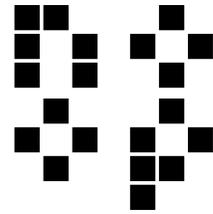# 8 Channel IN Optical Signal Isolator

Input Range: 5-24VDC
Output Range: 3.3-5VDC
Max Frequency: 5 KHz
Features: Screw terminals, Individual Channel LEDs, Optional 2.54mm Headers

Product Overview

This board converts industrial/noisy 5-24VDC signals to 3.3-5VDC signals. Perfect for interfacing your microcontroller/Arduino/Raspberry Pi with old or industrial systems.

The device includes screw terminals for ease of use. If you prefer to use standard 2.54 mm spaced headers, you can solder to the open row of pins that are also labeled.

There are two sides of the board

- High Voltage (5-24VDC) inputs which will be referred to as "HV"
- Low Voltage (3.3-5VDC) outputs which will be referred to as "LV"

Directions

1. Attach your HV power source to the HVIN pin of HV INPUT side
2. Attach your HV ground to the HVGND pin of HV INPUT side
3. Attach your LV power source to the LVIN pin of LV OUTPUT side
4. Attach your LV ground to the LVGND pin of the LV OUTPUT side
5. Connect any HV output signals to pins 1 through 8 of the HV INPUT side
6. Connect any microcontroller input or LV input to pins 1 through 8 of the LV OUTPUT side

Additional Notes

- HV signals only act as an inputs to the board
- LV signals only act as outputs from the board
- A HIGH state on the input corresponds to a HIGH state on the output and vice versa
- I/O is pulled HIGH when not actively pulled to GND

Absolute Max Ratings

- HVIN Supply Voltage = 5-40VDC
- LVIN Supply Voltage = 3-6V
- Signal Frequency = 5 KHz

Verified Compatible With

- Raspberry Pi 1/2/3
- Arduino
- Beaglebone Black/Green
- ODroid C1/C1+/C2