

KG316T Time Switch

User Manual



□ Please carefully read this User Manual before installing and operating the product. and keep this manual properly for future reference

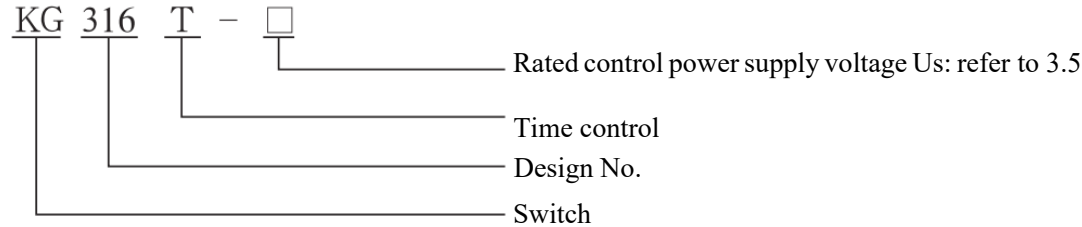
1. Overview

1.1 Scope of Application

It is suitable for AC 50/60Hz control circuit with the voltage of 380V and below as a delay timing element to turn on or off the power of various control circuits at a predetermined time, suitable for street lights, neon lights, advertising sign lights, radio and television equipment and various household appliances.

Standard: GB/T14048.5

1.2 Model Definition



1.3 Normal Working Conditions and Installation Conditions

1.3.1 Working environment: the altitude does not exceed 2000 meters; the ambient temperature is not higher than +40°C and not below -5°C; the rated control power supply voltage variation range of the rated control power supply is 85%-110% of the rated voltage; Installed in places where there is no medium without harsh vibration or explosive hazard or the medium does not contain gas or conductive dust that causes metal corrosion or damage to the insulation free from the rain or snow erosion.

2. Structural Features

This time switch has an eight-bit microprocessor chip that is directly packaged on the PCB board; the chip components are used peripherally, featuring with surface mounting, LCD display, and high-power relay output; its battery is replaceable.

3. Technical Features

3.1 Rated insulation voltage U_i : AC380V;

3.2 Rated impulse withstand voltage U_{imp} : AC1.5kV;

3.3 Each rated operating voltage U_e /rated operating current I_e under the usage category:

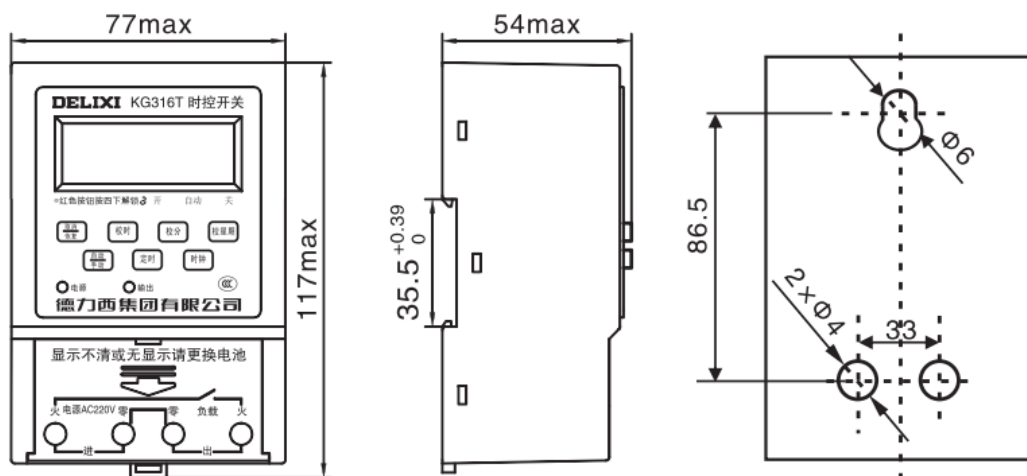
AC - 15 U_e / I_e : AC240V / 3A; U_e / I_e : AC380V / 1.9A ;

