

Arbiter Systems, Inc

Model 10889A Fiber-Optic to Logic Adapter, 6 Output

General Description

The Model 10889A Fiber-Optic to Logic Adapter converts signals received via optical fiber into CMOS logic levels. The received signal is distributed to six individually-buffered outputs, each using a two-pin connector. Mating connectors are supplied with the unit.

The outputs deliver 0 to 5-volt logic signals, with a high output corresponding to fiber illumination. A green light-emitting diode (LED) is lighted whenever the output levels are high.

The 10889A is powered by an external 9.5 to 13.5 Vdc source (not supplied). With all outputs fully loaded, the input current required will be less than 250 mA. A second green LED indicates that power is supplied to the unit. Power is supplied via a two-pin header, with included mating connector. The input is protected against reverse polarity.

Specifications

Input: Fiber-optic signal via a 62.5/125 μ m fiber; -10 to -24 dBm input level.

Output: +5V CMOS signal via 6 two-terminal headers (mating connectors supplied).

Impedance: 10 ohms

Source/Sink Capability: \pm 75mA maximum per output, for 50% maximum duty cycle.

Power Input: +9 to +13.5 Vdc, 250 mA

Size: 102 x 56 x 42 mm (4.0" x 2.2" x 1.7"), including mating connectors.

Weight: 165 grams (5.8 oz.).

Temperature: Operating: -10° to +50° C
Non-operating: -40° - +75° C

¹Refer to Application Note 101.

²Also usable with 50/125 μ m, 100/140 μ m, and 200 μ m PCS fiber.



Figure 1. Model 10889A Fiber-Optic to Logic Adapter, 6 Output

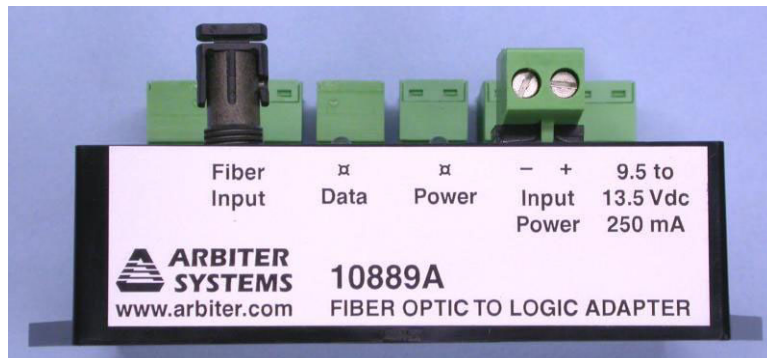


Figure 2. Input Side View

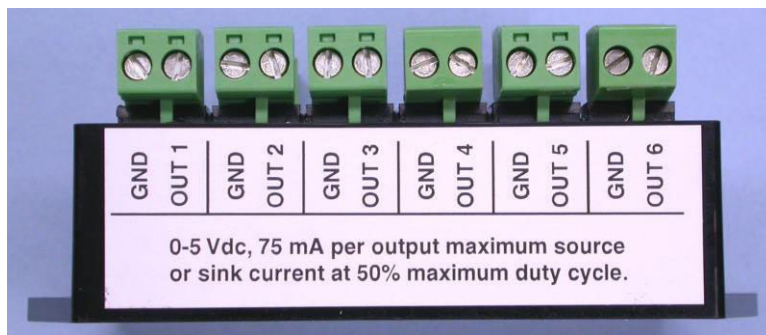


Figure 3. Output Side View