

Engineering Sample Status Product

Not for Production Use

Notwired.co has developed an analog control module for the Lens Vector LV3 series of products. This module accepts four inputs and provides four output lines to drive the Lens Vector lens. At this time, this is considered an Engineering Sample, and the product is expected to undergo one or more revisions before it is released as a production device.

Input Voltage Range: 5-56 Vdc

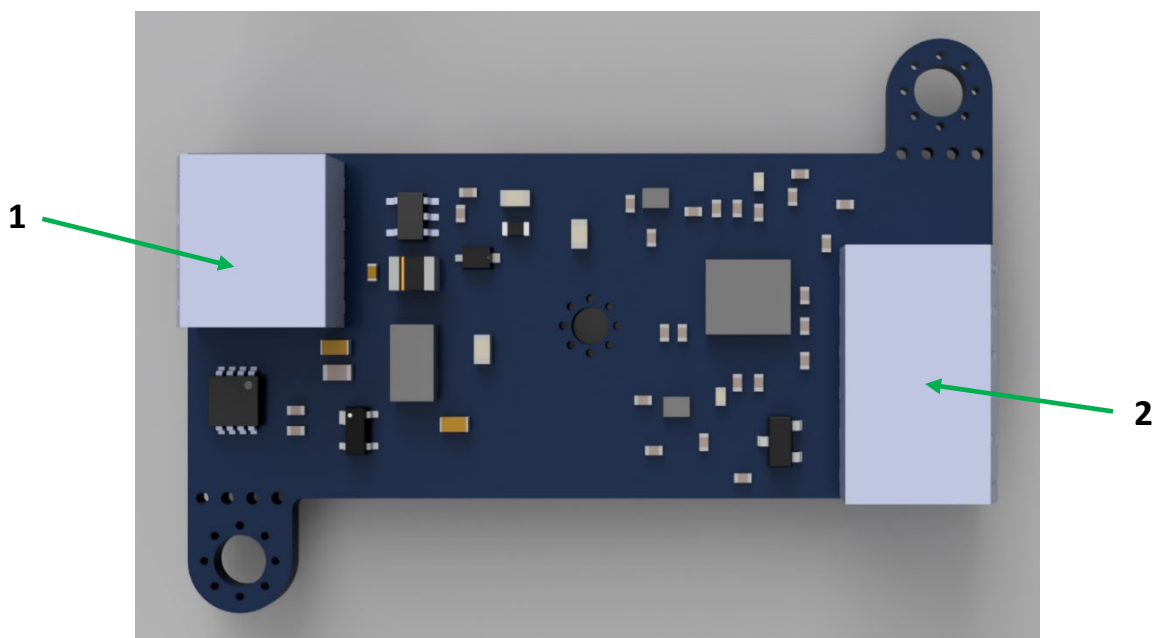
Typical Power Consumption: 0.5 W

Typical Current Draw:

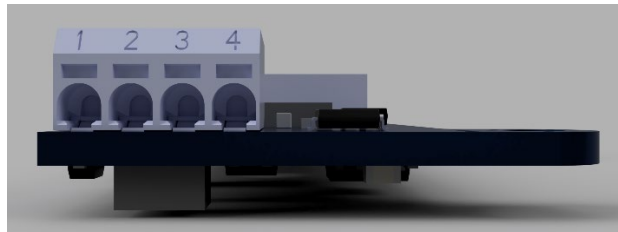
Input Voltage [V]	Current Draw [mA]
5	100
7	71
12	42
24	21
50	10

Connectors:

1. Input Connector (AVX 009276004021106)
2. Output Connector (AVX 009276006021106)

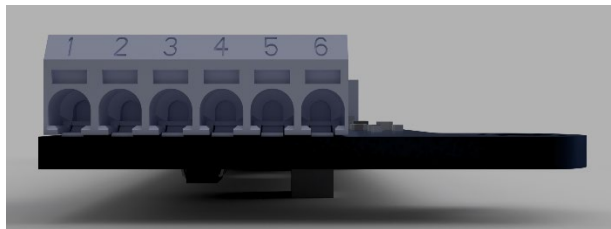


Input Connector Pinout (AVX 009276004021106):



