



MULTIMODE FIBER OPTIC TO USB CONVERTER

CATALOGUE

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INTRODUCTION

CFUS is a converter designed to enable communication between USB devices and fiber optic networks. It enables data transmission with high speed and security, eliminating electromagnetic interference and ensuring greater range compared to conventional cables.

Ideal for industrial applications, laboratories, data centers, and any environment where signal integrity and connection stability are critical, CFUS allows computers, controllers, and other USB devices to be connected to fiber optic systems, providing reliability and efficiency in communication. It supports all communication protocols based on the RS485 standard (ANSI/TIA/EIA-485-A two-wire), and also optical fiber, which makes the network totally immune to electrical noise, electromagnetic inductions, lightning strikes, and voltage surges, increasing the reliability of data traffic, communication speed and distances between IEDs / data server or supervisory system (Scada).

The CFUS was built in compliance with strict quality standards and uses state-of-the-art electronic components (SMD), its hardware was designed to withstand severe working conditions, and can be installed directly in power substation panels. Meets the levels of demands, supportability and reliability according to IEC, DIN, IEEE, ABNT standards.

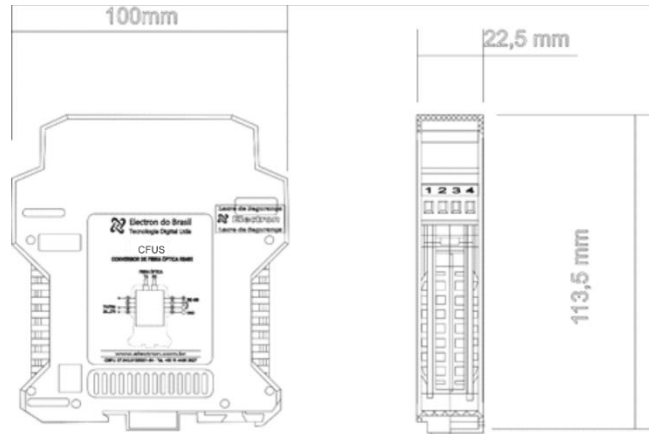
KEY FEATURES

- Compact housing with 22.5x100x113.5 mm in ABS for DIN rail 35 mm;
- Powered directly through the 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 standard;
- Minimum transmit power -14.0 dBm (multimode optical fiber, 62.5/125 μm);
- Maximum transmit power -10.0 dBm (multimode optical fiber, 62.5/125 μm);
- Minimum receive sensitivity -24 dBm (multimode optical fiber, 62.5/125 μm);
- Supports 50/125 μm , 62.5/125 μm , 100/140 μm , and 200 μm multimode optical fiber;
- Wavelength 850 nm;
- Indication with LEDs for transmission and reception of data and link;
- Transmission Mode: Half Duplex;
- 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 in environments with transformers, heavy electrical equipment, and other sources of electrical or radio interference;
- Easy installation and use.
- 2 years warranty;
- Universal power supply 24 to 275 Vdc/Vac (optional);

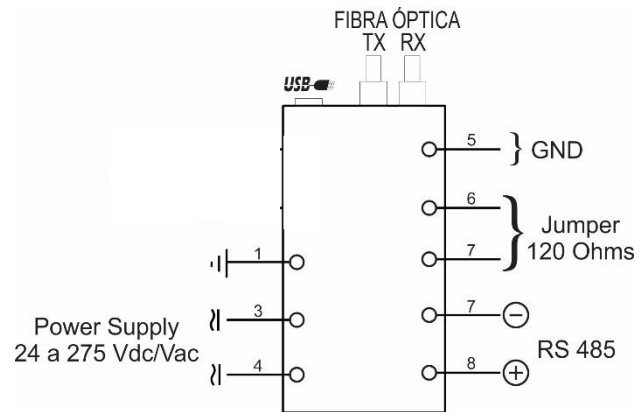
FEATURES OF THE OPTIONS

- 4kV / 60Hz / 1 minute isolation between USB and power;
- 2kV / 60Hz / 1 minute isolation between busbar and power;
- 2.5kV / 60Hz / 1 minute isolation between USB and bus;
- Maximum cable length 1200 m;
- Internal 120 Ω termination resistor, jumper-enabled;
- Maximum number of devices on the network: 32;
- RS485 bus protection: ±30 kV ESD. Robust three-stage protection.

DIMENSIONS



CONNECTION DIAGRAMS



SPECIFICATION FOR ORDER

