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Instantly chat to your Customer Service Representative

hrgcustomerservice@163.com
we'd love to hear from you!

HRGXYUN



Intelligent LED Stair Lighting



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DISCLAIMER

Dear Customer, these instructions are only suggested installation procedures and do not represent professional installation instructions. They may not meet all electrical requirements in your state. We cannot assume any responsibility for improper installation, including incorrect cutting and splicing, and damage to waterproof insulation.

WARRANTY

All our products are warrantied against defects in materials and workmanship for one year from the date of original purchase. We offer a 1-month hassle-free full refund, 6-month refund or free replacement, and a 12-month limited warranty.

FCC NOTICE

This device contains a transmitter module.

This device has been evaluated and found to comply with the typical RF exposure requirements.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

If not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

The user is encouraged to try to correct the interference by one or more of

The following measures:

The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.

WARNING

1. **Must Connect to Power Adapter:** This product is low voltage DC 5V-24V. It is necessary to connect the switching power supply. Do not connect the wrong voltage to avoid burning the controller.
2. **Electric Shock Hazard:** Disconnect the power cord before installation. Please do not turn on the power before making any modifications. Hazardous current can cause electric shock, injury, or death.
3. **Indoor Use Only:** This product kit is for indoor use only and is not waterproof.

4. **Battery Warning:** This package contains button cell batteries. Keep out of reach of children. Swallowing may cause chemical burns, soft tissue perforation, or even death. Severe burns may occur within 2 hours of swallowing. Seek medical attention immediately.

5. **Unauthorized Modifications Prohibited:** For reasons of safety and certification, unauthorized alternations and modifications are not permitted.

6. **Avoid Sharp Bends:** Avoid excessive bending or twisting of the COB light strip.

7. **Risk of Short Circuit if Overheated:** Do not operate the product in ambient temperatures below -20°C or above 45°C.

Extreme temperatures can compromise the fuse and result in damage during a short circuit.

Products should be installed in accordance with the owner's manual, current local codes, and/or the current National Electrical Code (NEC). Products must be installed and wired by a licensed electrician.

FAILURE TO ADHERE TO THESE WARNINGS AND INSTRUCTIONS CAN RESULT IN FIRE. SERIOUS INJURY, ELECTRICAL SHOCK, AND/OR DEATH.

PRODUCT PARAMETERS

Product Name: Intelligent LED Stair Lighting System

Brand: HRGXYUN

Model No: HRG-STAIR-32CH

Power Input: 90-120V

Controller Voltage: DC 5-24V

Step Quantity: Max 32 Steps

Light Color: White (3000K/6500K optional)

Function: Step Number/Brightness/Speed/Delay time/Mode

Remote Control Range: 20m(65ft)

