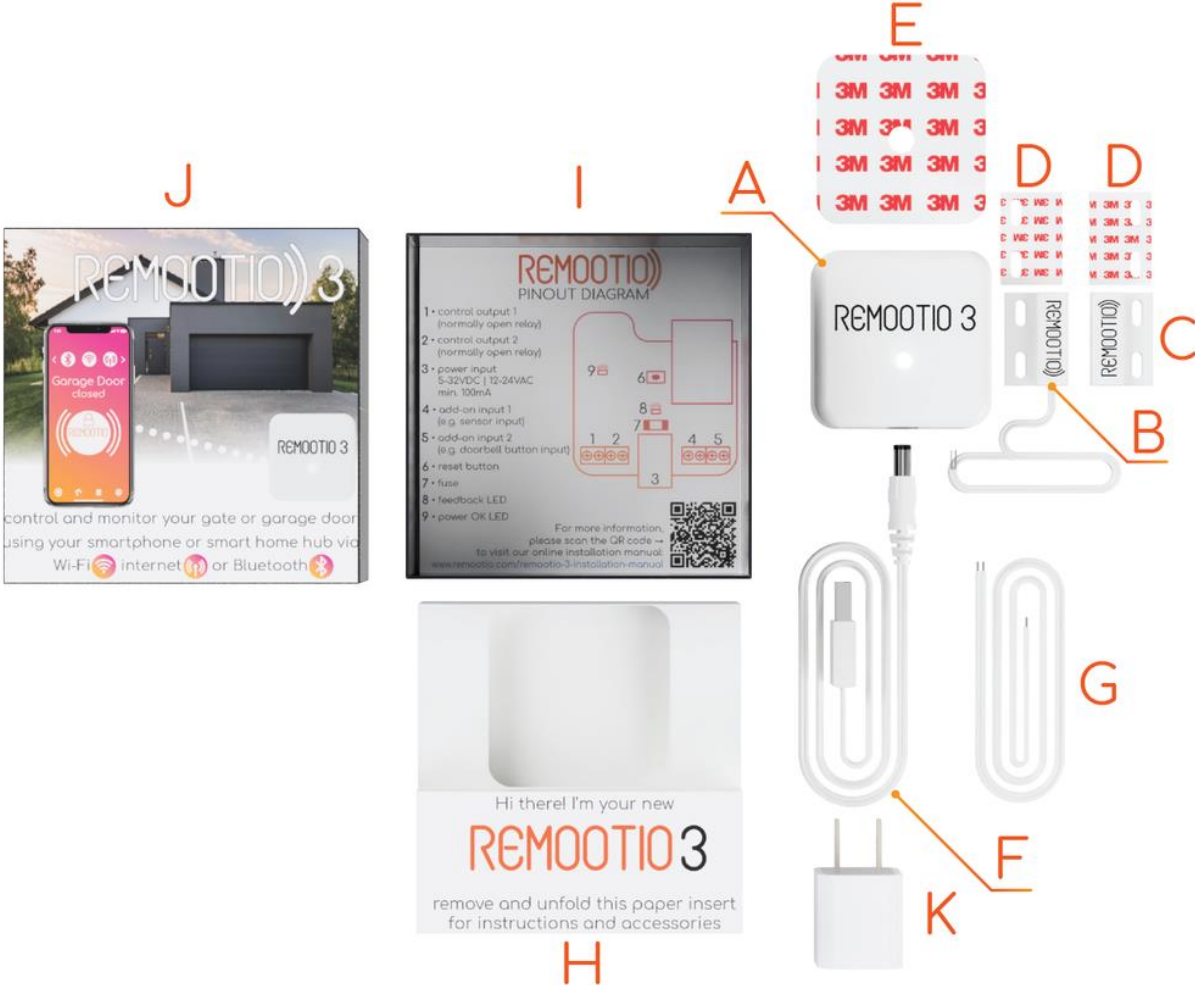# Remootio 3 installation manual

Thank you for choosing Remootio 3!

Step 0 - Unboxing

Open the box and remove the Remootio device. The wires, double-sided adhesives and the sensor can be found under the removable paper insert.

Your Remootio 3 kit contains the following items:

- **A** - 1 x REMOOTIO 3 unit

- **B** - 1 x Sensor (wired part | 4m / 13.12Ft)

- **C** - 1 x Sensor (wireless part)

- **D** - 2 x Double-sided adhesives for mounting the sensor

- **E** - 1 x Double-sided adhesives for mounting the Remootio unit

- **F** - 1 x Power cord (USB A to barrel jack | 1 m / 3.28 feet)

- **G** - 1 x Control wire (1 m / 3.28 feet)

- **H** - 1 x Installation manual

- **I** - 1 x Bottom part of packaging

- **J** - 1 x Top part of packaging

- **K** - 1 x USB charger (depending on where you order from, the product is shipped with type A (US), type C (EU), type G (UK) or type I (AUS) charger.

Read the instruction manual carefully and follow the instructions

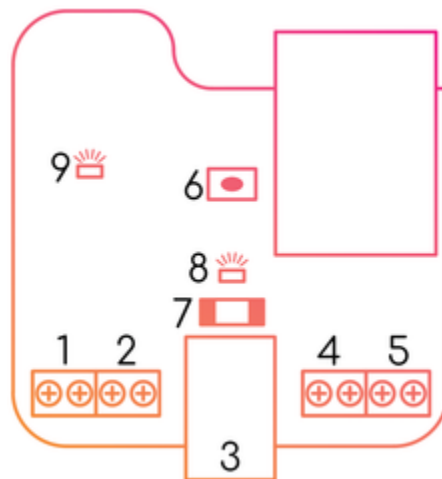The printed instruction manual can be found on the back side of the paper insert.

