

# KG316T Micro-computer time switch

## The guide for usage

- Please read this guide before using, ensure to use this product correctly!
- After reading, please keep this guide.

### Functions & Applications

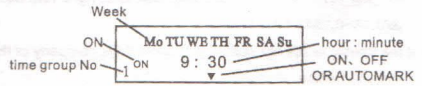
Micro-computer time control switch could connect and break the power of all kinds of electric appliance. The control items includes road lights, neon light and advertisement light, production equipment and radio & TV setting which is required to open & stop.

### Tech date

- Standard operating power 220V/50Hz
- Appli cable power range 160-240V
- Switch volume resistive load 15(30)A, inductive load 10(25)A
- Power consumption
- The time control range 1 min 168 hours, weight 240g
- 8 groups of switch time, manual/automatic operation
- Counter time mistakes < 0.5 second/day
- environment temperature -25~60
- relative humidity < 95%
- 120X74X58mm
- Outline dimension



display screen show symbol explanation



## usage introduction

### about the keyboard

Unlock instructions: press the "RESET/RECALL" button for 4 seconds, and the "a" character will disappear in the lower left corner of the display. At this point, the control switch is unlocked. If not, the timer says no locks. If you complete the setup, you can press the "RESET/RECALL" button for four seconds to lock.

### Time Setting

1. Firstly, please make sure that the keyboard in the state of on, and then press Clock to check whether the time on the screen correspond with the present time or not. If not, please press the week, retime, minute to adjust the time to the current.
2. Press Timer, 1ON will appear in the left down on the left down of the screen (it means the first ON time). Next, press minute, hour to input the required time of ON.
3. Now press Timer, 1OFF appear in the left down of the LCD screen. Next, press week hour minute to input the required time of ON
4. Again press Timer, 2ON & 2OFF ... 8ON, 8OFF will appear on the left down. After reference to the steps 2&3, the each time of On & Off could be set.
5. it must press cancel/reset if the 8 groups of switches are not required everyday. So the rest of groups of time disappear, then the design of will be in the screen.
6. after timer setting, please press, the screen will show the current time. unday.

7. Press Manual/auto to move the "▼" in the down screen to auto. Now timer switch can automatic connect and break the circuit according the time setting. If it temporary needs to switch on or off the circuit during work, please press manual/auto to make "▼" remove correspondingly to the place of on/off.
8. Press timer, next press week. It could be set in eight state of on & off. E.g. the same or different for everyday, the same from Monday to Friday; the same from Monday to Saturday, the same Saturday and Sunday.

- Example 1: a kind of electronics is required to connect at 19:00 everyday, disconnect next day at 08:00
- A. according to the steps 1,2, the screen is as the diagram 1a
  - B. according to the steps 3, the screen is as the diagram 1b
  - C. according to the steps 5, the screen is as the diagram 1b, 2<sup>ON</sup> & 2<sup>OFF</sup> ... 8<sup>ON</sup>, 8<sup>OFF</sup> will appear in the screen as ...
  - D. Again press timer to check whether each group of On & OFF time is same as required. If not, please do as from AC
  - E. According to steps 6,7, take "▼" to automatic position.

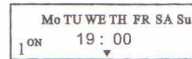


Diagram 1a

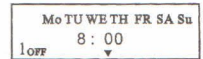


Diagram 1b

- EXAMPLE 2: one electronics is required to connect at 9:30am from Monday to Friday, disconnect at 16:30.
- Follow the steps AE to make the screen on as diagram 2a, 2b.

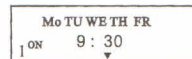


Diagram 2a

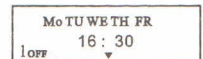


Diagram 2b

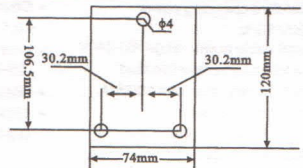
## Trouble shooting

- If the switch fails to connect or break the circuit at the programmed time it is likely that the **weekday** is not correctly set. Check or readjust it according the instructions in **time setting**.
- If it is sure that **connect and break time** are correctly set and the switch connect or break the circuit in the incorrect time, it is likely that the other time groups are deleted. Delete them according to time setting. (Note: --:-- signifies that the time groups are deleted, while 00:00 does not).
- If the switch still could not run smoothly after checking the above two cases, it is likely that **manual/automatic** has been touched manually. Check the code of **on, auto, off** and adjust it in the state of present time, and then adjust it back to automatic position.
- In case of the switch still could not function, open the safeguard cover (terminal cover) to check if the fuse tube is all right. Replace it a new one (0.1A~0.15A) if it is broken.
- If the trouble is still not settled yet, contact the company or the native distribution office.

## Attentions

- The switch is not to be used in the equipments that will cause life damage or great social reaction if the device fails to function (e.g. medical apparatus, large-scale equipment, etc.)
- Enough residual values on its performance should be provided if the switch is to be used in equipment that will cause property damage in case of the device being out of action (e.g. large-scale heating machine, freezer, etc.) and safeguards as double circuit, etc should also be adopted.
- The user should repair, dissect, or transform the switch, or else electric shot, fire, or fault may occur. Such operations should be submitted to the distribution office or unit that in charge of engineering.
- Don't touch the terminals when power is on.
- The ambient environment of the switch should be dampness, corrosion free, without long-duration sun light, or in the gas that has high metal content.
- Keep it from oil and water.

installation dimension



## Wiring pattern

### 1. Direct control

This pattern is adopted when the appliance to be controlled is supplied in single phase model and its power consumption is less than the rated value of the switch, (resistive load 25A, sensitive load 20A). Its wiring method see Diagram 1.

### 2. Single-phase capacity enlarging

The pattern is adopted when the controlled appliance is supplied in single phase model while its power consumption is above the rated value of the switch (resistive load 25A, sensitive load 20A). In this

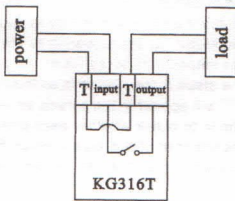


Diagram 1

case a AC contactor that is larger than the appliance in its power consumption should be used to enlarge the capacity. Wiring method see Diagram 2.

### 3. Three-phase type

The pattern is adopted when the controlled appliance is supplied in three phase model and a three-phase AC contactor is needed.

The wiring pattern of the contactor (the voltage of its coil AC220V, 50Hz), see Diagram 3.

The wiring pattern of the contactor (the voltage of its coil AC380V, 50Hz), see Diagram 4.

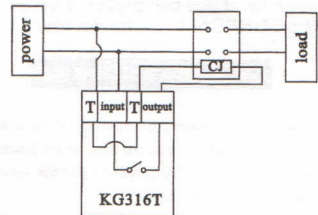


Diagram 2

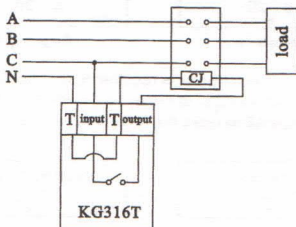


Diagram 3

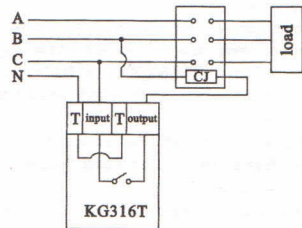


Diagram 4