TIMER

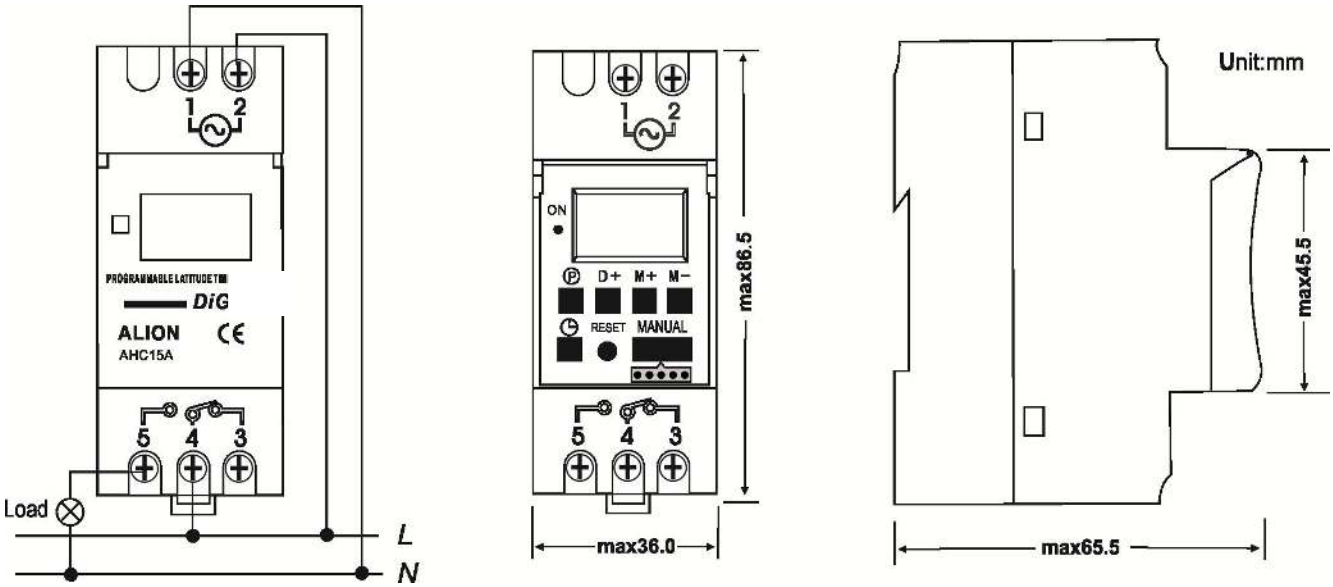
AHC15A-U	Multi-functional	ALION

- **With a number of domestic and foreign patents**
- **Can set 20 groups on-off program, cycle weekly or daily, and control on-off manually**
- **Can set 38 groups pulsation program, cycle weekly or daily, and control on-off manually**
- **With countdown function, time range setting within 1 s ~ 99min 59sec**
- **Can set Daylight Saving Time (1Hours) manually**
- **With the Data Card interface, the time program of the same time switch mode can be copied and written, such as real-time, daylight saving time, etc.**
- **Built-in lithium battery, and travel time as usual if power failure**
- **Can check accumulated operating time and action number**
- **High travel time accuracy with lock to prevent misuse**
- **Adapt to a variety of standard mounting rails**

Technical data

Rated voltage:	220VAC, 50Hz		**Power failure memory:**	3year
Voltage range:	85~110%		**Contact Form:**	1 group conversion
Number of on/off setting:	20 groups on/off program		**consumed power:**	≤ 5VA
Number of pulsation setting:	38		**Electrical life:**	10^5times
Contact load capacity:	Resistance load: 16A/ 250V AC COS φ=1 Inductive load: 10A/ 250V AC COS φ=0.6		**Mechanical life:**	10^7times
Countdown time:	1 sec- 99min59sec		**Work temperature:**	-10 ~ +50 °C (non-icing)
Contact resistance between contacts:	≤100mΩ		**Ambient humidity:**	35～85％RH
Insulation resistance between contacts:	≥100MΩ		**Storage temperature:**	-10 ~ +60 °C
Timing error(25°C):	AHC15A-U-16A: ≤±2 sec/day AHC15A-U-16A-H: ≤±2 min/year		**Weight:**	About130g
Minimum setting time:	ON/OFF program: minimum 1 min; Pulse program: minimum 1 sec			

Wiring drawing and external dimension



Setting method

* If there is no display for the first time, press "RESET".(press both "D+" and "H+" for 3 seconds, then the product will be turned off and all setting will be lost. But day correction parameters, accumulated operating times and action times are reserved.)

* In the setting process, if there is no operation within 30 seconds when the key will be locked, the current setting parameters will be retained, key operation is invalid, it can be unlocked by press "◷" for four times, and press 4 times "◷" to lock again, Any settings must be unlocked before the

operation;

1. Setting display time(present time)：

Step	Button	programming
1	Hold ◷and then press **H+**	HOUR increases on the screen, press **H+** continuously, the hours increase
2	Hold ◷and then press **M+**	MINUTE increases on the screen, continuously press **M+**, the minutes increase
3	Hold ◷and then press **D+**	Mark of WEEK moves on the screen, press **M+** continuously to choose the week

* The timer is 24 hour system when turned on, hold "◷" for 5 sec to convert to 12 hours system with "AM" showed on the upper left corner. Hold "◷" for 5 sec again to convert to 24 hours system and the "AM" on the upper left corner will be disappeared.