3.4 Resistive current I_{th} : 10A;

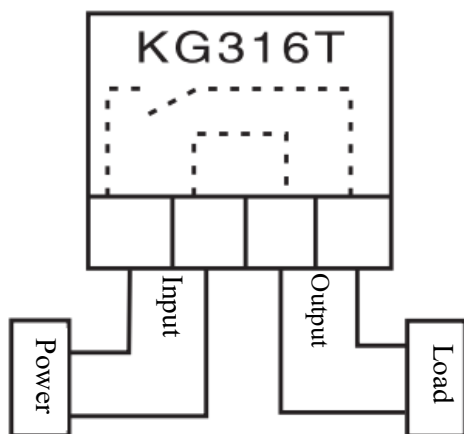
- 3.5 Rated control power supply voltage U_s : AC50/60Hz: 220V, 380V;
 3.6 Pollution level: 3;
 3.7 Enclosure protection grade: IP50;
 3.8 Contact capacity: 30A AC220V (resistive)
 3.9 The time error a day (24 hours) is not greater than ± 2 seconds;
 3.10 16 on and 16 off actions can be set every day;
 3.11 The switching time can be cycled by days or week;
 3.12 The maximum control time is 168 hours, and the minimum control time is 1 minute;
 3.13 Mechanical life: Greater than or equal to 1 million times;
 5.14 Electrical life: Greater than or equal to 100,000 times;
 3.15 Cooperation with the short circuit protective device (SCPD): The RT16-00, 10A fuse with “1” type basic protection is recommended as SCPD; that is, the relay shall not cause danger to the persons or equipment in case of short circuit, and it is not allowed to work continuously before the repair or replacement of parts. If the fuse protective device of the different model is selected, the original cooperation may fail.

4. Outline and Installation Dimensions, Wiring Diagram

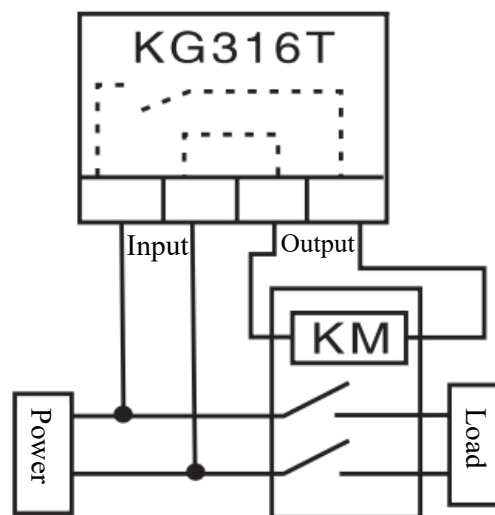
Unit: (mm)



Outline and Installation Hole Dimensions
 ((or use 35mm standard guide rail))



Direct control load wiring diagram



Connect AC contactor control load wiring diagram

5 Installation and Operation

5.1 The keyboard will be locked automatically if not operated within 15 seconds, and the mark " " is displayed in the lower left corner. 3

5.2 Unlock: Press the "Cancel/Restore" key 4 times to unlock the keyboard automatically, and the mark " " will disappear. 3

5.3 Press the "Week calibration", "Hour calibration", and "Minute calibration" respectively to adjust the Beijing time.

5.4 Set the ON/OFF time

Step	Key	Setting contents
1	Press "Timing" key	Enter the timing ON setting, with 1ON displayed
2	Press "Week calibration" key	To set the ON time for several days or one day or every day of a week.
3	Press the "Hour calibration" and "Minute calibration" respectively	To set the ON time
4	Press "Timing" key	To enter the timing OFF setting, with 1OFF displayed
5	Press "Week calibration" key	To set the ON time for several days or one day or every day of a week.
6	Press the "Hour calibration" and "Minute calibration" respectively	To set the OFF time
7	Repeat 1-6	Set the ON/OFF time for 2-16 times. If no timing is required, the "-- : --" will be displayed
8	Press "Clock" key	To end the timing setting and return back to the clock run state
9	Press "Auto/Manual" key	The lower part of LCD screen first display the "OFF" switch state, and then it is turned to the "Auto" state.

