Audio Contact Transceiver   ACX-1001

For Intercom to Fiber Optics Applications

Each *Litelink*® ACX-1001 consists of a separate transmitter and companion receiver in a single housing. The unit uses FM (frequency modulation) to transmit linear two-way audio level signals as well as two-way contact closures. The system is ideal for upgrading existing intercom / gate control systems to fiber optics, providing both lightning protection and a replacement for degrading electrical wiring.

Both multimode and single-mode versions are available and installation is totally adjustment free. Indicators continuously show the presence of a valid link, audio and contact closure signals as well as the presence of operating power making troubleshooting simple.

Technical Specifications

Audio Bandwidth (minimum)	30 Hz to 50 KHz (+0,-3dB)
Input/Output Impedance	600 ohms
Input/Output configuration	balanced or unbalanced
Input/Output Level	1 volt rms (3vpp)
Linearity and THD	3% maximum
Signal/Noise Ratio	60 dB typical
Operating Optical Wavelength	850, 1310 or 1550nm
Optical Output Power	-15dBm (multimode)
	-15dBm (single-mode)
Optical Loss Budget	0-12dB (multi/single mode)
Optical Connectors	ST (multimode)
	FCPC (single-mode)
Signal/Contact Connectors	Removable terminal blocks
Output Contact Ratings	0.5A/125VAC 1.0A/24VDC
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217D)	>120,000 hours
Power Requirements**	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0" (127) x 4.0" (101.6)
	x 1.0" (25.4)

Note that all specifications are subject to change without prior notice.

Fiber Optic Audio & Contact System

Important Features

- *Two-Way Audio and Contact Closures*

- *Signal/Power Indicators*

- *Multimode or Single-mode versions*

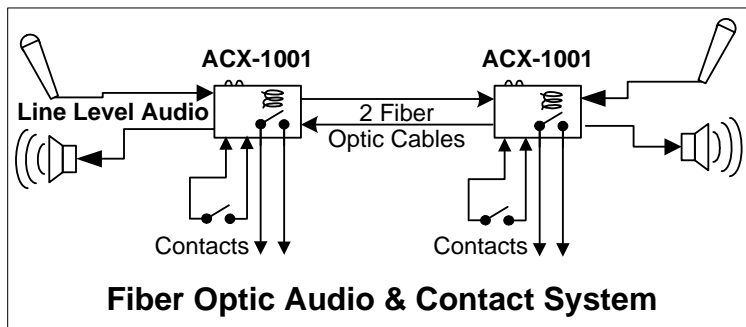- *Stand-alone, DIN or Rack Mountable (same unit)*

Ordering Information

Transceiver   ACX-1001-X

"X" = Wavelength/Fiber

-1 =   850nm Multimode
-3 = 1310nm Multimode
-7 = 1310nm Single-mode
-9 = 1550nm Single-mode

**For stand-alone operation order a PS-1205 power supply for each unit.

**For rack mounted operation all operating power is provided by power supply used with the rack mounting panel.

Litelink®
Fiber Optic Transmission Systems

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