



**0500  
SERIES  
MULTIMODE**

# 20mA CURRENT LOOP DATA TRANSCEIVER

## FEATURES:

- ◆ 20mA Current Loop Data Transceiver
- ◆ Diagnostic: LED Power Indicator
  - Tx Data Activity
  - Rx Data Activity
- ◆ Module or Rack Card Transceiver
- ◆ Multimode Optics
- ◆ Dual Active or Dual Passive I/O Ports

## SPECIFICATIONS:

### Data:

Data Rate ..... DC to 19.2 Kb/s  
Data interface ..... 0 - 20mA Loop

### Passive Input - Forward Current

Mark ..... 2.0 mA max  
Space ..... 14 mA min  
Space ..... 24 mA max

### Input / Output

Short Circuit Current ..... 85 mA Max

### Passive Output

Maximum Supply Voltage ..... 24V

### Optical:

Wavelength ..... .850/1310 nm  
Loss Budget ..... >12 dB  
Connector ..... ST

### Temperature

Operating -40°C to +75°C, non-condensing

### Power Supply:

Module: +12 VDC @ 350mA (AFI Part#: PS-12)  
Rack Card Receiver- from SR-20 Rack

### Size:

Module ..... 4¼" x 4¼" x 1 1/8"  
Rack Card - One Slot ..... 6½" x 5" x 1"

### Ordering information:

#### Multimode:

- MT-0500A Module Transceiver Active I/O
- MT-0500P Module Transceiver Passive I/O
- MR-0500A Module Transceiver Active I/O
- MR-0500P Module Transceiver Passive I/O
- RT-0500A Rack Card Transceiver Active I/O
- RT-0500P Rack Card Transceiver Passive I/O
- RR-0500A Rack Card Transceiver Active I/O
- RR-0500P Rack Card Transceiver Passive I/O

### EXAMPLE:

**MT-0500A to RR-0500P**

### NOTE:

An MT or RT needs to be paired with an MR or RR.

7/13 JPM



The American Fibertek 0500 Series is a low cost, low profile 20mA current loop data transceiver system. Data transmit and receive is accommodated on one multimode optical fiber. Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter.

I/O ports are selected by part number to be either active or passive. The units have internal jumpers to allow independent setting of active or passive input or output.

Transceivers 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.

