Single Channel Digital Video Transmission System with Bi-Directional Audio, Multi-Protocol Data, and Contact Closure

91PXXXC SERIES MULTIMODE

[91P59C PRODUCT PICTURED]

FEATURES:
- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Audio, Data and Contact Closure Activity, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission

SPECIFICATIONS:

Video:
I/O Level	.1 Vpp
I/O Impedance	75 Ohms
Bandwidth	7 MHz
Differential Gain	2%
Differential Phase	0.7 °
SNR	65 dB
Connector	BNC

Data:
Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Biphase

Format	Asynchronous
Data Rate	DC to 115Kbit/s
Connector	Terminal Block

Audio:
I/O Level @ 600 Ohms:	.0 dBm (typ)
I/O Level @ 600 Ohms:	.14 dBm (max)
Bandwidth	20 Hz to 20 KHz
THD @ 1 KHz	.0.03%
SNR	95 dB @ 14 dBm
Connector	Terminal Block

Contact Closure:
Input	.Switch Closure to Ground
Output	Dry Contact
Response Time	.2 ms
Maximum Voltage	100 VDC or Peak AC
Maximum Current	0.5 amp
Connector	Terminal Block

Optical:
Wavelength	1310/1550 nm
Loss Budget (62.5/125µ)	12 dB
Maximum Transmission Distance	4 Km
Connector	ST

Temperature (Operating):
-40°C to +75°C, non-condensing

Power Supply:
Module - 12 VDC (AFI Part #: PS-12D-2+)
Rack Card (See AFI Part #: SR-50/5)

Size:
Module - $8\frac{1}{8}$" x $4\frac{1}{8}$" x $1\frac{1}{8}$"
Rack Card - $6\frac{1}{2}$" x 1" x 5"

Product Ordering Infromation:

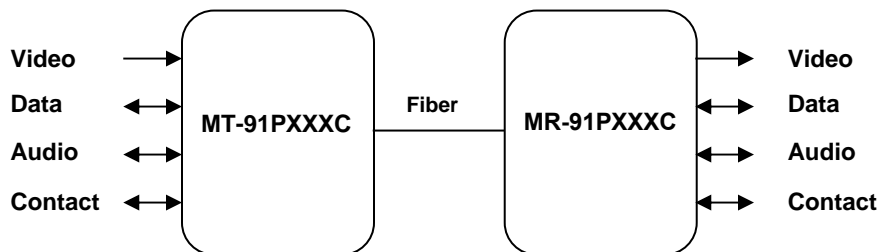|	
MT-91PXXXC	Module Transmitter
MR-91PXXXC	Module Receiver
RT-91PXXXC	Rack Card Transmitter
RR-91PXXXC	Rack Card Receiver
Data X=5	
Audio X=8	
Contact X=9	

The American Fibertek 91PXXXC Series transmits one channel of high-quality, 10 bit digitized video along with up to three channels of bi-directional audio and/or bi-directional Multi-Protocol data and/or bi-directional contact closure on one multimode optical fiber. Available data formats are switch selectable and include: RS422, RS485 (2 or 4 wire), RS232, and Manchester/Biphase.

Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-50/5 or SR-50H/5 American Fibertek Card Cages.