

**91P589
SERIES
MULTIMODE
SINGLEMODE**



afi

**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 Time2 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 (62.5/125 μ)	12 dB
Maximum Transmission Distance	4 Km
Connector	ST

Optical (91P589SL Series):

Wavelength	1310/1550 nm
Loss Budget (9/125 μ)	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:

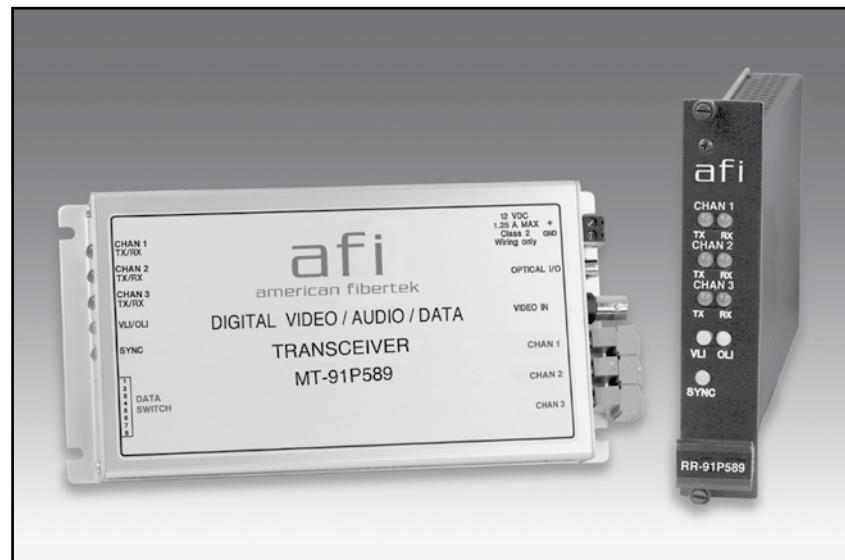
Module - 8 $\frac{3}{4}$ " x 4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "
Rack Card - 6 $\frac{1}{2}$ " x 1" x 5"

MULTIMODE ORDERING INFORMATION:

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

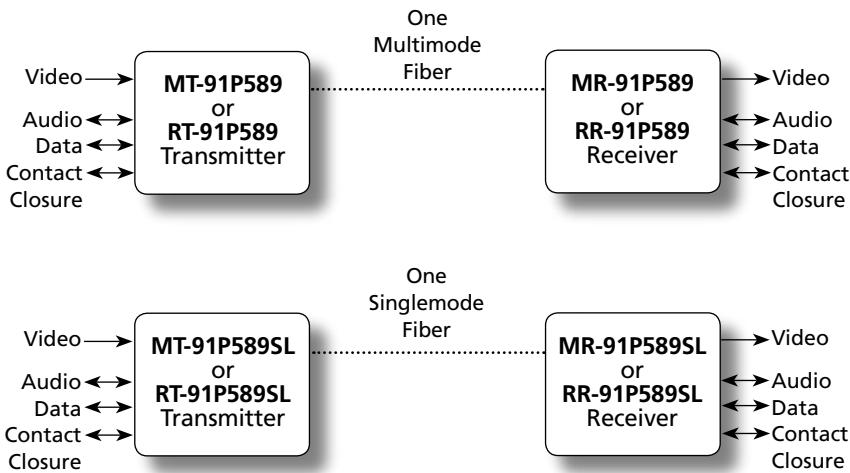
SINGLEMODE ORDERING INFORMATION:

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

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