



## Wiegand Data System

### FEATURES:

- ◆ Wiegand D0, D1 Data Interface
- ◆ Indicators for Data Tx and Rx
- ◆ Only One Fiber Required
- ◆ Hot Swappable
- ◆ Provides +5V/100mA Output
- ◆ Provides LED/Beeper Status
- ◆ Provides Bi-directional Relays
- ◆ Multimode Version Available

### SPECIFICATIONS:

#### Wiegand:

Data Format ..... D0, D1, Common  
LED/Beeper Status  
Connectors ..... Terminal Blocks

#### Contact Closure:

Input..... Switch Closure to Ground  
- 5VDC (open), 1mA (closed)  
Output (Dry Contact)  
- 220VDC / 250VAC / 2.0A  
ResponseTime.....2 ms  
Connector.....Terminal Block

#### Optical:

Wavelength: ..... 1310/1550 nm  
Source: .....Laser  
Loss Budget (9/125 u) ..... >21 dB  
Connector: ..... ST/SC

#### Power:

Voltage.....12 VDC/ 350mA  
Connector ..... 2 Pin Terminal Block

#### Output Power:

Module Output.....+5Vdc at 100mA  
(Power to Card Reader)

#### Power Supply:

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

#### Environmental:

Temperature ..... -40°C to 75°C  
Humidity..... 5 to 95 %

#### Physical:

Module ..... 8<sup>1</sup>/<sub>8</sub>" x 4<sup>1</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>8</sub>"  
Rack Card - One Slot 6<sup>1</sup>/<sub>2</sub>" x 5" x 1"



The American Fibertek 479SL Series transmits the Wiegand D0, D1 data channels from an access control card reader over a single singlemode optical fiber. In the return direction, 2 channels are available to provide the Wiegand LED / Beeper status to the card reader. Two bi-directional contact channels are also available.

The system is comprised of two transceivers forming a point-to-point communications link. The system is designed to be completely transparent to data protocol.

For ease of installation, 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, SR-20H/2.

### ORDERING INFORMATION:

MTX-479SL = One Fiber Module Multimode ST Connectors 1310nm Tx  
MRX-479SL = One Fiber Module Multimode ST Connectors 1550nm Tx  
RTX-479SL = One Fiber Rack Card Multimode ST Connectors 1310nm Tx  
RRX-479SL = One Fiber Rack Card Multimode ST Connectors 1550nm Tx  
For SC optical connector, add -SC. Example MTX-479SL-SC