



# 8 CHANNEL "SUPERVISED" EXTERNAL CONTACT CLOSURE SYSTEM

**Features:**

- ◆ 8 Channels, Form-C (Normally Open or Normally Closed) Dry Contact Closure
- ◆ Diagnostics: Power, Optical Presence and Channel Indicators
- ◆ High Density DB26 Data Connector with Adaptor to screw terminal
- ◆ External Contact Input Supervision

**Specifications:**

**Contact Input:**

- Supervised External Contact Closure
- Requires 1Kohm Series resistor near the remote contact
- A Contact State is determined to be open (off) when the voltage at the MT/RT-88 input differs from a predetermined range
- A Contact State is determined to be closed (on) when the voltage at the MT/RT-88 input falls within a predetermined range
- If the MT/RT-88 loses power or the fiber is cut / disconnected, the MR/RR-88 contacts will open and an alarm condition will be indicated.
- If the MR/RR-88 loses power or the fiber is cut / disconnected, the MR-88/RR-88 contacts will open and an alarm condition will be indicated.
- TVS Transient Voltage Suppression Diodes (Used on all Contact Inputs)
- Connector ..... DB26 with Adaptor to Screw Terminal

**Contact Output:**

- Contact Closure Rating ..... 0.5A Max.
- 40 Volt DC or Peak AC Per Channel
- Response Time ..... 5 ms
- Connector ..... DB26 with Adaptor to Screw Terminal

**Optical:**

- Wavelength ..... 1310nm
- Loss Budget (62.5/125µ) ..... 12 dB
- Connector ..... ST

**Temperature (Operating)**

- 40°C to +75°C, non-condensing

**Power Supply:**

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

**Size:**

- Module ..... 81/8" x 41/8" x 11/8"
- Rack Card (1 rack slot) ..... 6½" x 5" x 1"

**Product Ordering Information:**

- MT = Module Transmitter –Signal Source
- MR = Module Receiver –Signal Receive
- RT = Rack Card Transmitter - Signal Source
- RR = Rack Card Receiver – Signal Receive

**Example: MT-88 to RR-88**

**Optional:**

- Adding -293 to the MR-88-293, RR-88-293 part number adds a dry contact (relay) output which detects (opens) loss of dc power or optical power.

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The American Fibertek 88 Series multiplexes 8 channels of "supervised input" dry contact closure on one multimode fiber. A set of 8 LEDs on the transmitter and the receiver units indicates the channel(s) status.

The Contact Input supervision will detect an open connection and a shorted connection as an alarm. The alarm condition is removed only when the Contact Input voltage falls within a predetermined range.

Failsafe operation is provided such that, if the optical power is loss or the transmitter or receiver dc power is loss, the normally open contact outputs will go to the alarm states (open).

Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on the Rack Card product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20/2 or SR-20H/2 (redundant power supply).