Operating Temperature: Ta -20°C- +45°C



PACKING LIST

WHAT'S INCLUDED



1 × Power Supply



1 × Remote Controller



1 × Controller



(N+1)-meter LED Strip Light



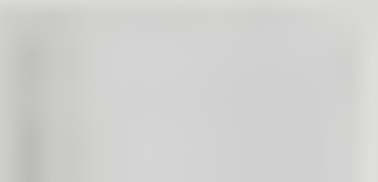
1× Power Cord



1 × Installation Accessory Pack



1 x Remote Holder



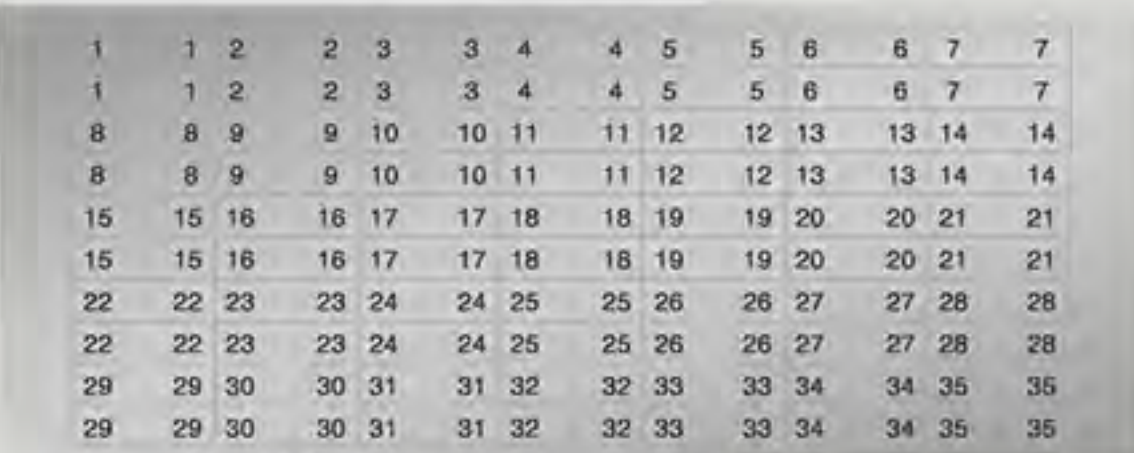
1 × Daylight Sensor Holder



(N+2) × Quick Connectors for LED Strips



20 × 3M Adhesive Backing



1 × Number Sticker



2 × Motion Sensor Extension Cables(5m)



1 × Daylight Sensor Extension Cable(5m)



N × LED Extension Cables (3m&5m)



1 × Daylight Sensor



N × LED Strip Power Cables



2 × Motion Sensors

N = selected step count

CONTROLLER OPERATION

01 Mode Setting

Step Mode

(Currently, our product only supports white light mode. The RGB mode will become available after we integrate the IC LED light strips. Please stay tuned for updates.)

02 Step Number Setting

Short press the "Setting" to enter the parameter configuration interface,Press"▲"and"▼" to select an option or value,short press "OK" to save,then short press "Setting" to return to the main menu.

(Please ensure that the number of steps matches the number of steps set in the controller; otherwise, there will be a delay in the LED strip lighting up.)

03 Brightness Setting

The operation is the same as setting the number of steps for the stairs.There are eight brightness levels available.

04 Speed Setting

The operation is the same as setting the number of steps for the stairs.

1	0.05s	2	0.1s	3	0.15s	4	0.25s	5	0.35s	6	0.5s	7	0.75s	8	1s
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05 Time Delay Setting

The operation is the same as setting the number of steps for the stairs.The controller delay time can be up to 600 seconds. For example:1、 5、 10、 15、 20、 25....600s

06 Light Sensitivity Setting

The operation is the same as setting the number of steps for the stairs.The controller supports a maximum light sensor value of 99.

For example: 0、 1、 2、 3、 4、 5....99

(The numerical value following the asterisk represents the current detected ambient light level in lumens.)