Before you begin, **make sure that the circuit breaker of the gate or garage door is switched off** and there is no power in the system.

Step 1 - Remove the plastic cover

Use a cross head screwdriver to remove the screw from the Remootio unit and remove the plastic cover.

Remootio 3 pinout diagram:

1. control output 1 (normally open relay)

2. control output 2
   (normally open relay)

3. power input
   5-32VDC | 12-24VAC
   min. 100mA

4. add-on input 1
   (e.g. sensor input)

5. add-on input 2
   (e.g. doorbell button input)

6. reset button

7. fuse

8. feedback LED

9. power OK LED

Step 2 - Wiring the control output

Connect the control output of the Remootio unit to the appropriate input terminals of your gate or garage door. In some cases, there is only one input pair (single input) and in other cases there are two input pairs (dual input) on the control board that has to be triggered to open or close the gate or garage door.

Based on the type of required control input, there are two types of gates and garage doors:

- A single signal (impulse) can open, stop and close the gate or garage door

- Two separate signals (impulses) needed:
    - One signal for opening
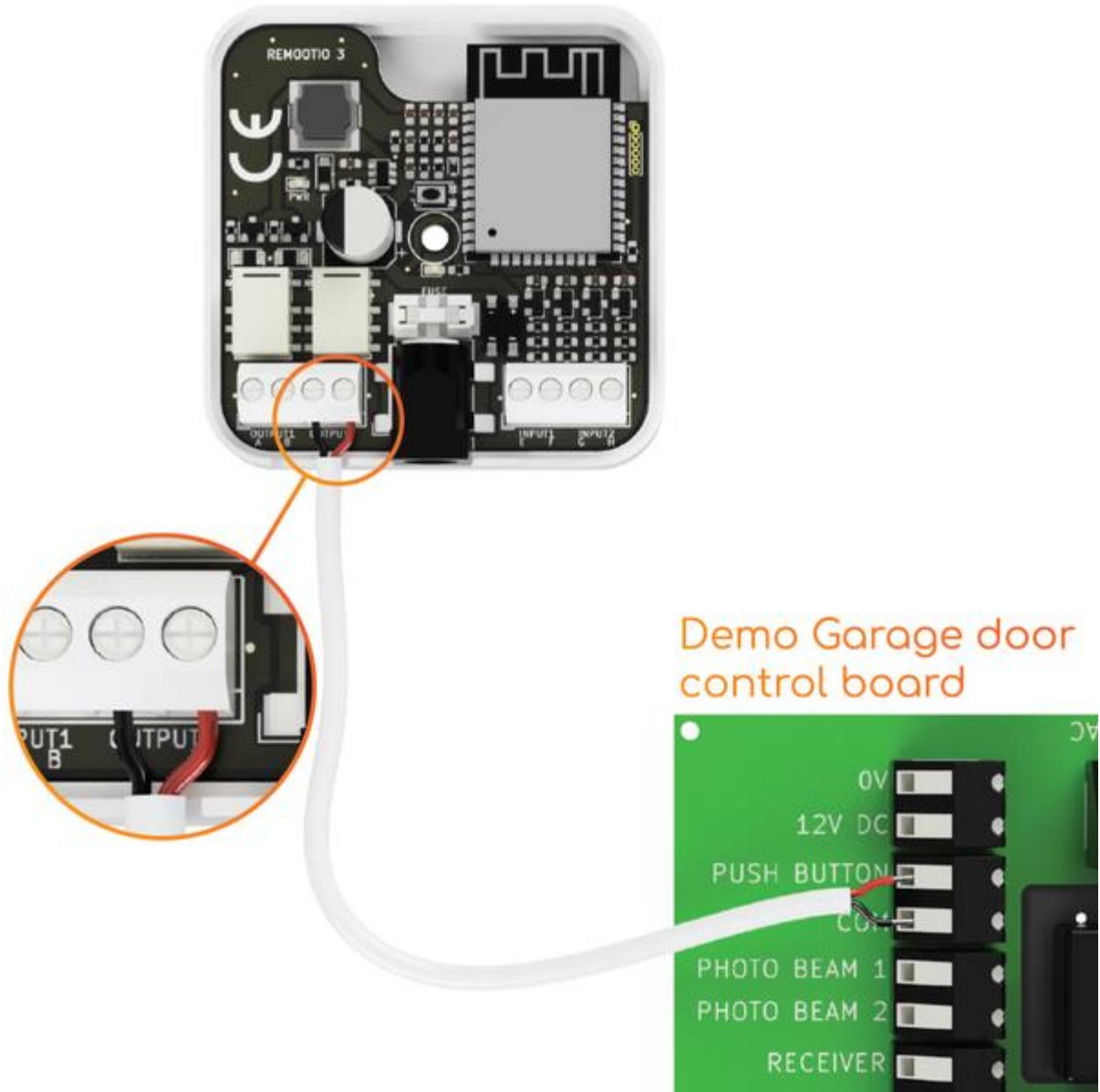   - and another signal for closing.

