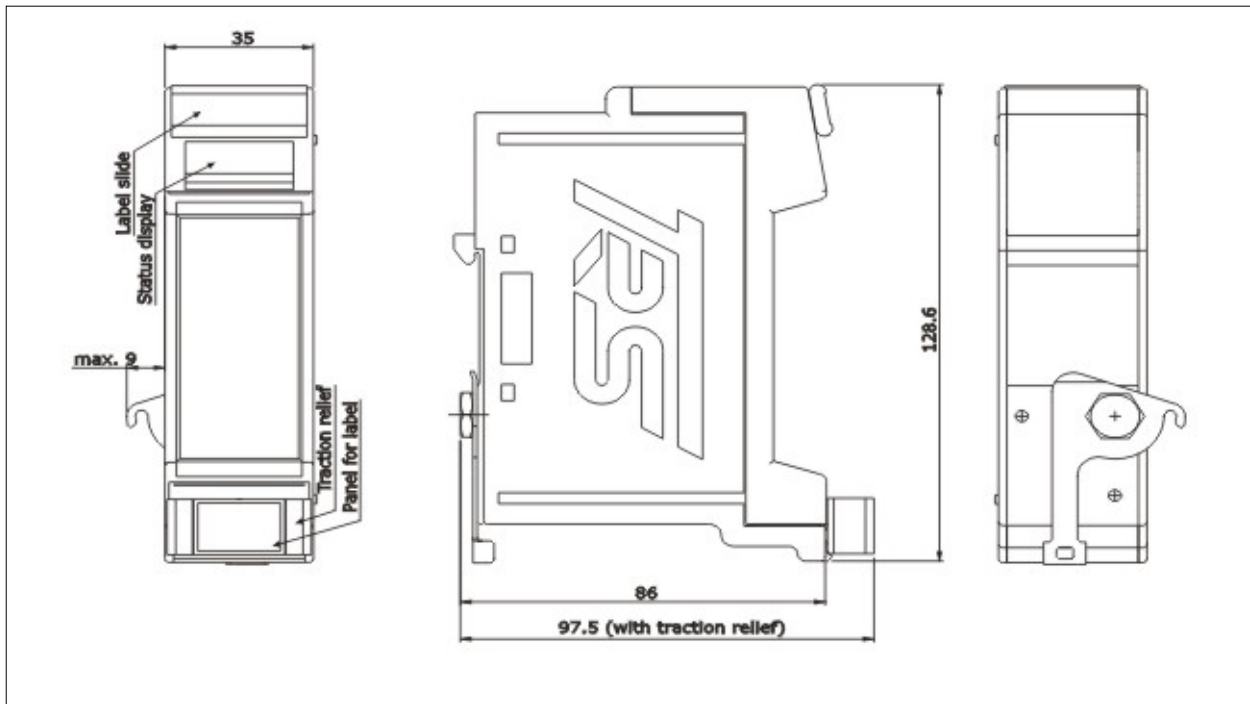
### Environmental Conditions

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	

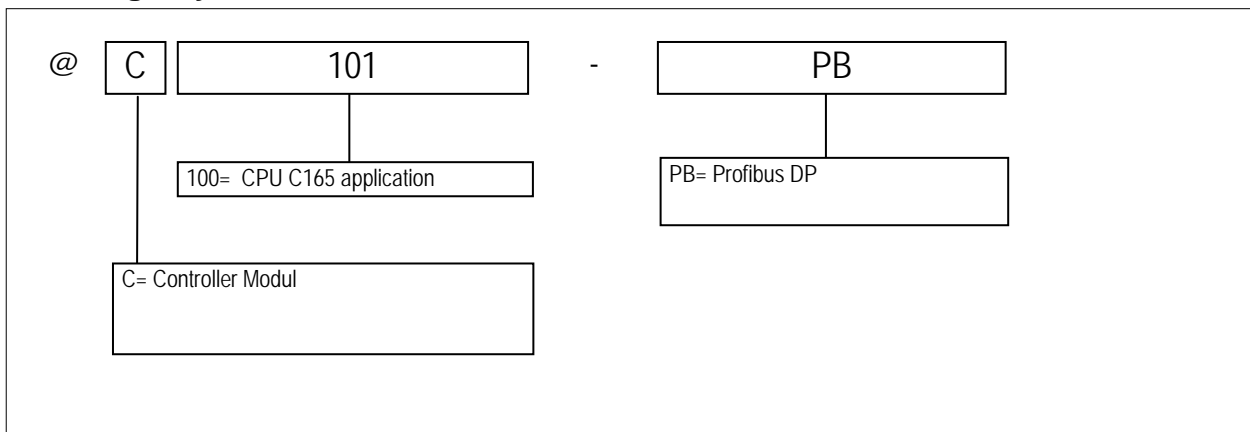
### Mechanical Data (effective if mounted in @M housing)

Weight .....	approx. 0.28 kg including connector
Dimension .....	105 x 80 mm

### Drawing (effective if mounted in @M housing)



### Ordering Key



notes:

Description of the LEDs

LED	Status	Description
RUN	ON	CPU has finished initialising
DIAG	ON	Diagnostic- or error-information can be read
ERR	Flashing	error-information can be read
	ON	no profibus connection
FDX	ON	Receiving Profibusdata
FTX	ON	Sending Profibusdata
SDX	ON	Data on @Bus

Caution:

If using interface moduls of type @5xxx power 0V of the controller has to be directly connected with power 0V of the @5xxx-modul and power 0V of the interface partner of the @5xxx-modul.

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