

# **MANUAL OF ENERGY SAVING SWITCH**

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## **ADEL-16DC/30DC/30IC**



- Thanks for your using of our products
- Please read this manual carefully
- Please keep this manual carefully

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Bogota, Colombia. Tells 57-1-6102650 / 7026295

## **A. Features:**

- 1). Power Supply: Insert card into the switch to make the power supplying ,when guest enter the room.
- 2). 5-10 seconds after taking out the card from the energy saving switch.
- 3). Adopt transformer to make the energy saving switch long life.
- 4). Cover adopt anti-fire ABS material, which means high secure ability.
- 5). Indicator to make operation at night convenient.

## **B. Application:**

The energy saving switch is used to control the electrical source of the illumination for the guest room.

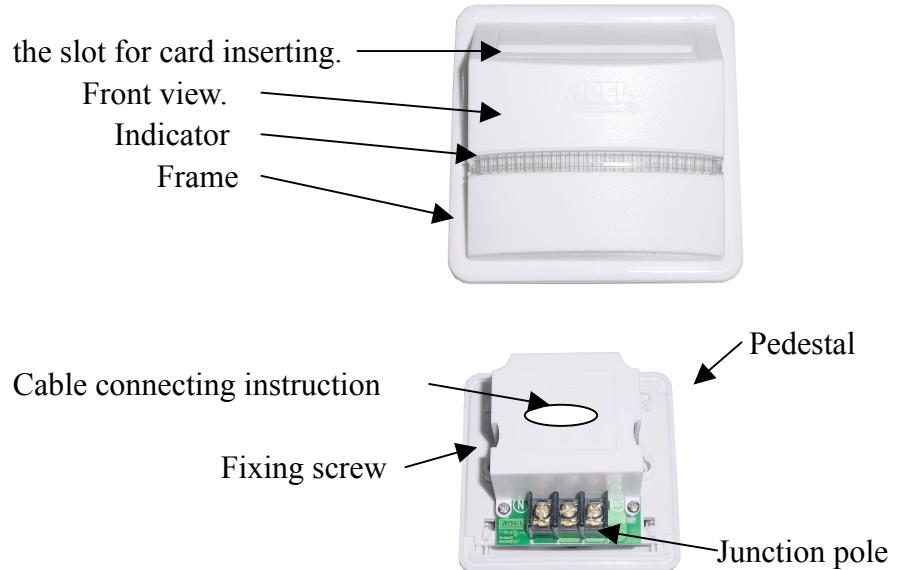
## **C. Note:**

The energy saving switch is for illumination power controlling, please don't connect the big power electrical appliance to it, For example the air-condition, refrigerator etc. Before installation, please make sure that the total load powers less than 6600 W, and make sure the actual voltage not less than 185V.

## **D. Product Parameter:**

Parameter name	Explain	Value
Working Voltage	Normal working Voltage	110 / 220v +/- 10% AC
Frequency	The frequency of power supply Voltage	50HZ / 60HZ
Total load power	The maximum power load power allowed to be connect with the energy saving switch	6600W (for model ADEL-30IC, ADEL-30DC), 3520W (for model ADEL-16DC)
Load working current	The max electric current allowed	AC 30A
Static consumption	The energy saving switch is not in the working state	0.01W
Delay time	The time of the shutting off of the power, after taking out the card from the energy saving switch.	3—10S
Cover material	Anti-fire ABS material	

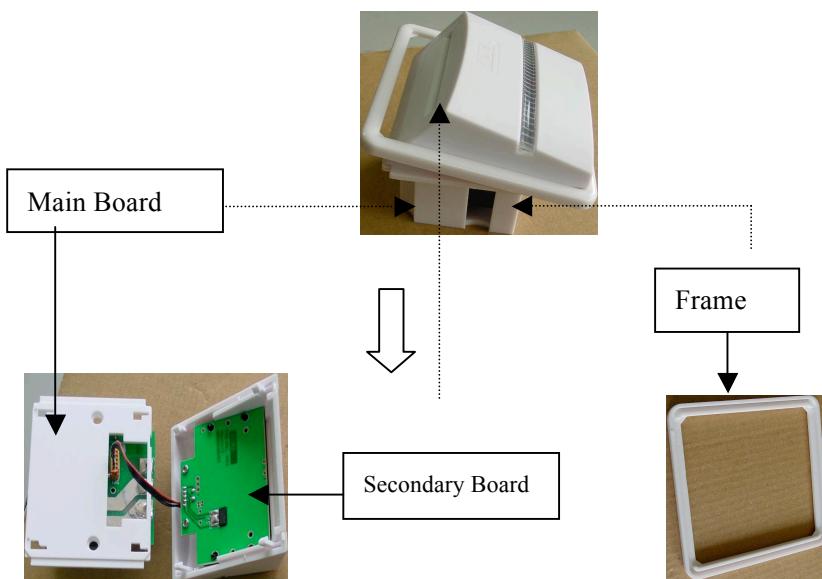
## E. The lock structure and each parts



(Figure E-1)

## F. Installation

### 1). Parts view



(Figure F-1)

### 2). The requirement of the dimension of the junction box.

- length and width more than 70mm and less than 84.2mm.
- the depth of the junction box (inside depth) must be more than 37.6mm, more

than 40mm is better.

