

Touch-Free Light Switch Panel

无接触的电灯开关面板

Customer Name:

客户名称

Customer P/N:

客户品号

Dakeqi P/N:

大可奇型号:

MH86*110 NI-1/2/3 Gang-No Network

MH86*110零火-1/2/3路-单机版

Sending Date:

供货日期

☐ **Technical Reference** 技术参考

☒ **Sample** 样品

☐ **Mass Product** 量产供货

Customer Approval

客户审核

Dakeqi Approval

大可奇审核

Approval

核准

Audit

确认

Confirmation

制作

Approval

核准

Audit

确认

Confirmation

制作

☐ **Qualified**

接受

☐ **Disqualified**

不接受

Date:

日期:

Touch-Free Light Switch Panel

无接触的电灯开关面板

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1. Description 描述:

规格书适应于：无接触的电灯开关面板。

使用负载范围：白炽灯、LED灯具、节能灯、荧光灯和LED灯条。

单路负载 $\leq 300W$ 三路总负载 $\leq 900W$ 单路负载 $\geq 3W$

This specification is suitable for the touch-free light switch panel.

Load Range: Incandescent lamps, LED lamps, energy-saving lamps, fluorescent lamps, LED light strips.

Single-channel load $\leq 300W$.

Three-channel total load $\leq 900W$.

Single-channel load $\geq 3W$.

2. Electrical Specification 电气性能:

2.1、Input Requirements 输入要求:

2.1.1、Ac Input Voltage Range 交流电压输入范围:

The range of rated input voltage is from 100--240V ac and the maximum range of input voltage is 90--264V ac

额定工作输入电压范围为: 100--240V ac; 最大输入电压范围: 90--264V ac

2.1.2、Input Current 输入电流:

The maximum input current is less than 0.4 A, $V_{in}=100V_{ac}$ the load is Three sets of control ports are triggered without LED connection

在输入最低电压100V ac输入, 三组控制端口触发, 不连接LED的情况下输入最大电流小于 0.4 A

2.1.3、Input Power 输入功率:

Testing condition: AC115V or AC 230V, @50/60Hz, Three groups of control ports are not triggered

测试条件: 三组控制端口无触发的情况下, AC 115V 或者 AC 230V, 50/60Hz

Loading 负载	Input (输入)	Input Power (输入功率)
控制端口无触发 (无遮挡) The control port is not triggered (not blocking the light path)	AC115V	Max. <u>500mW</u> (最大值)
	AC230V	Max. <u>500mW</u> (最大值)

3. Application Scenarios 适用场景:

Working temperature: -10~40°C 工作温度: -10~40°C
 Storage temperature: -20~60°C 储存温度: -20~60°C
 Applicable scenario: Indoor 适用场景: 室内
 Adapted bottom box: 86 bottom box 适配的底盒: 86底盒

Wading places: toilets, kitchens, bathrooms, balconies, outdoors, ships, beaches, etc.
 (A waterproof light switch is safer.)

Hazardous chemicals sites: gas stations, flour mills, chemical plants, etc.
 (Because there is no spark exposure)

Public places: hotels, hospitals, schools, etc. (No contact is more hygienic)

涉水场所: 洗手间、厨房、浴室、阳台、户外、轮船、海边等 (防水的电灯开关更安全);

危化品场所: 加油站、面粉厂、化工厂等 (因为没有电火花的暴露);

公共场所: 酒店、医院、学校等 (不接触更卫生)。



Seepage test (渗水测试)

4. Reliability And Quality Control 可靠性和质量控制:

4.1、MTBF 平均故障间隔时间:

The average time between failures is greater than 20,000 hours when the touch-free light switch controller is normally used at room temperature of 25°C within the specifications (Non-contact light switch controller tested only) .

室温25°C时,在规格要求的范围内正常使用该无接触的电灯开关面板控制器时,平均故障间隔时间大于20,000小时 (仅无接触的电灯开关面板控制器测试) 。

4.2、High Temperature And High Humidity Test 高温高湿测试:

At the environment of the high temperature $40 \pm 2^{\circ}\text{C}$, relative humidity 85%,need working 24hours.

在高温 $40 \pm 2^{\circ}\text{C}$,相对湿度为85%,的环境下工作24小时。

4.3、High Temperature Test 高温测试:

4.3.1、High Temperature Store 高温存储:

At the environment of the high temperature $75 \pm 2^{\circ}\text{C}$,Relative Humidity85%,deposit 18 hours then put the unit at room temperature,After2 hours the unit can working and could not have split, deformation.

存放在高温 $75 \pm 2^{\circ}\text{C}$,相对湿度85%,下18个小时,再放在室温下2小时后能正常工作,无接触的电灯开关面板控制器功能正常,外观无变形等。

4.3.2、High Temperature Working 高温运行:

At the environment of the high temperature $40 \pm 2^{\circ}\text{C}$ working 4 hours, the unit could not have split, deformation.

在温度为 $40 \pm 2^{\circ}\text{C}$ 的环境下连续工作4个小时后,无接触的电灯开关面板控制器功能正常,外观无变形等。

4.4、Low Temperature 低温测试:

4.4.1、Low Temperature Store 低温存储:

At the environment of the low temperature $-20 \pm 2^{\circ}\text{C}$,deposit 18 hours then put the unit at room temperature, the unit can working and could not have split, deformation.

存放在低温 $-20 \pm 2^{\circ}\text{C}$ 下18个小时,再放在室温下能正常工作,无接触的电灯开关面板控制器功能正常,外观无变形等。

4.4.2、Low Temperature Working 低温运行:

At the environment of the low temperature $0 \pm 2^{\circ}\text{C}$ working 4 hours, the unit could not have split, deformation.

在温度为 $0 \pm 2^{\circ}\text{C}$ 的环境下连续工作4个小时后,无接触的电灯开关面板控制器功能正常,外观无变形等。

4.5、High Low Temperature Cycling 高低温循环：

The unit at $V_{in}=220V$ ac, need at the $-5\pm 2^{\circ}C$ working **1hour** then rise the temperature $+5^{\circ}C/min$ to the $40\pm 2^{\circ}C$, let the unit working then down the temperature $-5^{\circ}C/min$ to $0\pm 2^{\circ}C$ 。Working **1hour**, Repeat **20 times**。

电源输入为220V ac 电压，在 $-5\pm 2^{\circ}C$ 运行**1小时**，将温度以 $+5^{\circ}C/分钟$ 的速率调节到 $40\pm 2^{\circ}C$ ，运行1小时，再以 $-5^{\circ}C/分钟$ 的速率调节到 $0\pm 2^{\circ}C$ 运行1小时，循环**20**次。