07 ON/OFF Setting

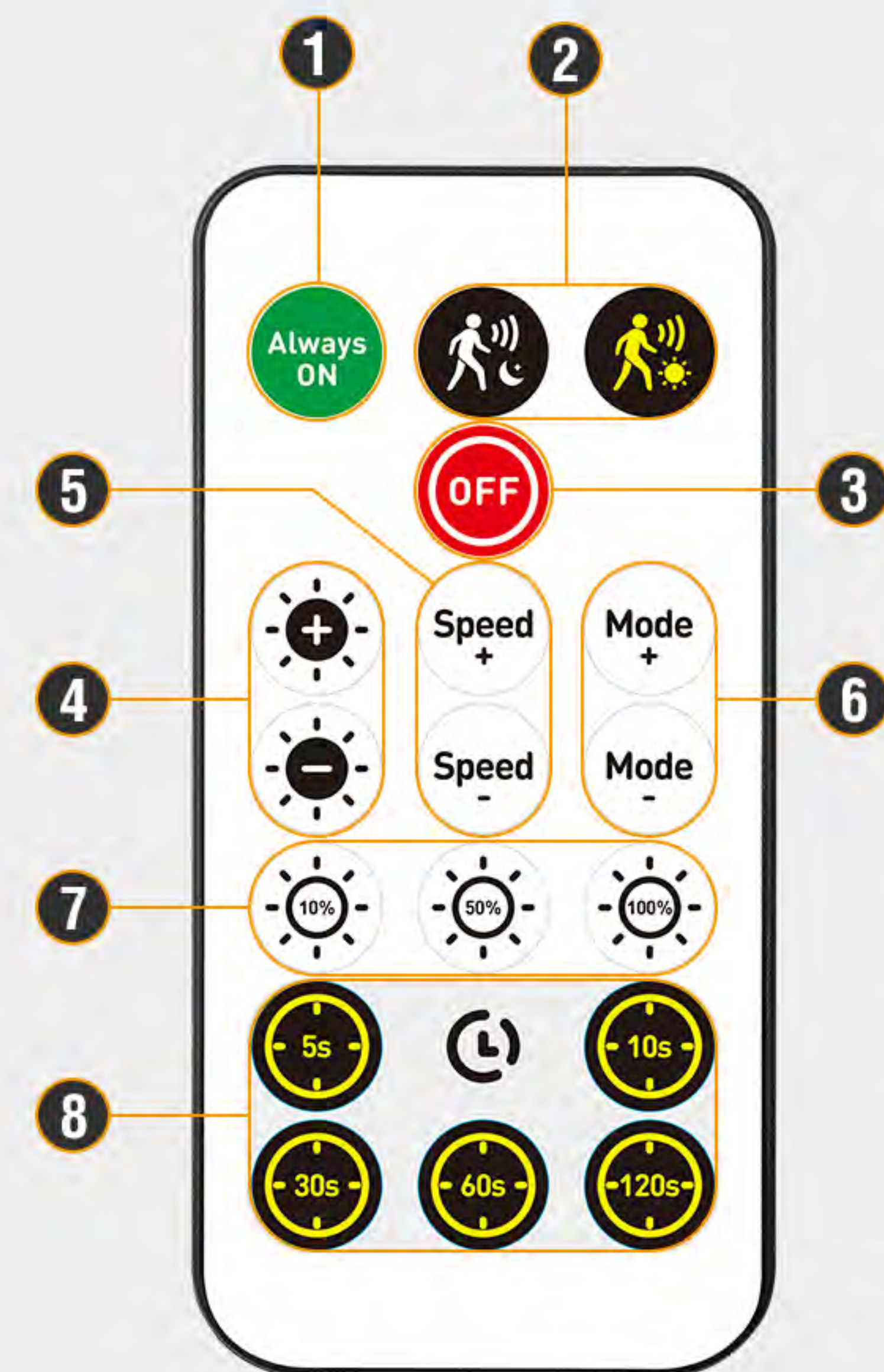
The operation is the same as setting the number of steps for the stairs.Our controller features 6 configurable lighting-on modes and 3 lighting-off modes.

08 Language and Factory Reset

Long press the "OK" to enter the settings interface,then select the reset option to restore factory reset.The language can be set to either English or Chinese.



REMOTE CONTROL OPERATION AND INSTALLATION



How to use the remote control

- 1 Pair the remote control and controller:** After connecting the power, press and hold the Always on button for about 5 seconds until the controller indicator light illuminates. At this point, the remote control is paired with the controller.
- 2 Adjust parameters:** You can adjust brightness, speed, delay time, light mode, and light sensor on/off according to the diagram.

- 1 Always ON:** Long press to pair the controller and establish the connection. Short press to turn on the light strip.
- 2 Turn on/off the daylight sensor.**
- 3 OFF:** Turn off the light strip (only available in Light-On Mode 6)
- 4 Increase/Decrease brightness** (8 levels)
- 5 Speed -/Speed +:** Increase/Decrease the lighting-up speed of the light strip.
- 6 Mode +/Mode -:** Select the light-on mode of the light strip.
- 7** Adjust the brightness of the light strip to the preset level (3 levels).
- 8** Adjust the delay time of the light strip. Options include 5s, 10s, 30s, 60s and 120s.

MOTION SENSOR INSTALLATION

01 Motion Sensor



02 Installation method



03 Installation Precautions

Important: For a seamless installation, you must attach the motion sensors to the middle of the first and the last step prior to installing the light strips. To avoid affecting the light strip installation, position the end of the sensor's adhesive backing flush with the extreme left edge of the step.

- 1. During installation, avoid direct sunlight on the lens surface of the module, as this will introduce interference signals.
- 2. The sensor probe should be installed in a dry environment, avoiding wind and rain, and away from.
- 3. Avoid installation near heat sources, such as stoves, walls exposed to direct sunlight, windows.
- 4. There should be no obstructions (furniture, large potted plants, etc.) within the sensing range.

