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SIEMENS

Installation Instructions
Document No. 538-586
Rev. 3, December, 2001

Fiber Optic Trunk Interface

Product Description

The Fiber Optic Trunk Interface (refer to Figure 1) converts the building level network (BLN) and floor level network (FLN) trunk electrical signals (RS-485) into light energy for transmission over a fiber optic cable and converts the light energy from a fiber cable back to RS-485 signals. The device is designed to work with either the BLN or FLN trunk at speeds of 300 bps to 230K bps, with a link budget of 11.5 dB.

There are no internal settings or user-serviceable parts in the Fiber Optic Trunk Interface. The interface requires a duplex fiber cable between interfaces (one fiber for transmit and one for receive). ST style port connectors are included.

The Fiber Optic Trunk Interface is housed in a 1.5" × 4" × 4" metal enclosure. It contains one power input receptacle, one three-position trunk port, one fiber transmit port, and one fiber receive port (refer to Figure 2). The interface is powered by a 6 Vdc external power pack (included). All circuits are supervised and power limited.

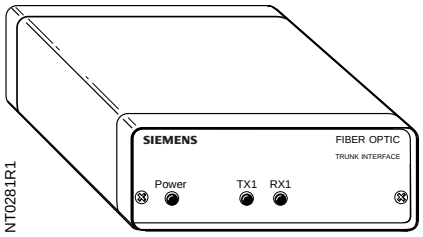


Figure 1. Fiber Optic Trunk Interface (Front View).

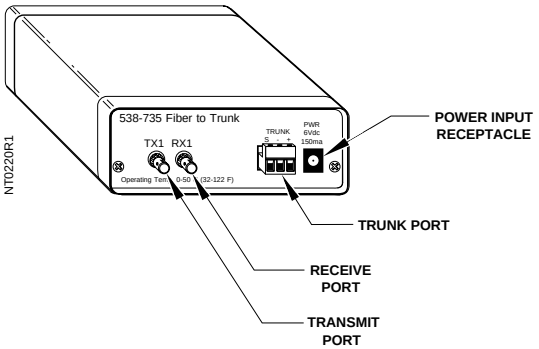


Figure 2. Fiber Optic Trunk Interface (Rear View).

Product Numbers

Description	Product Number
Fiber Optic Trunk Interface with ST port connectors	538-735(115 Vac) 538-735E (230 Vac)
115 Vac 60Hz (14W) input 6 Vdc 600mA output power pack for use with P/N 538-735 (included)	538-757
230 Vac 50 Hz (14W) input 6 Vdc 1000 mA output power pack for use with P/N 538-745E (included)	538-747
CAUTION: Use only the plug-in transformer shipped with this device.	
120 Vac transient protected duplex outlet for 538-735 (not included)	529-804
Three 250V Metal Oxide Varistors (MOVs) included with P/N 538-735E	527-969
Optional wall mounting kit (4")	538-708K
Optional rack mounting kit (4")	538-716K

Required Tools

- Slotted screwdriver
- 19-inch rack position available if using the rack mounting kit
- Wire cutters or wire strippers
- 7/16-inch (11.1mm) nutdriver

Expected Installation Time

15 minutes

Prerequisites

CAUTION:

Avoid mounting the interface in a position that forces the fiber to make turns tighter than a three-inch radius. The mounting surface must also be vibration free.

- Fiber cable installed and terminated with proper connector.

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- Individual fibers identified as Transmit and Receive.
- A report from the fiber installer showing the loss of optic power per section of fiber cable, including all connectors. The loss must be less than the required link budget.
- Source of transient protected for 115 Vac or 230 Vac. All field panel outlets are protected or an MOV protected 120 Vac duplex outlet (P/N 529-804), or three 250 V operation (refer to Figure 7) can be ordered.
- The BLN or FLN trunk has been checked for opens, shorts, and proper shielding.
- The mounting bracket (if used), or other locally fabricated bracket, is available.

Instructions

1. If wall or rack mounting brackets are being used, refer to the installation instructions for the brackets (P/N 538-718).
2. Remove the protective cap from the transmit port and transmit fiber, and connect the fiber to the port labeled “TX” (refer to Figure 2). Do not use any tools to tighten the connectors.
3. Remove the protective cap from the receive port and receive fiber, and connect the fiber to the port labeled “RX” (refer to Figure 2). Do not use any tools to tighten the connectors.
4. Connect the BLN or FLN trunk to the trunk connector. Then plug the connector into the port labeled “Trunk” on the interface.
5. Connect the earth ground wire (2’ green wire, included) from the trunk shield connection to earth ground. The ground can be either the field panel chassis using the nutdriver to put the ground terminal under the chassis mounting nut or the electrical box which powers the interface.
6. Connect the power connector into the interface and plug the power pack into a transient protected source.

The installation is now complete.

