



**91P589C
SERIES
MULTIMODE
SINGLEMODE**

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

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 Level1 Vpp
 I/O Impedance 75 Ohms
 Bandwidth 7 MHz
 Differential Gain 2%
 Differential Phase.....0.7 °
 SNR65 dB
 Connector BNC

Data:

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

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)
 Bandwidth20 Hz to 20 KHz
 THD @ 1 KHz0.03%
 SNR95 dB @ 14 dBm
 Connector Terminal Block

Contact Closure:

Input.....Switch Closure to Ground
 Output Dry Contact
 Response Time2 ms
 Maximum Voltage.....100 VDC or Peak AC
 Maximum Current0.5 amp
 Connector Terminal Block

Optical (91P589C Series):

Wavelength1310/1550 nm
 Loss Budget (62.5/125µ).....12 dB
 Maximum Transmission Distance4 Km
 Connector.....ST

Optical (91P589C-SL Series):

Wavelength1310/1550 nm
 Loss Budget (9/125µ):.....21 dB
 Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
 Rack Card (See AFI Part #: SR-20/2)

Size:

Module - 8 5/8" x 4 3/8" x 1 1/8"
 Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-91P589C = Module Transmitter
 RT-91P589C = Rack Card Transmitter
 MR-91P589C = Module Receiver
 RR-91P589C = Rack Card Receiver

SINGLEMODE ORDERING INFORMATION:

MT-91P589C-SL = Module Transmitter
 RT-91P589C-SL = Rack Card Transmitter
 MR-91P589C-SL = Module Receiver
 RR-91P589C-SL = Rack Card Receiver



The American Fibertek 91P589C Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, one channel of bi-directional Multi-Protocol data, and one channel of bi-directional contact closure on one multimode optical fiber. The 91P589C-SL Series transmits on singlemode optical fiber. Available data formats are switch selectable and include: RS422, RS485 (2 or 4 wire), RS232, and Manchester/Bosch.

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. **The "Afinety" remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20/2 or SR-20H/2 American Fibertek Card Cages.