2.Timing settings (2.1,2.2 and 2.3 three functions can not be used at the same time)

2.1 20 groups setting of on/off function：

Step	Button	Programming
1	Press Ⓟ	Enter into timing ON setting (display 1 ON)
2	Press **H+** and **M+**	Set ON time, press **H +** to set the hour, press **M +** to set the minute
3	Press **D+**	Same setting every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA (if it is same every day, do not press **D+** and skip this step)
4	Press Ⓟ	Enter into timing OFF setting (displays 1 OFF)
5	Press **H+**,**M+**	Set OFF time, press **H +** to set the hour, press **M +** to set the minute
6	Press **D+**	Same setting every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA (if it is same every day, do not press **D+** and skip this step)
7	Repeat step 1-6	Set the ON/OFF time of 2nd to 20th groups(or press ◷ to exit)

a. The ON/OFF program group can not setting overlap but should according to the time sequence.(If setting same ON/OFF time after contact 15 seconds, will have ring bell function ect,)

b. When setting is finished, press Ⓟ to view the set number of ON/OFF and the time, it be modified follow the appropriate setup steps.

c. Press Ⓟ enter to the interface ON or OFF program, press "MANUAL" to clear the ON or OFF time of current group and then display "-- ： --".

2.2 pulsation function setting ("⎍" flashes on screen when opening)

Step	Button	Programming
1	Hold both **H+** and M+ for 3 sec	Enter into the pulse width setting, display as 0:00 and ⎍
2	Press **H+, M+** and ◷at the same time	Set the pulse width: min / s (max 59 min 59 sec)
3	Press both ◷and **Manual**	The pulse width setting is completed, the ⎍ on the screen flashes
4	Press Ⓟ	Enter into timing pulsation ON(Display 1 ON)(Press again for the second pulse time)
5	Press **H+**/**M+**	Set ON time
6	Press **D+**	Same setting every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA (if it is same every day, do not press **D+** and skip this step)
7	Repeat step 4-6	Set the pulsation time of 2nd to 38th groups(or press ◷to exit)
8	Press ◷	End the setting and ⎍ flashes on screen
*	Press both **H+** and **M+**	Exit the pulsation function, the display ⎍ will be disappeared

2.3 Countdown function setting ("d" displayed at bottom left corner of screen)

Step	Buttion	Programming
1	Hold both Ⓟ and ◷for 2 sec	Enter into the countdown setting, "d" displayed at bottom left corner, displayed as 0:00
2	press◷and **H+**/**M+** at the same time	Set the min and sec of countdown respectively（duration range：1sec~99min59sec）
3	Press **MANUAL**	Start the countdown function
4	Press Ⓟ	Halfway reset and wait to start the countdown again

5	Hold both Ⓟ and ◷for 2 sec	Exit the countdown setting, "d" at bottom left corner will be disappeared

3. Manual daylight saving time (DST) display time setting：

Step	Button	Programming
setting	Hold both **H+** and **M+** for 3 sec	The present time will increase 1hour(“1h” displayed at the bottom left corner of the screen)
cancel	Hold both **H+** and **M+** for 3 sec again	DST will be canceled and back to the present time

Note: This setting only set present time displayed. The ON/OFF time of program or pulsation has been set is not changed. If the ON/OFF program needs to run according to DST, set it in the setting program.

4. Automatic correction of time error daily("1d"display at bottom left corner of screen, this setting is only valid for models ≤ ± 2 seconds / day)

Step	Button	Programming
1	Press both **MANUAL** and Ⓟ	Enter into time correction, screen display：1d-00 (setting range -3~3sec)
2	Press **D+**	Set the number of seconds to compensate each day The program is incremented or decremented by 1 second (For example,displayed as 05 refer to increase 0.5 seconds; -20 refer to reduce 2 seconds)
3	Press ◷	The setting is confirmed and exit

5. Control ON or OFF manually（press “MANUAL”）

Screen Display	Work state
ON AUTO	Automatic control and in the ON state
AUTO OFF	Automatic control and in the OFF state
ON	Permanent ON and not controlled by the timer
OFF	Permanent OFF and not controlled by the timer

6. Check accumulated operating time and action number

● Hold **M** and **MANUAL**, the screen will display operating time (h) and action number (p) circularly.

The actual operating time and action number: multiply the displayed values by 10. (max:99990h & 99990t)

For example:“h0013” and “p0021” refer to accumulated operating time is 130 hours and action number is 210 times.

● Release **M** and **MANUAL**, it will automatic return to the clock interface.

7. Copy data

In the case when the number of time switch is large and the program switching time data is the same, by using the data card of the same series time switch of the our company, the data can be used to quickly copy such as real time, program on/off time and pulsation procedure. This achieve to the consistency of setting and the purpose of quick operation.

The only way to achieve data replication and write is by using the dedicated data card of our company.

The steps are as follows:

a. Set one of the time switch as needed, including the real time, program on/off time and pulsation time, clock display mode, etc.

b. Insert the dedicated data card to the time switch that has been set up the data.

c. Press the "Read / Write" button on the data card until "out" is displayed on the screen of time switch, then press the "OK" on the data card, the data will start to export to the data card, and "o" will be displayed after successful export.

d. Insert the data card into the time switch that is needed to write data.

e. Press the "Read / Write" button on the data card until "in" is displayed on the screen of time switch, then press the "OK" on the data card, the data will start to export to the data card, and "o" will be displayed after successful export.

f. Repeat steps d-e to write data to other time switch.

* If the LCD screen display "n" during the writing process it means that the write is not succeed.

Please check whether the data card is plugged in and the time switch is turned on, write operation again when confirmed.

Attention

- Please don't use in the place with dust, corrosive gas, direct sunlight or rain.
- Please store and use in the conditions of rated voltage with the specified temperature and humidity.
- Product design and specifications maybe be changed without notice.