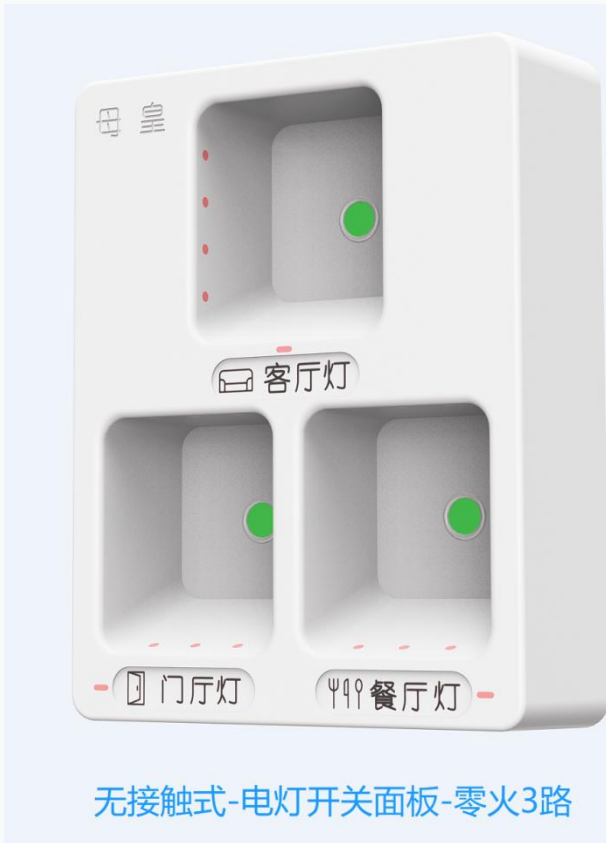
4.6、Vibration Test 振动测试：

In the direction of X, Y, and Z for 1hour(Total 3hours) for each at acceleration 1G, amplitude 0.35mm, the frequency 10-55-10Hz, and the repetition cycle is 1 minute, Satisfy the electric performance and the externals structure without abnormality.