Enter the make and model number of your gate or garage door below to search for the correct wiring diagram.
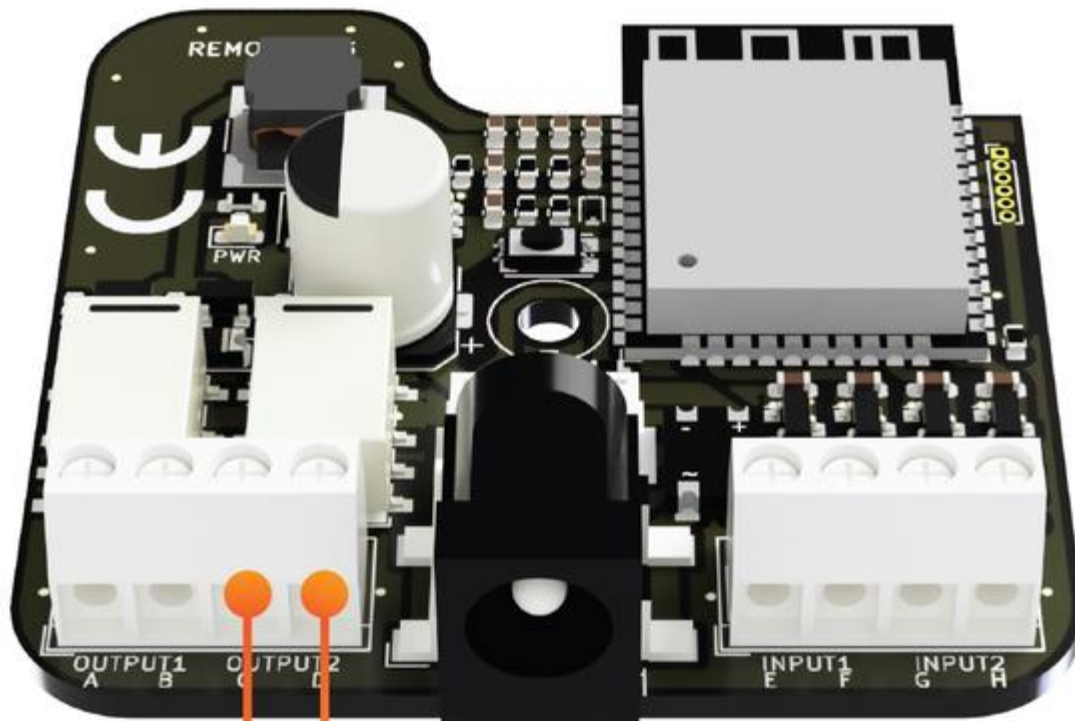
Single input type:

Use the included pair of wires to connect Remootio's control output to the appropriate input terminal of your garage door / gate control board. One of the leads need to be wired to the "0V", "GND" or "COM" terminal and the other lead to "CYC", "IMPULSE", "IMP", "KBUTT", "OPERATE", "OSC", "PB", "PP", "SBS", "SS", "START", "STRT", "SW", "TRG", "WALL BUTTON" or "WALL CONTROL" depending on the manufacturer's naming convention.

(The outputs are polarity independent, which means that within the same output terminal, the order of the wires does not matter).

Please visit https://www.remootio.com/pages/compatibility and enter the make and model of your gate or garage door to search for the correct wiring diagram.

Demo Garage door control board

Note: The color of the wires may be black or white.

