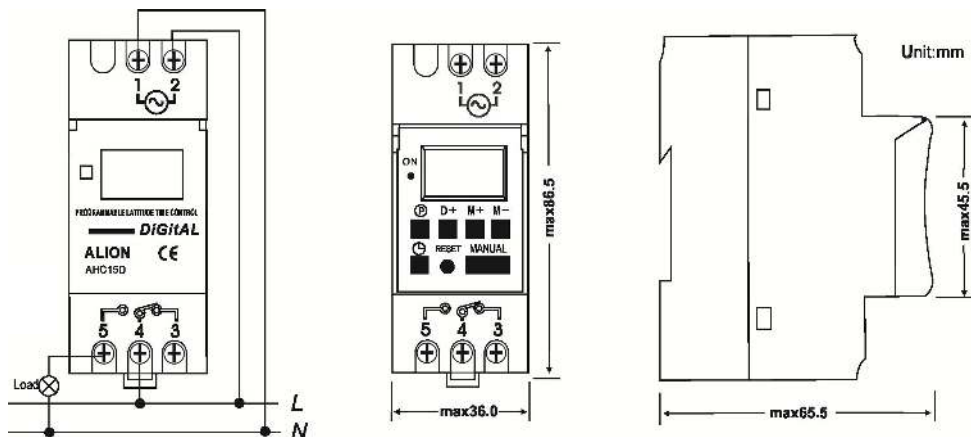| AHC15D	Multi-functional	ALION

- **Operating voltage to wide range(AC 85~265V 50/60Hz)**
- **Can set 20 groups on-off program, set weekly cycle and day cycle and manually control on-off**
- **Have a function of countdown, and the range of time 1 second ~ 99minutes and 59 seconds**
- **Can manually set Daylight Saving Time(+/- 1 hour)**
- **Built-in lithium battery, and travel time as usual after power failure**
- **Can check accumulated operational time and action times**
- **Can auto-correct time(-3 sec ≤△t≤3 sec) every day**

Technical data

Rated voltage：	85~265VAC 50/60Hz	**Power failure memory:**	3 year
Times of switch setting:	20 groups on/off program	**Stand-by consumed power**	≤ 1.5VA
Contact Form:	1 group conversion	**Relay pull power：**	≤ 3VA
Contact load capacity: resistance load：	Resistance load	**Electrical life：**	10^5 times
	16A/ 250V AC COSφ=1	**Mechanical life：**	10^7 times
Countdown time：	1 sec- 99min59sec	**Work temperature：**	-10 ~ +50 ^{O}C (non-icing）
Contact resistance between contacts:	≤100mΩ	**Ambient humidity：**	35～85％RH
Insulation resistance between contacts：	≥100MΩ	**Storage temperature：**	-10 ~ +60 ^{O}C
Timing error：	≤±2sec/day(25℃)	**Weight：**	About 150g

Wiring drawing and external dimension

Setting method

*   If no any action procedure within 30 seconds, all set operations will exit automatically, and that will not be saved；

*   If no display for the first time, please press "RESET".(in addition, press "D+" and "H+" for 3 seconds, then the product will be closed, all setting will be lost but day correction parameter, accumulated operational time and action times will not be reset.)

◆   **Setting display time(present time)：**

Step	Key	Programming
1	press⌚ and **H+**	hour increases on the screen, continuously press H+, then hours increase
2	press⌚ and **M+**	minute increases on the screen, continuously press M+, then minutes increase
3	press⌚ and **D+**	mark of week moves on the screen, continuously press D+ to choose week

*   When it starts, the timer is in 24-hour system, please press "⌚" for 5 seconds, the "AM" will display at bottom-left corner of LCD, it represent 12-hour system, press" ⌚" for 5 seconds again, go back 24-hour system and "AM" mark disappeared.(When the 12-hour system   AM in the morning, PM in the afternoon.)

◆   **20 groups setting of procedure switch：**

1. Setting program group ON/OFF time, can't setting overlap, should be according the time sequence.(If setting same ON/OFF time, after contact 15 seconds, will have ring a bell function ect)

2. Setting program group ON/OFF time, first step, setting present time , second step, setting the ON/OFF program, after

finished the program setting, press "MANUAL" ,the bottom of screen will show tge "ON AUTO" or "AUTO OFF"

3. after finishing setting, please press "Ⓟ", then you can check the groups and times of setting switch when, or please modify as following setting steps if you need to modify procedures。

Step	Key	Programming
1	Press Ⓟ	Enter into regular ON setting(display 1 ON)
2	Press **H+** or **M+** (or Press the" **MANUAL"** key to clear the time)	Set ON Hour or Minutes
3	Press **D+** (if it is same every day, do not press the key)	Setting: Every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA
4	Press Ⓟ	Into setting timer OFF(displays 1 OFF)
5	Press **H+** or **M+** (or Press the" **MANUAL"** key to clear the time)	Set OFF Hour or Minutes
6	Press **D+** (if it is same every day, do not press the key)	Setting: Every day, MO-FR, MO-SA, SA-SU, MO-WE, TH-SA, MO WE FR, TU TH SA
7	Repeat step 2-6	Set 2nd-20th ON/OFF time
	Or press 🕒	Exit the program settings

◆ **Summer display time setting**：

Step	Key	Programming
setting	Press **H+** & **M+**	The present time increase 1 hour("1h" display of bottom- left corner LCD)
cancel	Press **H+** & **M+** again	Summer time cancel , go back the present time.

Description：

This setting is only to set displayed present time, but not change time of switch program that has been set. if program switch needs to run according to DST, please set it in setting program of program groups.

◆ **Countdown: "d" display at bottom left corner of LCD**

Step	Key	Programming
1	Press Ⓟ & 🕒	Countdown setting
2	press 🕒 & **H+** or 🕒 & **M+**	Setting countdown minutes and seconds（Range：1sec~99min59sec）
3	Press **MANUAL**	Start count down
4	Press Ⓟ	Return to start countdown
5	Press Ⓟ & 🕒	Exit

◆ **Auto time error correction day: "1d"display at bottom-left corner of LCD(setting range -3~3sec)**

Step	Key	Programming
1	Press Ⓟ & **MANUAL**	LCD display：1d 00
2	Press **D+**	Setting 3 seconds ~ -3 seconds， 0.5 seconds to add
3	Press 🕒	Confirm

◆ **Manual control on and off**（Cycle to press "MANUAL"）

LCD Display	Work state
ON AUTO	Automatic on/off state, it is on now
AUTO OFF	Automatic on/off state, it is off now
ON	Always on
OFF	Always off

◆ **Check accumulated working time and action times**

When you want to know equipment running time and action times , press" 🕒" and "Manual" ,and the screen will display working time (h) and times (P) circularly. And multiply the display number by 10 to get the real time and times.(max:99990 & 99990t)

For   example: "h0013" and "p0021" .accumulated working time is 130 hours and action times is 210 times.

☐ Matters needing attention

- Please don't use in the dust, corrosive gas, direct sunlight and rain place.
- Please store and use in the rated voltage and the specified temperature and humidity conditions.
- Product design ,specifications will change without notice.