三个互相垂直的方向各振动1小时，（共3个小时），以每分钟的1倍频的速率，频率为10Hz-50Hz-10Hz 振幅为0.35mm,安全电气性能和外壳没有异常。

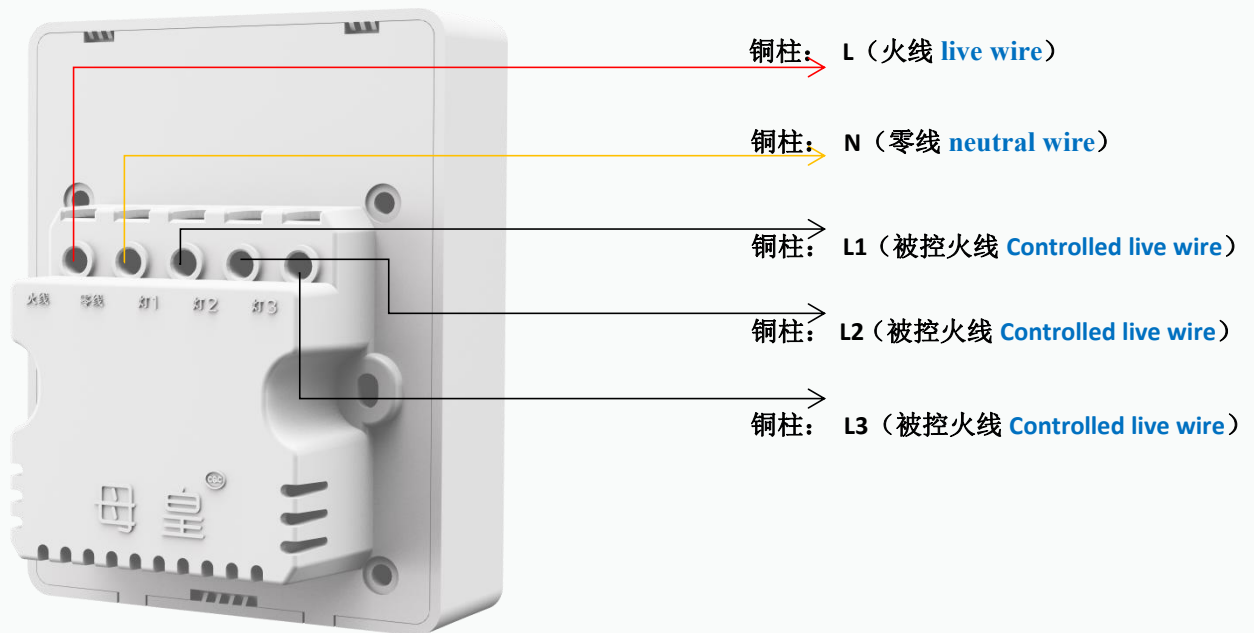
5. Photos 照片：



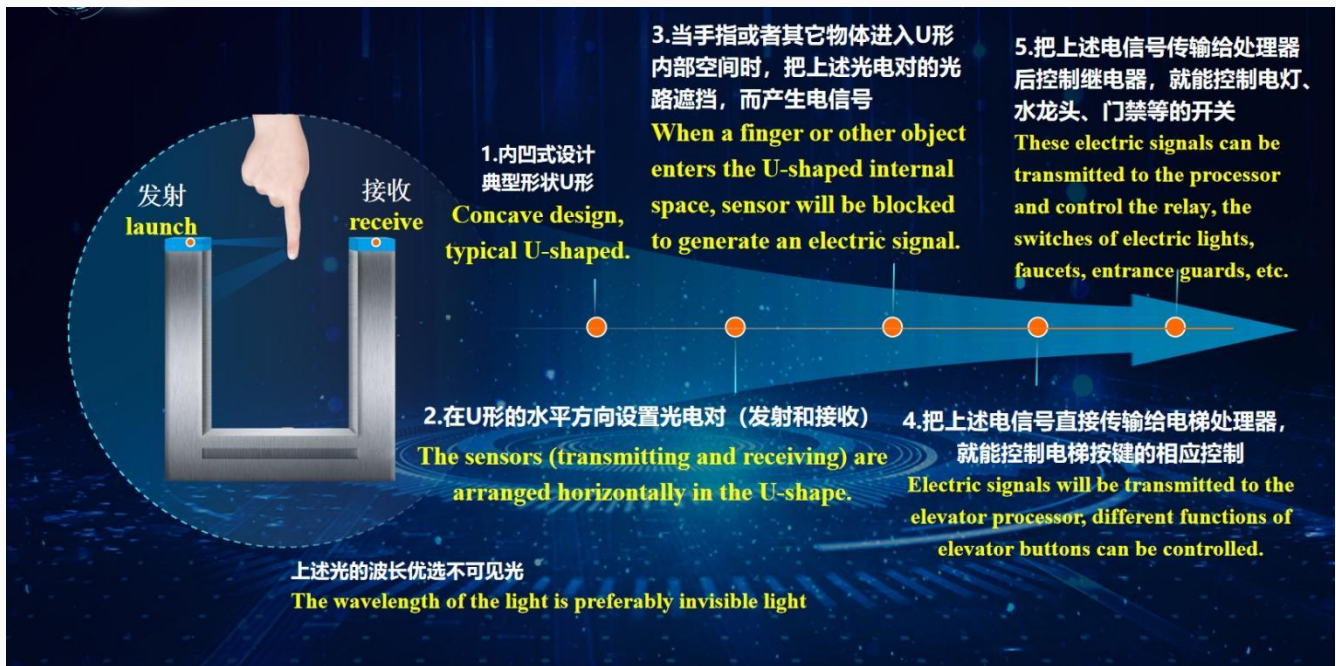


6. Principle And Detailed Description 原理和详情说明:

6.1、Structure Chart 结构图:



6.2、Design Schematic Diagram 设计原理图:



6.2.1、Explain 说明:

Copper column L(live wire) 铜柱L(火线)

Copper column N (neutral wire) 铜柱N（零线）

Connects the 100-240VAC input 连接100-240V AC输入

6.2.2、Load Under Test (Led1) Input 被测试负载（Led1）输入端:

L of LED1 is connected to copper column L1 (controlled live wire);

The n of LED1 is connected with n (zero line);

When the control port of the dining room lamp {5.Photos} is triggered (blocked), it will be lit by the test load (LED1) lamp; If it is triggered (blocked) again, the light of the tested load (LED1) goes out.

LED1的L连接铜柱L1（被控火线）；

LED1的N连接N（零线）；

餐厅灯（5. 照片）的控制口被触发（被遮挡）则被测试负载（LED1）灯亮；如果再次触发（遮挡）则被测试负载（LED1）灯熄灭。

6.2.3、Load Under Test (Led2) Input 被测试负载（Led2）输入端:

L of the LED2 is connected to the copper column L2 (controlled live wire);

N of LED2 is connected to n (zero line);

When the control port of the hall light {5.Photos} is triggered (blocked), it will be lit by the test load (LED2); If it is triggered (blocked) again, the light of the tested load (LED2) goes out.

LED2的L连接铜柱L2（被控火线）；

LED2的N连接N（零线）；

门厅灯（5. 照片）的控制口被触发（被遮挡）则被测试负载（LED2）灯亮；如果再次触发（遮挡）则被测试负载（LED2）灯熄灭。

6.2.4、Load Under Test (Led3) Input 被测试负载（Led3）输入端：

L of the LED3 is connected to the copper column L3 (controlled live wire);

N of LED3 is connected to n (zero line);

When the control port of the living room lamp {5.Photos} is triggered (blocked), it will be lit by the test load (LED3); If it is triggered (blocked) again, the light of the tested load (LED3) goes out.

LED3的L连接铜柱L3（被控火线）；

LED3的N连接N（零线）；

客厅灯（5. 照片）的控制口被触发（被遮挡）则被测试负载（LED3）灯亮；如果再次触发（遮挡）则被测试负载（LED3）灯熄灭。

6.3、Name And Content Of Harmful Substances In The Product:

产品中有害物质的名称及含量：

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
外壳	○	○	○	○	○	○
PCB板	×	○	○	○	○	○
线缆	○	○	○	○	○	○
附件	○	○	○	○	○	○

本表格依据SJ/T11364的规定编制。o:表示该有害物质在该部件所有均质材料中的含量均在GB/T26572规定的限量要求以下。X:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572规定的限量要求。

The table is prepared according to the provisions of SJ/T11364. 'O' indicates that the content of the hazardous substance in all homogeneous materials of the component is below the limit requirements specified in GB/T26572. 'X' indicates that the content of the hazardous substance in at least one homogeneous material of the component exceeds the limit requirements specified in GB/T26572."



6.4、Bill Of Materials 物料清单:

物品清单	开关本体	使用说明	螺丝包
MH86*110零火-1路-单机版	✓	✓	✓
MH86*110零火-2路-单机版	✓	✓	✓
MH86*110零火-3路-单机版	✓	✓	✓

6.5、Quality Assurance 品质保证:

用户在本说明书要求下进行安装和正常使用情况下,提供2年质保说明:电商平台上销售的产品售后服务政策按各电商平台的条款。

以下情况不在保修范围内:

- ◆ 未按照产品说明书进行安装;
- ◆ 在超过产品额定工作参数的环境下使用;
- ◆ 人为原因造成的产品碰伤、划伤等;
- ◆ 保管不当造成的进水、受潮等
- ◆ 自行改装、拆卸;
- ◆ 不可抗力(地震洪水等自然灾害) 导致产品损坏。

保修服务自产品销售之日起计算,无法明确销售日期的,按本产品出厂日期顺延180天开始计算。

When users install and use the product in accordance with the instructions provided in this manual under normal conditions, a 2-year warranty is offered.

The after-sales service policy for products sold on e-commerce platforms is subjected to the terms and conditions of each respective platform.

The warranty does not cover the following situations:

- ◆ Failure to install the product according to the instructions.

- ◆ Usage in an environment exceeding the product's rated working parameters.
- ◆ Damage caused by human factors, such as impact or scratches.
- ◆ Water ingress or dampness due to improper storage.
- ◆ Self-modification or disassembly of the product.
- ◆ Damage caused by force majeure (earthquakes, floods, and other natural disasters).

The warranty service period is calculated from the date of product sale. If the sales date cannot be determined, it will be extended by 180 days from the product's factory date.

6.6、Disclaimers 免责声明：

◆ 下列情况不在保修之内：

- A、超过本产品技术参数使用造成的故障或缺陷；
- B、使用错误、非授权维修、修改、不可抗力事件或其他外部原因导致的任何故障或缺陷；
- C、使用第三方产品软件或组件引起的任何故障或缺陷；
- D、产品超过保修期；
- E、其他非产品本身设计、技术、质量等问题导致的故障或损坏；
- F、人为损坏或进水等外在因素引起的损坏。

◆ 本公司保留在没有任通知或提示的情况下对手册内容进行修改的权利。

本手册的一切解释权归公司所有。

◆ The following situations are not covered by the warranty:

- A、Malfunctions or defects caused by exceeding the technical parameters of this product.
- B、Any malfunctions or defects resulting from incorrect usage, unauthorized repairs or modifications, force majeure events, or other external factors.
- C、Any malfunctions or defects caused by the use of third-party software or components.
- D、Products that are beyond the warranty period.

