

**91P589
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
- Switch Selectable Terminations
- Available with Enhanced "Afinety" Intelligent Monitoring System

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/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)
 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 (91P589 Series):
 Wavelength 1310/1550 nm
 Loss Budget (62.5/125µ) 12 dB
 Maximum Transmission Distance 4 Km
 Connector ST

Optical (91P589SL Series):
 Wavelength 1310/1550 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-20D/2)

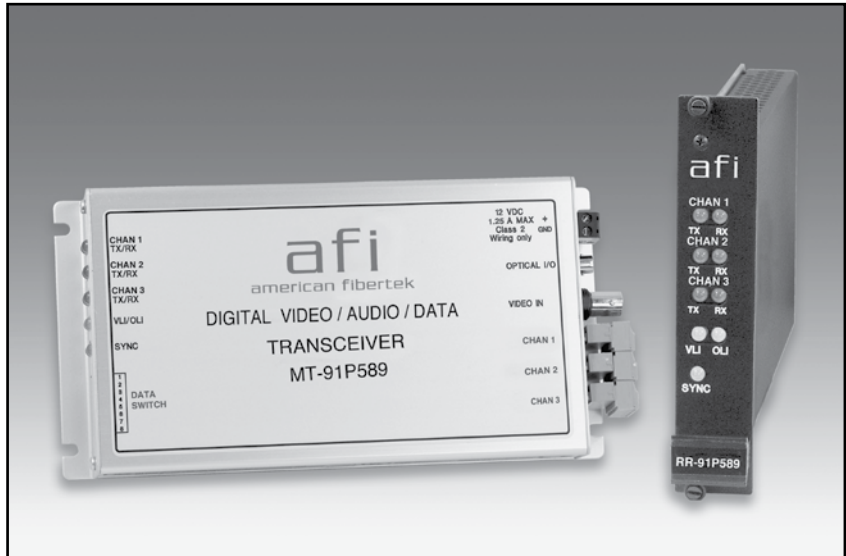
Size:
 Module - 8 7/8" x 4 7/8" x 1 7/8"
 Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

- MT-91P589 = Module Transmitter
- RT-91P589 = Rack Card Transmitter
- MR-91P589 = Module Receiver
- RR-91P589 = Rack Card Receiver

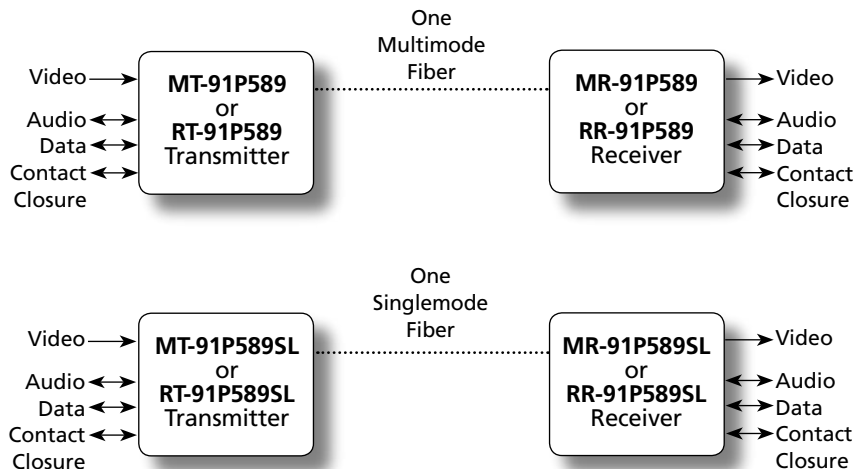
SINGLEMODE ORDERING INFORMATION:

- MT-91P589SL = Module Transmitter
- RT-91P589SL = Rack Card Transmitter
- MR-91P589SL = Module Receiver
- RR-91P589SL = Rack Card Receiver



The American Fibertek 91P589 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 91P589SL 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 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-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY