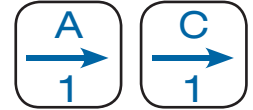


simplex (one-way) audio and contact closure



Description

The ComNet™ FVXAT/R1C1 series audio transmitter and receiver units provide for the transmission of a single audio signal and one simplex/one-way contact closure over one multimode or single mode optical fiber. These modems use frequency modulation (FM) for superior transmission of balanced or unbalanced line-level audio. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required. Bi-color (Red/Green) LED indicators provide a local indication of power and link operating status. Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

Features

- 20Hz - 8kHz Audio Bandwidth
- 600 Ohms Audio Input Impedance
- Transmits Balanced or Unbalanced Line-Level Audio
- One Simplex/One-Way Contact Closure Channel
- No In-field electrical or optical adjustments
- Bi-color (Red/Green) LED status indicators confirm equipment operating status
- LOS (Loss of Signal) Alarm Relay provides remote indication of loss of optical path
- Distances up to 30 miles (48 km) without repeaters
- 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.
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Interchangeable between stand-alone or rack mount use - ComFit
- Hot-swappable rack modules
- Automatic resettable fuses on all power lines
- Five year warranty

Applications

- Transmission of line-level audio from pre-amp to amplifier
- Transmission of Broadcast-Grade Audio

specifications

AUDIO

No. of Input/Output Channels: 1 (balanced)
 Audio Input/Output Signal: 2.2V pk-pk
 Bandwidth: 20Hz - 8kHz
 Total Harmonic Distortion: < 1%
 Signal-to-Noise Ratio (SNR): 60dB (Typical)
 I/O Impedance: 600Ω (Single-ended or Differential)
 Loss of Signal Relay Alarm: Solid State Relay (0-250V, 190 mA AC/DC)

CONTACT

Contact Interface/Response Time: 0.5 msec
 Input: Dry Contact Closure
 Output: SPST Relay, 0.5 A Resistive Load Contact Rating
 Normally open

WAVELENGTH 1310 nm nm, Multimode and Single Mode

NUMBER OF FIBERS 1

LED INDICATORS - Power - Link Status - Contact

CONNECTORS

Optical*: ST
 Power: Terminal Block
 Audio: Terminal Block

ELECTRICAL & MECHANICAL

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

* Other optics available. Contact factory.

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



PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE [§]	# RACK SLOTS
FVXAT1C1M	1 Channel Audio Transmitter (1310 nm)	1	Multimode 62.5/125µm	16 dB	3 km (2.5 miles)	1
FVXAR1C1M	1 Channel Audio Receiver (1310 nm)					
FVXAT1C1S	1 Channel Audio Transmitter (1310 nm)	1	Single Mode 9/125µm	16 dB	48 km (30 miles)	1
FVXAR1C1S	1 Channel Audio Receiver (1310 nm)					
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)					
Options	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)					
	DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)					

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended.

§ Distance may be limited by optical dispersion.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