- E、Malfunctions or damage caused by factors other than the product's own design, technology, or quality.
- F、 Damage caused by human factors or external elements such as water ingress.
- ◆ The company reserves the right to modify the content of this manual without prior notice or notification. All rights to the interpretation of this manual belong to the company.

6.7、Matters Needing Attention 注意事项:

- ◆请严格按照说明书要求安装;
- ◆开关接错线可能会引起损坏或无法控制,接线时请确认接线正确;
- ◆开关安装时请使用标准底盒, 不要使用金属材质底盒;
- ◆开关上电后如果指示灯不亮、闪烁或开关伴有异响,请立即断电并联系专业人员处理;
- ◆本产品与少部分智能灯可能存在不适用的现象;
- ◆安装时确保开关和负载灯具保持30cm以上距离;
- ◆开关请勿安装在金属门上, 以免影响使用。

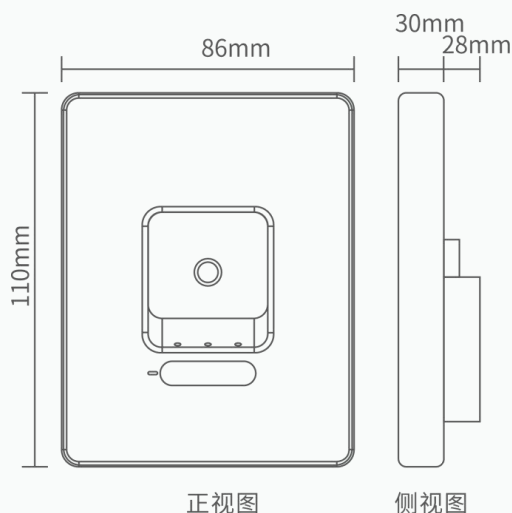
- ◆ Please install strictly according to the requirements in the manual.
- ◆ Connecting the switch incorrectly may cause damage or loss of control. Please confirm the correct wiring during installation.
- ◆ Use a standard mounting box for the switch installation; do not use a metal mounting box.
- ◆ If the indicator light does not illuminate, flashes, or if the switch produces unusual sounds after powering on, please immediately cut off power and contact a professional for assistance.
- ◆ This product may not be compatible with a small number of smart lights.
- ◆ Ensure a distance of at least 30cm between the switch and the load lights during installation.
- ◆ Do not install the switch on a metal door to avoid interference with functionality.

6.8、Use And Cleaning 使用及清洁:

- ◆请严格按照说明书要求使用;

- ◆ 必须在环境和功率范围内使用;
- ◆ 此产品为电子产品,应避免碰撞和跌落而导致损坏;
- ◆ 产品工作期间外壳表面有微弱发热属于正常现象;
- ◆ 多路开关如其中一路不能正常开关操作, 请观察对应指示灯是否正常, 并检查此路是否未接负载或负载损坏;
- ◆ 请勿擅自拆卸、改装产品,否则会导致触电、起火或器件损坏;
- ◆ 请勿使用清洁剂、汽油、氨水及其他含腐蚀性化学试剂擦拭产品。
- ◆ Please strictly follow the instructions for use.
- ◆ Use within the specified environmental and power range is mandatory.
- ◆ This product is an electronic device; avoid collisions and drops to prevent damage.
- ◆ Slight heating of the product's surface during operation is normal.
- ◆ If one of the switches in a multi-gang switch cannot operate normally, observe the corresponding indicator light and check if the load is not connected or damaged.
- ◆ Do not disassemble or modify the product, as it may result in electric shock, fire, or damage to components.
- ◆ Do not use cleaning agents, gasoline, ammonia, or other corrosive chemicals to wipe the product.

6.9、Product Parameters 产品参数:



颜色:白色、金色、灰色等

特点:无接触式、防溅射(水)

型号:MH86*110 零火-1 路-单机版

产地:深圳

规格:安装孔距 60 毫米

输入电压:100-240 伏交流

工作温度:0 度-40 度

负载范围:单路 300 瓦

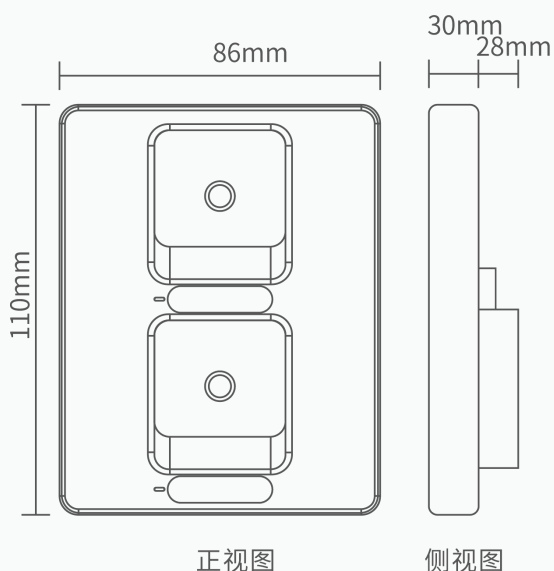
执行标准 GB16915.2-2012

质保年限:2 年

设计寿命:5-10 年

产品尺寸:86 毫米*110 毫米

UV 烤漆工艺:肤感、金属反光等



颜色:白色、金色、灰色等

特点:无接触式、防溅射(水)

型号:MH86*110 零火-2 路-单机版

产地:深圳

规格:安装孔距 60 毫米

输入电压:100-240 伏交流

工作温度:0 度-40 度

负载范围:单路 300 瓦, 2 路 600 瓦

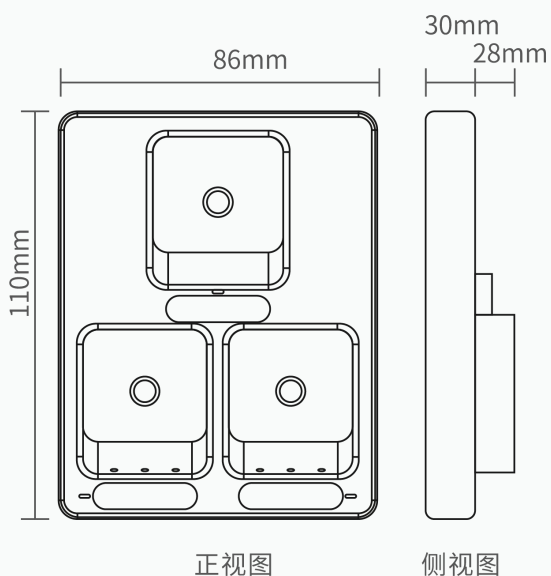
执行标准 GB16915.2-2012

质保年限:2 年

设计寿命:5-10 年

产品尺寸:86 毫米*110 毫米

UV 烤漆工艺:肤感、金属反光等



颜色:白色、金色、灰色等

特点:无接触式、防溅射(水)

