



**109  
SERIES  
MULTIMODE**

**FM VIDEO WITH CONTACT CLOSURE**

**FEATURES:**

- ◆ Compatible with NTSC; RS170A & RS-343A and PAL
- ◆ Diagnostics: Power, Video and Optical Presence
- ◆ Full Color Transmission
- ◆ No user or installation adjustments
- ◆ Modules or Rack Cards

**SPECIFICATIONS:**

**Video:**

I/O Level ..... 1Vp-p  
 I/O Impedance ..... 75 Ω  
 Bandwidth ..... 8 MHz  
 Differential Gain ..... 4%  
 Differential Phase ..... 4°  
 SNR ..... 60 dB  
 Connector ..... BNC

**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 ..... 850nm  
 Loss Budget (62.5/125µm fiber) ..... 16dB  
 Maximum Transmission Distance ..... 2.5Km  
 Connector ..... ST

**Temperature (Operating)**

-20°C to +70°C, non-condensing

**Power Supply:**

Module Transmitter - 12 VDC: 10 VA  
 (AFI Part #: PS-12)  
 Module Receiver - 12 VDC: 10 VA  
 (AFI Part#: PS-12)  
 Rack Card (See AFI Part #: SR20/2)

**Size:**

Rack Card Requires one rack slot  
 Module: 4 1/4" x 4 1/4" x 1 1/8"

**Ordering information:**

MT-109 Module Transmitter  
 MR-109 Module Receiver  
 RT-109 Rack Card Transmitter  
 RR-109 Rack Card Receiver

**Example: RT-109 to RR-109**



The American Fibertek 109 Series transmits high-quality, simultaneous FM video with a contact closure on one multimode optical fiber at 850nm. Designed to be completely transparent, these system require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual check 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 SR20R/1.

