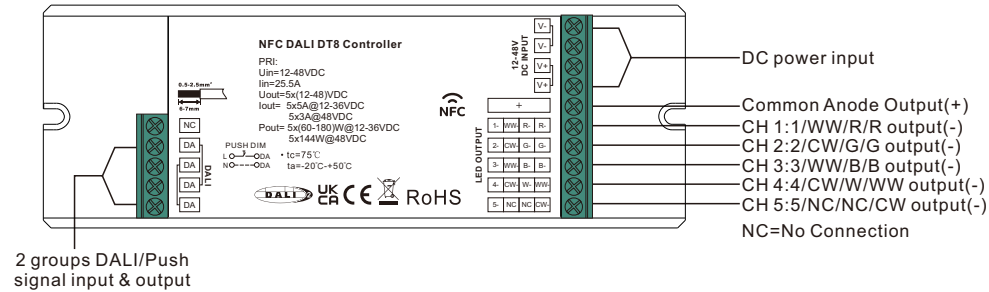


NFC Programmable Multi-function DALI LED Controller



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)	DALI Consumption	Dimming Range	Ambient Temperature
12-48VDC	5x5A@12-36VDC 5x3A@48VDC	5x(60-180)W@12-36VDC 5x144W@48VDC	Constant Voltage	170x59x29mm	2mA	0.1%-100%	-20°C ~ +50°C

- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209:2011
- Built-in DALI-2 interface, DALI DT6 & DT8 devices all in one
- Multi-devices integrated in one control gear
- Multiple parameters settable via NFC tool
- DT6, XY, CCT, RGBWAF device types can be set via NFC app
- 5 Channels constant voltage output
- Control of five PWM outputs via DALI device type 6 or type 8
- Color control as defined in the DALI specification device type 8
- Supports DT8 device commands, compatible with universal DALI masters that support DT8 commands
- Configuration via NFC app
- Supports 251, 252, 253, luminaire status, energy statistics and diagnostic data
- Supports short circuit protection when dimming level is above 5%
- Color temperature and RGB color control through push dim mode even if without DALI
- Waterproof grade: Ip20

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Operation

DALI Address Assigned by DALI Masters

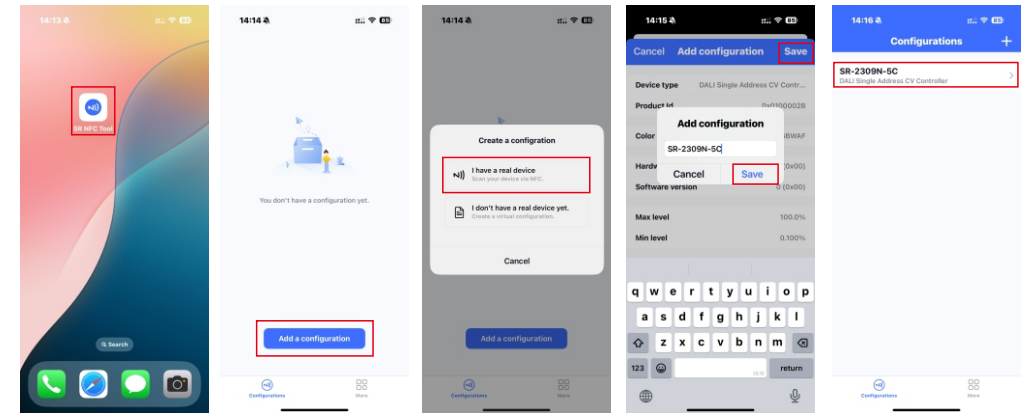
DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

Configuration via NFC tool

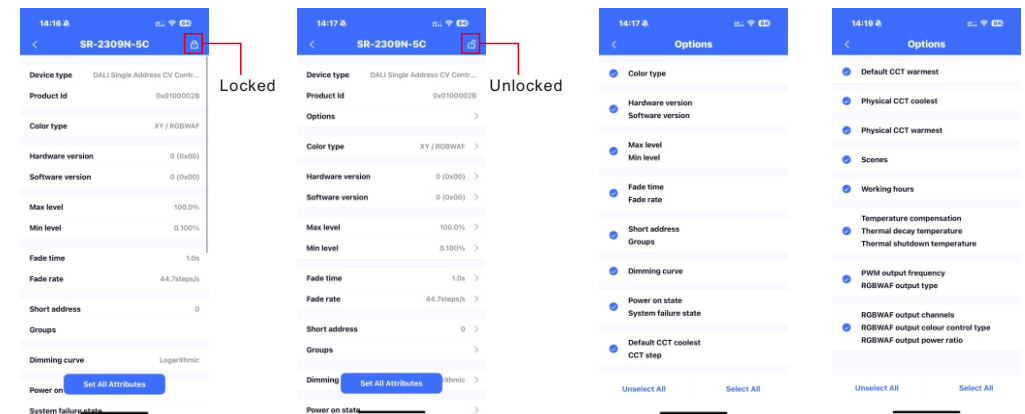
Note:

- 1) Please do not power on the device during the whole programming process.
- 2) Please make sure your phone has NFC function and enable it.
- 3) If you can't download the app, please contact us.

