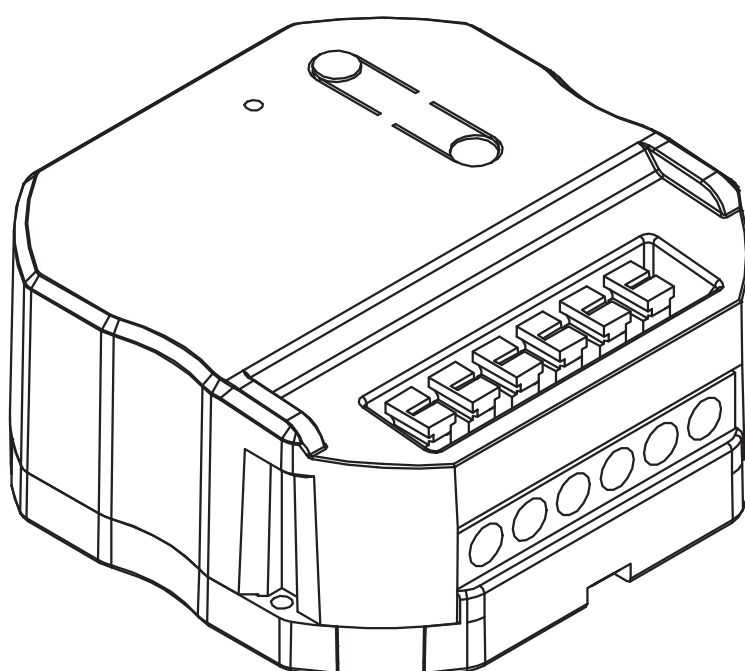


INSTRUCTIONS MANUAL



Triac Dimmer Controller

Product Code: AR21, AR21-MW

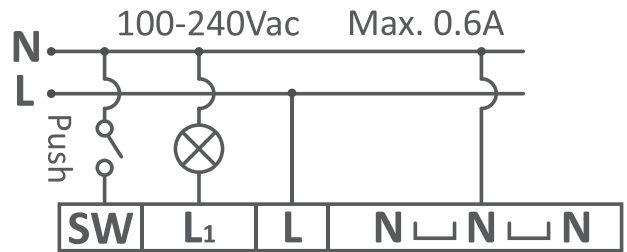
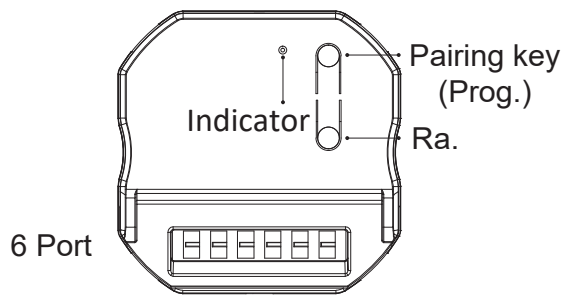
Ver 5.0



A. PRODUCT SPECIFICATIONS

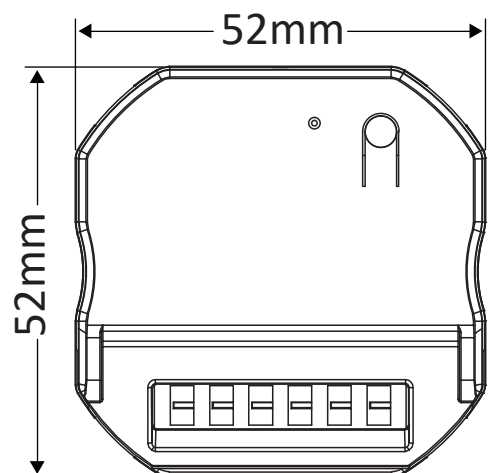
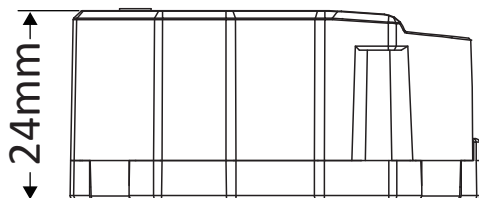
1CH

RC | Trailing Edge



PRODUCT CODE	AR21	AR21-MW
LOAD	0.6A Max. 100-240Vac 50/60Hz	
RADIO FREQUENCY	433Mhz for Kinetic Switch & Remote	
SMART PROTOCOL	\	2.4Ghz, Matter over Wi-Fi
WALL SWITCH COMPATIBLE	Yes	
CHANNEL	1CH	
IP RATING	IP20	
TEMP. RANGE	-20 ~ 40°C	
HOUSING TEMP.	Ta: 40°C Tc: 80°C	