型号:MH86*110 零火-3 路-单机版

产地:深圳

规格:安装孔距 60 毫米

输入电压:100-240 伏交流

工作温度:0 度-40 度

负载范围:单路 300 瓦, 3 路 900 瓦

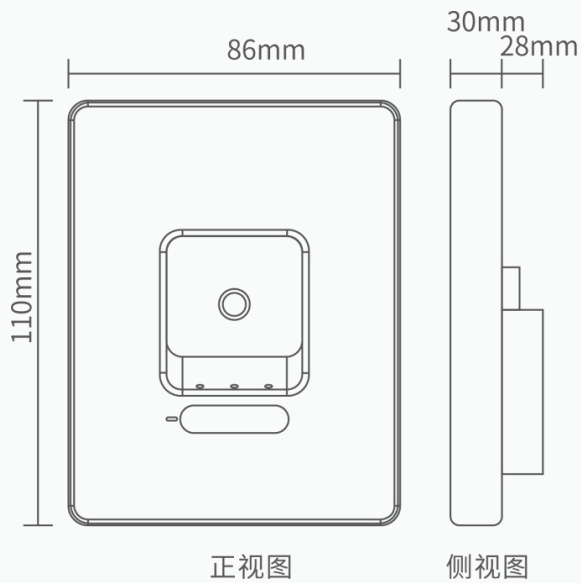
执行标准 GB16915.2-2012

质保年限:2 年

设计寿命:5-10 年

产品尺寸:86 毫米*110 毫米

UV 烤漆工艺:肤感、金属反光等



Color: White, gold, gray, etc.

Features: touch-free, Splash-proof (Water)

Model: MH86*110 NL-1Gang-No network

Place of Origin: Shenzhen

Specifications: Installation hole spacing 60 millimeters

Input Voltage: 100~240 volts AC

Operating Temperature: 0 degrees to 40 degrees

Load Range: Single channel 300 watts

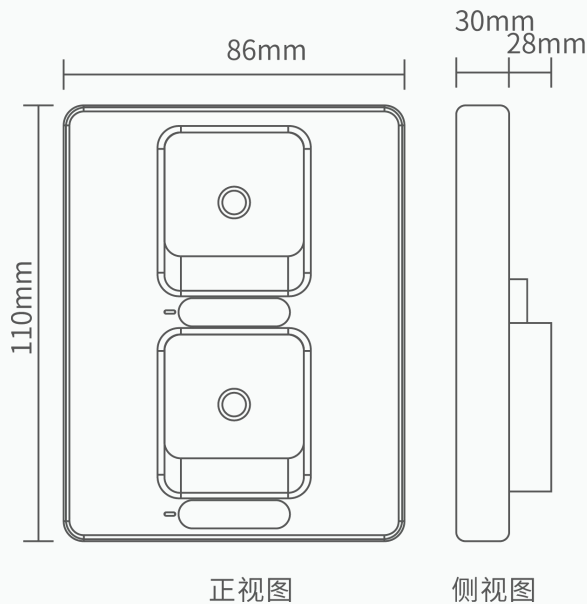
Compliance Standard: GB16915.2-2012

Warranty Period: 2 years

Design Life: 5~10 years

Product Size: 86 mm * 110 mm

UV baking process: skin feeling, metal reflection, etc.



Color: White, gold, gray, etc.

Features: touche-free, Splash-proof (Water)

Model: MH86*110 NL-2 Gang-No network

Place of Origin: Shenzhen

Specifications: Installation hole spacing 60 mm

Input Voltage: 100~240V AC

Operating Temperature: 0°C~40°C

Load Range: Single channel 300W, 2 channels 600W

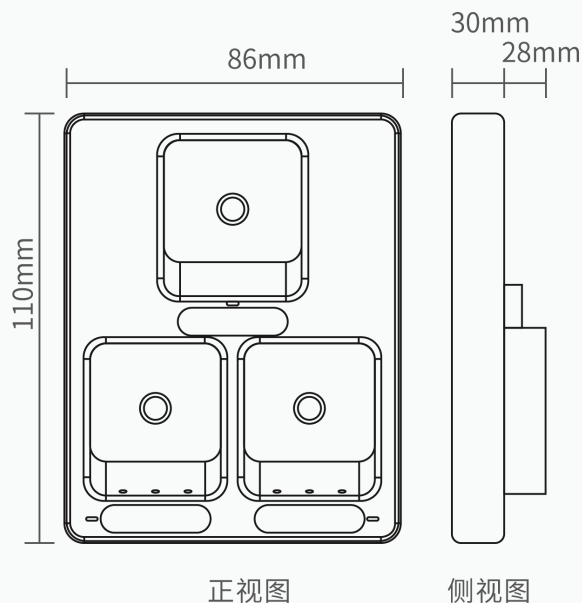
Execution Standard: GB16915.2-2012

Warranty Period: 2 years

Design Life: 5~10 years

Product Size: 86mm*110mm

UV baking process: skin feeling, metal reflection, etc.



Color: White, gold, gray, etc.

Features: touch-free, Splash-proof (Water)