DAYLIGHT SENSOR INSTALLATION

Daylight Sensor ON (Motion Sensor Work, When Environment Light Is Darker Than Lux Setting)

Daylight Sensor OFF (Motion Sensor Work Both Day And Night)

Clip sensor to bracket, peel adhesive backing, and adhere to staircase.



LED LIGHT STRIP INSTALLATION

1. Cutting the strip

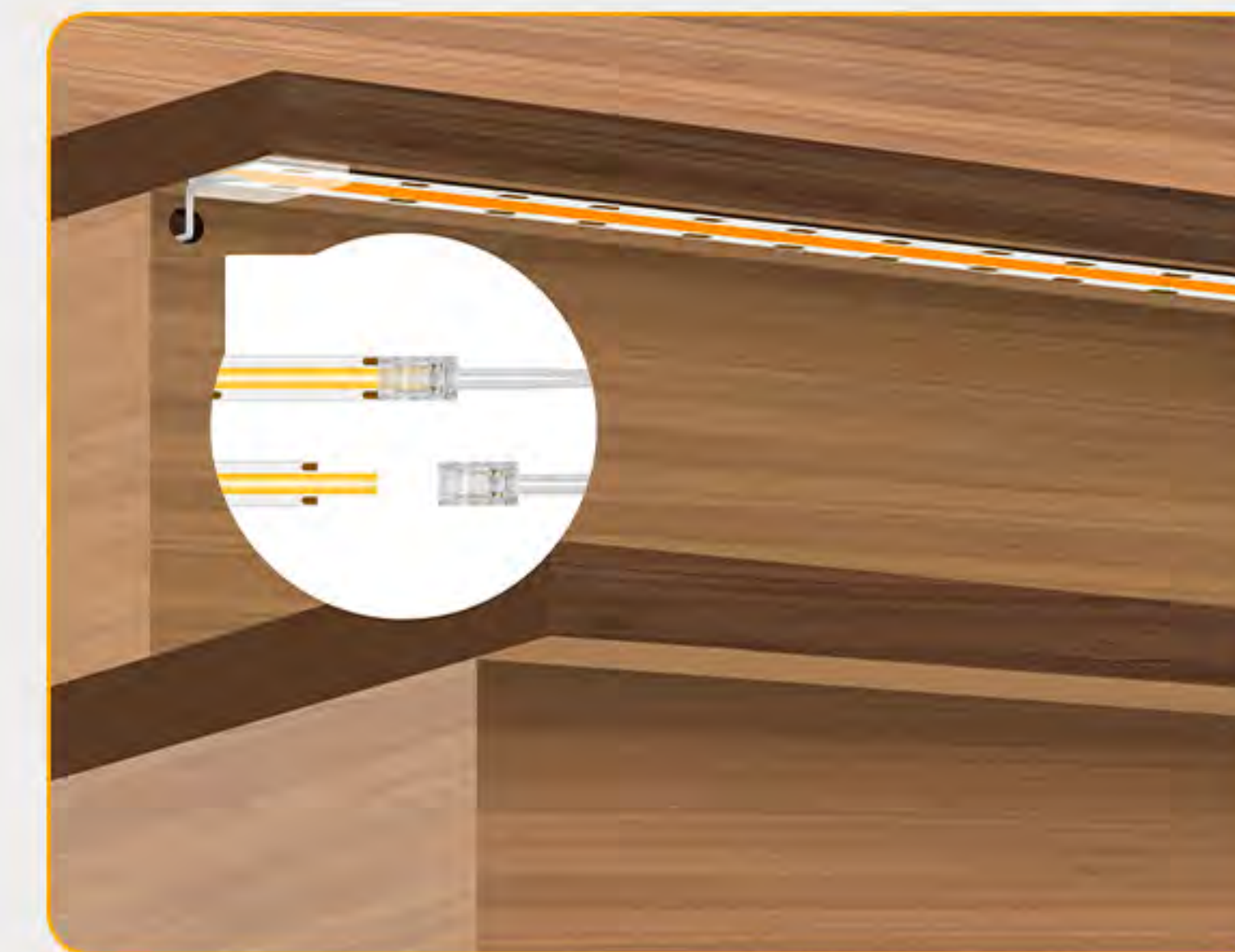
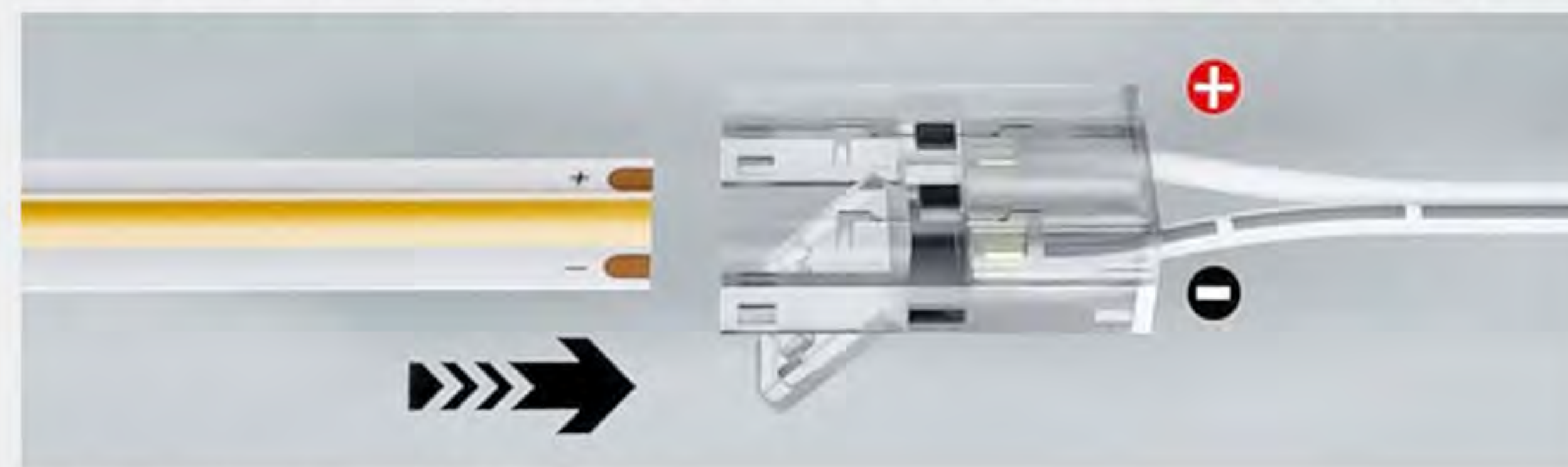
Take out the LED strip and lay it flat on the ground. First, measure the length of your steps, then cut the LED strip to the required length and quantity for your steps.