B. PRODUCT DIMENSIONS

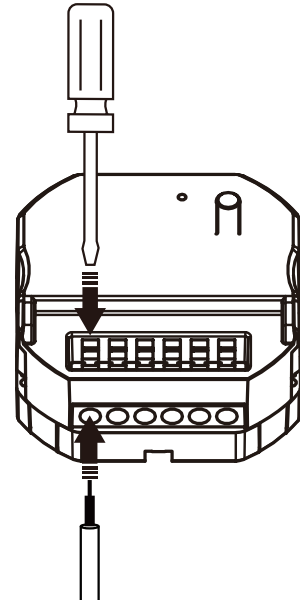
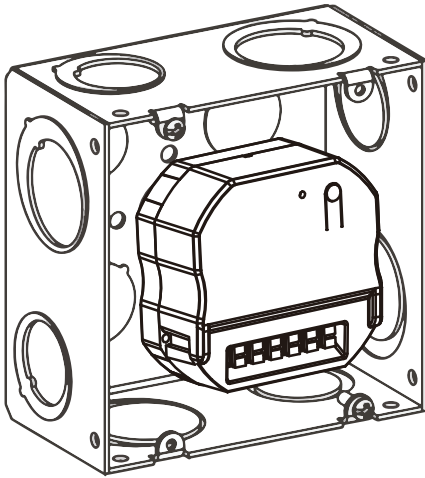


