

Controller @C100-FO

CPU



- **Fiberoptic Fieldbus**
- **2.5 MBaud**
- **RS232 for programming and diagnostic**

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Pinout

LED		
RUN		see notes
DIAG		
ERR		
CYC		
PAE		
WD		
SDX		
\bar{S}/L	on: long cable off: short cable	



Address:	
Hi	reserved
Lo	reserved
Rx	fiberoptic input
Tx	fiberoptic output
\bar{S}/L	select cable length
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	+24V=
Pin 2	0V

Attributes

Fieldbus Interface

The @C100-FO connects the fiberoptic lightbus system to the IO-Moduls.

The @C100-FO contains a C165 μ Controller

Address

The bus-address is assigned by the software of the lightbus-master to the modul. An adjustment with Hex-switch or DIP-switch is not necessary.

CPU specifications:

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

FO specifications:

FO controller : IIO-lightbus system

System specifications:

Hardware supervisor system :

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

Electrical Data

Power supply external	+24V= \pm 20%
Operating Current	115mA at 24 V
Input protection	30V overvoltage, surge
Serial Interface	RS232

Controller @C100-FO

System Information

System ID	0x1111
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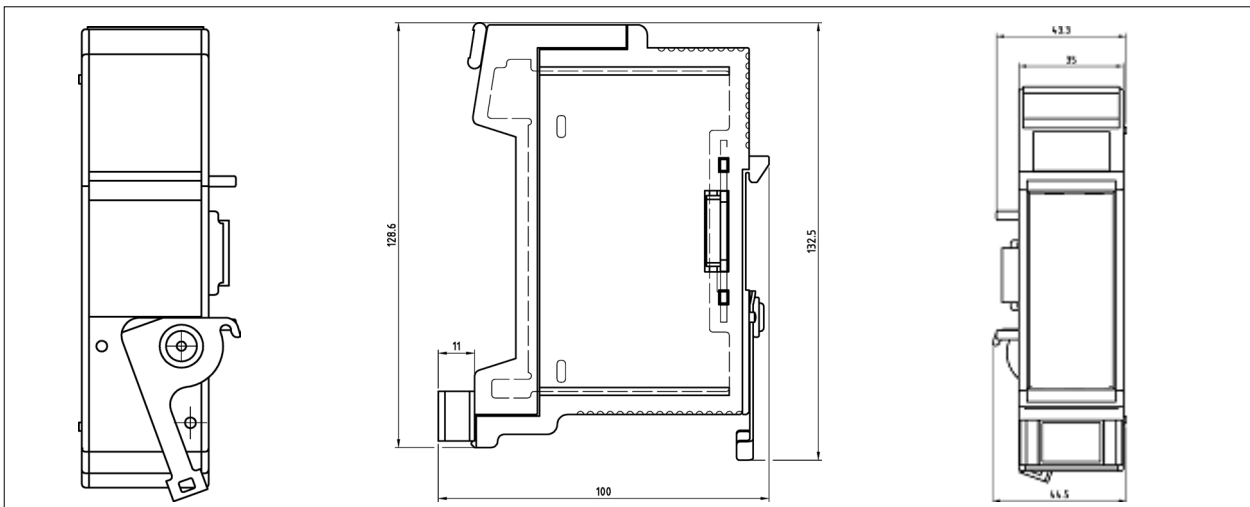
Environmental Conditions

EMC	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operation 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	

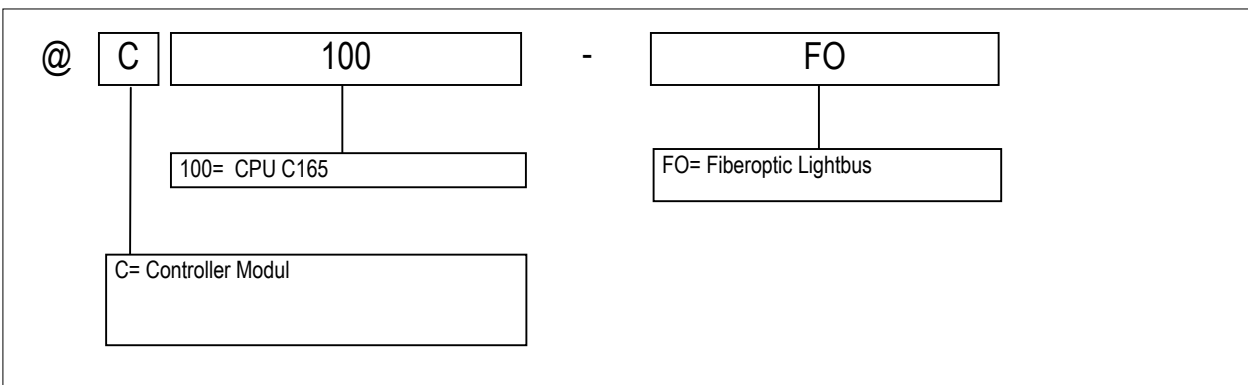
Mechanical Data (effective if mounted in @M housing)

Weight.....	approx. 0.28 kg including connector (PCB only)
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
DIAG		
ERR		
CYC	ON	Fiberoptic data
PAE	ON	Fiberoptic error
WD	ON	Write telegramm for modul
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.

Revision change

version	description	date m/y
00	serie 0	09/02