

Reverse Voltage Motor Controller

Manual V1.0.4



!!! Warning !!!

DO NOT return the item to the original retailer. Contact the support for any problem with the item or item delivery: shop@timers.shop

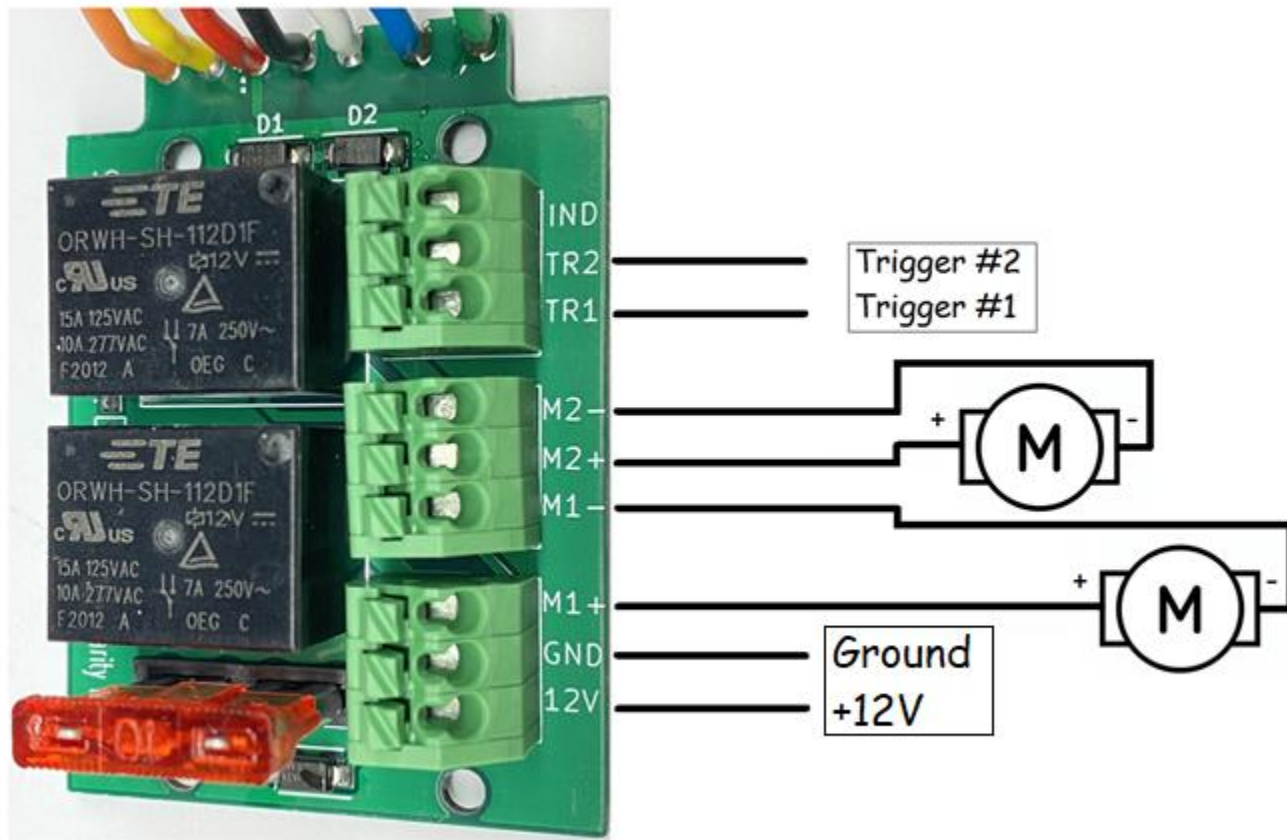
Reverse voltage motor controller is designed to operate DC electric motors, rotating them forward and in reverse. The controller has two trigger inputs and five modes of operation.

