



**91PxxxxE-SL  
Series  
Singlemode**

**One Way Digital Video, (2) 10/100Base-TX  
Ethernet, & (up to 4) Multi-Protocol Data and/or  
Contact Closures Transceiver**

**SPECIFICATIONS:**

**Video:**

I/O Level ..... 1Vp-p  
 I/O Impedance ..... 75 Ω  
 Bandwidth ..... 7 MHz  
 Differential Gain ..... 2%  
 Differential Phase ..... 0.7°  
 SNR ..... 67 dB  
 Connector ..... BNC

**Ethernet: (2 ports)**

Data Rate:  
 Auto negotiated ..... 10/100 Mb/s  
 Connector ..... RJ45

**Optical:**

Wavelength ..... 1300/1550nm  
 Loss Budget (9/125μ) ..... 15 dB  
 Distance ..... 20 km  
 Connector ..... FC

**Data : Optional**

Interface ..... Selectable Multi-protocol  
 Choice of: RS-485 (2 or 4 wire),  
 RS-422,  
 RS-232  
 Manchester  
 Format ..... Asynchronous  
 Rate ..... DC to 115 Kbit/s  
 Connector ..... Terminal Block

**Contact Closure: Optional**

Input ..... Switch Closure to Ground  
 Output ..... Dry Contact  
 Response Time ..... 2 mS  
 Max Voltage ..... 30 VDC or Peak AC  
 Max Current ..... 0.5 A  
 Connector ..... Terminal Block

**Environmental**

Operating Temp ..... -40°C to +75°C  
 Storage Temp ..... -40°C to +85°C  
 Humidity ..... 0% to 95% (non condensing)  
 MTBF ..... >100,000 hours

**Power Supply:**

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

**Size:**

Module - 8 1/8" x 4 1/8" x 1 5/8"  
 Rack Card requires 1 rack slot - 6 1/2" x 2" x 5"



The American Fibertek 91PxxxxE-SL Series transmits high-quality, state of the art, 10-bit digital video, (2) 10/100Base-TX Ethernet ports, and up to (4) Multi-Protocol (switch selectable) Data and/or Contact Closures on one singlemode optical fiber. Diagnostic indicators provide a quick visual indication of system status.

Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter.

Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cage: SR20/2

**Product Ordering Information:**

MT-91PxxxxE-SL            Module Transmitter  
 MR-91PxxxxE-SL            Module Receiver  
 RT-91PxxxxE-SL            Rack Card Transmitter  
 RR-91PxxxxE-SL            Rack Card Receiver  
 Data                         : x = 5  
 Contact Closure : x = 9