1. (+) Vin: 5V to 56V
2. (-) Vin: Ground
3. (+) Lens: 0-10Vdc or 100k Potentiometer
4. (-) Lens: Ground or 100k Potentiometer

Output Connector Pinout (AVX 009276006021106):



1. (-) Lens Out: Ground output for daisy chaining
2. (+) Lens Out: 0-10Vdc output for daisy chaining
3. DR2_B Lens Vector drive signal
4. DR2_A Lens Vector drive signal
5. DR1_B Lens Vector drive signal
6. DR1_A Lens Vector drive signal

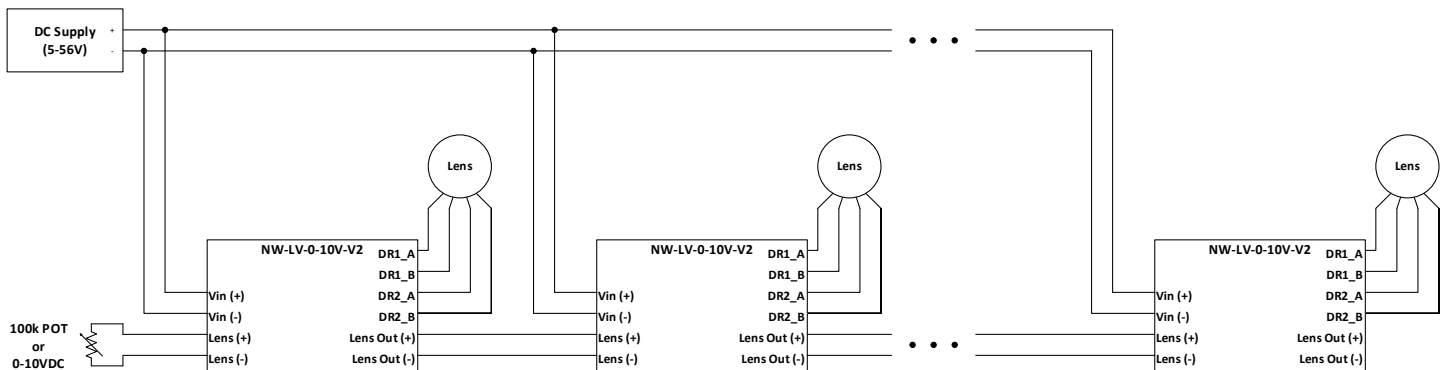
Operation Instructions:

1. Apply DC power to the device on pins 1 and 2 on the input connector.
2. Connect the control voltage source (0-10V) or 100k potentiometer between input connector pins 3 and 4 on the input connector.
3. Connect the Lens Vector lens to the output connector (ports 3 through 6).
4. Varying the input control voltage or vary the 100k ohm potentiometer to change the lens between no dispersion (clear) and maximum dispersion (lens appears somewhat cloudy).
5. See the associated Lens Vector device datasheet for the related dispersion characteristics.

Example Architectures:

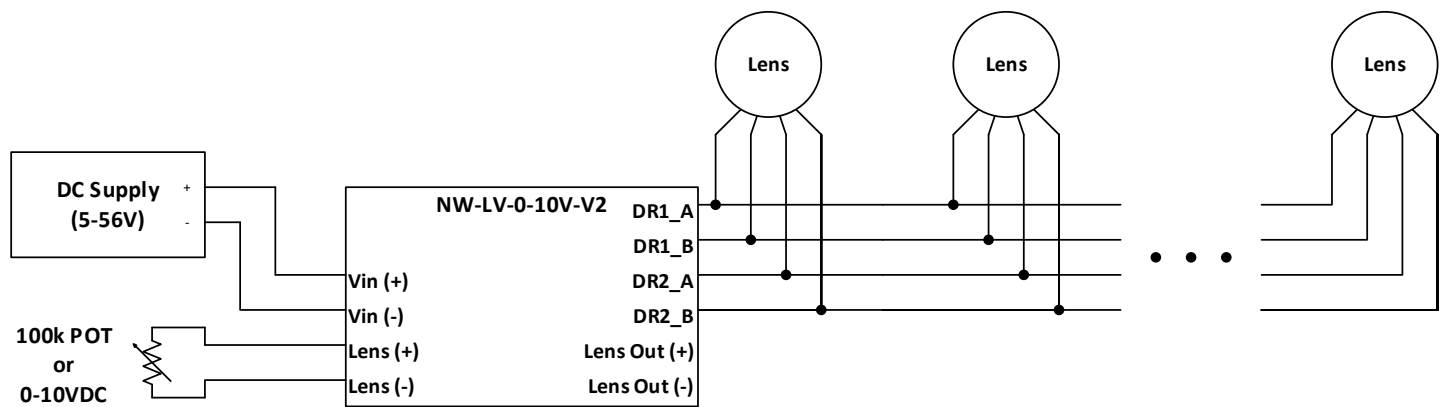
Daisy Chaining

The NW-LV-0-10V-A (V2) Lens Vector controller allows the use of a single 100k POT or 0-10VDC source to control multiple lenses across multiple light engines. The following diagram illustrates how the system should be wired to accomplish this architecture. There is no practical limit to the number of lenses that can be daisy chained together.

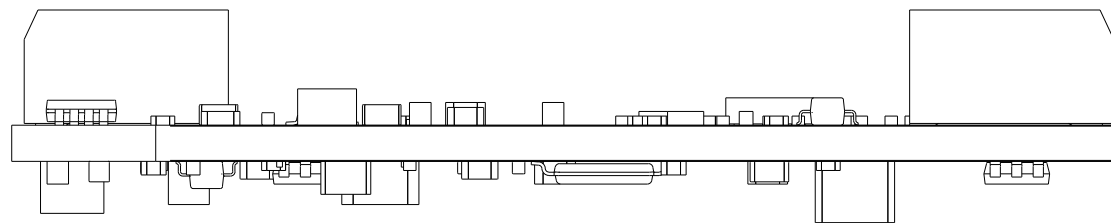
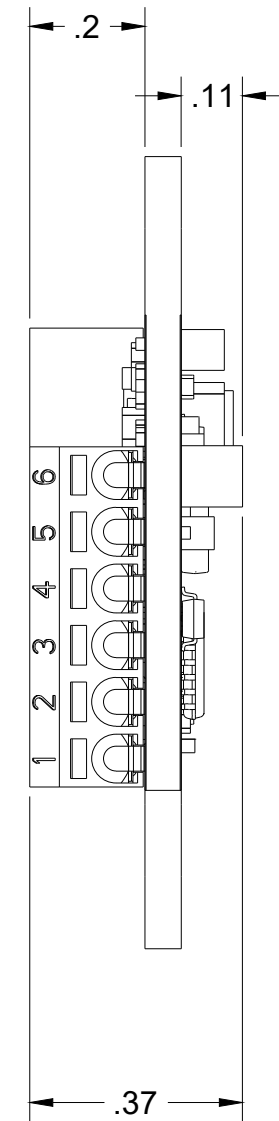


Control Multiple Lenses

This NW-LV-0-10V-A (V2) Lens Vector controller has the drive capability to control up to 6 lenses if wired in the following configuration. This architecture is particularly convenient for controlling multiple lenses in a single light engine.



For technical questions: [Preston Page](#)



A 3D perspective rendering of a custom printed circuit board (PCB) assembly. The PCB is green and has an irregular shape with two circular mounting holes. It is populated with various electronic components: a large white rectangular component at the top left, a black integrated circuit (IC) below it, a grey rectangular component in the center, a black IC to its right, and a large white component with multiple pins at the bottom right. Numerous smaller components, including resistors, capacitors, and surface-mount devices, are scattered across the board.

NW-LV-0-10-A-PCB

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