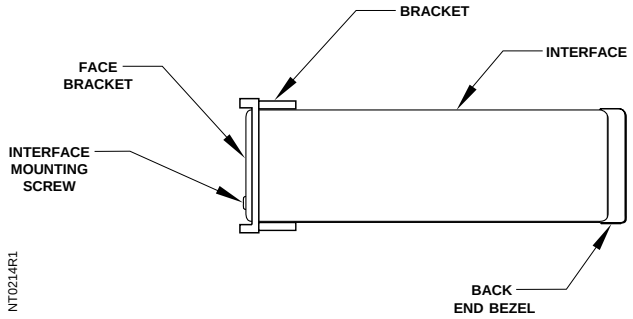


Figure 3. Rack Mount of Fiber Optic Interface (Side View).

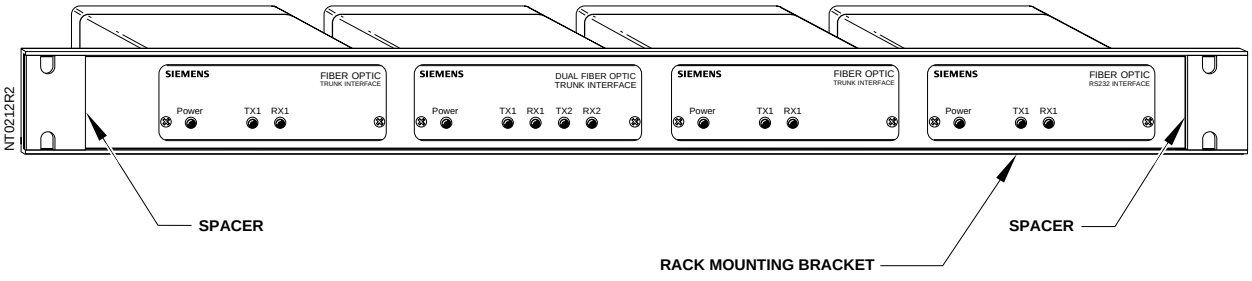


Figure 4. Multiple Unit Rack Mounting Installation.

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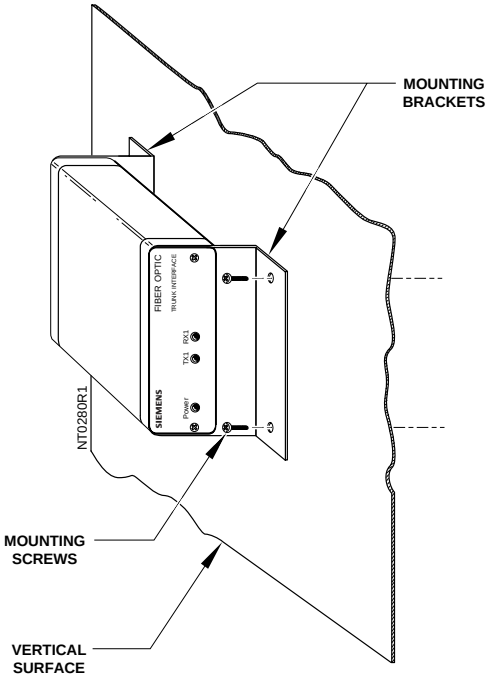


Figure 5. Single Unit Wall Mounting.

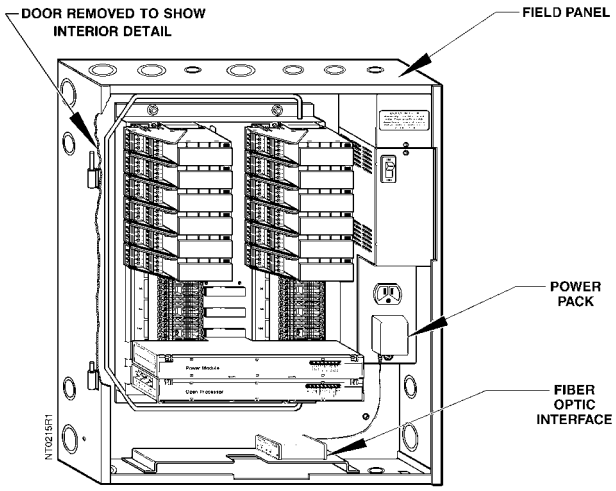
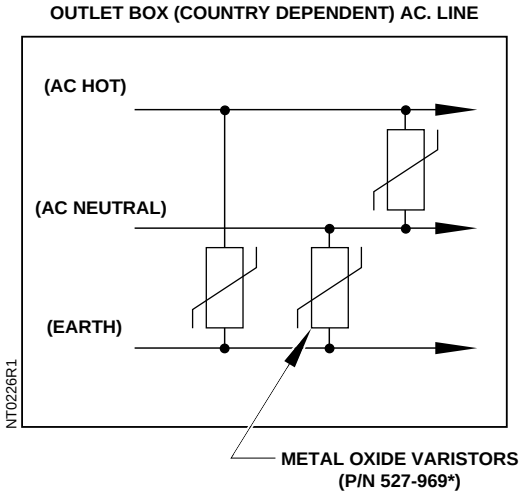


Figure 6. Field Panel Mounting.



*** MAX AC. (RMS) WHEN USING**
527-969 (250 V) MOVS = 250 VAC (RMS)

Figure 7. MOV Connections.

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