LED Dimmer Controller Kit

- Compact and lightweight, with a housing made from Covestro/Samsung V0-rated flame-retardant PC material;
- Features a soft-start gradual dimming function for greater visual comfort;
- Uses a 2.4GHz RF wireless signal, eliminating the need for signal cables;
- Ultra-sensitive touch brightness ring for adjusting brightness;
- Includes a brightness shortcut function for one-touch switching between brightness levels;
- A single remote control can manage an unlimited number of controllers within its effective range;
- Controllers within the same group or zone feature dynamic synchronization;
- LED status indicators provide operational feedback.

M1A

P1

Technical Specifications

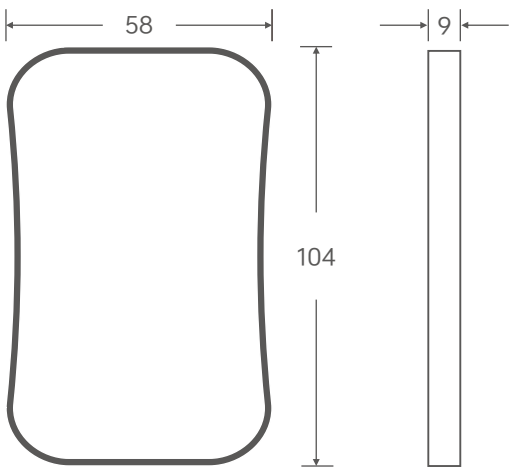
M1A+P1

Remote Control	M1A
Product Color	White
Dimming Type	DIM
Wireless Type	RF 2.4GHz
Operating Voltage	3 VDC (1 CR2032 button cell battery)
Standby Current	< 2uA
Remote Control Range	30 meters (under ideal conditions)
Operating Temp.	-10℃~50℃
Product Weight	40g±5g
Dimensions	104×58×9 mm (remote control) 108×63×14 mm (remote control+holder)

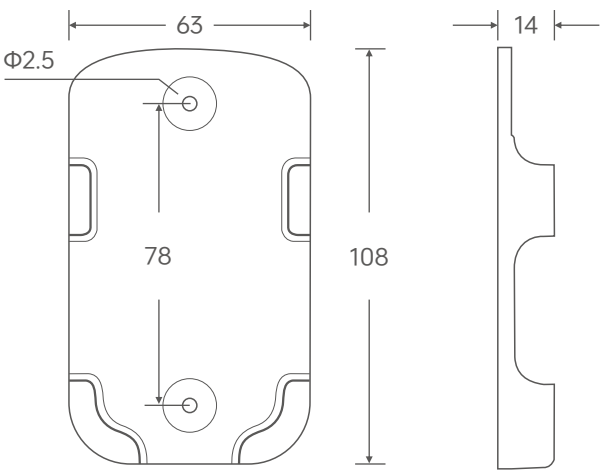
Controller	P1
Input Signal	RF2.4GHz
Input Voltage	12-48V ⎓
Output Voltage	12-48V ⎓
Number of Channels	1 channel
Reset Switch	Yes
Load Current	Max. 11A
Load Power	132W@12V 240W@24V 288W@36V 384W@48V
Protection	Short-circuit, over-temperature, overcurrent, and reverse connection protection
Product Weight	46g±5g
Dimensions	L91×W37×H21(mm)