Model: MH86*110 NL-3 Gang-No network

Place of Origin: Shenzhen

Specifications: Installation hole spacing 60 mm

Input Voltage: 100~240V AC

Operating Temperature: 0°C~40°C

Load Range: Single channel 300W, 3 channels 900W

Execution Standard: GB16915.2-2012

Warranty Period: 2 years

Design Life: 5~10 years

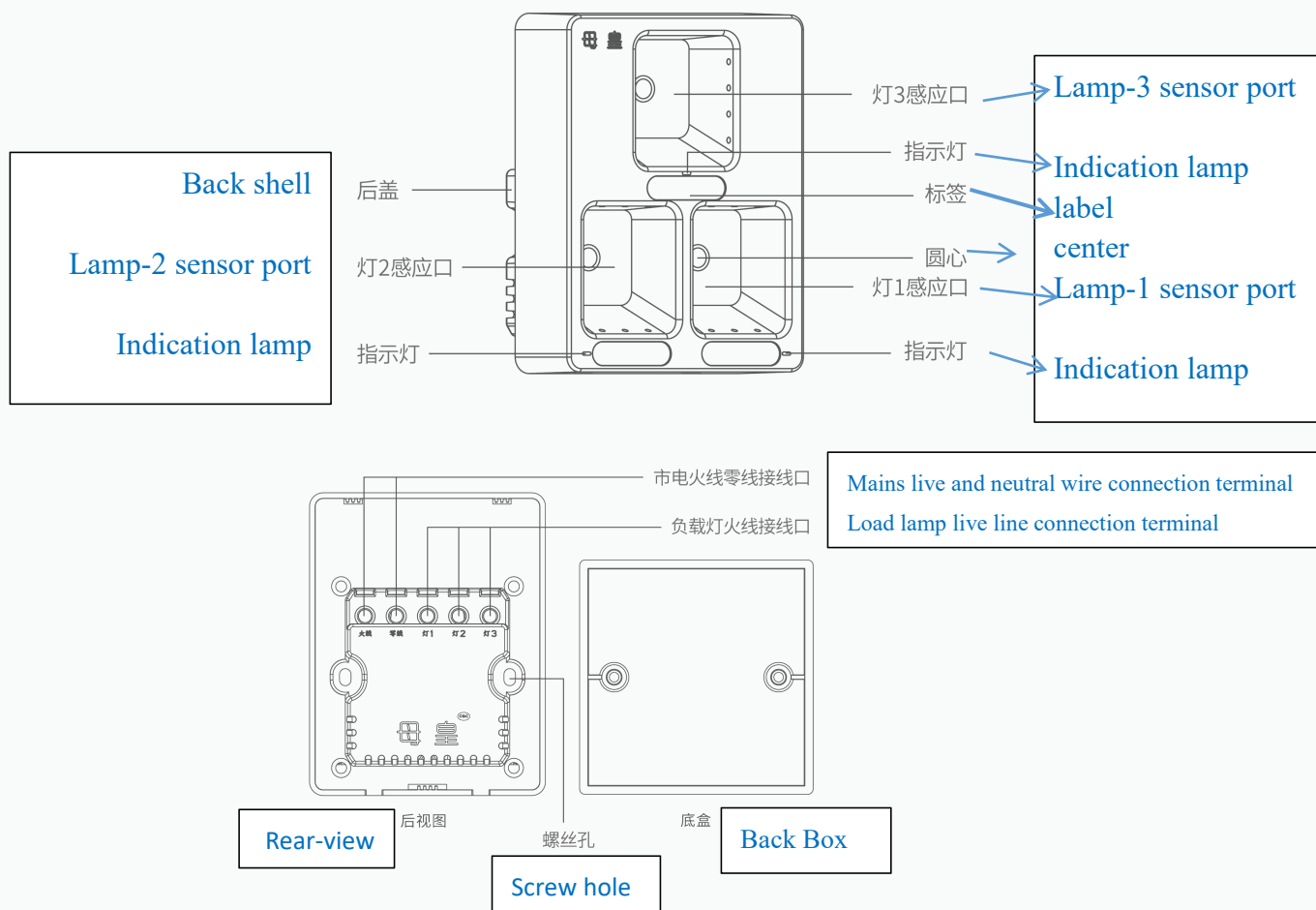
Product Size: 86mm*110mm

UV baking process: skin feeling, metal reflection, etc.

6.10、Indicator Status Description 指示灯状态说明:

产品类型 type	指示灯状态 Color of indicator light	状态描述 The state of the circuit
MH86*110零火-1路-单机版	绿灯 Show green	负载灯:关闭 Load circuit: off
MH86*110 NL-1 Gang-No network	红灯 Show red	负载灯:打开 Load circuit: open
MH86*110零火-2路-单机版	绿灯 Show green	负载灯:关闭 Load circuit: off
MH86*110 NL-2 Gang-No network	红灯 Show red	负载灯:打开 Load circuit: open
MH86*110零火-3路-单机版	绿灯 Show green	负载灯:关闭 Load circuit: off
MH86*110 NL-3 Gang-No network	红灯 Show red	负载灯:打开 Load circuit: open

6.11、Product Introduction 产品介绍:



6.12、Installation Instructions 安装说明:

安装前请确认电源总闸已关闭!

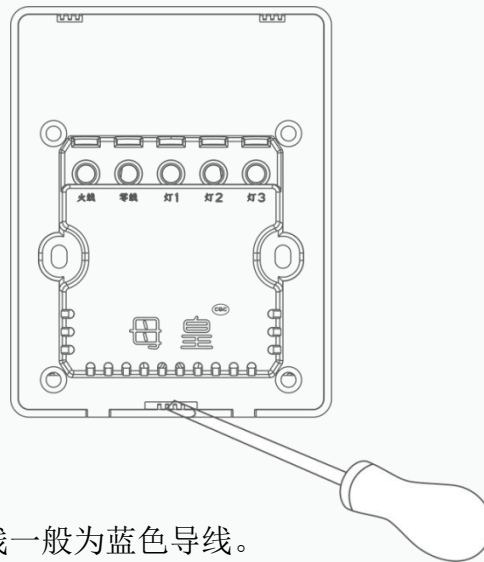
◆使用一字螺丝刀撬开开关面板

◆使用螺丝刀拧松开关背面接线柱螺丝，将火线接入火线孔，将零线接入零线孔,将负载(灯)线接入灯1、灯2、灯3(注:灯1灯2灯3分别对应开关的感应口),确认接线正确后，拧紧接线柱螺丝；

Before installation, please ensure that the main power switch is turned off!

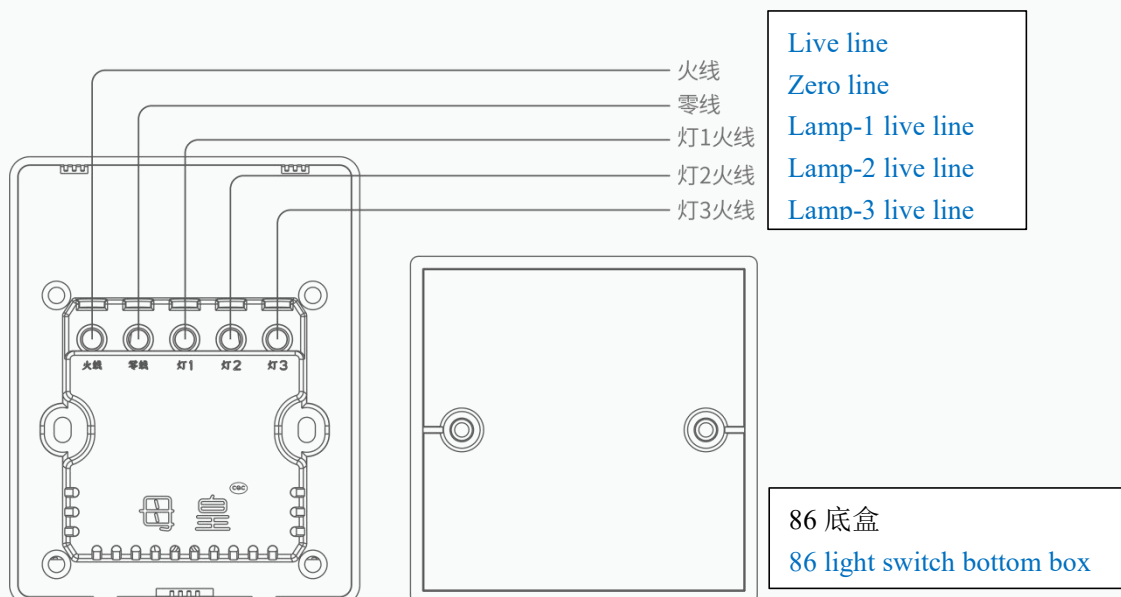
Use a flat head screwdriver to pry open the switch panel.

