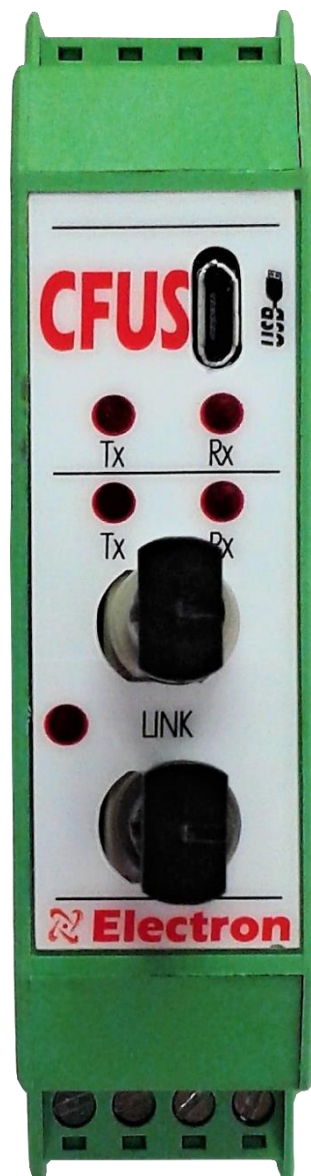


CATALOG

**MULTIMODE CONVERTER OF FIBER OPTICAL FOR
USB CONVERTER**



SUMMARY

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INTRODUCTION

The Converters were designed for the interface between PC and the RS485 Fiber Optic serial communication bus. The interface with the PC is through a USB port.

When connecting the converter to the PC USB it is automatically detected and installed as a native COM port.

The Converters were built in compliance with strict quality standards and use latest generation electronic components (SMD), their hardware was designed to withstand severe working conditions, and can be installed directly in power substation panels. Meets the requirements, supportability, and reliability levels according to IEC, DIN, IEEE, ABNT standards.

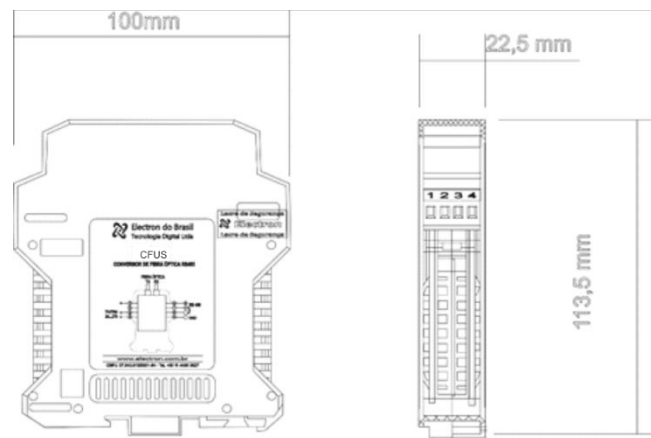
MAIN FEATURES

- Compact housing with 22.5x100x113.5 mm in ABS for 35 mm DIN rail;
 - Power from USB port < 200 mA;
 - Communication speed from 1200 to 115200 bps;
 - Maximum fiber length of 3000 m (multimode optical fiber, 62.5/125 μm);
 - Fiber connector in ST pattern;
 - Minimum transmission power -14.0 dBm (multimode optical fiber, 62.5/125 μm);
 - Maximum transmission power -10.0 dBm (multimode optical fiber, 62.5/125 μm);
 - Minimum reception sensitivity -24 dBm (multimode optical fiber, 62.5/125 μm);
 - Compatible with 50/125 μm , 62.5/125 μm , 100/140 μm and 200 μm multimode optical fiber;
 - Wavelength 850 μm ;
 - Indication with LED's of power on, transmission and reception of data and link;
 - Half Duplex transmission mode;
 - Interface with USB 2.0 Plug and Play computer;
 - USB connection with Micro-B connector;
 - Resistant to lightning strikes and damage caused by electrostatic discharge;
- Resistant to EMI / RFI and current surges, ideal for data communications near heavy electrical equipment transformers and other electrical or radio interference;
- Easy installation and use.
 - 2 years warranty;
 - Universal power supply 24 to 275 Vdc / Vac (optional);
 - Output for auxiliary supply of 2W, 5Vdc or 23Vdc or 27Vdc (optional);

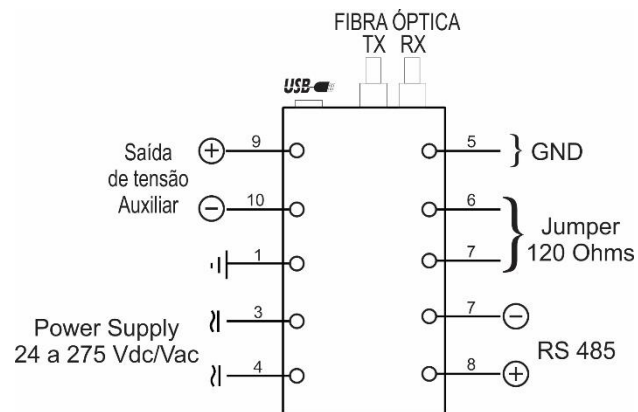
OPTIONAL CHARACTERISTICS

- 4kV / 60Hz / 1 minute isolation between USB and power supply;
- 4kV / 60Hz / 1 minute isolation between auxiliary power and USB;
- 1.5kV / 60Hz / 1 minute isolation between auxiliary power and busbar;
- 3.5kV / 60Hz / 1 minute isolation between auxiliary power and power supply;
- 2kV / 60Hz / 1 minute isolation between bus and power supply;
- 2.5kV / 60Hz / 1 minute isolation between USB and bus;
- Maximum length of cables 1200 m;
- Internal 120 Ohm terminating resistor, jumper enabled;
- Maximum number of devices on the network of 32;
- RS485 bus protection: $\pm 30\text{kV}$ ESD. Very robust three-stage protection;

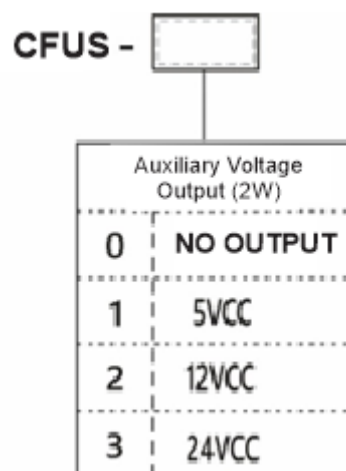
DIMENSIONS



CONNECTION DIAGRAMS



CATALOG MULTIMODE CONVERTER OF OPTICAL FIBER TO USB



PS: If the CFUS has auxiliary voltage output, it will be mandatory to use an internal source.