

AFL-300

FIBER OPTIC LINK



When you need to transfer signals from sources related to high voltages, Isolate them one from another, send them over long distances through noisy environment - The AFL-300 is the answer.

The AFL-300 is a low cost, small size optical isolation module used for many applications where Signal to Noise Ratio and signal quality is crucial. Using a proprietary hardware, A. A. Lab Systems provides you with a simple solution which is capable of running your signals over distances of up to 1 mile, without any noise penalty. The AFL-300 is the perfect solution for eliminating ground -loops, Electrical noises and other interferences.

Technical Specifications:

The AFL-300 is a new product from A. A Lab Systems. This fiber optic link has 2 versions: Analog and Digital. The analog version can transfer any signal within the range of -10V to +10V over a distance of up to 1.6 Km (3 Km. optional). The digital version can transfer a single TTL level (0-5V) signal to the same distance. The signals are reconstructed to the original signal levels. The AFL-300 is running on a single 12V power supply, thus making it very easy to install and run on standard 12V batteries. It also has a very low current consumption.

The input to the AFL-300 can be Single Ended, from a BNC connector, or Differential, from a PS2 like connector. Differential option is highly recommended for direct connection to sensors, for better noise immunity.

Analog Unit:

Input/Output voltage range: +/-10V Standard, +/-1V, +/-100mV, +/-10mV optional.

Linearity: 0.05% minimum.

Frequency Response: DC - 5 KHz.

Output Noise: < 1mV ptp.

Supply Voltage: 9-15VDC

Optical Fiber: Multi-Mode, 62.5/125 micron with SMA or ST connector

Transmission Range: 1m to 1.5Km standard, up to 3 Km. optional.

Dynamic Range: 86 dB (@ +/-10V Range)

Current Consumption: Transmitter: 135mA,

Receiver: 100mA @12V

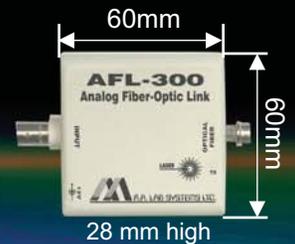
Isolation Voltage: Input to Output - Infinite (Battery operated).

Digital Unit:

Signal level: TTL (0-5V)

Delay between Input to Output: 1 Microsecond

Mechanical Dimensions:



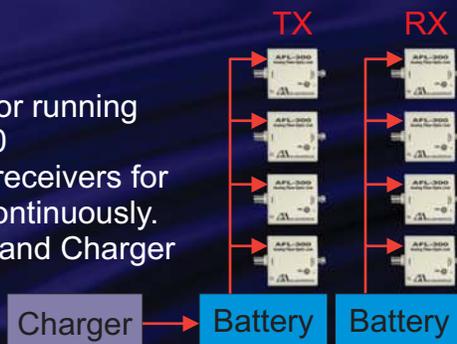
AFL-300-Rack

A 19" rack for placing up to 10 AFL-300 modules + Battery



AFL-300-BT -

Battery option for running up to 4 AFL-300 transmitters or receivers for up to 8 hours continuously. Include battery and Charger



AFL-300-PW1 - Standard

12V power supply for running up to 4 AFL-300 units on the same electrical ground.



AFL-300-PW3 - High

power 12V supply for running up to 12 AFL-300 units on the same electrical ground.



Web Page:

www.lab-systems.com

Head office: 33 Hayetzira st. Ramat-Gan 52521 ISRAEL
Phone: +972-3-5756327 Fax: +972-3-5756326

USA Office: 9 Blossom Drive, Kennett Square, PA19348
Phone: (302) 478-2881 Fax: (610) 444-5544