C. INSTALLATION

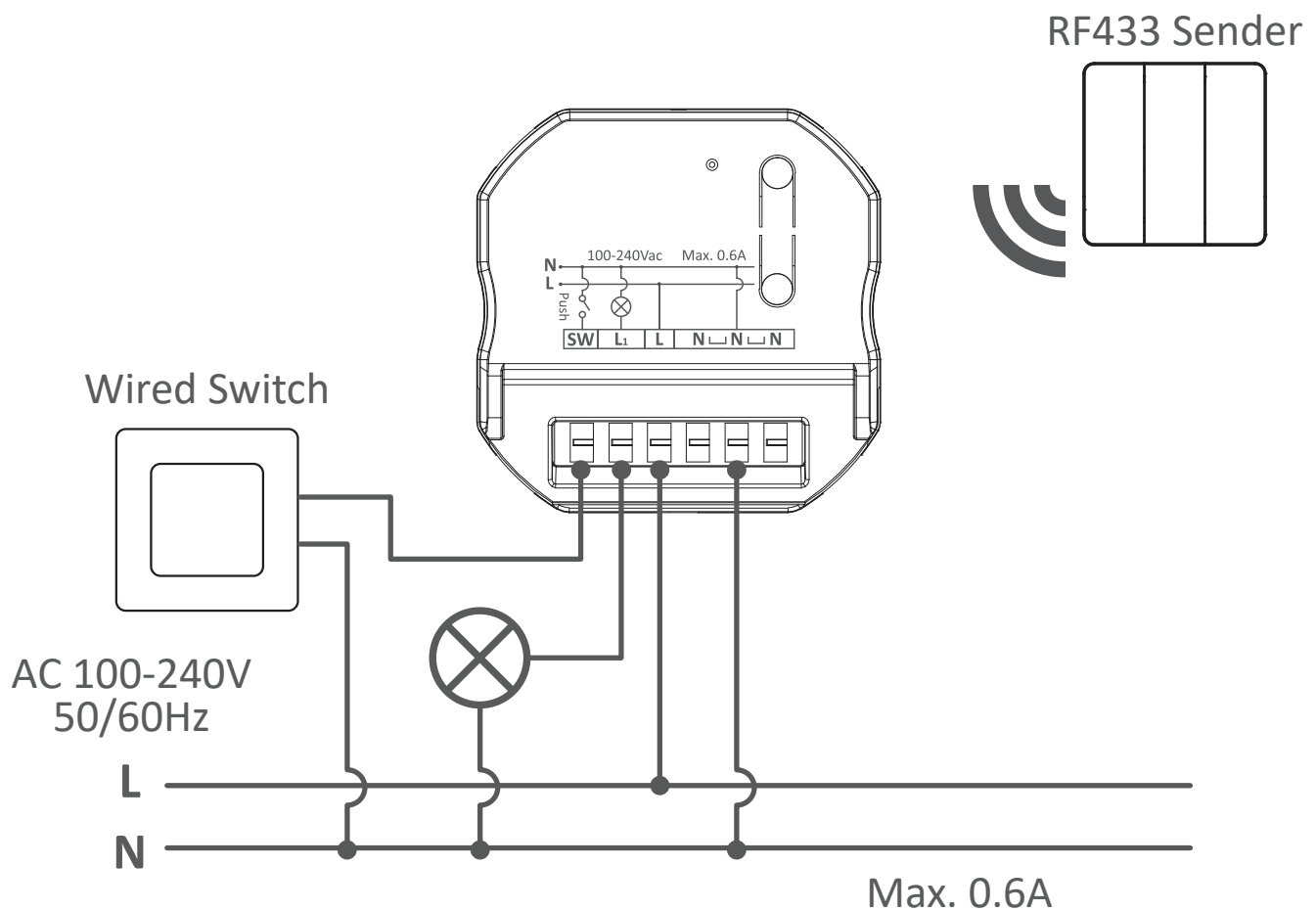


INSTALLATION CAUTIONS:

Installation must be carried out by licensed electricians.



D. WIRING DIAGRAM



a. Power must be turn off before installation.

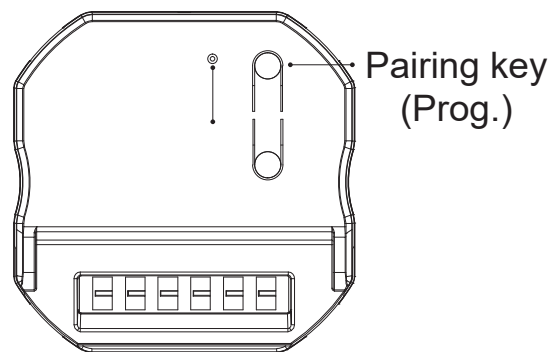
b. Installation must be carried out by professional electrician.

E. PAIRING PROCESS OVERVIEW

Short Press Prog. Key to:

Turn On (Indicator light steady green)

Turn Off (Indicator light flashing green)



Long Press Prog. Key:

or Turn on/off Power Supply

Functions:

5 Times

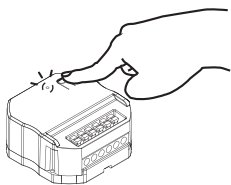
7 Times



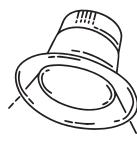
F. PAIRING - WIRELESS RF433 SENDER

Option 1.

- Press and hold the Prog. Key for **3s** until the **RED** indicator flashes slowly, and release to enter RF pairing window (the light will flash **Twice** and stay on).
- While the RED indicator on the controller is flashing slowly, press the RF sender **ONCE** to complete the pairing.



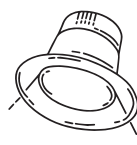
Hold on Prog. key over **3s**
Indicator: **RED** flashes **slowly**



Light flash **Twice**
and stay on

Option 2.

- Turn On /Off the power supply 5 times constantly (*the **GREEN** indicator is on/off **5 times** constantly) to enter RF pairing window.
- While the RED indicator on the controller is flashing slowly, press the RF sender **ONCE** to complete the pairing.



Light flash **Twice**
and stay on

Turn On/Off the power supply **5 times** constantly
Indicator: **RED** flashes **slowly**

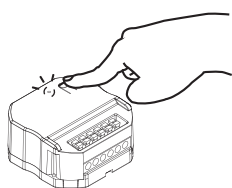
*COMPATIBLE RF433 SENDER(ORDER SEPARATELY)

- 1.Kinetic Switch: Self-powered
- 2.Battery Switch: Battery-powered
- 3.Battery Remote: Battery-powered

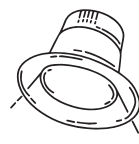
***Please refer to the related RF sender's instruction manual on how to work.**

G. PAIRING - SMART APPLICATIONS

Option 1. Press and hold the Prog. Key for **6s** until the **RED** indicator to **flash quickly** and release to enter App pairing window, the light would flash **3 times** and stay on.