Connect to "COM", "GND" or "0V" terminal of the gate / garage door control board
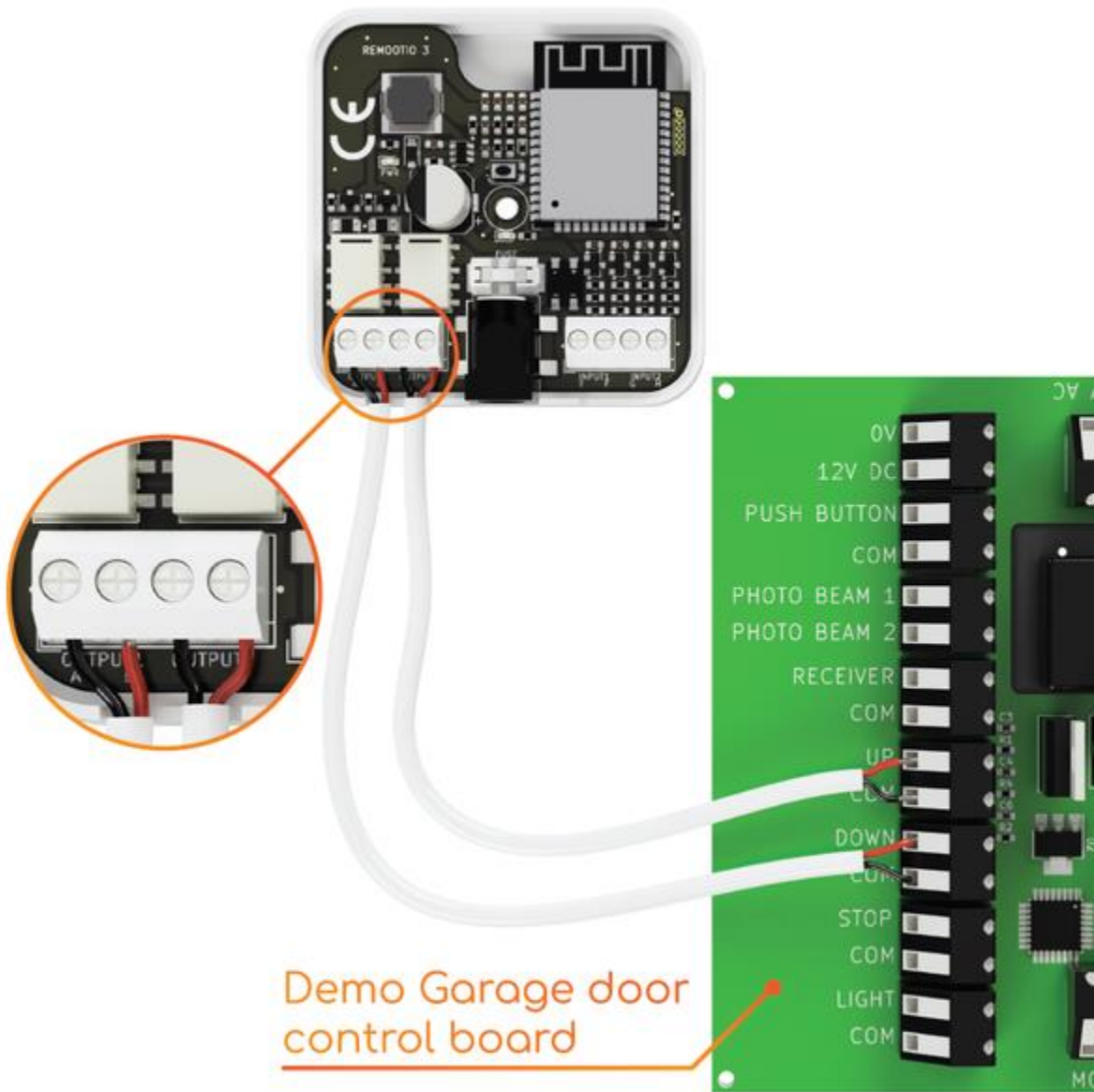
Connect to "CYC", "IMPULSE", "IMP", "KBUTT", "OPERATE", "OSC", "PB", "PP", "SBS", "SS", "START", "STRT", "SW", "TRG", "WALL BUTTON" or "WALL CONTROL" terminal of the gate / garage door control board.
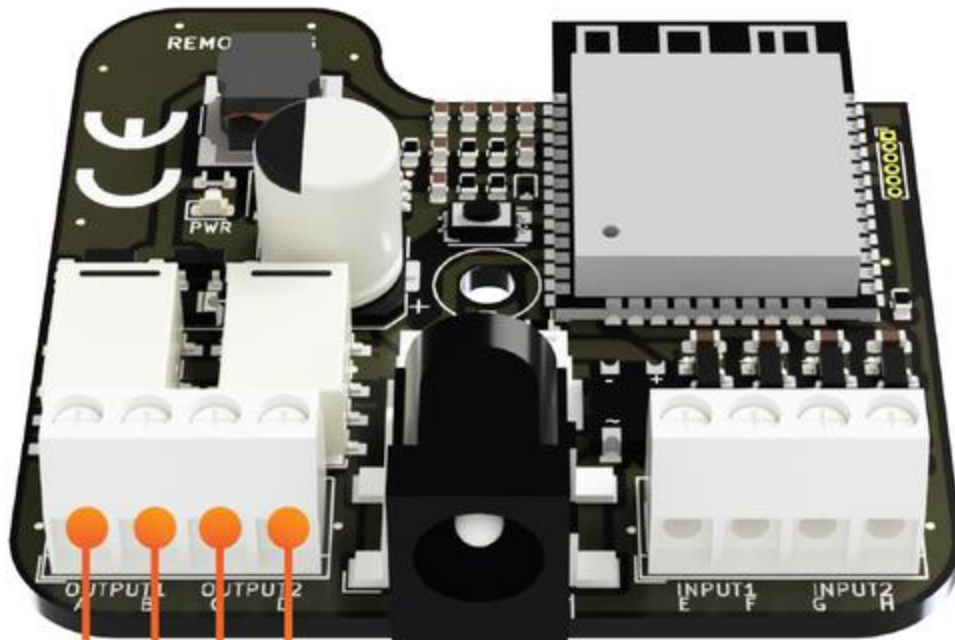
Dual input type (separate input for opening and closing):

Connect Remootio's output #1 to the "open" input terminal of your gate or garage door control unit and connect Remootio's output #2 to the "close" input terminal of your gate or garage door control unit. If you have a gate or garage door opener that needs both outputs to be wired to the control board, please go to the settings menu of Remootio and select "output configuration" and please choose the "*Output 1: output to open | Output 2: output to close*" option.

For more details about the output configuration, please visit this article.

(The outputs are polarity independent, which means that within the same output terminal, the order of the wires does not matter).

Demo Garage door control board

Connect to "COM", "GND" or "0V" terminal of the gate / garage door control board

Connect to "UP", "OPEN" or "▲" terminal of the gate / garage door control board.

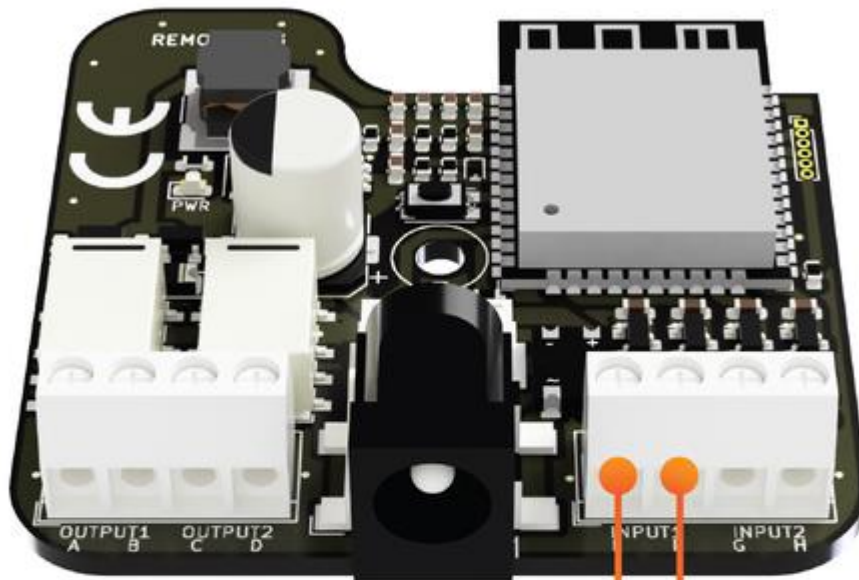Connect to "COM", "GND" or "0V" terminal of the gate / garage door control board

Connect to "DOWN", "CLOSE" or "▼" terminal of the gate / garage door control board.

