



1900 SERIES MULTIMODE

Single Fiber Bi-directional Transceivers One-Way Video & Two-Way Contact Closure



FEATURES:

- Video with Two-Way Contact Closure Utilizing One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- 24 VAC Standard or 12 VDC Option
- Full Color Transmission

PRODUCT ENHANCEMENTS:

- Additional bi-directional features available for audio, data or contact closure - choice of one.

SPECIFICATIONS:

Video:

I/O Level.....	1 Vpp
I/O Impedance.....	75 Ohms
Bandwidth.....	8 MHz
Differential Gain.....	4%
Differential Phase.....	4°
SNR.....	63 dB
Connector.....	BNC

Contact Closure:

Input.....	Switch Closure to Ground
Output.....	Dry Contact
Response Time.....	2 ms
Voltage.....	100V DC or Peak AC
Current.....	0.5A
Connector.....	5 Pin Screw Terminal

Optical:

Wavelength.....	850/1300 nm
Loss Budget (62.5/125µ).....	12 dB
Connector.....	ST

Temperature (Operating):

-20°C to +70°C, non-condensing

Power Supply:

Module - 24 VAC (AFI Part #: PS-24)
 12 VDC available upon request, consult factory
 Rack Card - (See AFI Part #: SR-20/2)

Size:

Module - 6¾" x 5¼" x 1¾"
 Rack Card requires one rack slot - 6½" x 1" x 5"

ORDERING INFORMATION:

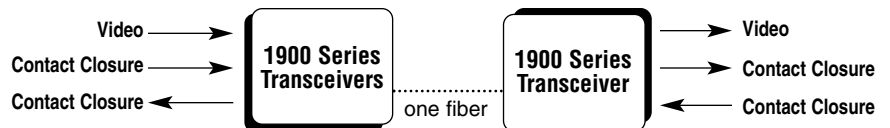
MT = Module Transmitter - Video Source
 MR = Module Receiver - Control Site
 RT = Rack Card Transmitter - Video Source
 RR = Rack Card Receiver - Control Site

Example: MT-1900 to RR-1900

The American Fibertek 1900 Series transmits high-quality, simultaneous video and bi-directional contact closure on one multimode optical fiber. An additional bi-directional Audio, data, or contact closure option may be added for enhanced applications.



These systems require 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 the American Fibertek Card Cages: SR-20/2 or SR-20R/1.



PRODUCT ENHANCEMENTS:

- 1900-EL Series** - Video One-Way _____
 - 1 - channel of bi-directional contact closure
 - Systems capable of 19 dB optical loss budget
- 1920 Series** - Video One-Way _____
 - 1 - channel of bi-directional contact closure
 - 1 - channel of return AD or Bosch Code
 - see product series 1290B
- 1930 Series** - Video One-Way _____
 - 1 - channel of bi-directional contact closure
 - 1 - channel of bi-directional RS232
 - see product series 1390
- 1940 Series** - Video One-Way _____
 - 1 - channel of bi-directional contact closure
 - 1 - channel of bi-directional RS422
 - see product series 1490
- 1970 Series** - Video One-Way _____
 - 1 - channel of bi-directional contact closure
 - 1 - channel of bi-directional TTL
 - see product series 1790
- 1980 Series** - Video One-Way _____
 - 1 - channel of bi-directional contact closure
 - 1 - channel of bi-directional Audio
 - see product series 1890
- 1990 Series** - Video One-Way _____
 - 2 - channels of bi-directional contact closure rated at 100V Max (DC or peak AC) @ 0.5A with a response time of 2ms

* For singlemode product equivalent to the 1900 series please see the 3900 series product.