9160 LIGHT CONTROL+TIMER SWITCH

■(Generation) :
●9160 top products introduce new design concepts, adopt the latest international hardware and software technologies, and operate in a simple and understandable manner, allowing users to complete all Settings step by step according to the instructions in the display screen.
●Large LCD display screen, can directly display year, month, day, week, time, 24 hours a day or a week ON/OFF arbitrary Settings, LCD display part without external power supply.
●Simple four-button operation, in a conversational way to instruct the user to input the required Settings, without repeatedly reading the complex program setting instructions, as long as the operation once, yo will be understand how to proficient.
●Manual ON/OFF is the output state (once effective) function, permanent ON/OFF (permanent effective) function, allowing users to change the output ON/OFF state easily without changing the setting procedure when special and temporary needs to change the output state.
●Up to 44 programs can be set within 24 hours or a week, and the minimum set time interval is 1 minute。
●In the case of external power supply, the lithium battery stored in the timer can also maintain the timer use for about four years, its contact state cannot change, but the control program is normally changeover.
●There are six national languages (English, Portuguese, Italian, Spanish, German, French), you can choose and change the language。

■Main technical parameters :
●power : AC85-265V 50/60Hz
the other voltage specifications can be customized
●Power consumption: max 7.5VA
●Contact capacity : 16A 20A 25A
●Control the way : 9160 top 1way
●Timing benchmark: high quality quartz shock timing
●Timing accuracy: at room temperature (20℃) time difference ±1 second per day
●Maximum setting procedure: 44
●Minimum setting time: 1 minute
●Display: LCD display
●Operation keys: four operation keys plus a reset key
●Storage power: at room temperature (20℃), lithium battery can supply power for about 4 years
●Ambient temperature-10℃ ~ +50℃
●Storage environment temperature : -10℃ ~ +50℃
●Ambient Light: <2-120LUX (adjustable)

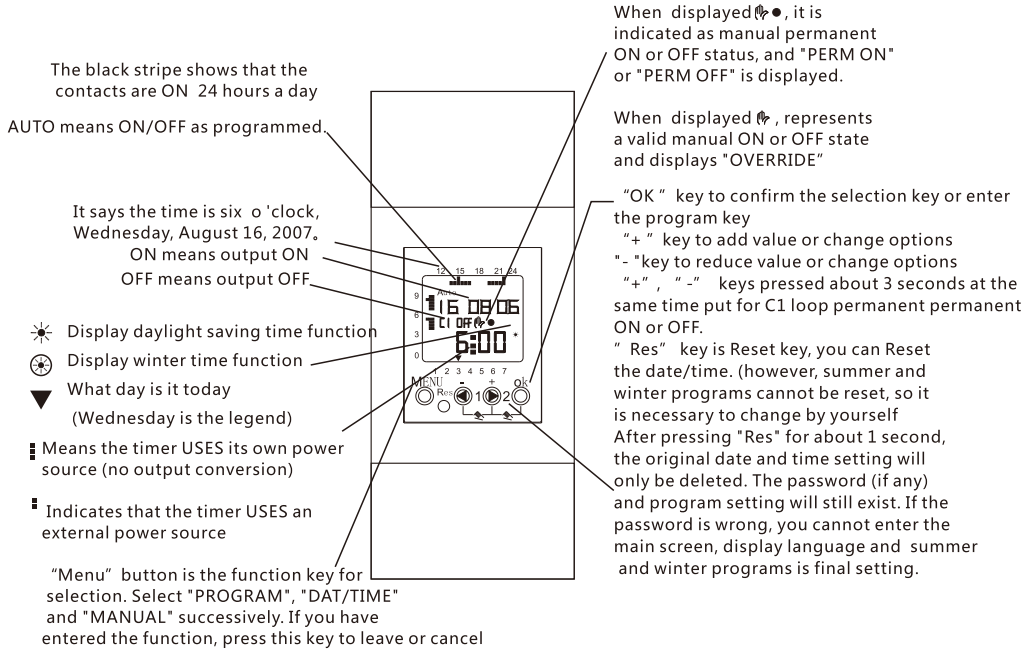


figure 1

●Setting operation display language :(see figure 2): When the customer USES it for the first time, please press "Res" to reset.
At this time, "ENGLISH" flashes on the display to indicate thatplease select the language to use, press The "+ "or "- "keys are used to change six languages, in order (English, Portuguese, Italian,
Spanish, German, French), (see figure 2), press "OK" to confirm the selected language。
●Set a date:
(1) after selecting the language, the display screen displays "2007"; Press the "+" or "-"Key to the year you want, press "OK" to confirm. Then the moon, the day,time,sec, The setting of time and minutes is the same as the setting year. (that is, after setting the month, press"OK" key to enter the
day, after setting the day, press "OK" key to enter, when settingPress "OK" toenter the score).