Product Dimensions

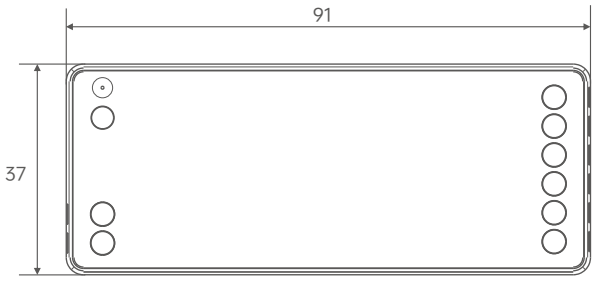
Unit: mm



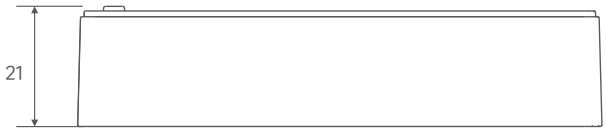
Remote Control



Remote Control Holder



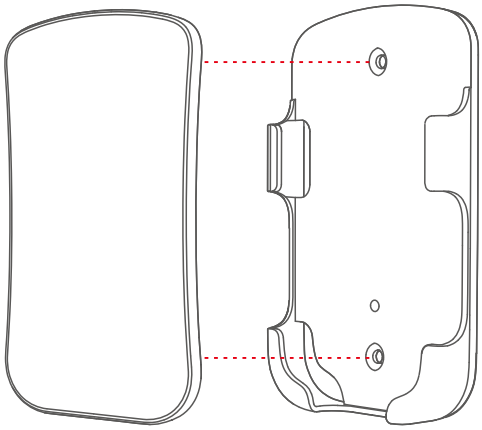
Controller

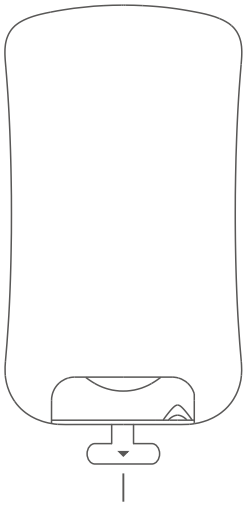


Product: 41mm

Cutout dimensions: Φ 43-45mm

Product Installation



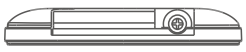


Two ways to fix the remote holder:

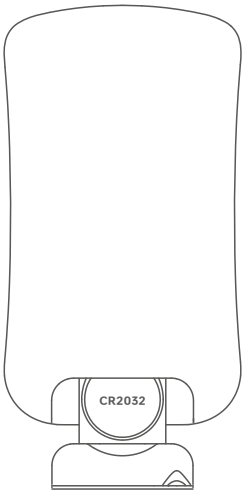
1. Fix the remote holder in the wall with two screws.
2. Fix the remote holder in the wall with a 3M adhesive.

Note: Please pull out the battery tab before first use

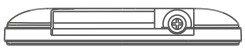
Replacement Battery



① Use a screwdriver to unscrew the bottom screw.

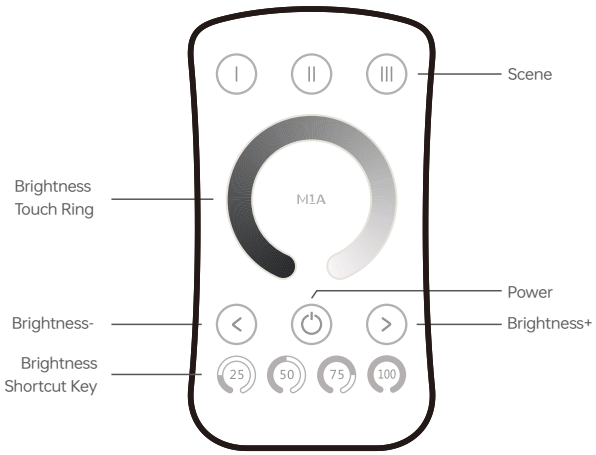


② Pull out the battery compartment and replace the battery.



③ Tighten the screw after replacing the battery.

Features



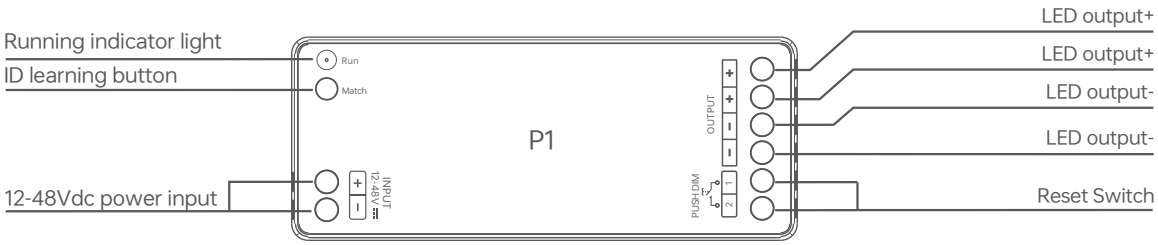
Power: Turns the light on or off.

