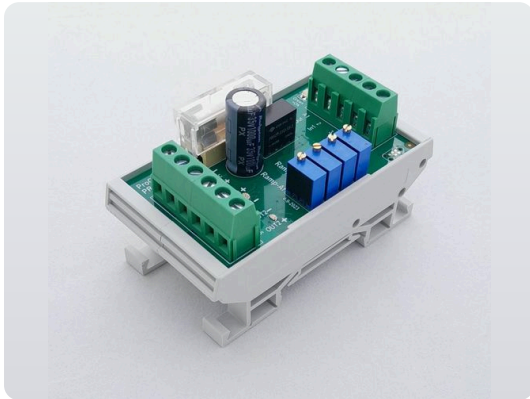


±10 V to two PWM outputs, isolated input

Article number PR159s25



The PR159s25 converts a -10 to +10 V signal into two high-side switched PWM outputs: a negative input drives output 1, a positive input output 2. The input is galvanically isolated from the outputs and the supply. Neutral position, dead band and end positions are adjusted with the four trimmers on the module, guided by a green and red indicator LED. Together the outputs deliver up to 4 A.

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

Specifications

Supply	18 to 30 V DC
Input	-10 to +10 V on A3 (signal) and A2 (0 V), ±10.1 V max.
Output	Two PWM outputs, high-side switched: B3 and B4 with a negative input, B5 and B6 with a positive input
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) and a green and red indicator LED
Output current	4 A max., both outputs together
Ambient temperature	0 to 80 °C
Dimensions	45 x 82 mm

Connections

Terminal A1 Not used

Terminal A2 IN1: 0 V of the ± 10 V signal

Terminal A3 IN2: ± 10 V signal

Terminal A4 Not used

Terminal A5 Not used

Terminal B1 Supply minus

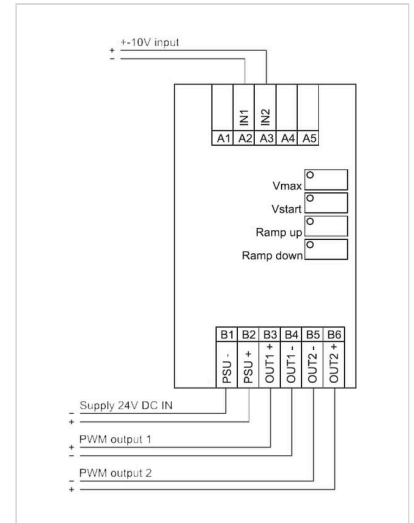
Terminal B2 Supply plus

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. Connect the ± 10 V signal to A3 and its 0 V to A2.
2. Bring the input to the neutral position (0 V); the outputs are then not active.
3. Turn the V-max and Ramp-up trimmers clockwise to the end stop. They make up to 14 turns; turning too far does no harm.
4. Turn the V-start and Ramp-down trimmers anticlockwise to the end stop. The LED now lights green continuously, regardless of the input.
5. Dead band downwards: with the input in the neutral position, turn Ramp-down clockwise until the LED flashes green and red alternately, then turn it back one turn. Check that the LED flashes green and red as soon as the input moves down.
6. Dead band upwards: with the input in the neutral position, turn Ramp-up anticlockwise until the LED flashes green and red alternately, then turn it back one turn. Check that the LED flashes green and red as soon as the input moves up.
7. Lower end position: move the input fully down. If the LED does not flash quickly and alternately, turn V-start clockwise until it does; the output is then at 100 %.
8. Upper end position: move the input fully up. If the LED does not flash quickly and alternately, turn V-max anticlockwise until it does. The module is now adjusted.

More information, price and lead time: www.procircuits.nl/en/products/pr159s25

ProCircuits B.V. · Van Nijenrodeweg 903, 1081 BJ Amsterdam, Netherlands · +31 6 45 77 55 93 · willem@procircuits.nl ·

Chamber of Commerce (KVK) 87009870

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