Step 5 - Sensor installation

Connect the sensor to terminal 4 of the Remootio 3 unit and use the included adhesives to mount the wireless part of the sensor on the moving part of the gate or garage door in such a way that it is not further than 30mm from the wired part of the sensor when the gate or garage door is closed.

For more details and images about about the sensor installation, please check our sensor installation tutorial. When enabling the sensor interface in the app, please make sure to select the corresponding input (in this example "input 1").
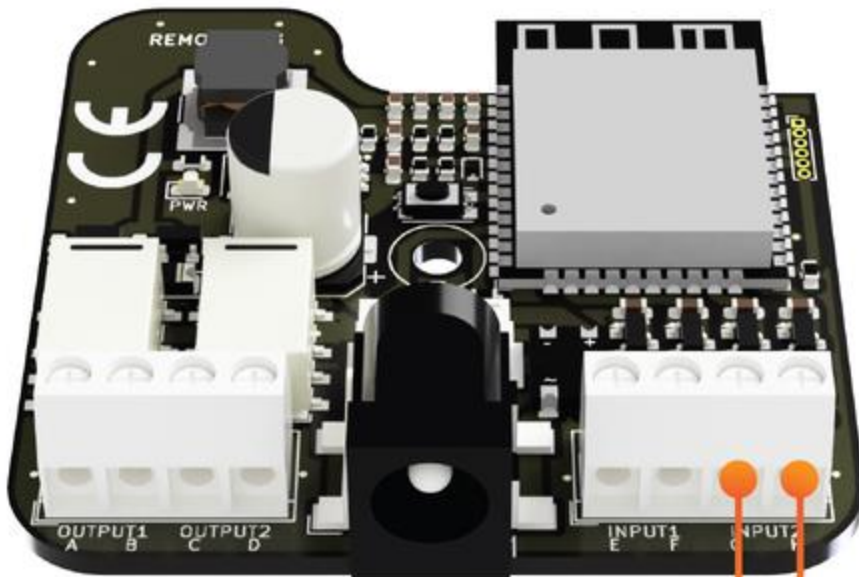

Connect to the wired part of the sensor
(sensor wires are polarity independent)

Connect to the wired part of the sensor
(sensor wires are polarity independent)

Step 3 - Connecting an accessory

You can connect a manual control button or a doorbell button to terminal 5 of the Remootio board. (The inputs are polarity independent, which means that within the same input terminal, the order of the wires does not matter).

Connect a "normally open" type, voltage-free doorbell button (polarity independent)

Connect a "normally open" type, voltage-free doorbell button (polarity independent)

Step 4 - Assemble the Remootio unit back together

Use a screwdriver to assemble the Remootio unit. Make sure that you do not damage the wires during the assembly.

Apply the double-sided tape on the back side of Remootio as shown below:

Do not pinch the wires

Step 5 (optional) - Attach Remootio to a surface

You can use the double-sided adhesives to attach Remootio to the wall of your garage or you can simply place the unit with or without using the provided adhesive inside the weatherproof plastic enclosure of your electric gate opener.

Step 6 - Powering Remootio

Before you begin, **make sure that the circuit breaker of your gate or garage door is switched off** and there is no power in the system.

There are four ways you can power your Remootio 3 unit:

Use the included USB charger to power the Remootio 3 device

 The correct type of USB charger will be included in your kit depending on where you order from.
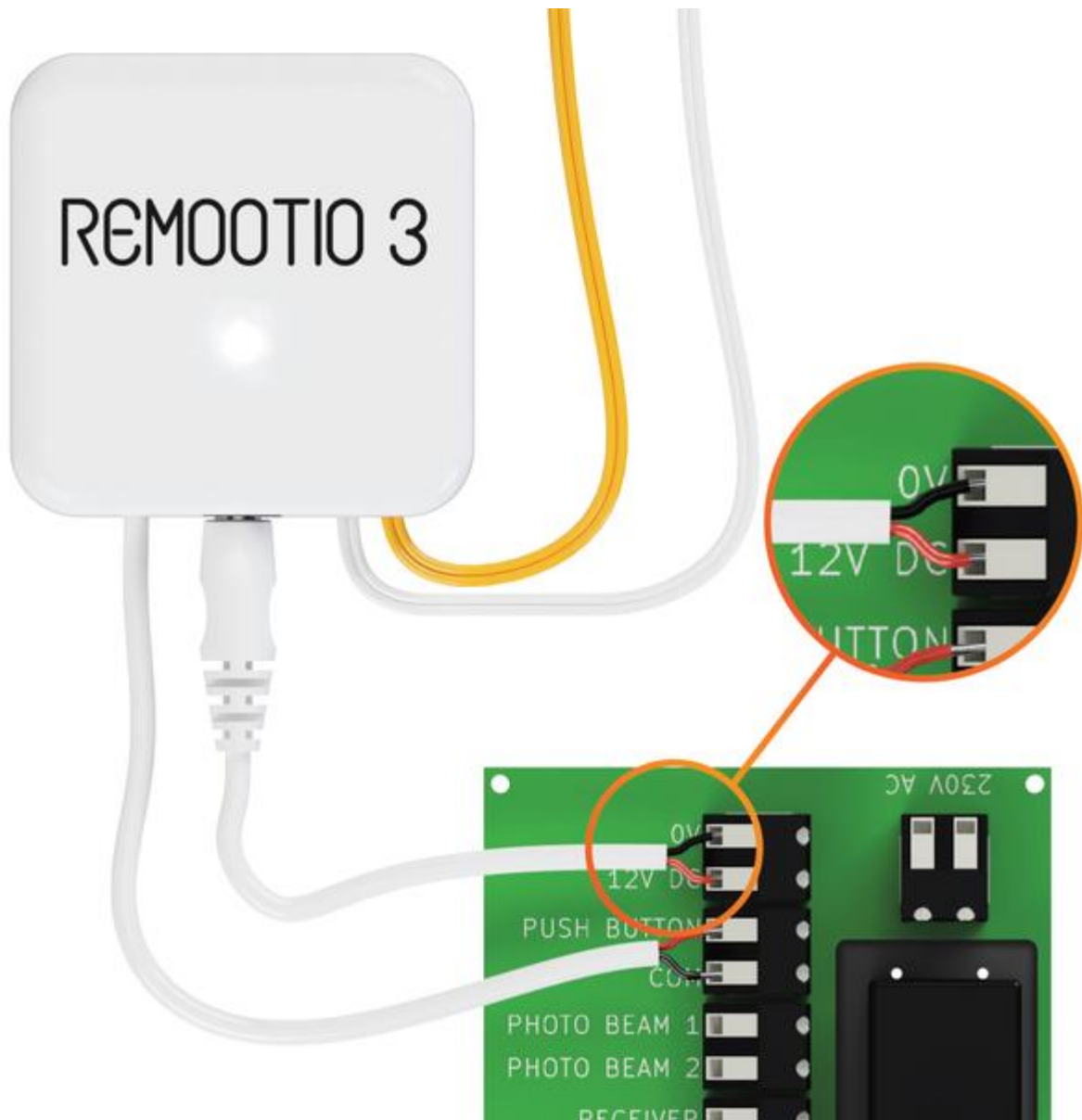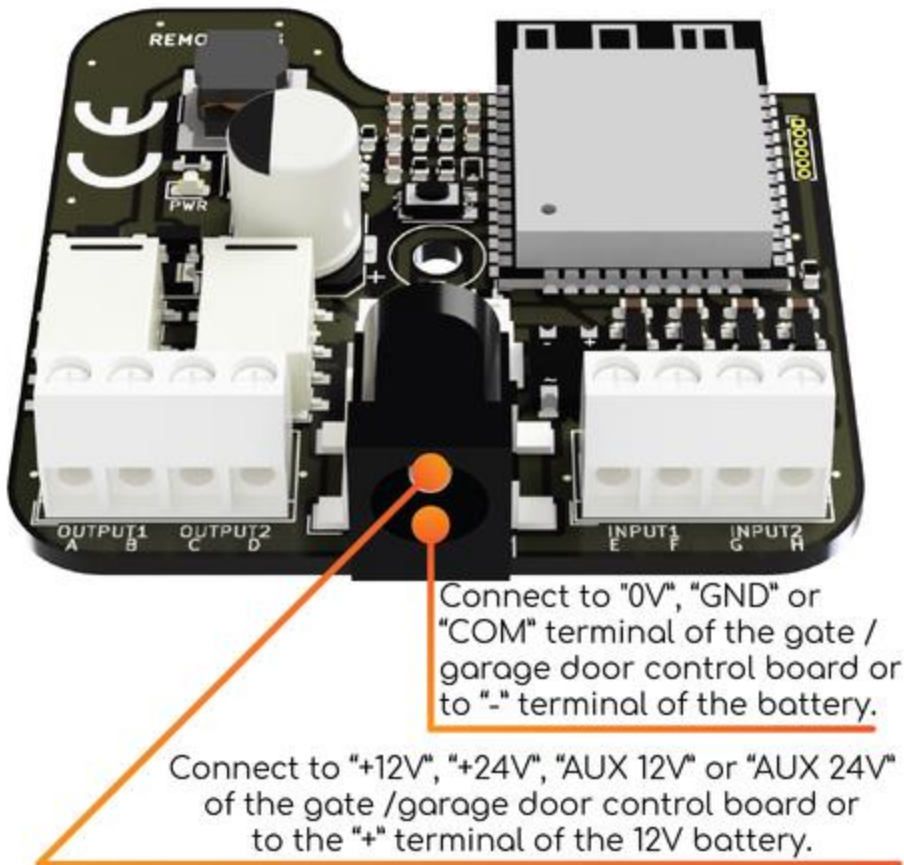

Type A (US)   Type C (EU)   Type I (AUS)   Type G (UK)

Tap the power from the gate control board

Remootio 3 has a wide operating voltage range, so you can use the dedicated terminals of your gate control board to power the Remootio 3 unit.
The operating voltage range of Remootio 3 is: 5-32V DC | 12-24 VAC

Connect to "0V", "GND" or "COM" terminal of the gate / garage door control board or to "-" terminal of the battery.