Use a screwdriver to loosen the screws on the back of the switch, connect the live wire to the live wire hole, connect the neutral wire to the neutral wire hole, and connect the load (lamp) wire to the lamp 1, lamp 2, lamp 3 (Note: lamp 1, lamp 2, lamp 3 correspond to the sensing ports of the switch). After confirming the correct wiring, tighten the screws on the terminal posts.



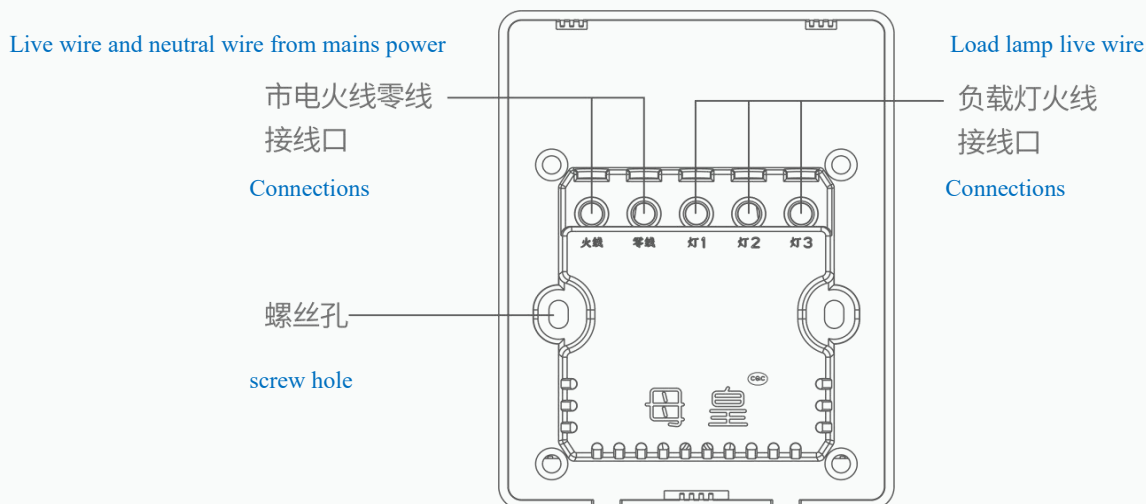
火线一般为红色导线,零线一般为蓝色导线。

The live wire is typically represented by a red-colored conductor, while the neutral wire is typically represented by a blue-colored conductor.



◆使用附送的螺丝将开关固定到墙壁接线盒上,并扣上开关面板。

Use the provided screws to secure the switch to the wall junction box and attach the switch panel.



7. Aging Pass Test 老化通断测试:

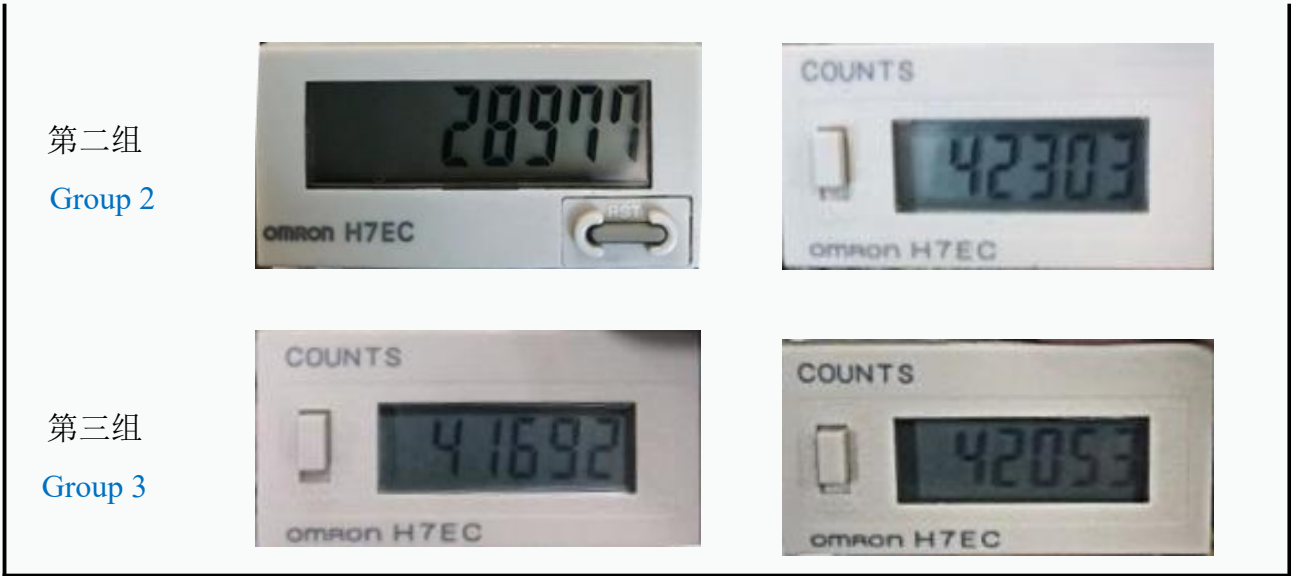
7.1、390W灯负载，通断测试，时间2秒(开) / 2秒(关):

390w Lamp Load, Pass-Off Test, Time 2s (On) / 2s (Off):

以下表格内图片显示数据是测试结果，开+关一个周期为1次

The data displayed in the following table are test results, with one cycle of on + off counted as 1 time.

