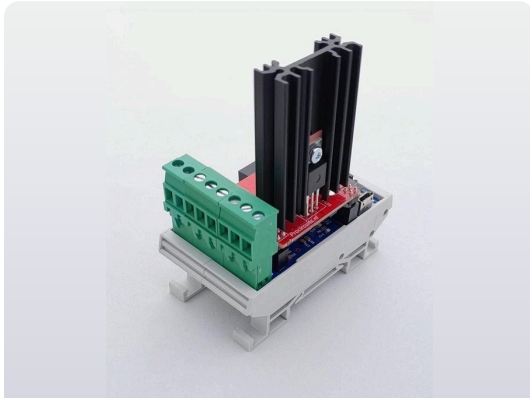


0-10 V centre-position joystick to two PWM outputs, low-side switched, with display

Article number PR181-X052



The PR181-X052 converts the 0-10 V signal of a centre-position joystick into two low-side switched PWM outputs. As delivered, 0 V gives 100 % on output 1, both outputs are at 0 % at 5 V (centre position) and 10 V gives 100 % on output 2. The joystick positions, the dead band around the centre, the limits, the rise and fall rate and the PWM frequency are set on the display. Limits and rise and fall rate apply to both outputs together.

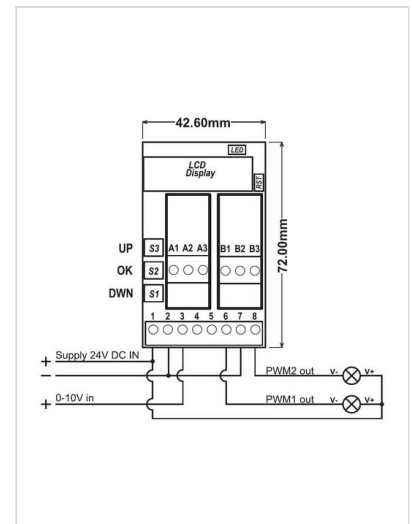
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	0-10 V from a centre-position joystick, on terminal 3, 11 V max.
Output	Two PWM outputs, low-side switched, on terminals 6 and 8; 0 to 100 % duty cycle, lower and upper limit adjustable for both outputs together
Setup	Display with UP, OK and DOWN buttons
Output current	8 A max., both outputs together
PWM frequency	100 Hz to 30 kHz, adjustable on the display
Rise and fall rate	Adjustable on the display, for both outputs together
Centre position	Dead band around the centre position 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 = output 1 at 100 %; 5 V = both outputs 0 %; 10 V = output 2 at 100 %

Connections

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



Setup

1. Connect the module according to the terminal table. Connect terminal 2 to terminal 7 with a short wire rated for the maximum output current, and switch on the supply.
2. Move the joystick fully to the left, so that the input is 0 V. In the menu, select JoySet-L, press OK, select YES and press OK again.
3. Move the joystick to the centre position, so that the input is 5 V. Select JoySet-M, press OK, select YES and press OK again.
4. Move the joystick fully to the right, so that the input is 10 V. Select JoySet-R, press OK, select YES and press OK again.
5. Set the lower limit of the outputs with PWM min: change the value with UP and DOWN and confirm with OK. The value runs from 0 (0 % duty cycle) to 4095 (100 %).
6. Set the upper limit of the outputs in the same way with PWM max.
7. If required, set the rise and fall rate with Ramp-Up and Ramp-Down, the PWM frequency with PWM Freq and the dead band around the centre position with Joy-hyst.
8. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x052

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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