Robust Data Comm
Making Industrial Data Flow Like Water ... Safely, Silently, & Sanely

Co. & GST Reg. No: 19-9600 372-Z
ISO 9001 : 2000 Cert.No. : 1582

Model: rdcFoms

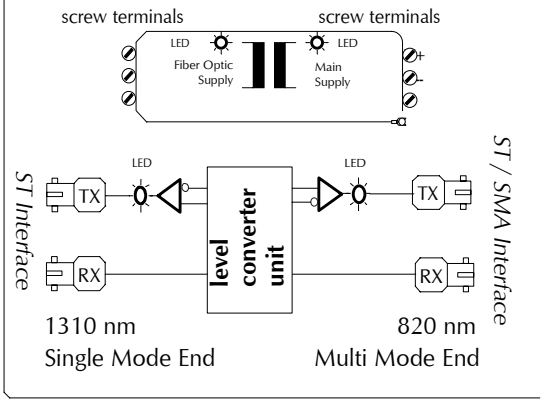
Single Mode to Multi-mode Fiber Optics Converter

The converter provides transparent conversion between fiber optic devices utilizing multi–mode fiber and those with single mode fiber. Single mode fiber can transmit data over much longer distance than multi-mode fiber. Single mode is ideal for longer "metropolitan distances" and multi-mode is well suited to short premises installation.

Single mode fiber accomplishes the distance by confining the transmitted power to a single optical mode which propagates down the center axis of the fiber. The converter regenerates signal strength and is mainly used to exceed the distance for multi-mode fiber.

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

Block Diagram



Order Information

rdcFoms - □ - □ - □ - □

Maximum Speed
- □ Up to 2.5 Mbps
- HS1 Up to 20 Mbps

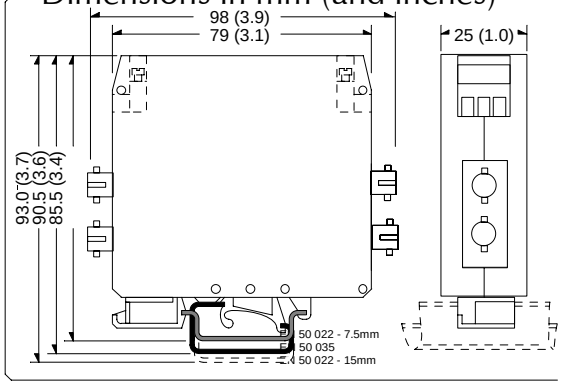
Singlemode Connector
- st ST bayonet connector

Multimode Connector
- st ST bayonet connector
- sma SMA threaded connector

Power Supply Configuration
- dv 9v to 36v Unregulated DC Supply
- 5v 5v +/- 5% Regulated DC Supply

Boxes in Bold denote factory default options

Dimensions in mm (and inches)



Specification

Fiber Optic

Interface : Multi-mode 820nm full duplex
: Single mode 1310nm full duplex

Connectors : Multi-mode ST(bayonet)
: Single mode ST(bayonet)

Loss Budget : Singlemode on 9/125 um cable
: 9 dBm @ 65 °C (non-HS1)
: 16 dBm @65 °C (HS1)
: Multimode on 62.5/125 um cable
: 10 dBm @ 65 °C (non-HS1)
: 11 dbm @ 65 °C (HS1)

Power Supply

9v to 36v DC : 110 mA (Max)
5v DC +/- 5% : 450 mA (Max)
User Indications : Green LED for incoming power supply

Communication

Max Speed : Up to 2.5/20 Mbps at standard distances
Character Setting : transparent, no configuration required
User Indications : Yellow LEDs for both directions
Practical Distance : Multi-mode 2 km, Single mode 11 km

Mechanical / Environment

Operating Range : -40 °C to +65 °C
Storage Range : -40 °C to +100 °C
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

www.robustdc.com

(Version 1.0) Specifications subject to change without notice.

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