Chinese-English Comparison Table

English	Mo	Tu	We	Th	Fr	Sa	Su
Chinese	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday

Automatic Clock Calibration Function

In the unlocked state, first press and hold the "Cancel/Resume" key, and press the "Clock" key to display "7d=00" to enter the automatic clock timing function, meaning the time to be adjusted in a week; "7d=-xx" means automatic decreasing, and 7d=xx means automatic increasing; the maximum adjustment range is 28 seconds. Press the "Week Calibration" key to adjust the time to be adjusted a week, and press the "Clock" key to return. After setting, the time will be automatically increased or decreased at 00:31:30 every Saturday.

6. Operation Precautions

6.1 In order to prevent the contact from heating under strong current, please tighten the screws of the wiring terminal when connection.

6.2 It is strictly forbidden to install and disassemble the energized product.

6.3 Please replace the battery regularly to avoid insufficient battery power, resulting in unclear display or no display. (5# battery is used in the time switch)

6.4 The equipment that may cause major economic losses or personal safety is designed to make the technical characteristics and performance values have sufficient allowance, and safety measures such as double circuit protection should be adopted.

7 Часто встречающиеся неисправности и методы их устранения

7.1 Check whether the battery voltage is not too low or there is no power, please replace the battery.

7.2 The time switch works abnormally after power-on

Check whether the time switch time limit setting meets the required requirements, and whether the week is set in the "Auto" position.

7.3 The output indicator is on when the time switch reaches the set time, but the relay does not convert.

Check whether the power supply voltage is too low

7.4 Product burnt

Check whether the power supply exceeds the rated power supply voltage of the product and whether the power cord is connected correctly.

7.5 Troubleshooting

In case of failure of product, first cut off the power, and then connect the wire properly according to the wiring diagram; operate the product according to the Installation and Operation Instructions after checking that the line works normally. If the product has the poor quality problem, please contact the local dealer or our company.

8. Transport and Storage

The product shall be free from the rain or snow erosion or squeezing during storage and transportation. and shall be stored in well ventilated places where the relative humidity ($25^{\circ}\text{C}\pm 5^{\circ}\text{C}$) does not exceed 90%. the lower limit of the temperature is -25°C . and the upper limit of the temperature is $+55^{\circ}\text{C}$.

9. Unpacking and Inspection

Open the outer carton and check that there is the Operation Instruction in the packing box.

10. Ordering Notice

Please specify the model and specification of the product when ordering. For Any special requirement, please contact the manufacturer.

11. Company Commitment

Under the condition that users follow the use and storage conditions and the product are well sealed, within 24 months from the production date, our company will provide repair and replacement service free of charge for any damage or abnormal operation due to poor manufacture quality. A paid repair will be provided if the warranty period expires. For any damage due to one of the following situations, a paid repair will be given even if within the warranty period:

- (1) Improper operation, maintenance, or storage;
- (2) Modified without permission or improper repair;
- (3) Damage due to falling off or caused during installation after purchase;
- (4) Force majeure such as earthquakes, fires, lightning strikes, abnormal voltages, and secondary disasters;
- (5) The electrical life of the product exceeds 100,000 times; The mechanical life is more than one million times.

If you have any question, please contact the dealer or our company's customer service department.



Certificate

DELIXI ELECTRIC LTD

Name: Time Switch

Model: KG316T

This product passes the inspection and is allowed to be shipped.

Standard: GB/T 14048.4

Inspector: Check 01

Production date: See label on inner box

www.cn-delixi.com

The second edition of this manual was issued on Aug., 2021.