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MULTI-TIMER

Multifunction Timer Manual

Specification:

Power supply: 6-30Vdc or Micro-USB 5V.

Current: 20mA standby, 50mA max.

Triggering: Positive, negative, or from a different power supply.

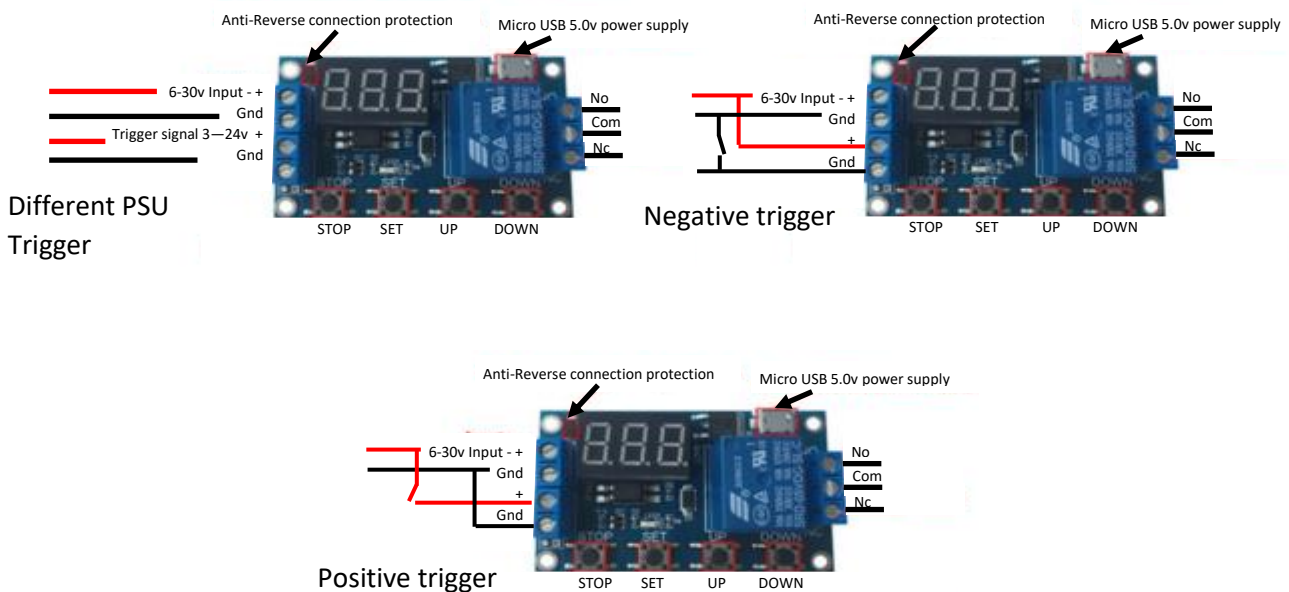
Relay: One clean relay, C, N.O, N.C. 10A @ 250Vac.

Dimensions: 63 x 38 x 20mm

All settings saved after power off.

Time settings: 1-999 milliseconds, 1-999 seconds, 1-999 minutes.

Wiring



Key:

Relay OPENS = N.O

Relay CLOSES = N.C

OP=Time relay opens for

CL=Time relay closes for

LOP=Number of cycles. - - - = infinite cycles

Modes:

1. **PULSE ON.** When triggered, the relay OPENS for the set OP time, and then CLOSES, with the following variations:

1.1 Triggering again while the timer is counting down has no effect.

1.2 Triggering again while the timer is counting down restarts the timer.

1.3 Triggering again while the timer is counting down cancels the timer and the relay CLOSES.

1.4 Trigger is not required. When powered up the relay OPENS for the set OP time.

2.1 **DELAY ON.** When triggered, the relay stays CLOSED for the set CL time, then OPENS for the set OP time. When complete, the relay CLOSES. Triggering again during the timing has no effect.

2.2 The same as 2.1, but triggering again during the timing restarts the timer.

2.4 When powered up, relay stays CLOSED for CL time, then OPENS permanently.

3.1 **CYCLE ON/OFF DELAY.** When triggered, the relay OPENS for OP time, then CLOSES for CL time, and cycles between opening and closing. The number of cycles can be set (LOP). Setting ' - - - ' means infinite cycles. Triggering again closes the relay and cancels the timer.

3.2 Same as 3.1, but no trigger is required, relay OPENS when timer is powered up and cycles automatically.

4. **DELAY OFF.** When triggered the relay OPENS, when the trigger is removed, the relay CLOSES after the OP time. Triggering again while the timer is counting down restarts the timer.

Programming

1. Press & hold SET button for 2 seconds.
2. Press UP or DOWN arrows until desired mode is displayed.
3. Press SET button.
4. OP will flash once and then you can set its value using the UP & DOWN buttons. Holding the buttons increases or decreases the number more quickly.
5. Press the STOP button until the correct units (milliseconds, seconds or minutes) are set, according to the dots shown in Setting Units section below.
6. When the time and units are set correctly, press SET.
7. Repeat steps 4-6 for CL and LOP if required.
8. Press & hold SET button for 2 seconds to confirm settings.

Setting units (this is done during programming)

XXX. 1 dot after 3rd digit. Timing range: 1 ~ 999 seconds.

XX.X 1 dot after 2nd digit. Timing range: 1 ~ 999 milliseconds.

X.X.X. 3 dots. Timing range: 1 ~ 999 minutes.

Press SET button for 0.5 seconds to view current settings.

Sleep Mode

1. C-P sleep mode. After 5 minutes without pressing any buttons, the digital display turns off. All functions run normally.
2. O-d normal mode. The digital display is always on.

To change mode. Press & hold STOP button for 2 seconds. When released, the current mode will flash on the display (C-P or O-d) and then return the normal display.

Turn off relay

Pressing the STOP button can be used to close the relay in an emergency.

1. ON: Normal mode.
2. OFF: Turns the relay permanently off (closed).

Each time you press the STOP button it will toggle between ON and OFF, the display will flash to show which mode is set.