Outputs

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Version: 1.0.0

The cool muscle motor has two available outputs. These outputs are both common emitter sinking outputs. This means that they will provide a path to the ground connection for your load when active, and will be floating when inactive.

Output Specification

OUT1 and OUT2	Min	Max	Unit
Voltage Range	0	24	VDC
Operating Current	0	50	mA
Switching Frequency	-	1000*	Hz
Pulse Width	1*	-	ms

≙

0

*When using Quadrature Encoder Output, this will increase to 5000Hz, or 200µs

The output current is shared between both OUT1 and OUT2, IN3 and IN4, and the main 5VDC output on the motor. The current draw for all of these sources combined should not exceed 200mA.

Output Wiring

The example in Fig. 8 illustrates connecting an LED to OUT1. We are using a 4.7K? resistor for current limiting when connected to a 24VDC supply. When OUT1 is active, there will be a path to ground through OUT1 and will illuminate the LED.

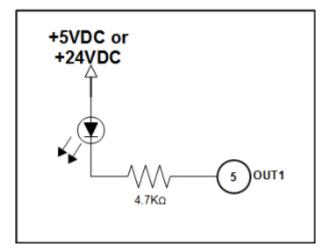


Fig. 8 - Connecting an LED to OUT1