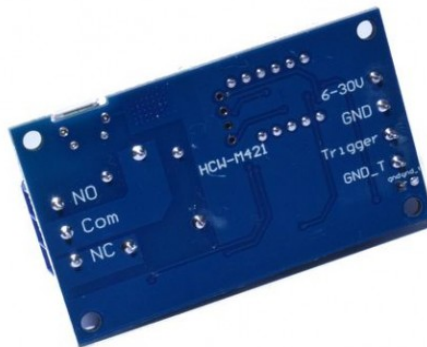


# Digital Timer Module

Technical Manual Rev 1r0

---



## Specifications:

- Model number: HCW-M421 Timer Module
- Power Input: 6 - 30 VDC
- Micro USB Alternate Power Input (No Actual USB Function)
- Opto isolated trigger Input
- Output Ampacity: 5A @ 220VAC
- LED Digital Display

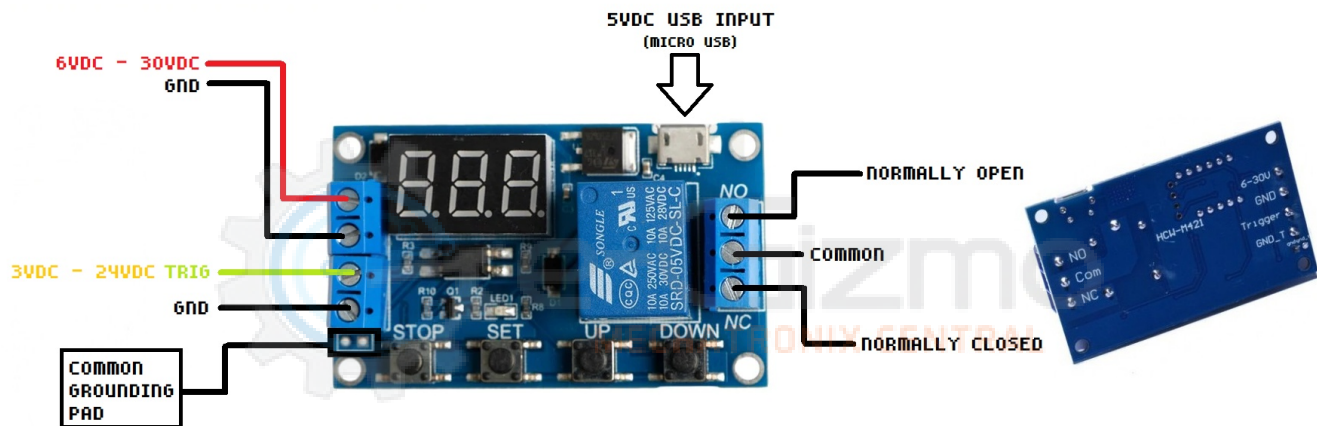


Figure 1: DIGITAL TIMER MODULE ILLUSTRATION OR DIAGRAM

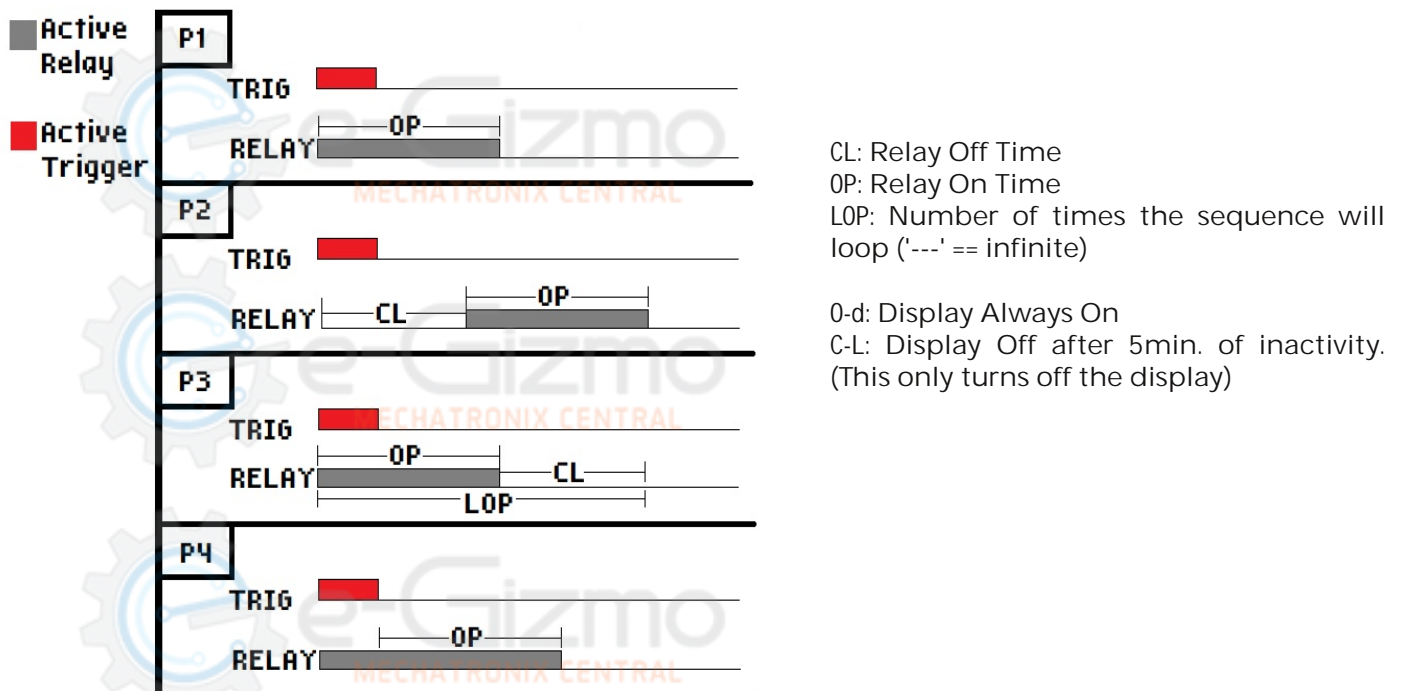


Figure 2: SIGNAL DIAGRAM FOR TRIGGER

**TIMER MODES**

**Trigger On**

**P 1.1**

- The signal is accepted only once, Starts the OP timer with the relay ON.

**P 1.2**

- The first signal starts the OP timer with the relay ON. The second signal resets the timer, it doesn't turn off the relay.

**P 1.3**

- The first signal starts the OP timer with the relay ON. The second signal resets the timer, turns off the relay.

**ON Delay**

**P 2**

- The signal starts the CL timer and the relay in the OFF state, then starts the OP timer and the relay in the ON state and turns off again.

**Interval (ON-OFF)**

**P 3.1**

- The first signal starts the cycle. The second signal stops the timer and turns the relay off. The cycle time is set by the (LOP) parameter.

**P 3.2**

- The cycle starts when the device powers ON. The cycle time is set by the (LOP) parameter.

**OFF Delay**

**P 4**

- OP timer starts with the relay ON when signal is removed. the timer resets when signal is restored.

**Button Functions**

**"STOP BUTTON"**

**Short press:**

**Idle State:**

Emergency stop, it disconnects the relay from the timer. (The display returns "ON" and "OFF" when pressed.)

**Setting time parameter:**

When changing the time parameter, this changes the parameter to be in milliseconds (x x x.), seconds (x x. x), or minutes (x. x. x)

**Hold:**

**Idle State:**

Changes the display mode. (O-d) for the display to be always on and (C-L) to turn off the display automatically after 5 minutes when not in use.

**Setting Timer Mode:**

Change the CL, OP, and LOP times manually.

**"SET BUTTON"**

**Short press:**

**Idle State or Setting:**

Select, OK, or proceed.

**Hold:**

**Idle State:**

Change the Timer Mode.

**Setting Timer Mode:**

Saves the parameter.