Connect to "+12V", "+24V", "AUX 12V" or "AUX 24V" of the gate /garage door control board or to the "+" terminal of the 12V battery.
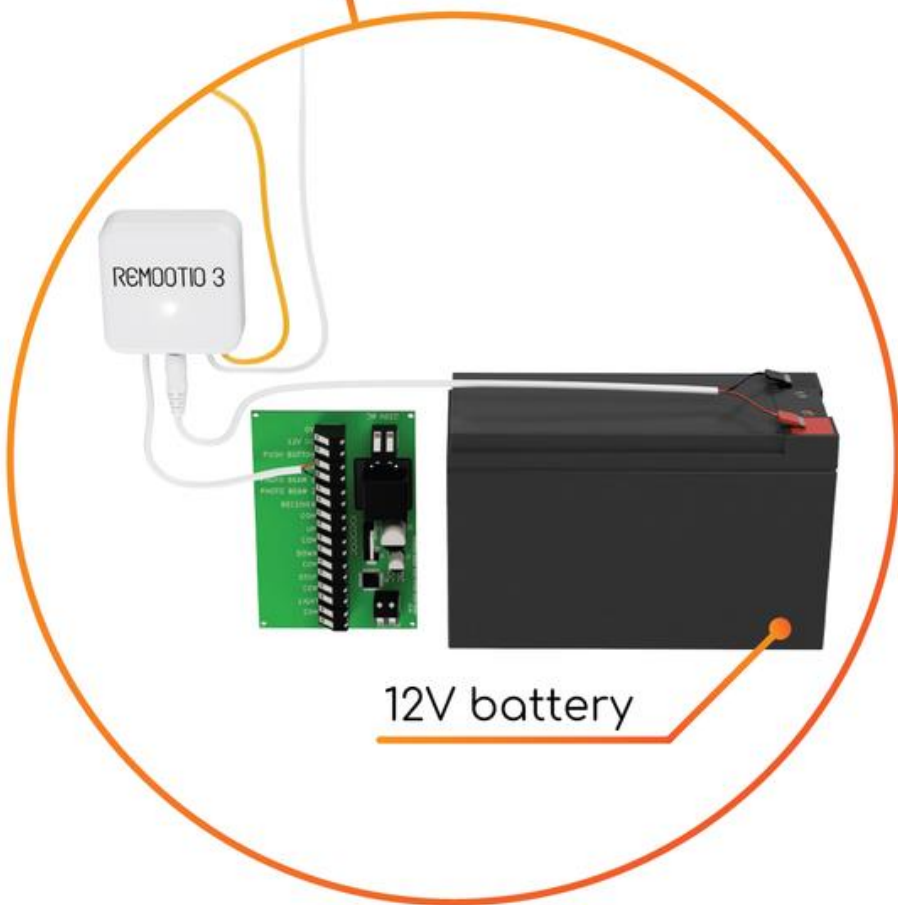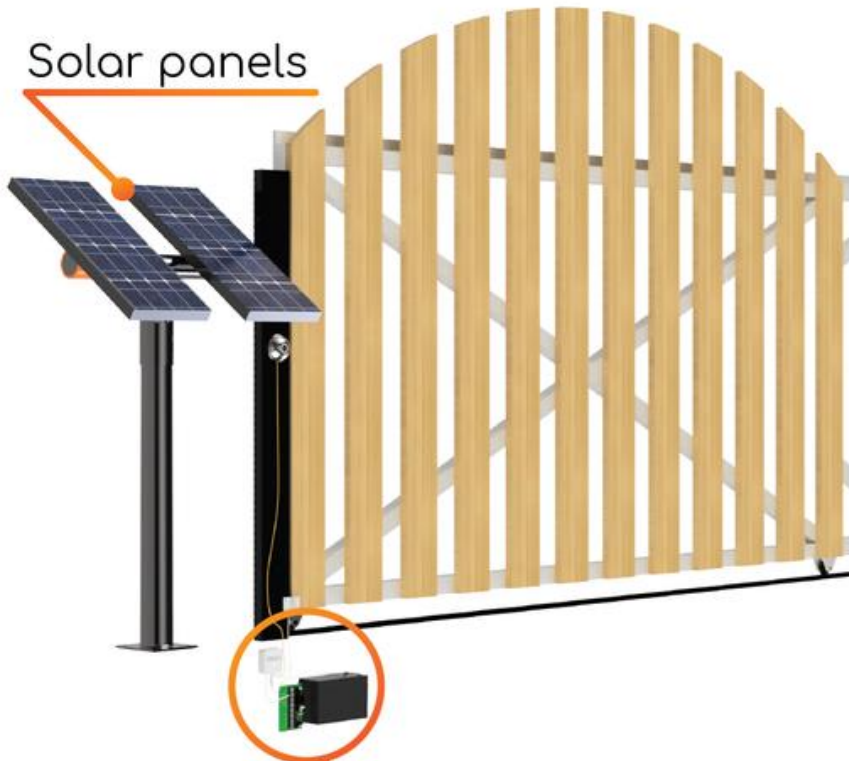
Solar / battery powered operation

You can connect Remootio's power cord to the battery of a solar powered gate system as long as the voltage of the battery is within Remootio's operating voltage range 5-32V DC | 12-24 VAC.
(note: Most batteries used in solar powered gates are 12V)