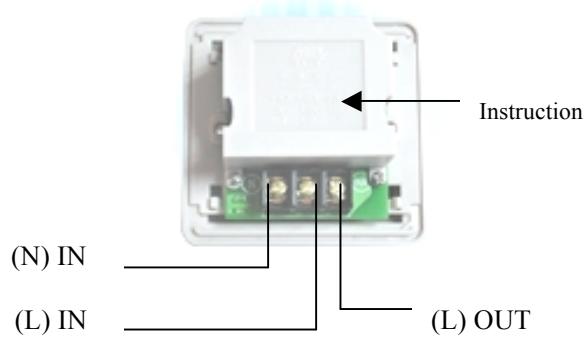
- c. the distance between the central points of the two fixing screws must be 60mm.

**Note:**

Generally the junction box has been installed in the wall, as the water and electricity project is done. The installation of junction box should be according to the actual size of the junction box. See **Attachment A: The dimension of the junction box**. The size of the hole in the wall for the junction box, Please see **Attachment B: Cutting size in the wall for junction box installation**.

**3). The cable connecting of the energy saving switch**

Generally cable connecting instruction is printed on the back of the switch.



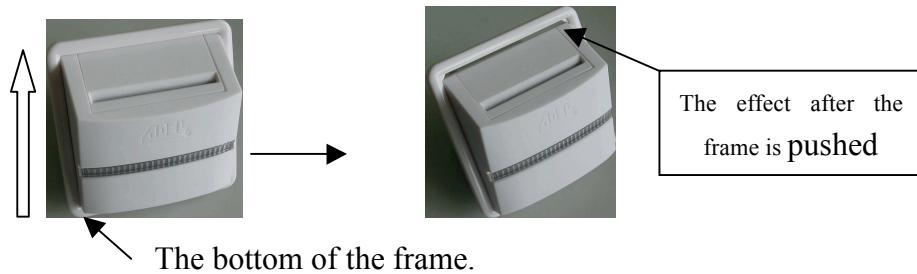
(Figure F-2)

(See **Attachment C: The Cable connecting**)

**4). The flow chart of the installation (See **Attachment D: The flow chart of the installation**)**

- a. Push the bottom of the frame upward, To take out the frame, See **P:**

1)



(Figure F-3)

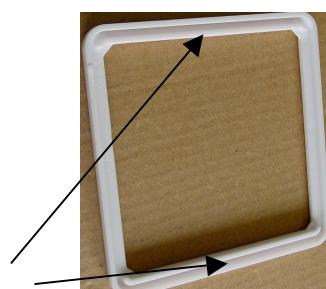
- b. Press the secondary Board toward main Board, at the same time, push the bottom of the secondary Board upward, to separate the secondary Board from the main Board, and then separate the connection cable.

- c . According to the cable connecting instruction to connect the illumination power supply, When it is connected, the energy saving switch will be electrified several seconds, and then break automatically, (See **Attachment C: The Cable connecting**.)

d. Fix the main Board according to **(Attachment D: The flow chart of the installation)**

e. Connect the main Board and secondary Board with cable, then match four claws on the secondary Board into the relevant holes on main Board, and push the secondary Board towards the wall, at the same time push smoothly downwards, a sound of "ka" will be heard, means the secondary Board is fixed on main Board perfectly.

