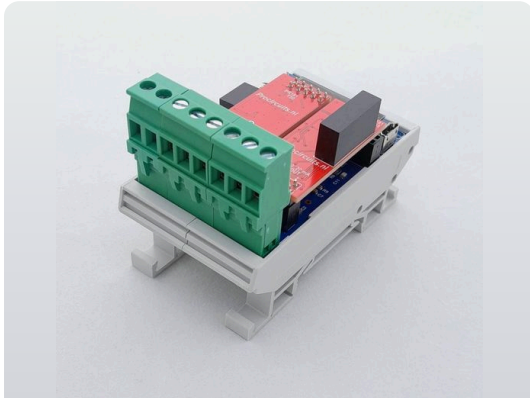


PWM to 4-20 mA signal conditioner, isolated, with display

Article number PR181-X008



The PR181-X008 converts a PWM signal into a 4-20 mA signal. Input and output are galvanically isolated from each other and from the supply, so the module reads both high-side and low-side switched PWM signals without ground loops. DIP switches S1 and S2 select a PWM level of 3.3, 5, 12 or 24 V; limits and rise and fall rate are set on the display. As delivered, 0 % duty cycle gives 4 mA and 100 % duty cycle gives 20 mA, for a 24 V PWM signal.

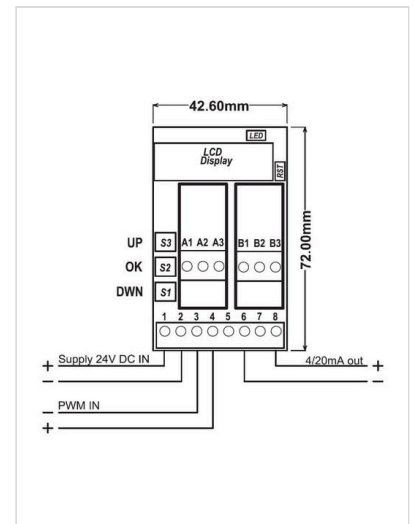
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	9 to 30 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	4-20 mA as delivered, 21 mA max.; lower and upper limit adjustable
Isolation	Input and output galvanically isolated from each other and from the supply
Setup	Display with UP, OK and DOWN buttons; DIP switches S1 and S2 for the input level
PWM frequency	100 Hz to 5 kHz
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	24 V PWM signal; 0 % duty cycle = 4 mA, 100 % duty cycle = 20 mA

Connections

Terminal 1	Supply plus
Terminal 2	Supply minus
Terminal 3	PWM input minus
Terminal 4	PWM input plus
Terminal 5	Not used
Terminal 6	Isolated output common
Terminal 7	Isolated 4-20 mA output (plus)
Terminal 8	Not used



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: 24 V = S1 off, S2 off; 12 V = S1 off, S2 on; 5 V = S1 on, S2 off; 3.3 V = S1 on, S2 on.
3. Connect the module according to the terminal table and switch on the supply.
4. Bring the input to its lowest value, for example 0 % duty cycle. In the menu, select JoySet-L and confirm with OK; then select JoySet-M and confirm with OK.
5. Bring the input to its highest value, for example 100 % duty cycle. Select JoySet-R and confirm with OK.
6. Set the lower limit of the output with PWM min and the upper limit with PWM max: change the value with UP and DOWN and confirm with OK.
7. If required, set the rise and fall rate of the output with Ramp-Up and Ramp-Down.
8. Go to the SAVE menu to store the new settings.

More information, price and lead time: www.procircuits.nl/en/products/pr181-x008

ProCircuits B.V. · Van Nijenrodeweg 903, 1081 BJ Amsterdam, Netherlands · +31 6 45 77 55 93 · willem@procircuits.nl ·

Chamber of Commerce (KVK) 87009870

We supply businesses only.