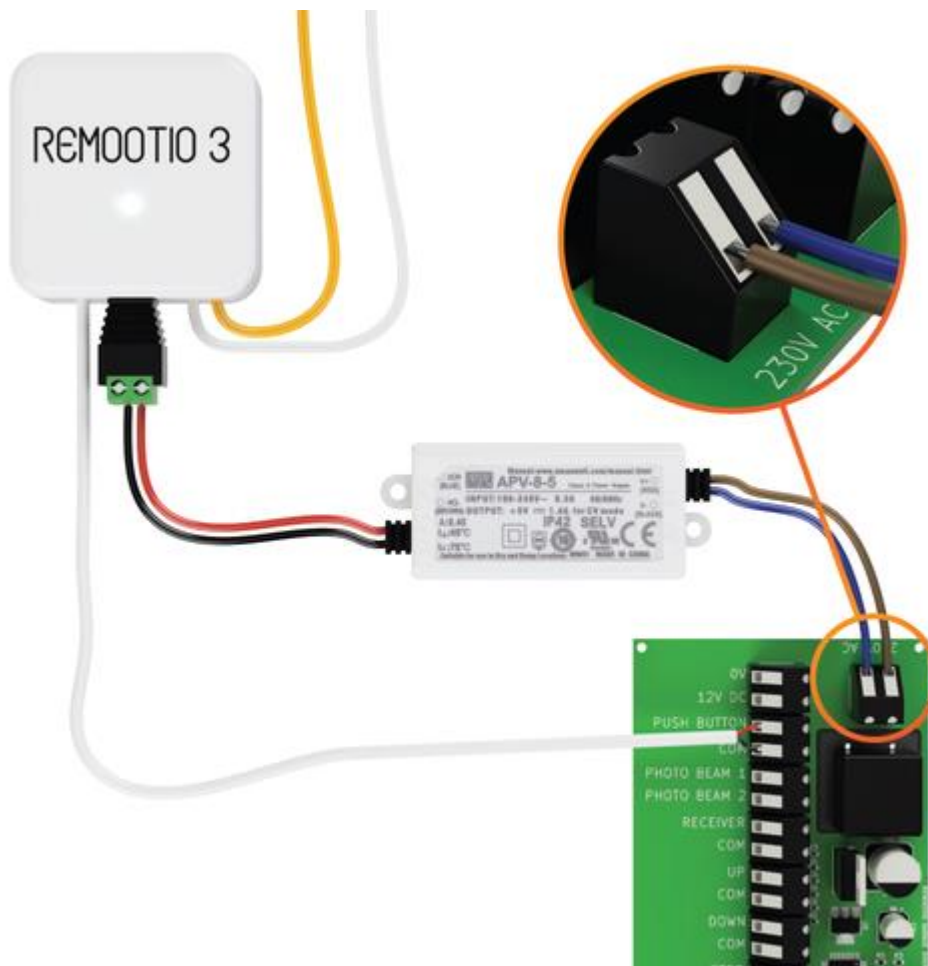Solar panels

REMOOTIO 3

12V battery

At 12 Volts, the average current consumption of Remootio 3 is ~30mA in normal mode and ~15mA in low power mode. (If needed, you can turn on low power mode in the Remootio app / settings / low power mode).
A typical gate battery has 7000mAh of charge. This means that a Remootio 3 unit can operate on a single battery for weeks, even if the battery is not recharged. In solar powered gate systems the battery is being recharged by the solar system during daytime which means that the system can run continuously throughout the year without the battery being drained.

External 110V/230V to 5V power adapter

Alternatively, if you don't have a wall socket near your gate or garage door and there is also no way to tap power from the gate or garage door control board, the power adapter shown below can be used:

(When installing the power adapter, please leave all previously connected wires in place and only add the blue (Neutral) and brown (Line) wires of the power adapter to the corresponding terminals. The APV 8-5 power adapter can convert 110VAC or 230 VAC to 5 Volts. Please do not
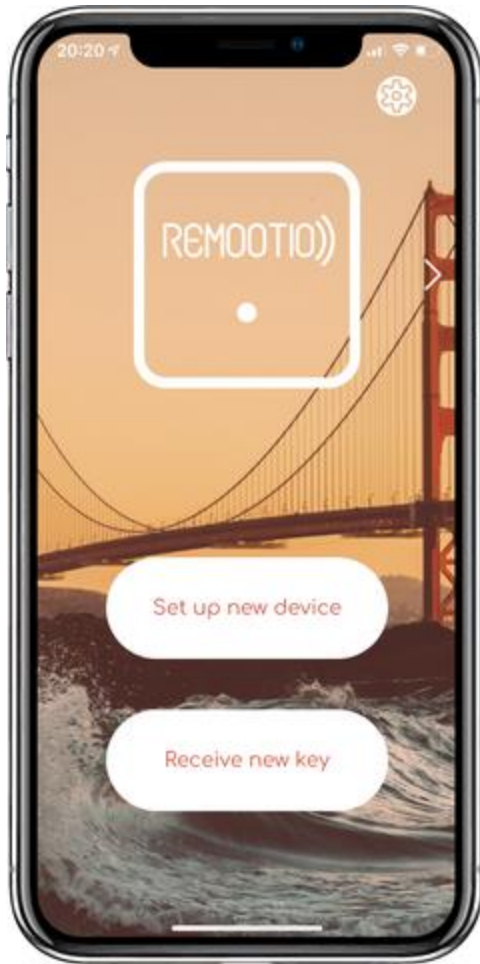
install the external power adapter of Remootio unless you are a professional or you are fully knowledgeable about what you are doing.

Step 9 - Download the Remootio app

Step 6 - Set up the Remootio unit

Launch the Remootio app and make sure your smartphone's Bluetooth is enabled. Tap on "Set up new device" and wait until the Remootio app finds the Remootio unit and sets it up.

When Remootio is not set up yet, it will blink approximately twice per second:

After the Remootio unit is set up successfully, Remootio will blink once every 5 seconds.

After setting up Wi-Fi as well, the LED on Remootio will be illuminated continuously.

Your new Remootio 3 is now ready to use. Please make sure to read the safety instructions below.

If you have any questions, please visit our FAQ page:

or let us know via e-mail at support@remootio.com

Safety instructions

Always keep the gate or garage door in sight and far away from people and objects until it is completely closed. NO ONE SHOULD CROSS THE PATH OR STAND IN THE PATH OF THE MOVING GATE OR GARAGE DOOR.

The product must only be used with gate or door openers that use photoelectric sensors.