Supply voltage: 10-14 V

Current capacity: 10 Amp

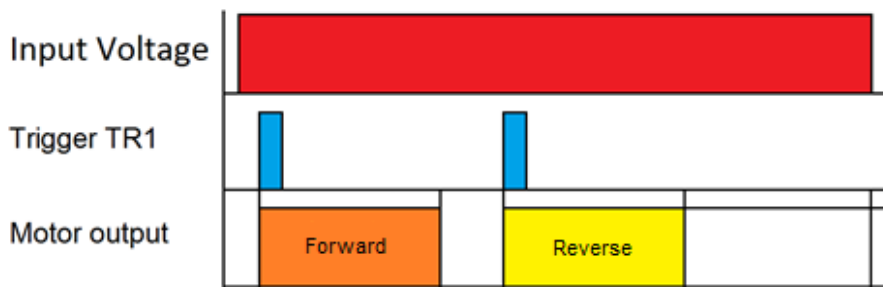
Installation

Please adhere to the below diagram for controller connection instructions. Prepare the wires by removing approximately 1/4 inch of insulation from their ends. To secure the wires, depress the tab on the green quick-connector block and insert the prepared wires. Make sure to establish connections for both the ground and the +12 V supply. The connection of Trigger #1 and/or Trigger #2 should be determined based on the desired mode of operation.

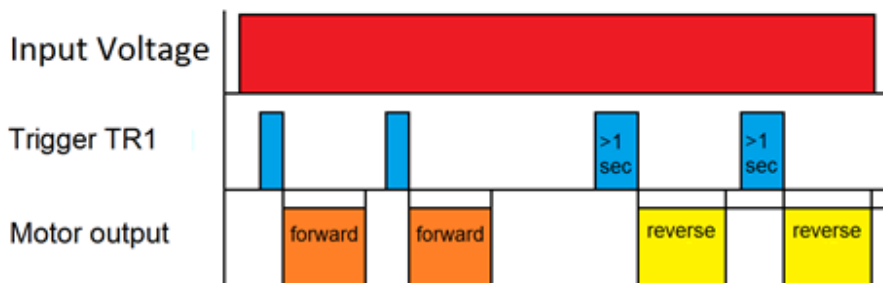


Modes of operation:

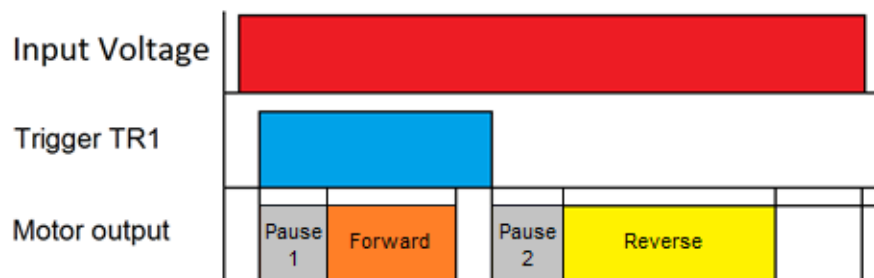
#1 – Upon applying the trigger, the motor initiates rotation in the forward direction for a pre-set duration. Subsequent activation of the trigger will reverse the motor's direction.



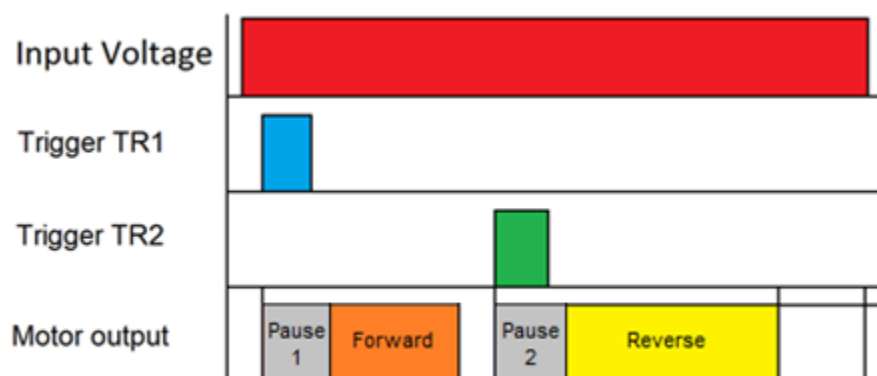
#2 – Initiating the trigger for a brief period prompts the motor to rotate forward. However, if the trigger is engaged for more than one second, the motor will rotate in reverse.



