

## Single Fiber Bi-directional Transceiver 1 Multi-Protocol Data and 1 Contact Closure

### FEATURES:

- Diagnostics: Data, Contact, Power & Optical Presence
- Automatic Resettable Fuses on Power Lines

### SPECIFICATIONS:

#### Data :

Interface.....Selectable Multi-protocol  
Choice of: RS485 (2 or 4 wire)  
RS422  
RS232  
Manchester

Format ..... Asynchronous  
Rate ..... DC to 115 Kbit/s  
Connector ..... Terminal Block

#### Contact Closure:

Input..... Switch Closure to Ground  
Output..... Dry Contact  
Response Time.....2 mS  
Max Voltage..... 100 VDC or Peak AC  
Max Current .....0.5 A  
Connector.....Terminal Block

#### Optical:

Wavelength.....1310/1550 nm  
Loss Budget (9/125μ)..... 21dB  
Connector.....SC,ST,FC

#### 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 1/8"  
Rack Card 1 rack slot ..... 6 1/2" x1"x5"

#### Product Ordering Information:

MT-9P59SL-XX Module Transmitter  
MR-9P59SL-XX Module Receiver  
RT-9P59SL-XX RackCard Transmitter  
RR-9P59SL-XX Rack Card Receiver  
Replace XX with SC,ST or FC to specify the desired optical connector



The American Fibertek 9P59SL Series transmits 1 multi-protocol (choice of RS485, RS422, RS232, or Manchester) data channel and 1 contact closure channel on one singlemode optical fiber. This link is capable of providing an optical loss budget of 21dB utilizing WDM and 1310nm / 1550nm wavelength lasers.

Designed to be completely transparent, this system requires 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: SR20/2 or SR-20H/2 (redundant power supply option).