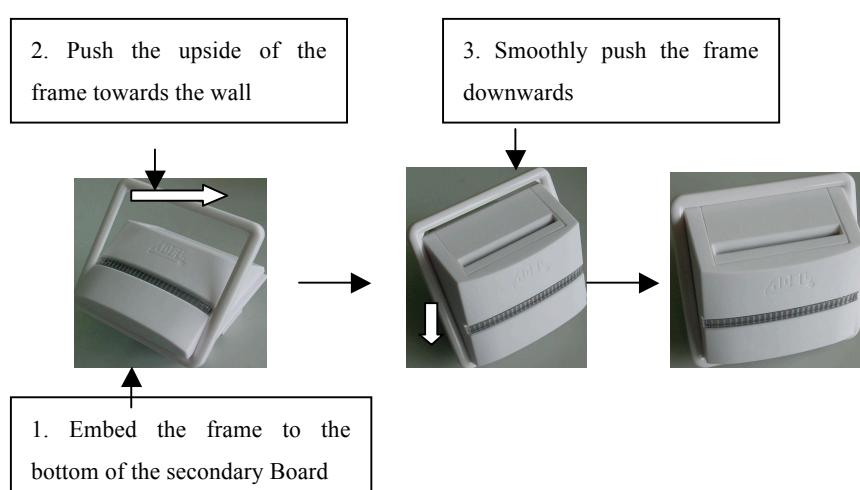
f. Embed the frame to the bottom of the secondary Board. Note: in the frame, the two sides with long bars are for top and bottom sides.



**(Figure F-4)**

g. Push the upside of the frame towards the wall, then smoothly push it downwards, to make the frame circle the secondary Board perfectly.

The flow chart is as below:



h. Testing

Insert the IC card (or other card for model:ADEL-16DC , ADEL30DC) to the energy saving switch, provide the power supply; Take out the card, power off about 5 seconds later. See picture below:



## **Installation Description:**

- 1). Fix junction box (2) in the wall first, the box should be 0-0.3mm over the wall surface after it's installation.
- 2). Fix the part of switch (3) to junction box (2) with fixing screws.
- 3). Insert the claws of the cover (5) into relevant holes on part of switch(3), and then press towards the wall. When "ka" heard, means the it perfect installed.
- 4). The dimension of the junction box and the size of the cutting on the wall, please see attached figures.
  1. wall
  2. Junction box (standard)
  3. part of the switch
  4. fixing screw
  5. the cover of the switch

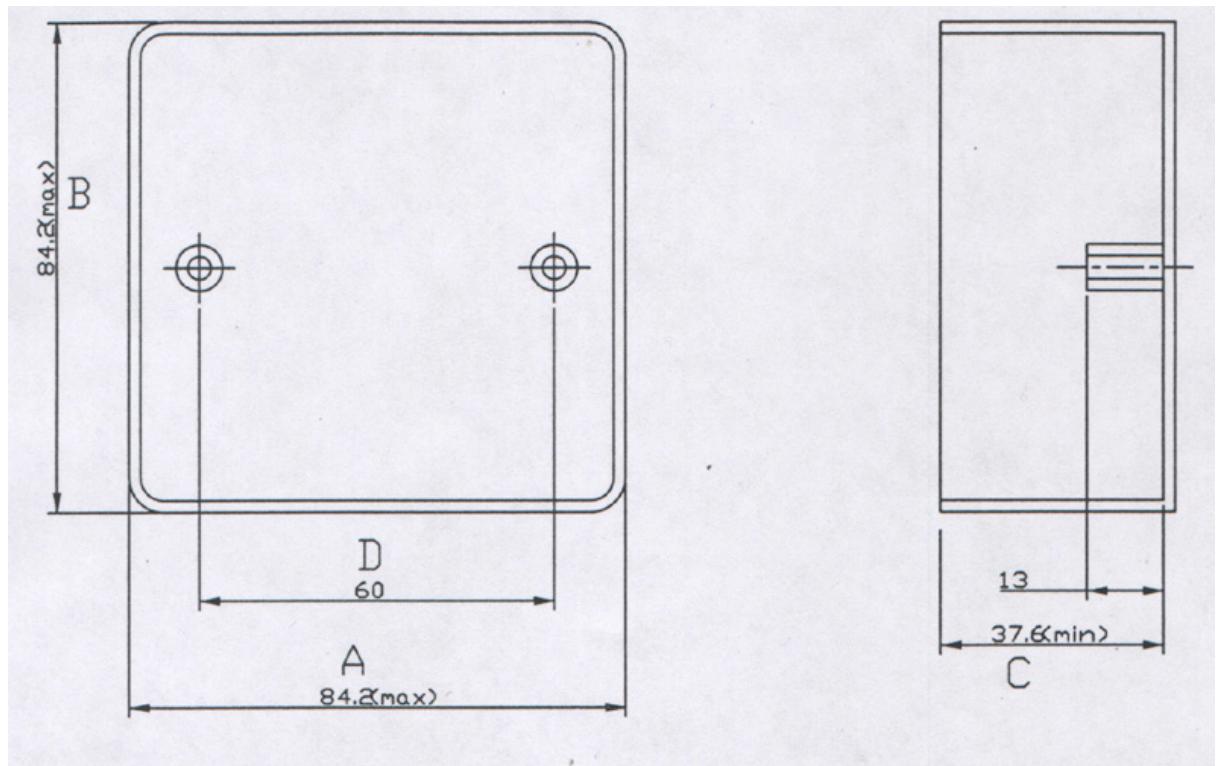
**Remark: How to fix the junction box in the wall.**

- a. Fix with cement.
- b. Fix with screws.

