

# Controller @C100-CO


CPU



- CANopen
- Baudrate 20kBaude to 1000kBaude
- RS232 for programming and diagnostic

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## Pinout



LED:	RUN	see notes
	NET	
	MOD	
	FDX	
	FTX	
	SDX	

Node ID / Baudrate:	
S1	see notes
S2	

CANopen X1:	
Pin 2	CAN_L
Pin 3	CAN_GND
Pin 5	CAN_SHLD
Pin 7	CAN_H

Serial:	
Pin 1	TxD RS232
Pin 2	RxD RS232
Pin 3	reserved
Pin 4	reserved
Pin 5	0V
Pin 6	nc.
Pin 7	reserved for RS485+
Pin 8	reserved for RS485-

Power:	
Pin 1	24VDC
Pin 2	0V

## Attributes

**Fieldbus Interface:**

The @C100-CO connects the CANopen bus system to the IO-Moduls.  
The @C100-CO contains a C165 µController

**Address:**

The CAN bus-address can be adjusted with two Decimal-rotary-switches.

**CPU specifications:**

Flash memory : ..... 1 MByte (16 Bit)  
SRAM : .....512 kByte (16 Bit)  
CPU clock : .....44 MHz

**CAN specifications:**

CAN controller : .....SJA1000

**System specifications:**

Hardware supervisor system :

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

## Electrical Data

Power supply external.....	24VDC ± 20%, see notes
Operating Current .....	< 120mA at 24VDC
Input protection .....	30V overvoltage, surge
Serial Interface.....	RS232

## Controller @C100-CO

### System Information

System ID .....0x1121  
 System address space .....

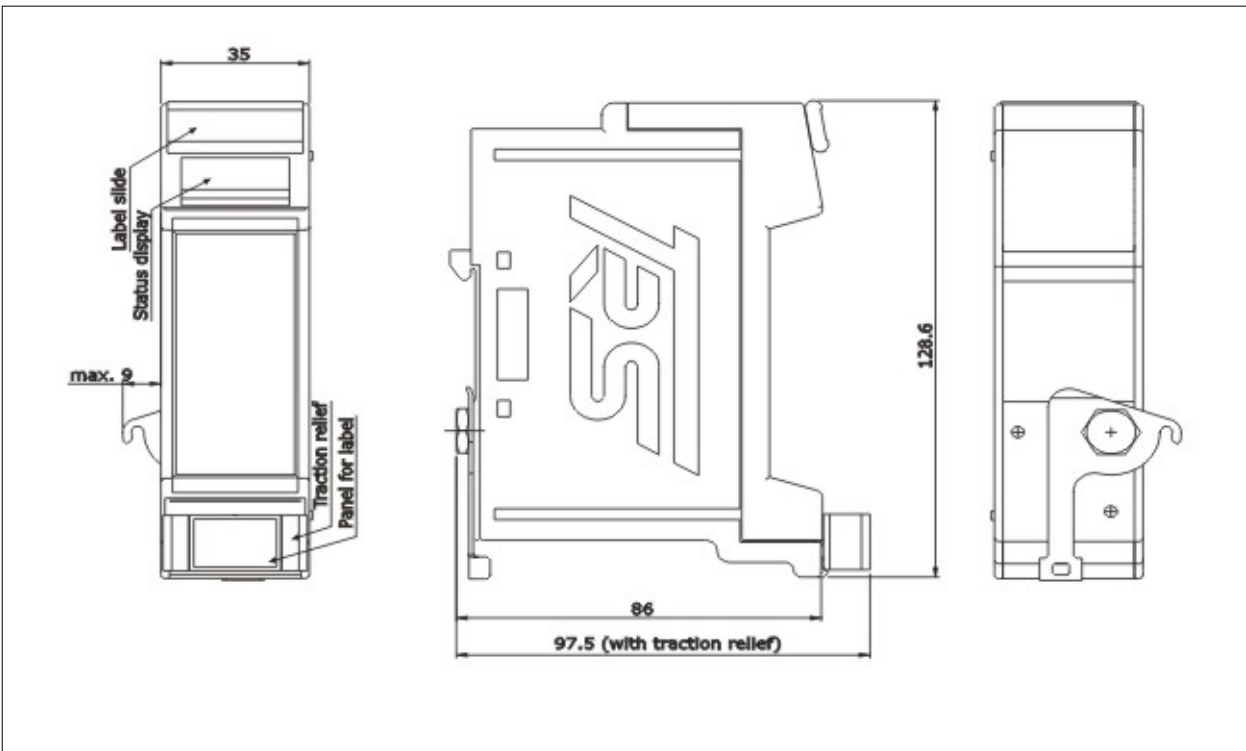
### Environmental Conditions

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

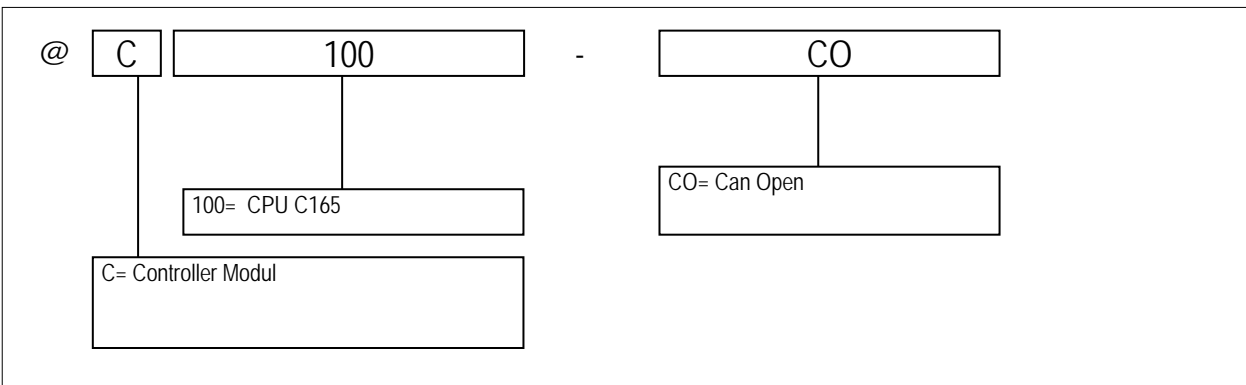
### Mechanical Data

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

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



### Ordering Key



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**notes:**

**Description of the LEDs**

LED	Status	Description
RUN	ON	CPU has finished initialising
NET		
MOD		
FDX	ON	Transmitting CAN-Data
FTX	not used	
SDX	ON	Data on @Bus

**Switches S2 and S1**

S2	S1	Node ID	Baudrate
0	1..9	1..9	20 kBaud
1	0..9	10..19	20 kBaud
2	1..9	1..9	125 kBaud
3	0..9	10..19	125 kBaud
4	1..9	1..9	500 kBaud
5	0..9	10..19	500 kBaud
6	1..9	1..0	1000 kBaud
7	0..9	10..19	1000 kBaud

**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.

**Revision change**

Version	Description	Date (m/y)
00	created	07/02

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