



Model: rdcEnetFO

Ethernet to Multimode Fiber Optics Converter
Ethernet to Singlemode Fiber Optics Converter
Ethernet to WDM Fiber Optics Converter

The rdcEnetFO safely and easily extends your panel mounted ethernet devices via fiber optic cables by up to 40 km long, while providing the ultimate combination of isolation, surge, and noise protection. WDM (Wavelength Division Multiplexing) option reduces the amount of cabling by half. All ports are galvanically isolated from the DC supply ground. Connectors are guaranteed to work with 9/125, 62.5/125, 100/140, and 50/125 µm fiber sizes.

Isolation, industrial design, small size, DIN rail mount, user indication, and wide range DC supply make the rdcEnetFO a very engineer- friendly device for your industrial data communication system.

Specification

Fiber Optic

Connector : ST, SC, FC
 Fiber Size : 62.5/125, 100/140, 50/125 and 9/125 µm
 Optical Wavelength : Multimode - 1300 nm
 : Singlemode - 1310nm
 : WDM - 1310/1550 nm
 Power Budget : -16 dbm for Multimode
 : -31.5 dbm for Singlemode
 : -21 dbm for WDM

Network Interface

Interface : 10/100Base-T Ethernet
 Connector : RJ45

Isolation

Supply to Enet : 1.5 KV

Power Supply

9 to 48 VDC : 2.16 W (90 mA @ 24 VDC, 100 Mbps).

Communication

FO Activity : Yellow
 Ethernet Activity : Yellow
 FO Link Speed : Green (100 Mbps), Yellow (10 Mbps)
 Ethernet Link Speed : Green (100 Mbps), Yellow (10 Mbps)
 Auto Negotiation : Highest possible link speed will be selected
 Standard Distance : Ethernet - 100m with CAT 5 UTP cable
 : Fiber Optics - 2000 m for Multimode
 - 40000 m for Singlemode
 - 20000 m for WDM

Mechanical / Environment

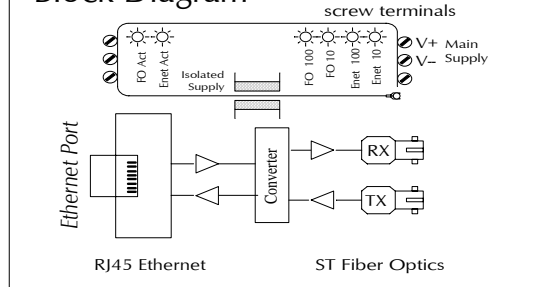
Operating Range : -40C to +65C
 Storage Range : -40 C to +100C
 Relative Humidity : 10 to 90% RH, non-condensing
 Case Material : nylon polymide, fungus and termite resistant self-extinguishing
 Weight : approx 130g
 Mounting Rail : DIN EN 50 022 or DIN EN 50 035

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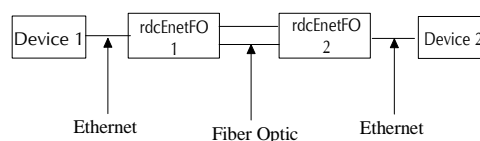
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(Version 1.1) Specifications subject to change without notice.

Block Diagram



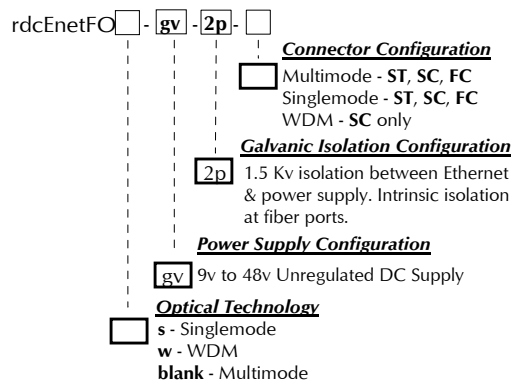
Typical Application



Link Fault Pass-Through Feature

When the rdcEnetFO detects a failure at one of its links, it will turn off the other link as well. For example, when Device 1 goes offline, Device 2 will be aware that a link failure has occurred because rdcEnetFO 1 will turn off its fiber optic ports, thereby making rdcEnetFO 2 turn off its Ethernet port. The link speed indicators of both rdcEnetFOs will also be turned off.

Order Information



Dimensions in mm (and inches)

