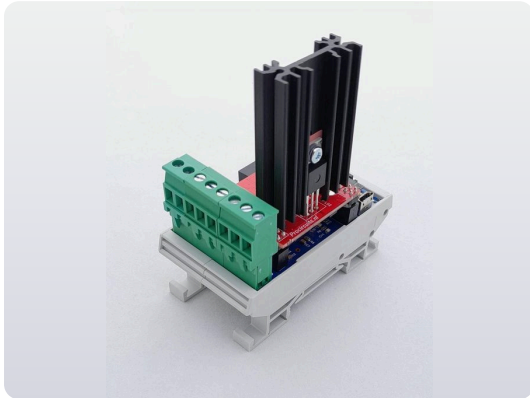


Isolated digital input to PWM signal conditioner, high-side switched, with display

Article number PR181-X075



The PR181-X075 uses one galvanically isolated digital input to drive a high-side switched PWM output of up to 4 A. The input signal is 20 to 50 V. When the input is active, the output gets the duty cycle from the Input 1 PWM out menu; when it is not active, the duty cycle from Output PWM min (both 0 % as delivered). Rise and fall rate and PWM frequency are set on the display.

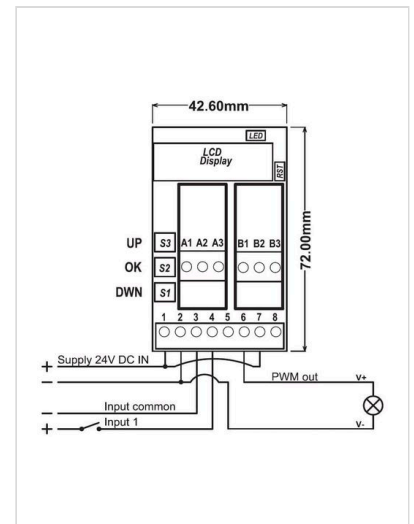
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 V DC
Input	20 to 50 V digital input, on terminal 3 (minus) and terminal 4 (plus)
Output	PWM, high-side switched, on terminal 6; duty cycle with active and inactive input adjustable
Isolation	Digital input galvanically isolated
Setup	Display with UP, OK and DOWN buttons
Output current	4 A max.
PWM frequency	3 Hz to 10 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	Duty cycle with active input 0 %, minimum duty cycle 0 %

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	Common minus of the isolated input
Terminal 4	Digital input 1 (plus)
Terminal 5	Not used
Terminal 6	PWM output, high-side switched (to the load plus)
Terminal 7	Supply plus for the PWM output, connect to the supply plus
Terminal 8	Not used



Setup

1. Connect the module according to the terminal table, with the supply plus on terminal 1 and terminal 7 and the input signal on terminals 4 and 3, and switch on the supply.
2. In the menu, select Input 1 PWM out and use UP and DOWN to set the duty cycle the output gets when the input is active. Confirm with OK.
3. Select Output PWM min and set, in the same way, the duty cycle the output gets when the input is not active. This value can never exceed Input 1 PWM out.
4. If required, set the rise and fall rate with Ramp up and Ramp down, and the PWM frequency with PWM frequency.
5. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x075

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