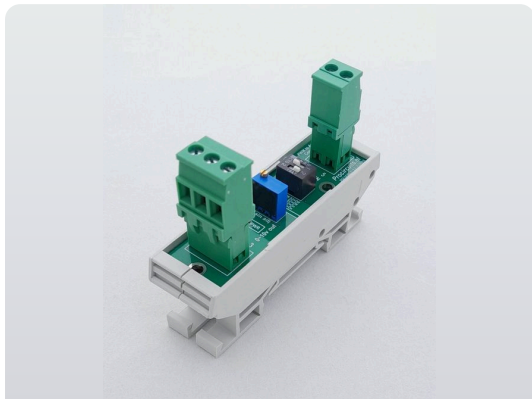


PWM to 0-10 V signal conditioner, isolated input

Article number PR168



The PR168 converts a PWM signal into a 0-10 V analogue signal. The input is galvanically isolated from the output and the supply: this prevents ground loops, and the module reads both high-side and low-side switched PWM signals. DIP switches S1 and S2 select a PWM level of 3.3, 5, 12 or 24 V; the Gain adj trimmer adjusts the upper limit of the output. As delivered, 0 % duty cycle gives 0 V and 100 % duty cycle gives 10 V, for a 24 V PWM signal.

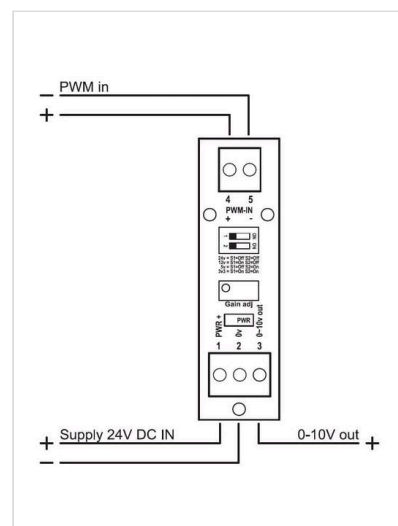
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	12 to 24 V DC
Input	PWM, 3.3 to 24 V; level 3.3, 5, 12 or 24 V selected with DIP switches S1 and S2
Output	0-10 V as delivered, 11 V max.; upper limit adjustable
Isolation	Input galvanically isolated from output and supply
Setup	DIP switches S1 and S2 for the input level, Gain adj trimmer for the upper limit
PWM frequency	100 Hz to 5 kHz
Dimensions	22.5 x 83 mm with DIN rail enclosure, 20 x 72 mm without
Factory setting	24 V PWM signal; 0 % duty cycle = 0 V, 100 % duty cycle = 10 V

Connections

Terminal 1	Supply plus, 12 or 24 V DC
Terminal 2	Supply minus (0 V)
Terminal 3	0-10 V output (plus)
Terminal 4	PWM input plus
Terminal 5	PWM input minus



Setup

1. Disconnect the PWM signal before changing the DIP switches, to avoid damaging the module.
2. Select the input level with S1 and S2: 3.3 V = S1 on, S2 on; 5 V = S1 off, S2 on; 12 V = S1 on, S2 off; 24 V = S1 off, S2 off.
3. Connect the module according to the terminal table and switch on the supply.
4. Bring the input to the level at which you want 10 V, for example 60 % duty cycle.
5. Turn the Gain adj trimmer until the output reaches the required level. Check with a multimeter if necessary.

More information, price and lead time: www.procircuits.nl/en/products/pr168

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