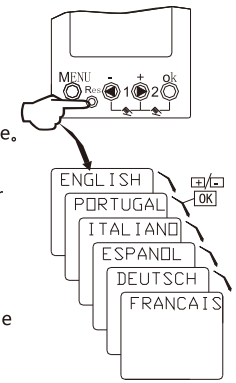


figure 2

(2) if only to reset the date, do not need to press the "Res" button to reset, just press the "Menu" button under the general screen two times (the display screen displays "DAT/TIM"), and press "OK" to confirm, enter the year, month, day, hour, minute setting and summer and winter time function selection. Year, month, day, hour and minute are set the same as (1) .
(3) after setting the MINUTE, press "OK" button to confirm, "SUM/WIN" (summer/winter) will display, because there are many areas in the world do not have summer and winter time, do not need to make this setting, please press "+" button to select "END", and then press "OK" button to confirm.
● summer and winter time function Settings
(1) under the general screen, press "Menu" button twice (the display screen shows "DAT/TIME"), and
then press "OK" button to enter the setting date function. If you do not need to change the setting,
press "OK" button continuously until the display screen shows " SUM/WIN", and then press "OK" button
to enter the summer and winter TIME function. (see figure 3)

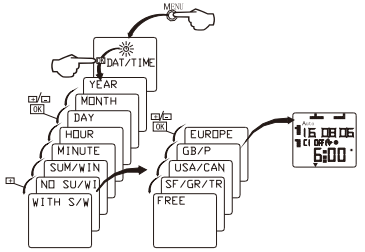


figure 3

(2)After entering the function, the display screen will display "NO SU/WI".Or "WITH S/W", use the "+" or "-" key to change the displayNO SU/WI ": NO need for summer/winter time function, press" OK"Key confirmation can exit the setting; Return to the general picture state;"WITH S/W" requires summer/winter time function, press "OK" button,The "EUROPE" option will be displayed after confirmation, at which point "+" or "-" can be used The change key (you can choose from the following 5 options), press OK when selected Confirmation.
1. "EUROPE" : summer/winter time in EUROPE;
2. "GB/P" : refers to summer/winter time in Great Britain;
3. "SF/GR/TR" : refers to summer/winter season in Mediterranean region;
4. "USA/CAN" : summer/winter time in the United States and Canada;
5. "FREE" : set summer/winter time by yourself.

● PROGRAM setting :(see figure 4)

(1) in the general picture, press the "Menu" button (at this time the display screenDisplay "PROGRAM"), and press "OK" to enter the ON/OFF time courseSequence setting function. After entering the function, the display screen will display "NEW PROG".

(2) Press "OK"key to enter, and "FREE 44" will be displayedAt present, 44 programs can be set (up to 44 programs can be set, each Set up a program to display the serial number of the program will automatically subtract 1). Press "OK" to confirm, and "TIME ON" will appear, indicating setting the contact ON stateChange the "+" or "-" key to "TIME OFF" to indicate setting the contact "OFF"State, press "OK" key to enter the time setting. Set first after entering Time (several minutes), please according to your requirements to typing the value, each completedStep should press "OK" key to confirm, and then set the week to "+" or"-" key to select your requirements, after the completion of the "OK" key, when the screen "COPY" appears to indicate whether to COPY this program to another date, To copy, press "OK"; to not copy, press "+"Select "STORE" and press "OK" to jump back to the screen "NEW PROG" goes on to set up the next program. "NEW PROG" goes on to set up the next program.

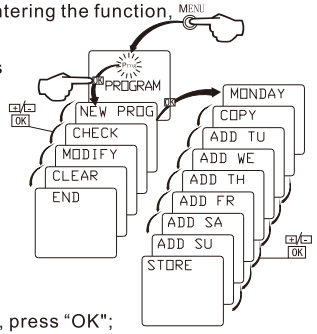


figure 4

(3) the next program setting with (1), (2) (if you need 44 program can be set according to this complete), after the completion of the program setting can press the "Menu" button to exit the program setting.

(4) program inspection and editing: in the display of "NEW PROG" by "+" or "-" key to select the required function, after selecting the "OK" key to confirm."

CHECK" means to CHECK the content of the existing program (CHECK daily ON/OFF time by week)

"MODIFY" means to MODIFY the program Settings

"CLEAR" means to CLEAR an existing program

"SINGLE" clear SINGLE program, "ALL" clear ALL program Settings

"END" means to END program Settings

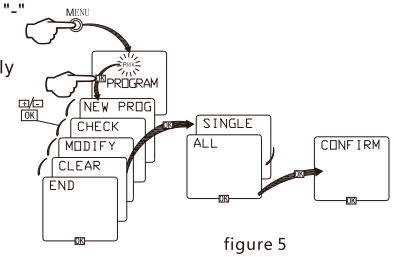


figure 5

(5) clear program Settings (see figure 5) :

To clear the PROGRAM, go to "PROGRAM" setting.

