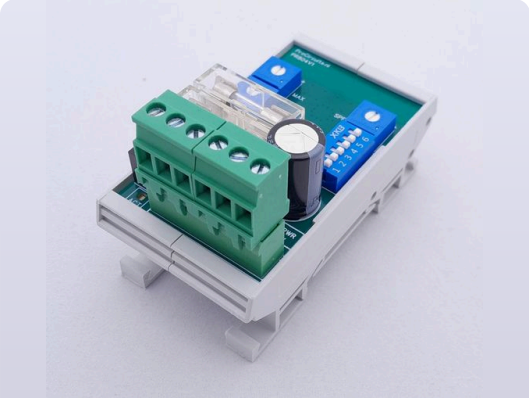
Potentiometer-controlled LED dimmer, high-side switched, adjustable limits and dimming speed

Article number PR804s02



The PR804s02 converts the position of an external potentiometer from 1 kΩ to 100 kΩ into a high-side switched PWM output: the lamp is connected between terminal 2 and terminal 6. Terminal 6 (0 V) also serves as the common ground for the analogue signals; the module is not galvanically isolated. The MIN, MAX and SPEED trimmers on the board set the lower limit, upper limit and dimming speed of the output.

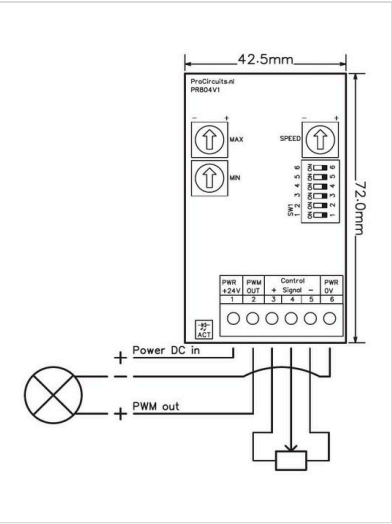
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC, for 12 and 24 V DC systems
Input	Potentiometer from 1 kΩ to 100 kΩ on terminals 3, 4 and 5
Output	PWM, high-side switched: lamp between terminals 2 and 6
Isolation	Not isolated: terminal 6 (0 V) is also the common ground for the analogue signals
Setup	MIN, MAX and SPEED trimmers on the board; dimming curve adjustable
Output current	5 A max.
PWM frequency	120 Hz
Ambient temperature	0 to 80 °C
Dimensions	45 x 83 mm with DIN rail enclosure, 42.5 x 72 mm without

Connections

Terminal 1	Supply plus
Terminal 2	PWM output, to the lamp plus
Terminal 3	Potentiometer plus
Terminal 4	Potentiometer signal (wiper)
Terminal 5	Potentiometer minus
Terminal 6	Supply minus (0 V) and lamp minus, also common ground for the analogue signals



Setup

1. Connect the lamp between terminal 2 and terminal 6.
2. Connect the potentiometer to terminals 3 (plus), 4 (wiper) and 5 (minus).
3. Connect the supply to terminal 1 (plus) and terminal 6 (0 V).
4. Set the lower limit of the output with the MIN trimmer.
5. Set the upper limit of the output with the MAX trimmer.
6. Set the dimming speed with the SPEED trimmer.

More information, price and lead time: www.procircuits.nl/en/products/pr804s02
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