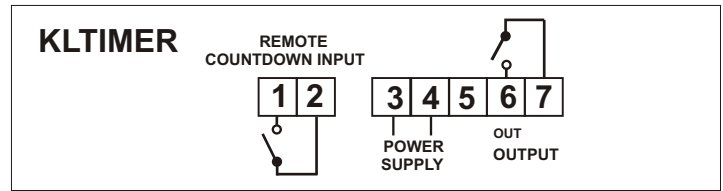


Wiring Diagram



Description

The timer controller acts on a relay connecting it for a programmable time interval.

Timer features include soundwarning when the countdown expires, count units in seconds or minutes (seconds are allways indicated by a blinking led), countdown abort by the keyboard, remote countdown input, manual control to switch ON/OFF the output, and programmable maximum interval limit.

Model references

The model reference is given by: KLT11TIM - WY.

Where each suffix can take the following values:

W Display Color	R=Red, G=Green, B=Blue
Y Supply Voltage	230=230Vac, 110=115Vac
	24=24Vac/dc, 12=12Vac/dc

Installation

NOTE: Unit must be mounted away from vibration, impacts, water and corrosive gases.

- Cut hole in panel 71 x 29 mm (2.80 x 1.14 inches)
- Apply silicone (or rubber gasket) around the perimeter of the hole to prevent leakage.
- Insert unit into hole of panel.
- Slide removable fitting clips onto unit from the back until secure to panel.
- Wiring diagram is displayed on the top of the unit

Maintenance, cleaning and repair

After final installation of the unit, no routine maintenance is required.

Clean the surface of the display controller with a soft and damp cloth. Never use abrasive detergents, petrol, alcohol or solvents. All repairs must be made by authorised personnel.

Technical Data

Supply voltages

115Vac±10%, 230Vac±10%, 24Vac/dc±10%, 12Vac/dc±10%

Supply powers

4VA (230V)

Storage temperature

-20°C to 80°C (-4 to 176°F)

Operating temperature

0°C to 70°C (32 to 158°F)

Time resolution

1 sec

Displays

3-digit

Output

SPST Relay Resistive load 16A
1HP 240Vac -- 10FLA, 60LRA 240Vac

Dimensions

Front 77 x 36 mm (3.03 x 1.42 inch)
Depth 62 mm (2.44 inch)

Front Protection

IP64

Back Protection

IP20



List of parameters

Label	Description	Unit	Range
Ut	Time unit	Option	Min/Sec
Top	Maximum time interval	Time unit	1 to 999
Bc	Buzzer	Option	On/Off
Man	Manual	Option	On/Off

Parameter description

Ut = Time unit. Minutes (Min) or Seconds (Sec).

Top = Maximum limit for the time interval.

Bc = Sound warning when the countdown expires or it is stopped by the user.

Man = Manual control to switch On/Off the relay output by means of the SET key.

Functional description

While the timer is stand by the relay output is open and OFF is shown on the display.

To start the countdown by pressing a key:

- Press SET. "0" will be shown on the display.
- Press UP to DOWN to set the time interval.
- Press SET to enter the value and start the countdown.

To start the countdown by remote countdown input:

Switching on a free voltage contact in the remote countdown input, a countdown with the interval programmed in **Top** parameter is started. If the remote countdown input is switched on when a countdown is already running, a new countdown is started with the interval programmed in **Top** parameter.

When the countdown starts the relay output is closed and the message "run" is displayed. When the countdown expires, or it is stopped by the user by pressing the SET key for one second, the relay is open again and the message End is shown (if **Bc** parameter is set to On a double beep sounds as well).

Setting the **Man** parameter to On value, we have manual control to switch On/Off the relay output by means of the SET key. In this case ON/OFF is show in the le display according to the relay state and a point in the led display is illuminated continuously to indicate the manual mode. The manual mode and the relay state is memorized internally, in this way if the instrument is turning Off and then turning On the manual mode and the relay state are again applied.

Parameter programming

- Press SET for 8 seconds. The first parameter label **Ut** will be shown.
- Move to the desired parameter with the UP and DOWN Keys.
- Press SET to display the parameter value.
- The value can be modified with the UP and DOWN arrows. Pressing UP and DOWN keys at the same time the parameter value is reset to its minimal value.
- Press SET to enter the value.
- Repeat until all necessary parameters are modified.
- To quit programming mode press SET and DOWN at the same time (otherwise it will exit automatically after one minute).

The parameters can be set to their default values by turning Off the controller and turning it On again while keeping the SET key pressed. The default values are the following:

Ut = Minutes

Top = 15

bc = Yes

Man = OFF



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