Brightness Touch Ring: Touch to change the light's brightness.

Brightness +/-: Adjusts the brightness; short press for 11 levels; long press for 1-6 seconds for 255 levels of continuous adjustment.

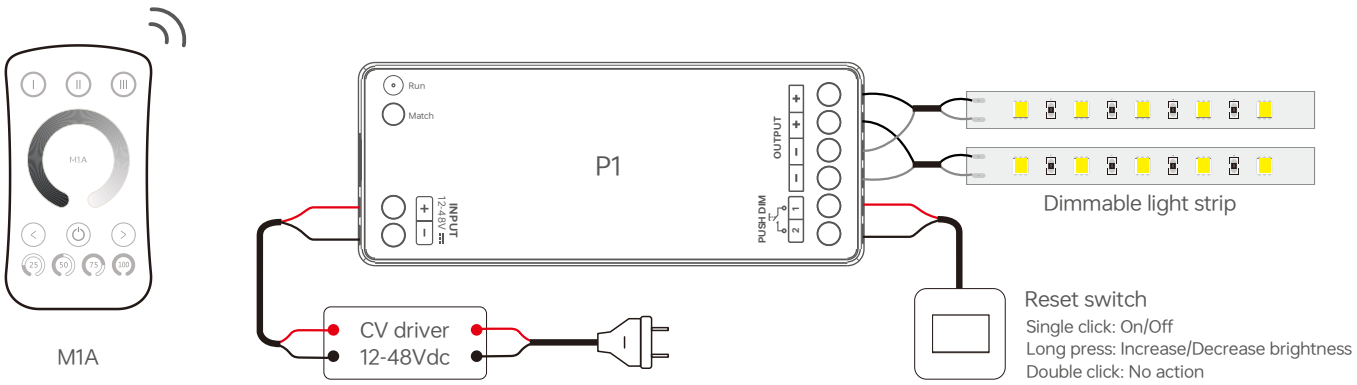
Brightness Shortcut Key: 25%, 50%, 75%, 100% .

Scene: Short press to recall a scene; long press for 2 seconds to save the current light state to the scene.



Controller

Wiring Diagram



Pairing

Button Pairing

1. Briefly press the ID learning button on the controller. The load indicator will flash. Please complete the following steps within 10 seconds.

2. Mini Pro Series Single-Zone Remote Control with Pairing:

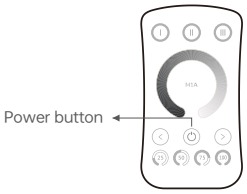
Press and hold the power button until the controller's load indicator flashes rapidly and then stays lit, and the color ring changes when touched.
The programming is complete.

Power-on synchronization

1. After the controller has been powered off and then powered back on, please complete the following steps within 10 seconds.

2. Mini Pro Series Single-Zone Remote Control with Pairing:

Press and hold the power button until the controller's load indicator flashes rapidly and then stays lit, and the color ring changes when touched.
The programming is complete.



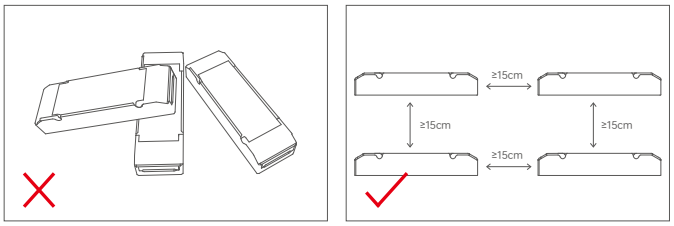
Note: A single controller can pair with up to 10 remote controls. If more than 10 remote controls are paired, the ID code of the first remote control will be automatically deleted.