Hold on Prog. key over **6s**
Indicator: **RED** flash **quickly**

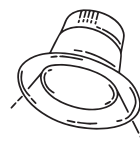


Light flash **3 times**
and stay on

Option 2. Turn On/Off the power supply **7 times** constantly (*the **GREEN** indicator is on/off **7 times** constantly) to enter App pairing window, the light would flash **3 times** and stay on.



Turn on/off the power supply **7 times** constantly
Indicator: **RED** flash **quickly**



Light flash **3 times**
and stay on

matter App Pairing *(*the only RF version controller can't support)*

Preparation for matter over wifi App pairing:

- a. Strong WiFi Signal cover is important to run this matter over WiFi receiver.
- b. Only **2.4G** WiFi router compatible.
- c. Open Location access to your preferred smart App before pairing.
- d. Turn on Bluetooth on your smart phone.



2.4G WiFi



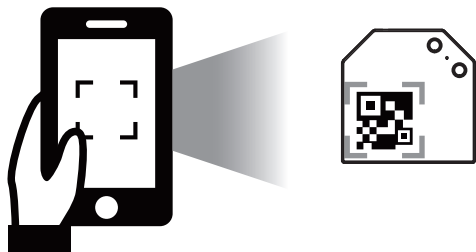
Location



Bluetooth

*COMPATIBLE APPLICATIONS

Simply scan the QR code on the controller with one of apps that compatible with Matter to quick and easy setup.



***Note: The Matter LED Controller requires a control center or a hub of the selected app platform!**

The Matter controller can work with all certified smart home platforms, such as:

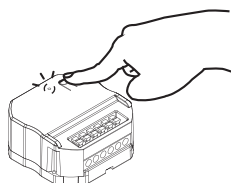
 HomeKit  Google Home  Alexa  SmartThings

Other App:  *Only support local control.

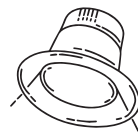
Voice control: supports Apple HomePod, Amazon ECHO and Google Nest speakers.

H. UNPAIRING - RF433 SENDER

Press and hold the Prog. Key for **9s** until the indicator to **flash alternately between Red and Green** and release to enter RF sender removing window (the light would flash **twice** and stay on).



Hold on Prog. key over **9s**
Indicator: **Red & Green**
alternating flashing

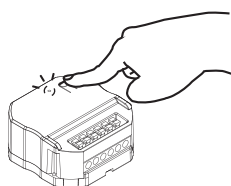


Light flash **Twice**
and stay on

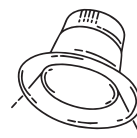
***Please also press RF Sender once to confirm whether the pairing has been cleared.**

I. FULL FACTORY RESET

Press and hold the Prog. Key for **15s** until the indicator flashes **Yellow-green** to complete a full factory reset (the light would flash **5 times** and stay on).



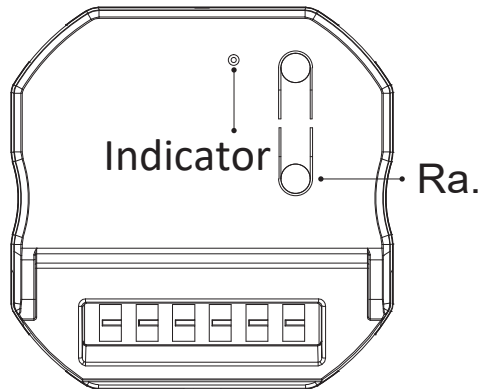
Hold on Prog. key over **15s**
Indicator: **Yellow-green**
flashing



Light flash **5 times**
and stay on

***Note: this will clear all RF sender and APP pairings on this controller!**

J. MINIMUM BRIGHTNESS SETTING



Ra. key is used to set the minimum dimming level of the dimmer controller to avoid flickers and the light is completely turned off to improve compatibility.

Once the minimum dimming level is set, the dimmer receiver will not dim below the set level.

***How to use Ra Key:**

You may choose the minimum dimming level at any time through press the Ra Key if required.

Single press the **Ra Key** to set the dimming level.

10 minimum dimming levels are provided on the dimmer controller. Press the Ra. Key once to increase 1 level, until to the 10th level and it will return back to 1st level and so on.

***Set the minimum dimming level**

Once reached the minimum dimming level, leave the dimmer controller as it. It shall automatically remembers the set level to operate, i.e. it will not dim the load or light below this level, even using App with a clear brightness percentage, the dimmer controller would keep the set level as the lowest level to operate.