

Sequential Timer Information

Functional description

The purpose of this unit is to select one of sixteen outputs in sequence and output a trigger pulse on the selected output for the duration as set by switch SW1.

The trigger pulse will be used to trigger a Triac. 50Hz input is used to synchronize the trigger pulse with the mains frequency, triggering the triacs at zero cross over.

The speed or frequency that the outputs are switched from one to the next is set by switch SW2.

The number of outputs selected is determined by installing a link in LK1 or LK2, I.e. If a link is installed at T5 output, the counter is reset after the trigger pulse for T5 and the timer restarts with output T1.

An expansion board is available with 8 more outputs, making it a 16 way Sequential Timer.

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Specifications

The 8 way Sequential Timer above can be set to 110V or 220V. Install LK5 for 220V or LK6 for 110V. The main power is connected to L (live) and N (neutral) and C (common) is connected to the common rail for all the output loads. The other side of the load is connected to terminal 1 to 8 respectively.

LK1 is used to select the number of switch positions, 1 to 8. If the expansion board is fitted the unit becomes a 16 way timer and LK2 is used to select the other eight positions, 9 to 16. When the expansion board is fitted, connect the neutral (N) and common (C) from the top board to N and C respectively on the bottom board.

SW1 is used to set the duration of the output, 100 ms to 800ms, in 100 ms increments and LK3 doubles the time of this setting (200ms to 1.6sec).

SW2 is used to set the frequency of the timer, 1 sec to 15 sec's in 1 sec increments and LK4 doubles the time of this setting (2 to 30sec).

If SW1 and SW2 are both set to zero, the timer is stopped.

The settings of switch SW1 and SW2 is dynamic. I.e. the duration and frequency changes as they are changed.

The switches are not only be read on power up, but all the time.

Any changes in the settings will only be reflected in the next cycle of the timer.

The Triac load current is 4Amp

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