Our LED strip lights can be cut at 1-inch intervals. You can see the black cut marks on the strip. Please be sure to cut along these marks, otherwise the strip may be damaged.



2. Connect the strip and the power supply line

1. Take out the power cable for the light strip.
2. Attach the white wire to the positive (+) end and the wire with a black stripe to the negative (-) end of the light strip.
3. Press the quick-connect terminal clip to fasten the light strip in place.



3. Installing your lights

Pre-Installation Test:

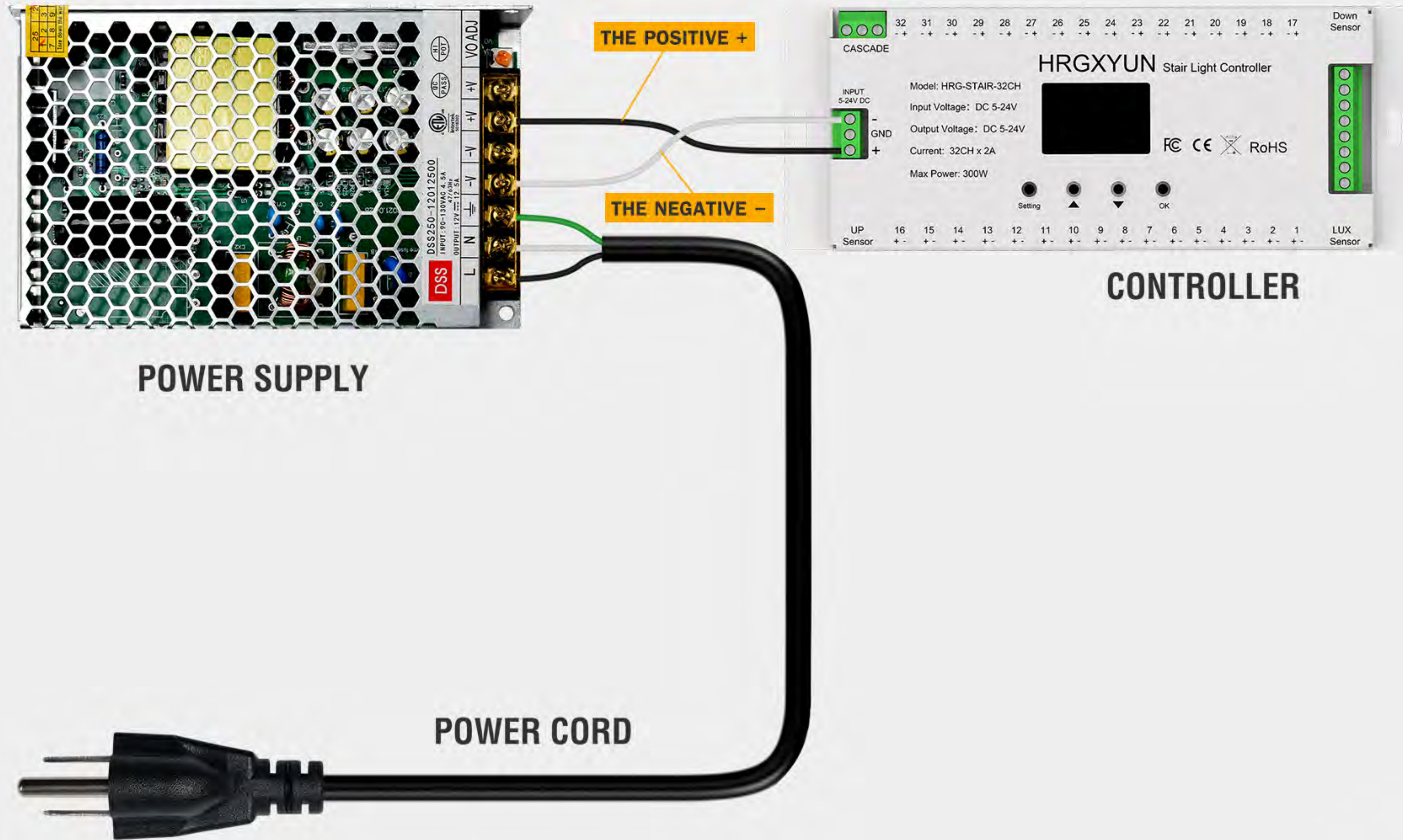
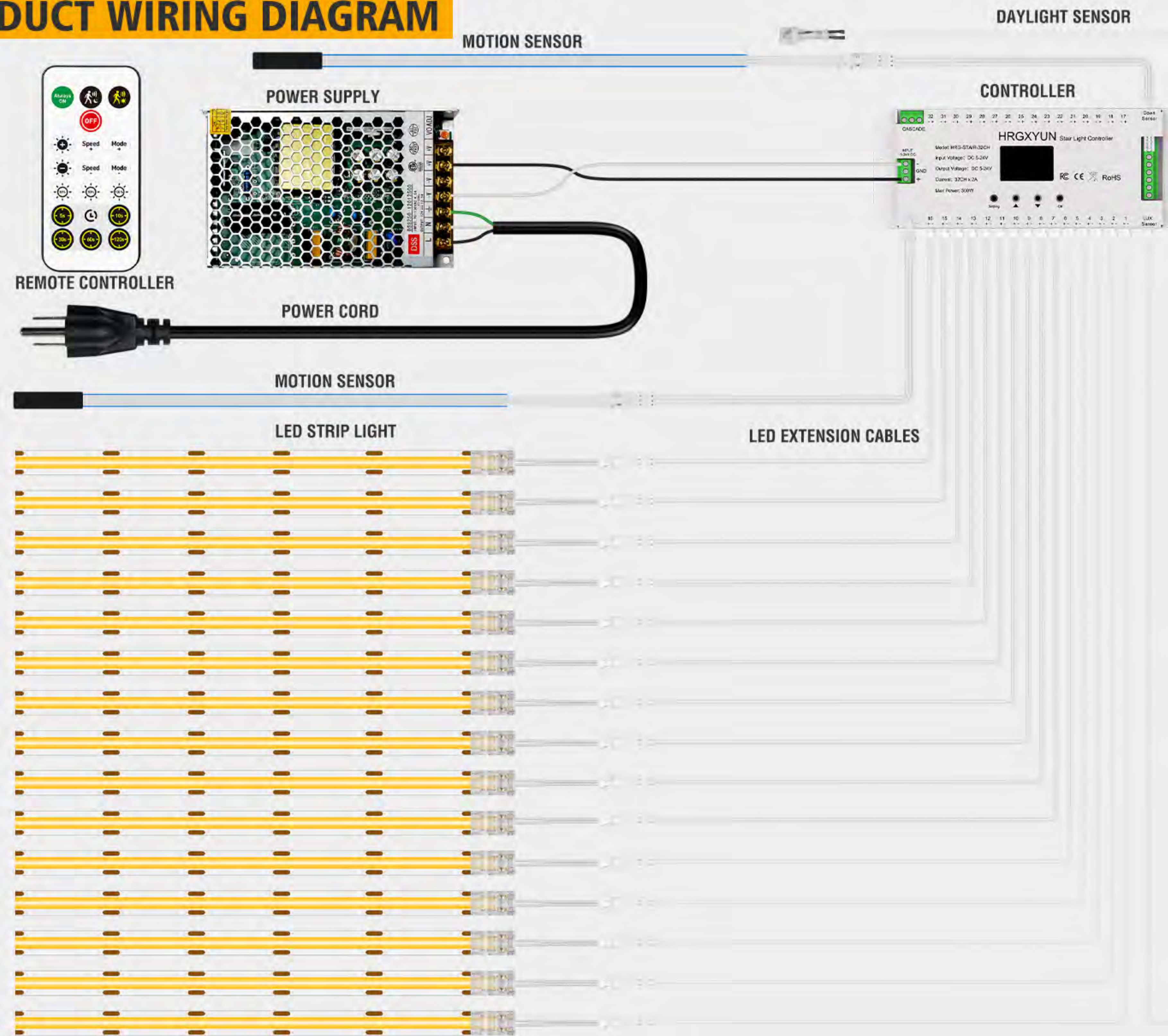
- Before fixing the light strips, connect them to the controller to test.
- If the strips light up, wiring is correct. Proceed to install.
- If any strip fails to light, check its positive/negative connections.
- Only install the strips after confirming all are functional.