Step 1: Install **SR NFC Tool** app on your phone(search SR NFC Tool from Apple Store or Google Play), and add the device following the app instructions.



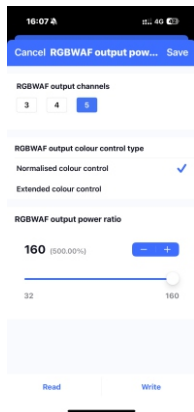
Step 2: Unlock the device and set the wanted parameters.



Some parameters explained:

Color type:
DT6: The device can control single color LED light.
XY: The device can control RGB LED light.
CCT: The device can control tunable white LED light.
RGBWAF: The device can control RGB, RGBW or RGB CCT LED lights.

RGBWAF output type:
Standard output: The light cannot be turned off by adjusting each channel(whether you choose 3-RGB, 4-RGBW or 5-RGBWAF) to 0%. If each channel is adjusted to 0%, the light will be 100% brightness.
Special output: The light can be turned off by adjusting each channel to 0%. It is mainly used with Sunricher's wall panels.



RGBWAF output channels:

- 3-Control RGB LED
- 4-Control RGBW LED
- 5-Control RGB CCT LED

RGBWAF output color control type:

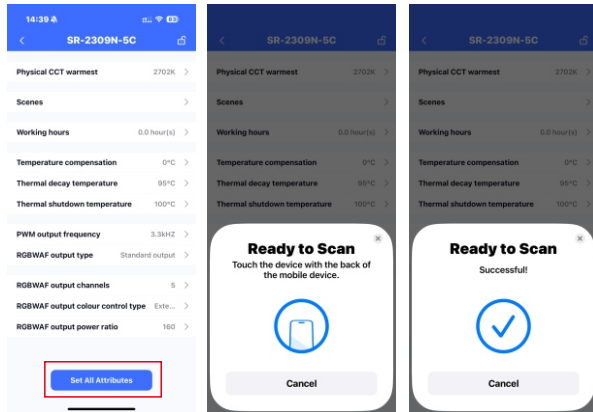
Normalized color output: Power ratio is fixed to 32(100%).
Extended color output: Enables to adjust power ratio.

RGBWAF output power ratio:

Set power ratio to 160(500%): Whether the RGBWAF output channels is set to 3, 4 or 5, each channel's output will be this controller's max output, that is 5A.

Set power ratio to 32(100%): Whether the RGBWAF output channels is set to 3, 4 or 5, the total output of all channels combined will be 5A.
For example, when you select 3 channels(R-G-B channel), **channel R+G+B=5A(1.67A per channel)** if these three channels are turned on, **channel R+B=5A(2.5A per channel)** if only channels R and B are turned on, and **channel R=5A** if only channel R is turned on.

Step 3: After setting, write all configurations to the device.



Push Dimmer Mode

When RGBWAF or XY color type is selected, RGB LED will be controlled by the push switch.

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and RGB color mode.
- Press and hold down the button to change RGB colors under RGB color mode.

When CCT color type is selected, tunable white LED will be controlled by the push switch.

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and color temperature mode.
- Press and hold down the button to change color temperature under color temperature mode.

When DT6 color type is selected, single color LED will be controlled by the push switch.

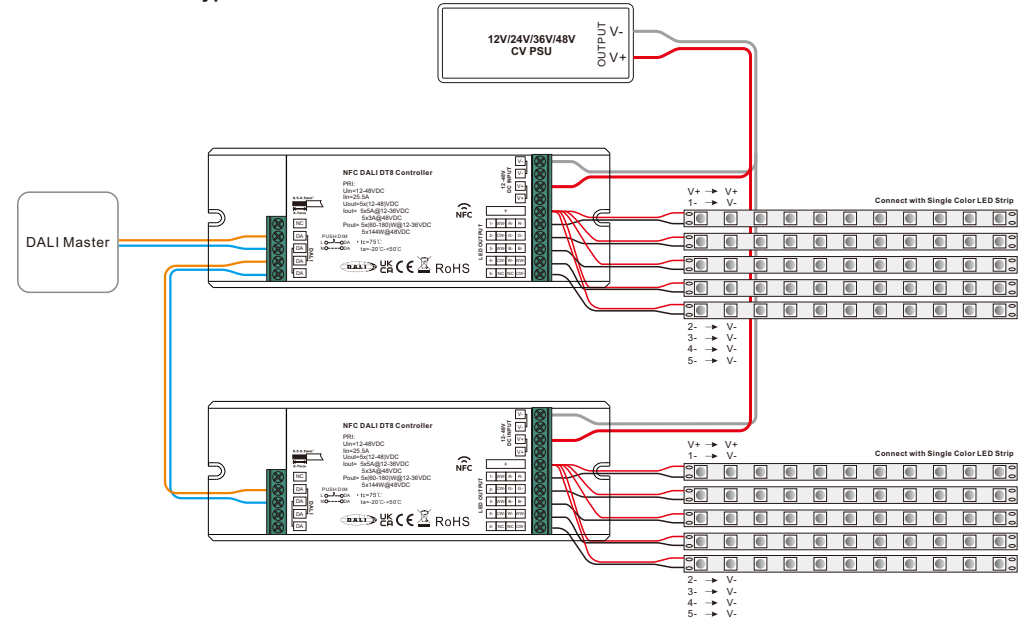
- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