Clear Code

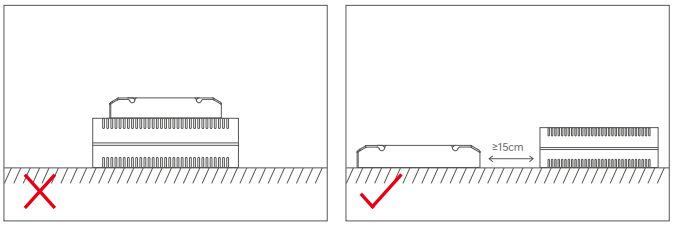
How to delete all remote controls:

Press and hold the "Learn" button on the controller for 6 seconds. The controller's load indicator will flash quickly four times and then remain lit, indicating that the code has been successfully cleared.

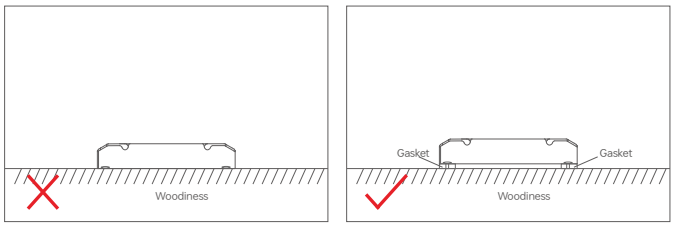
Installation Precautions



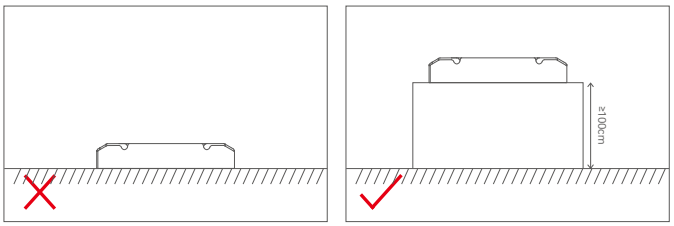
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



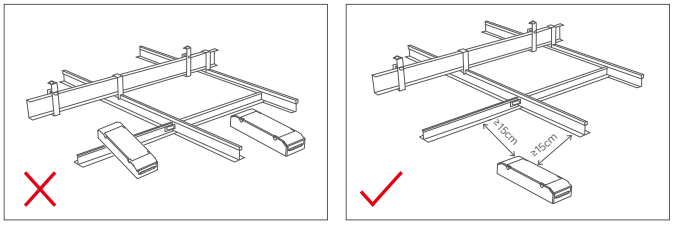
Do not place the product on top of a power supply. The distance between the product and the power supply should be ≥15 cm so as not to affect heat dissipation and the lifespan of the product.



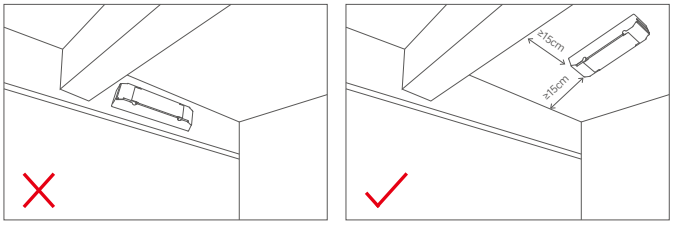
Do not fix the product tightly against the wooden board with screws. Please add a washer ≥7 mm thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



Please do not place the products on the floor. The distance between the product and the floor should be ≥100cm so as to avoid signal interference.



Do not allow the product to come into large-area contact with metal objects (e.g. keel frames). The separation distance shall be ≥15 cm to avoid signal interference affecting operation.



Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≥15cm so as to avoid signal interference.

Attentions

- Product installation and commissioning should be done by a qualified professional.
- Products are and not lightning proof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- During installation, avoid being close to large-area metallic objects or stacking the devices, so as to prevent signal interference from affecting the usage.
- Avoid installing in thunderstorm-prone areas, areas with strong magnetic fields, and high-voltage areas.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

* The contents of this manual are subject to change without prior notice. In case of any discrepancy between the description and actual functions, the physical product shall prevail. Please feel free to contact us .

Warranty Agreement

Warranty periods from the date of delivery : 5 years.
Free repair or replacement services for quality problems are provided within warranty periods.
Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by Our company.

1. Repair or replacement provided is the only remedy for customers. Our company is not liable for any incidental or consequential damage unless it is within the law.
2. Our company has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.