## **Attachment A: The dimension of the junction box**

### **Description:**

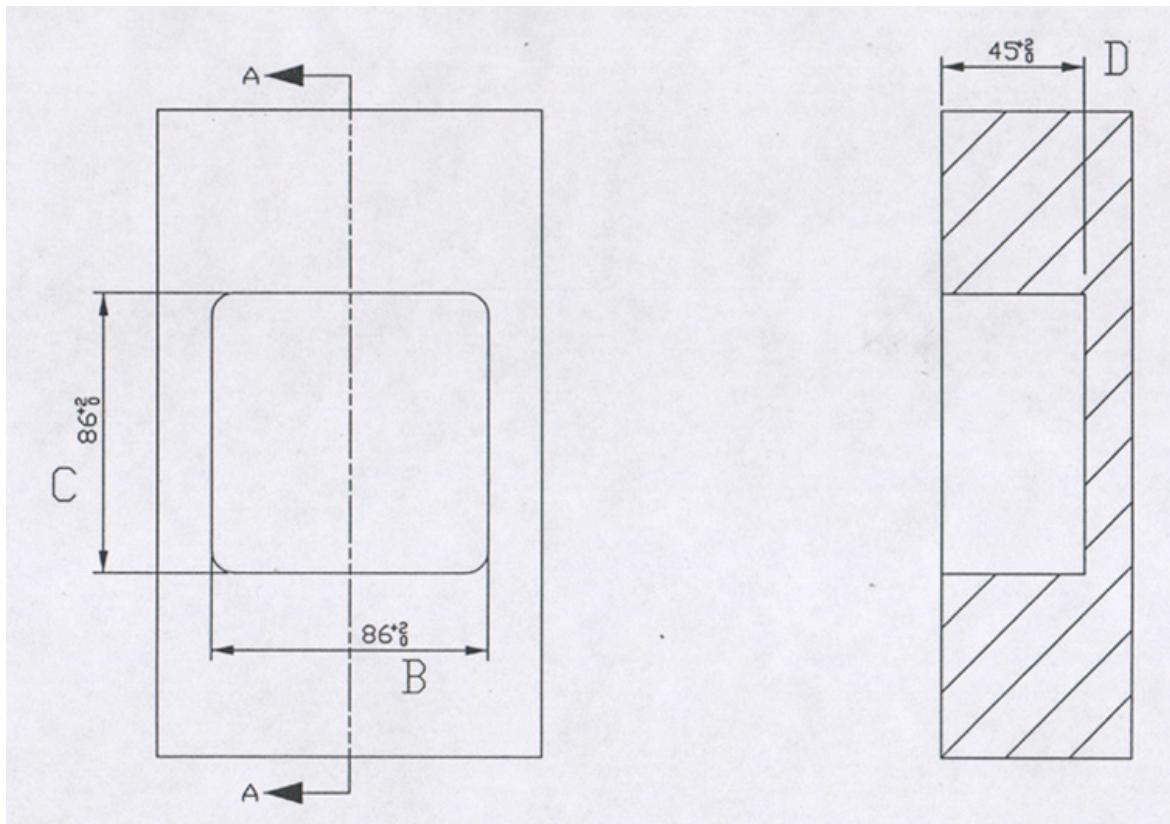
- 1). The side length of 'A' and 'B' of the junction box must be less than 84.2mm, and must be more than 70mm.
- 2). The inner depth 'C' of the junction box must be more than 37.6mm.
- 3). The distance 'D' between central points of the fixing poles in the junction box must be 60mm.
- 4). Above 3 requirements suitable for the installation of energy saving switch models: ADEL-30DC, and ADEL-30IC.



## **Attachment B: Cutting size in the wall for junction box installation.**

### **Description:**

- 1). The length 'B' and 'C' should be between 86mm and 70mm, should not less than the actual length of the junction box.
- 2). The depth 'D' should be a little more than the actual height of the junction box.
- 3). The sizes in this figure are only for reference. The installation should be according to actual junction box. Generally, the cutting was done during the construction of the building, and sometimes the junction box was installed during the building constructing.



