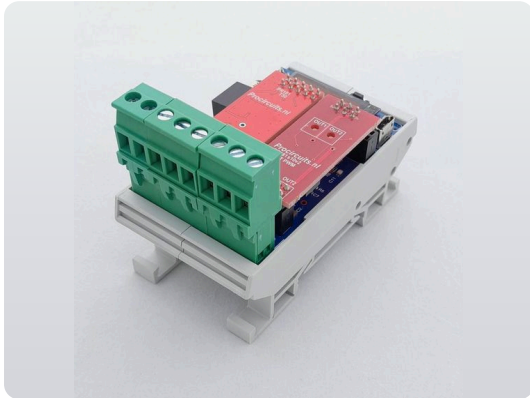


0-10 V to PWM signal conditioner, low-side switched, with display

Article number PR181-X028



The PR181-X028 converts a 0-10 V signal into a low-side switched PWM output of up to 8 A: the load is connected between the supply plus and the output. As delivered, 0 V on the input gives a 0 % duty cycle and 10 V gives 100 %. Lower and upper limits of input and output, the rise and fall rate and the PWM frequency (3 Hz to 50 kHz) are set on the display.

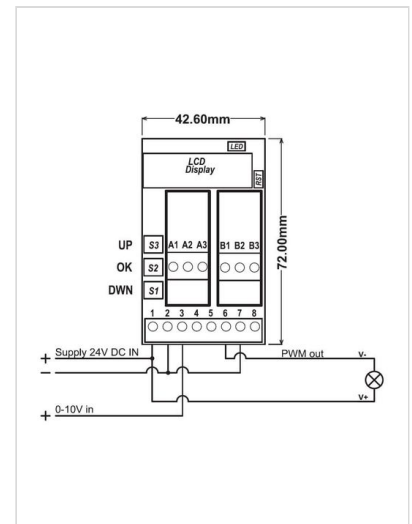
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	0-10 V on terminal 3, 11 V max.
Output	PWM, low-side switched, on terminal 6; 0 to 100 % duty cycle, lower and upper limit adjustable
Setup	Display with UP, OK and DOWN buttons
Output current	8 A max.
PWM frequency	3 Hz to 50 kHz, adjustable on the display
Rise and fall rate	Adjustable on the display
Ambient temperature	-25 to 55 °C, non-condensing
Dimensions	45 x 83 mm with DIN rail enclosure, 42.6 x 72 mm without
Factory setting	0 V = 0 % duty cycle, 10 V = 100 %

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus, also the minus of the 0-10 V signal
Terminal 3	0-10 V input (plus)
Terminal 4	Not used
Terminal 5	Not used
Terminal 6	PWM output, low-side switched (to the load minus)
Terminal 7	Supply minus for the PWM output, connect to terminal 2 with a short wire
Terminal 8	Not used



Setup

1. Connect the module according to the terminal table, connect terminal 2 to terminal 7 with a short wire and switch on the supply.
2. Bring the input to its lowest level, for example 0 V. In the menu, select IN1 – Set minimum, press OK, select YES and press OK again.
3. Bring the input to its highest level, for example 10 V. Select IN1 – Set maximum, press OK, select YES and press OK again.
4. Set the lower limit of the output with OUT1 minimum adj: change the value with UP and DOWN and confirm with OK. The value runs from 0 (0 % duty cycle) to 4095 (100 %).
5. Set the upper limit of the output in the same way with OUT1 maximum adj.
6. If required, set the rise and fall rate with Ramp-Up and Ramp-Down, and the PWM frequency with PWM Freq.
7. Setting OUT1 invert to 1 reverses the output: the lowest input level then gives the highest output level.
8. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x028

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