测试项	1#	2#
Test Group		
第一组		
Group 1		

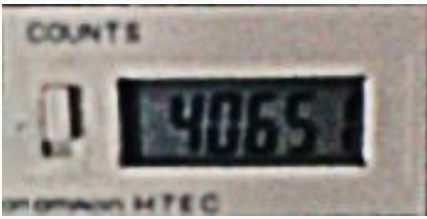


7.2、300W灯负载，通断测试，时间2秒(开) / 2秒(关):

300w Lamp Load, Pass-Off Test, Time 2s (On) / 2s (Off):

以下表格内图片显示数据是测试结果，开+关一个周期为1次

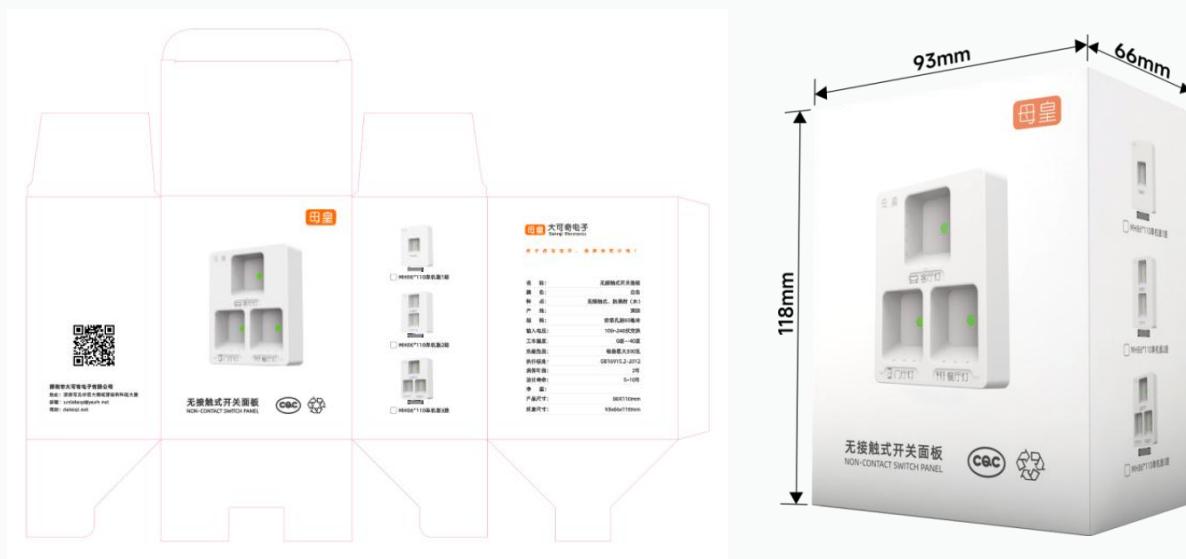
The data displayed in the following table are test results, with one cycle of on + off counted as 1 time.

测试项 Test Group	1#	2#
第一组 Group 1		
第二组 Group 2		

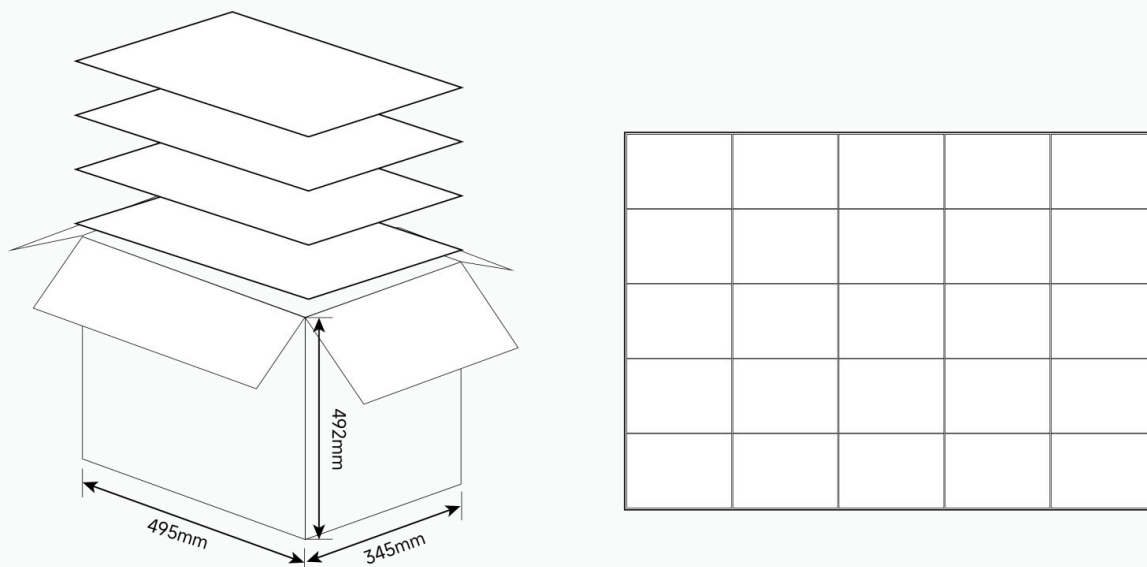


8. Packaging 包装:

8.1、Color Box Size (彩盒尺寸): 93x66x118mm



8.2、Outer Packing (外箱包装): 495x345x492mm





产品:无接触式开关面板

数量: 100个

批号:

规格: 49.5X34.5X49.2 CM

Touch-free light-switch panel

Quantity: 100 pcs

Batch number:

Size:49.5cm*34.5cm*49.2cm

9. Label 标签:

客厅灯	餐厅灯	床头灯	天花灯	筒灯	灯带	射灯	射灯2	吧台灯
客厅灯	餐厅灯	床头灯	天花灯	筒灯	灯带	射灯	射灯3	衣柜灯
门厅灯	走廊灯	吊灯	卫生间	筒灯	灯带	射灯	主卧灯	楼梯灯
门厅灯	走廊灯	吊灯	卫生间	筒灯1	灯带	射灯	次卧灯	排风
阳台灯	厨房灯	吸顶灯	壁灯	筒灯1	灯带	射灯	儿童房	酒柜灯
阳台灯	厨房灯	吸顶灯	壁灯	筒灯2	灯带1	射灯	衣帽间	吊扇灯
玄关灯	过道灯	主灯	背景墙	筒灯3	灯带2	射灯	书房灯	换气
玄关灯	过道灯	主灯	电视墙	镜前灯	射灯1	射灯1	储物间	凉霸

以下设备必须配置16安3500瓦的开关:

空调	空调	空调	风暖	风暖	风暖	灯暖	灯暖	浴霸
空调	空调	空调	风暖	风暖	灯暖	灯暖	灯暖	浴霸

10. Demonstration Video 演示视频:

Please click this link to watch the video: <http://dakeqi.net/image/diand.mp4>

看视频请点这个链接: <http://dakeqi.net/image/diand.mp4>

11. Photos Of The Demo Box 演示器的照片:

Size(尺寸): 260*260*90mm



12. Design Modification History List 设计变更履历：

Part No.（编号）： Model Name（型号）： MH86*110 零火-1/2/3 路-单机版

Item 编号	ECN No. 变更号	Details of the Modification 变更内容	Date 日期	version 版本	Remark 备注
1	/	第一版 Initial version	2021. 11.19	A1	/
2	/	6、8	2022.12.15	A2	/
3	/	英文部分 English part	2023-12-18	A3	/