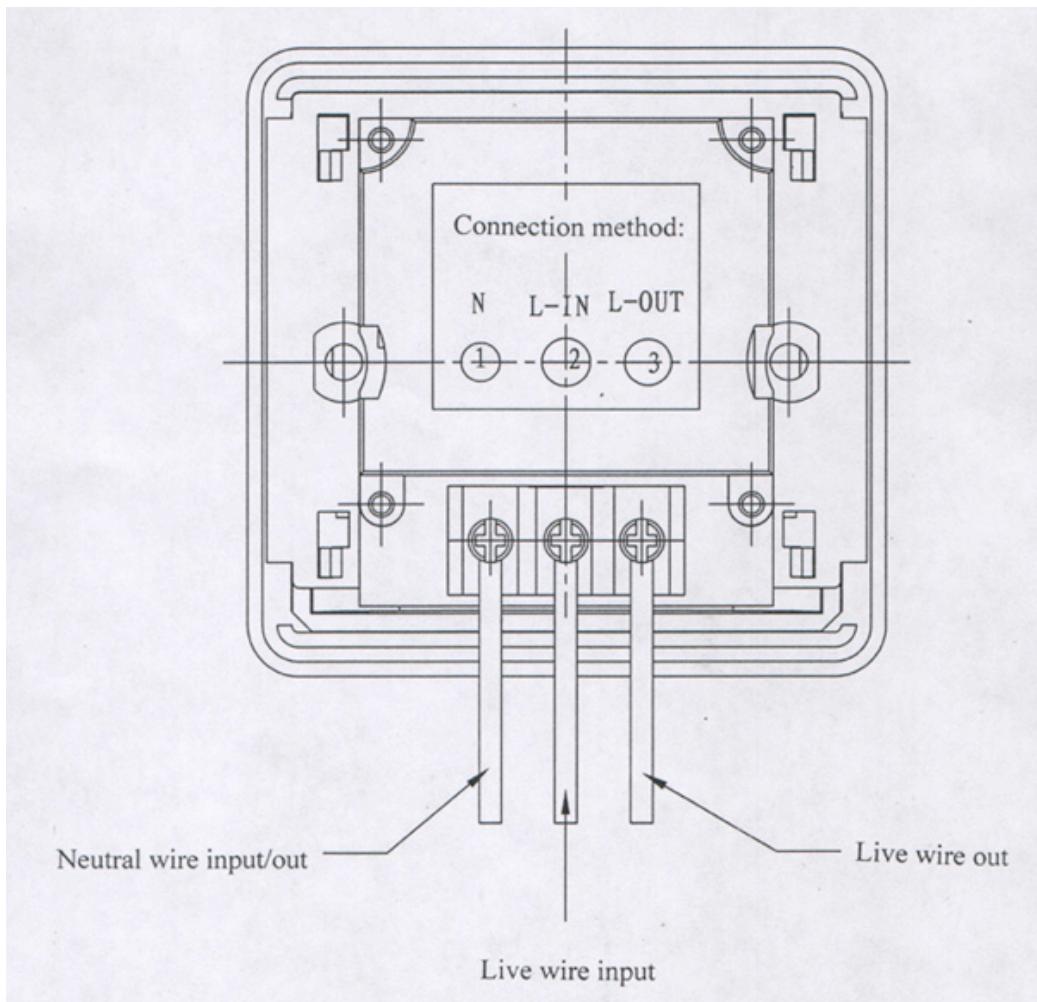
### Attachment C: The Cable connecting.

Connection method:

In live wire input/out

Live wire input

Live wire out



## Attachment D: The flow chart of the installation

### Description:

- 1). Fix the junction box (2) in the wall, the box should be 0-0.3mm over the wall surface.
  - 2). Connect the power supply cable in the room according to the Attachment Figure C.
  - 3). Fix the Main board of the energy saving switch (3) into the junction box (2) with screw (4).
  - 4). Connect the cable of the main board(3) to secondary board(5). And then insert four claws of secondary board(5) into the relevant holes on main board, and press secondary board(4) to the wall, at the same time move downwards a little. when a “ka” sound heard, that means the secondary board is set successfully.
  - 5). Embed the frame (6) to the bottom of the secondary Board. (Note: in the frame, the two sides with long bars are for top and bottom sides.)  
and then press the upside of the frame towards the wall, at the same time smoothly push the frame downwards, when a “ka” sound heard, that means the frame is set successfully. .
  - 6). The dimension of the junction box and the size of the cutting in the wall, please see Attachment figure B.
- 1: wall,

- 2: Junction box,  
 3: Parts of switch - Main board,  
 4: Screw,  
 5: Parts of switch - Secondary board,  
 6: Parts of switch – Frame.