#3 – Upon activation of the trigger, the motor rotates in a forward direction. Following the deactivation or removal of the trigger, the motor switches to a reverse.

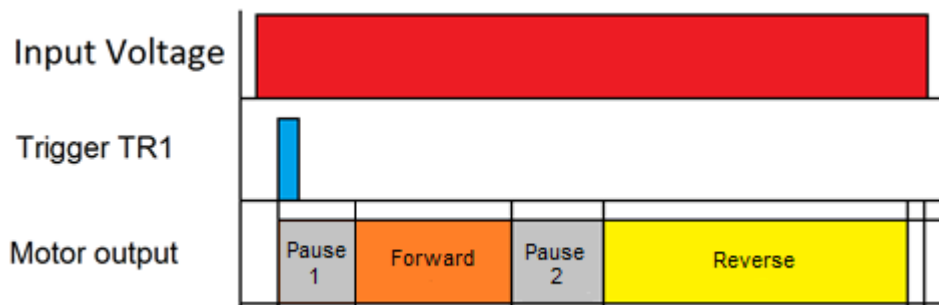


#4 – The application of trigger TR1 propels the motor into a forward rotation. The activation of trigger TR2 instigates a reverse rotation in the motor.



#5 – On initiating trigger TR1, the motor begins to rotate forward, and then progressing to rotate in reverse.

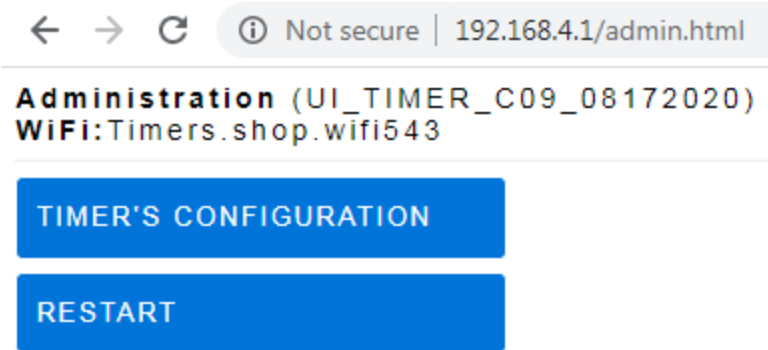
Take note: Trigger TR2 launches the above described function in a 'ONE-SHOT' mode. Following activation, the module will require a power cycle (power off and then power on) to be triggered again by TR2.



Timing adjustment and testing

To adjust the function and timing for the forward and reverse rotations, initiate the controller's Wi-Fi functionality using the following steps:

1. Short two contacts on the controller board located on the opposite side of the connection terminals. The controller's internal blue LED will light up when Wi-Fi is enabled.
2. Using your computer or phone, scan for accessible Wi-Fi networks.
3. Establish a connection between your device (computer/phone) and the wireless network labeled "Timers.shop.wifixxx."
4. Launch your web browser, input the IP address 192.168.4.1 into the browser's address bar, and then press enter or click the connect/go button.
5. Upon successful connection, a menu will appear for configuration:



6. Click on **TIMER'S CONFIGURATION**.

A screenshot of a web form titled 'Timer Settings'. The form has a back arrow icon in a box to the left of the title. Below the title, there are several input fields. The first is 'Firmware:' followed by an empty text box. The second is 'WiFi ID:' followed by a text box containing 'wifi417'. Below these, there is a section for 'Motor control:' which includes a 'Function :' dropdown menu showing '5' with a downward arrow. Below the dropdown are four text boxes for durations: 'Forward duration: 3.00', 'Reverse duration: 1.00', 'Pause 1 duration: 3.00', and 'Pause 2 duration: 1.00'. At the bottom of the form is a grey 'SAVE' button.

7. Select function, forward, reverse, pause 1 and pause 2 durations. Click Save.
8. Test the configuration by applying the trigger.
9. Once satisfied, turn off and re-apply power to test.