1. Remove and apply a 3M adhesive piece to the quick connectors for LED Strips
2. Peel off the 3M adhesive backing on the back of the LED strip, align it with the width of the step, and press the LED strip onto the step with your hand. You can press it several times to ensure that the LED strip is secure and will not fall off.
3. Repeat this process until all steps are equipped with LED strips.



Please note this is important! Before attaching the light strip to the first and last steps, you must first attach the motion sensor to the light strip before installing the light strip, to avoid any inconvenience.

PRODUCT WIRING DIAGRAM



TROUBLESHOOTING

All LEDs Not Turning On

- A.** Ensure all cables are securely connected to the power supply and that the power cord is firmly plugged into a wall outlet.
- B.** Ensure the positive (+) and negative (-) terminals of the LED strip are correctly aligned with the markings on the controller housing.

Not All LEDs are working

- A.** Check the wiring. Inspect all connections leading to the non-functional section.
- B.** Test non-working strip with a known working connection.
 - If the LED strip tests good when connected to a known working harness, then the original wiring is bad and will need to be replaced.
 - If the LED strip does not work on a known working harness, then the LED strip is bad and will need to be replaced.

The remote control is not working

- A.** Ensure the transparent plastic gasket (pull-tab) has been removed from the remote.
 - B.** Try moving the remote control closer to the controller.
 - C.** Re-pair the remote and controller according to the manual.
 - D.** If the remote control still doesn't work after trying the above methods, please replace the button battery in the remote control.
- If you still have other questions about installation and use, please contact our customer care team, who can advise you of the best next steps to take.