

Controller @C101-FO

CPU

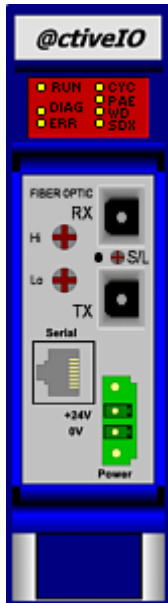


- **Fiberoptic Fieldbus**
- **2.5 MBaud**
- **RS232 for programming and diagnostic**
- **High grade CPU for applications**

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Pinout

LED	RUN	see notes
	DIAG	
	ERR	
	CYC	
	PAE	
	WD	
	SDX	
	\bar{S}/L	



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	RS485+
Pin 8	RS485-
Power:	
Pin 1	+24V=
Pin 2	0V

Attributes

Fieldbus Interface

The @C101-FO connects the fiberoptic lightbus system to the IO-Moduls.

The @C101-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 : 1 MByte (16 Bit)
 NVRAM : 32 kByte (8 Bit)
 CPU clock : 44 MHz

FO specifications:

FO controller : IIO-lightbus controller

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, RS485

Controller @C101-FO

System Information

System ID 0x1112

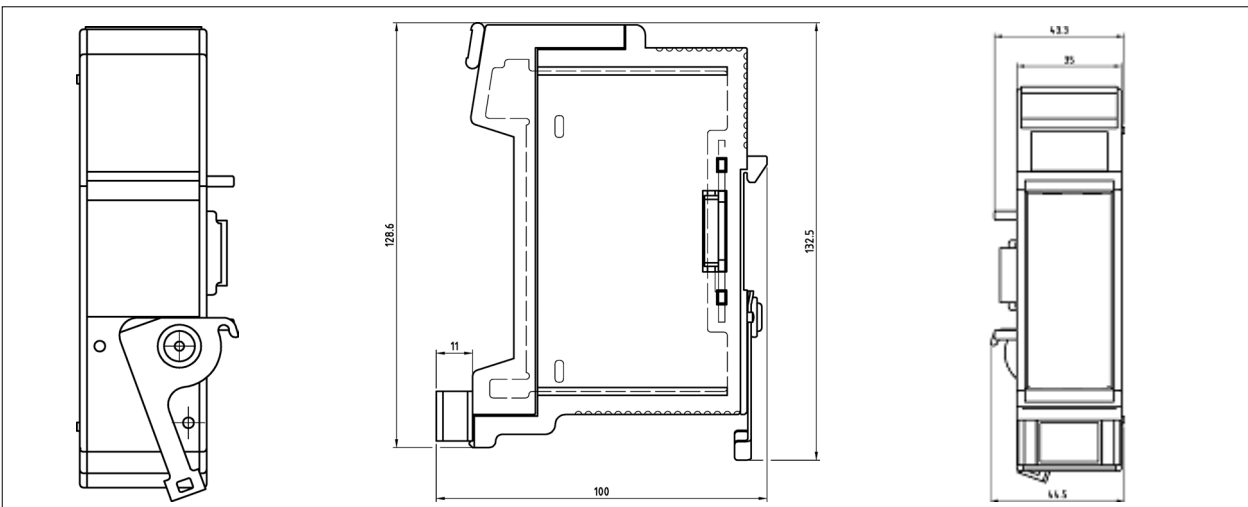
Environmental Conditions

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

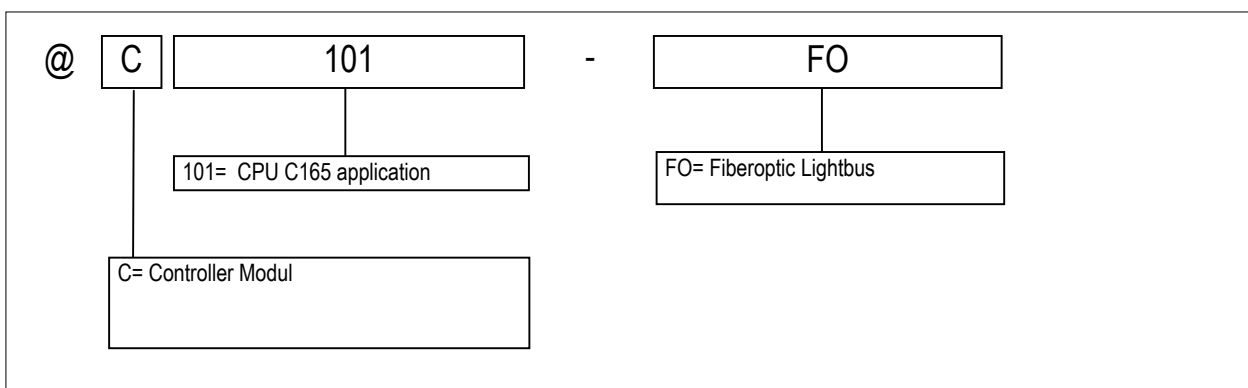
Mechanical Data (effective if mounted in @M housing)

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

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