In general, press "Menu" to enter "PROGRAM" and the press "OK"key to confirm.

Press "+" or "-" and select "CLEAR"

Press "OK" to confirm. Select "SINGLE" clear SINGLE program Settings, or select "ALL" clears ALL program Settings.

● OVERRIDE:

That is, under the automatic control mode, the output state can be changed manually without affecting the automatic function of subsequent programs, which is "an effective output change function once".

(1) press "Menu" button continuously until the display screen displays "MANUAL", and press "OK" button to confirm entry.

(2) select "+" and "-" keys. When the display displays "OVERRIDE", press "OK" to confirm the access.

(3) to cancel once, press "Menu" until the screen displays "MANUAL", press "OK" to confirm entry, and the screen will display "CLEAR", press "OK" to confirm and cancel once.

● PERM ON/OFF:

That is, in the automatic control mode, the output state can be changed manually, without affecting the existence of the set program, but the output state is a persistent state, until manually changing the output state again can cancel this function.

(1) press "Menu" button continuously until the display screen displays "MANUAL", and press "OK" button to confirm entry.

(2) through the "+", "-" key selection, when the display "PERM ON/OFF", press "OK" button to confirm entry.

(3) to cancel permanent on/off, press "Menu" until the screen displays "MANUAL", press "OK" to confirm entry, and the screen will display "CLEAR" and press "OK" to confirm to cancel.

●Battery power saving function:

When using the built-in power supply, if there is a set date, time and procedures, or stay in the state of language screen, as long as no operation of any button within 10 minutes, the screen will automatically close, to save battery consumption, press any button will restore the original screen.

● set key lock (see figure 6) :

(1) in the general picture, press "Menu" button three times, and "MANUAL" will appear.The "MAN" at the top of the screen will continue to flash, press "OK" and then pass Select "+" or "-" key to enter "PIN" screen, select "PIN" screen, So if you press OK again you'll see "WITH PIN" or "NO PIN" WITH "+" Or the "-" key to select.

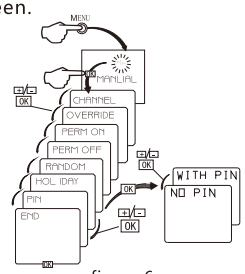


figure 6

(2) set password: appear "WITH" screen, press "OK" key to enter"PIN" screen, use "+" or "-" key to select 0 ~ 9 Arabic Number, press "OK" once after setting a number, a total of four digits.(example: if the password is set to 0000, press "OK" for 4 consecutive times to complete the setting),After setting up, be sure to remember the set 4-digit password. Pay attention to,When the password inadvertently forgotten, can only be returned to my company.

(3) after setting, it will directly jump back to the main screen. If you want to change any Settings, Be sure to enter the correct password before changing it. If the change setting is over 60 seconds Without any operation , you need to re-enter the correct password to can be change the Settings again.

(4) remove the password: enter the "PIN" screen press "OK" button, with "+" or"-" key select "NO PIN" screen, press "OK" key again to cancel the password, and the screen will be returned immediately.

Installation instructions: DIN RAIL installation

10 , other notice:

10.1, such as if 10 minutes is not set, the controller will be return of the time display, it is can according to the specifications into the method into the specified process.

10.2 , ON/OFF time setting, are allowed to make cross setting, should be set according to time order.

10.3 , please don't used in dust, corrosion gas, direct sunlight, rain places.

10.4 , please at used in rated voltage and the regulation of temperature, humidity, storage

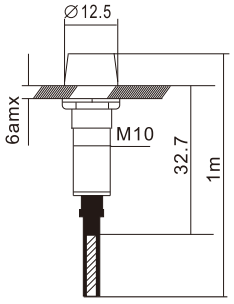
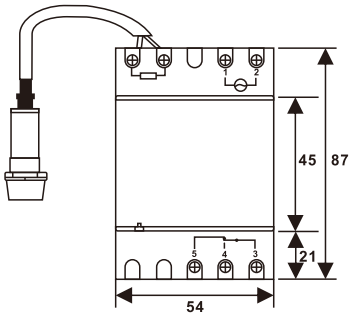
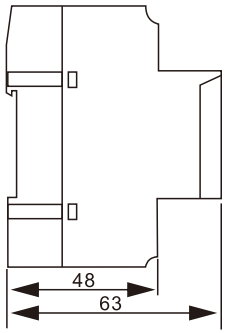
10.5 , the Scrap electrical products, it is not allowed processing with the living garbage, it is should be keep where there is facilities for recycling.

10.6 , In front of the photocell, it should be no obstruction affecting to accept natural light;

10.7 , In front of the photocell, it should be no swaying object. Ambient Light: <2-100LUX (adjustable)

10.8 , Don' t install the photocell under the light or in the place where the light will be irradiated to the photocell.

11，outline Drawing:



Photocell