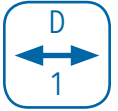


APPEARANCE



DESCRIPTION

The ComNet™ FDX70 data transceivers provide point-to-point transmission of simplex or duplex EIA RS232/RS422/RS485 (2W/4W) data signals over one single mode or multimode optical fiber. The transceivers are transparent to data encoding allowing for broad-range compatibility. Models within this series are available for use with multimode or single mode optical fiber. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. Each transceiver incorporates a bi-color (Red/Green) indicating LED for monitoring proper system operation. Packaged in the exclusive ComNet ComFit housing, the FDX70 standard size units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

APPLICATIONS

- › Access Control Systems
- › Building Automation and Environmental Control Systems
- › Computer/Data Equipment
- › Fire and Alarm Systems
- › Traffic Signal Control Equipment

FEATURES

- › Meets EIA RS232C/D and RS422/RS485 (2 or 4-wire) specifications
- › Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- › Robust design assures extremely high reliability in unconditioned out-of-plant/roadside environments
- › LED status indicators provide rapid indication of all critical operating parameters
- › NTCIP compatible
- › Remote Fault Indication allows the user to determine when a fiber break or loss of prime operating power has occurred, or a transceiver in the field has failed
- › Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- › Wide optical dynamic range: optical attenuators are never required
- › Hot-swappable rack modules
- › Interchangeable between stand-alone or rack mount use - ComFit
- › Lifetime Warranty

SPECIFICATIONS

Data

Data Format: RS232, RS422, 2 or 4-wire RS485 w/Tri-State, Manchester, bi-phase, Sensornet
 Data Rate: DC-1Mbaud (RS422 & RS485) DC-250kbps (RS232)
 Operating Mode: Asynchronous, simplex or full-duplex
 Bit Error Rate: <10-12 @ Maximum Optical Loss Budget

Wavelength 1310/1550 nm, MM and SM

Number Of Fibers 1

Optical Emitter Laser Diode

LED Indicators 1. Power 2. Status 3. Receive Data Active
 4. Transmit Data Active 5. Port A Fiber Link Status
 6. Port B Fiber Link Status

Failure Relay Normally closed contact: Solid-State relay contacts rated at 0.5 mA, resistive load.

Connectors

Power: Terminal Block
 Optical: ST
 Data: Terminal Block
 Relay: Terminal Block

Electrical & Mechanical

Surface Mount Power: 8-15 VDC @ 4 W
 Rack Power: From Rack
 Number of Rack Slots: 1
 Current Protection: Automatic Resettable Solid-State Current Limiters
 Circuit Board: Meets IPC Standard
 Size (L×W×H): 6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 cm)
 Shipping Weight: <2 lbs./0.9 kg

Environmental

MTBF: >100,000 hours
 Operating Temp: -40° C to +75° C
 Storage Temp: -40° C to +85° C
 Relative Humidity: 0% to 95% (non-condensing)*

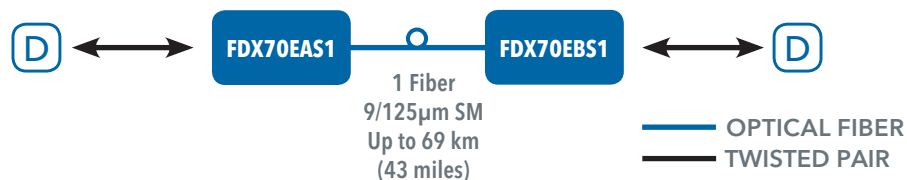
* May be extended to condensation conditions by adding suffix 'C' to model number for conformal coating.



ORDERING INFORMATION

Part Number	Description	Fibers		Optical Pwr Budget	Max Distance [†]	# Rack Slots
		Required	Fiber			
FDX70EAM1	Universal Data Point To Point "A" End, 1 Fiber, MM	1	Multimode 62.5/125µm	16 dB	4 km (2.5 mi)	1
FDX70EAS1	Universal Data Point To Point "A" End, 1 Fiber, SM	1	Single mode 9/125µm	23 dB	69 km (43 mi)	1
FDX70EBM1	Universal Data Point To Point "B" End, 1 Fiber, MM	1	Multimode 62.5/125µm	16 dB	4 km (2.5 mi)	1
FDX70EBS1	Universal Data Point To Point "A" End, 1 Fiber, SM	1	Single mode 9/125µm	23 dB	69 km (43 mi)	1
Accessories Options	9 Volt DC Plug-in Power Supply, 90-264 VAC. 5060 Hz (Included) Add 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit - With Mounting Hardware (Optional, order model DINBKT1)					

TYPICAL APPLICATION



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