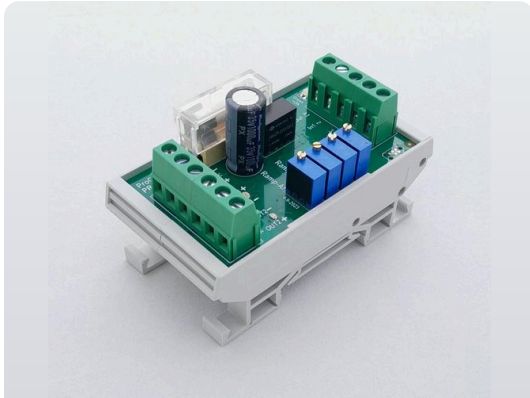


PWM valve driver with slow ramp-up and ramp-down, potentiometer control, two outputs

Article number PR159s01



The PR159s01 drives two high-side switched PWM outputs of approximately 225 Hz; the duty cycle follows the position of an external potentiometer of 1 to 100 k Ω . A voltage of 5 to 30 V on IN1 switches on output 1, on IN3 output 2. The isolated 5 V output on A1 and A5 supplies the potentiometer and the inputs, so no extra supply is needed. V-max sets the maximum duty cycle (50 to 100 %), V-start the minimum (0 to 50 %), and Ramp-up and Ramp-down the rise and fall rate.

Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	18 to 30 V DC
Input	Potentiometer 1 k Ω to 100 k Ω on A1, A3 and A5 (IN2, 5 V max.); IN1 (A2) and IN3 (A4) switch on output 1 and 2 with 5 to 30 V DC
Output	Two PWM outputs, high-side switched, on B3 and B4 and on B5 and B6; only one active at a time
Isolation	Input side (A1 to A5) galvanically isolated from outputs and supply (B1 to B6)
Setup	Four trimmers: V-max, V-start, Ramp-up and Ramp-down
Output current	4 A max., both outputs together
PWM frequency	Approx. 225 Hz
Rise and fall rate	Adjustable with the Ramp-up and Ramp-down trimmers
Ambient temperature	0 to 80 °C
Dimensions	45 x 82 mm

Connections

Terminal A1 Isolated 5 V output, potentiometer plus

Terminal A2 IN1: switches on output 1

Terminal A3 IN2: potentiometer signal (wiper)

Terminal A4 IN3: switches on output 2

Terminal A5 0 V of the isolated side, potentiometer minus

Terminal B1 Supply minus

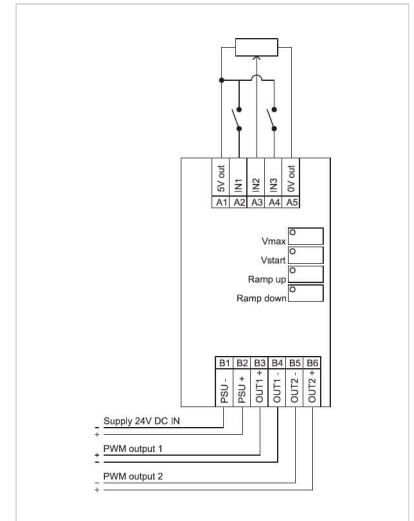
Terminal B2 Supply plus

Terminal B3 Output 1 plus (to the plus of the first load)

Terminal B4 Output 1 minus (to the minus of the first load)

Terminal B5 Output 2 minus (to the minus of the second load)

Terminal B6 Output 2 plus (to the plus of the second load)



Setup

1. Connect the supply to B1 (minus) and B2 (plus), the first load to B3 and B4 and the second load to B5 and B6.
2. Connect the potentiometer to A1 (plus), A3 (wiper) and A5 (minus).
3. Connect a switch between A1 (5 V) and IN1 (A2) for output 1, and between A1 and IN3 (A4) for output 2.
4. Set the maximum duty cycle with V-max (50 to 100 %) and the minimum with V-start (0 to 50 %). Turning clockwise increases the value.
5. Set the rate at which the output rises with Ramp-up and the rate at which it falls with Ramp-down.

More information, price and lead time: www.procircuits.nl/en/products/pr159s01

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