Wiring Diagram

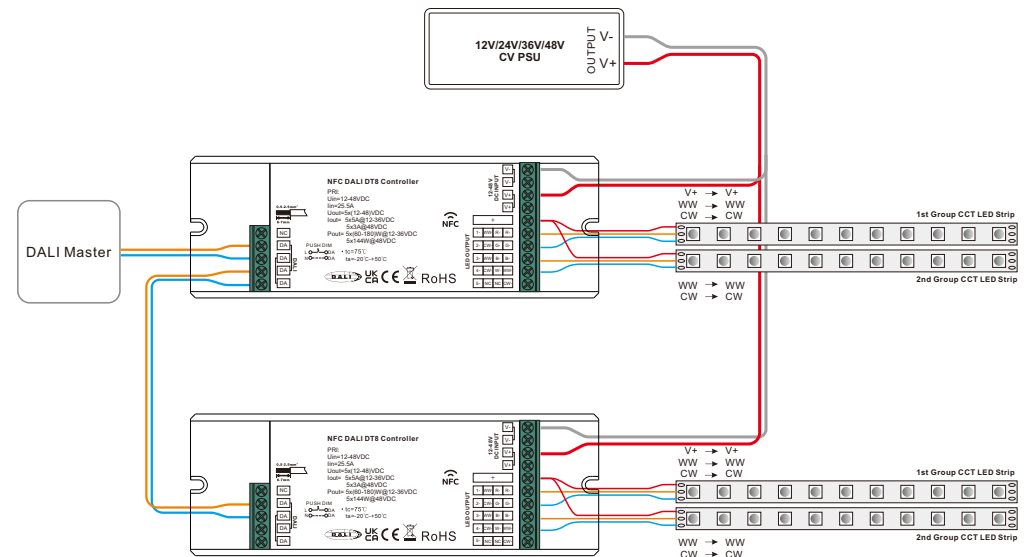
With DALI Master

1. When DT6 color type selected



Note: The control gear will be discovered by DALI master as a DT6 device, 5 channels controlled together.

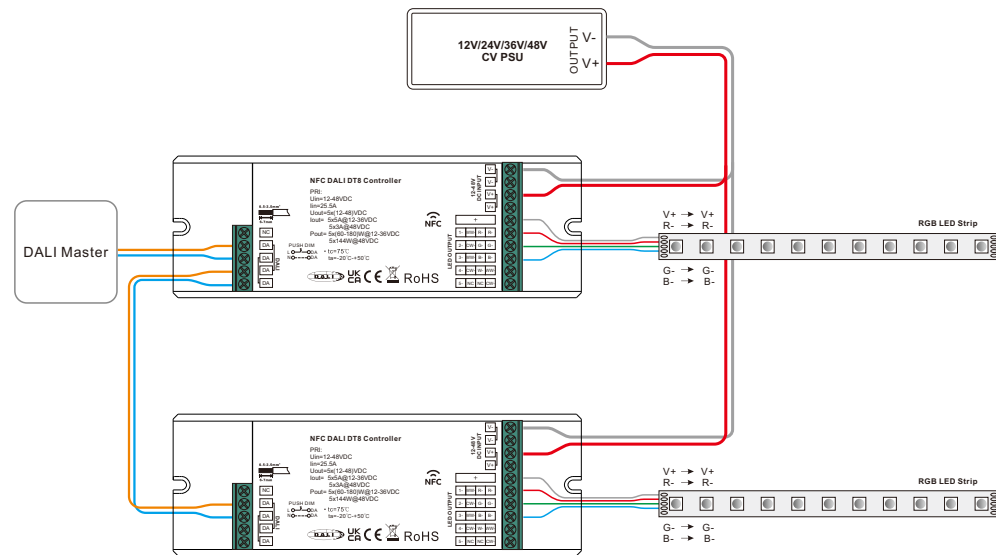
2. When CCT color type selected



Note: 1) Please make sure that the DALI master controller supports Tc color type commands.

2) The control gear will be discovered by master controller as 2 separate Tc devices.

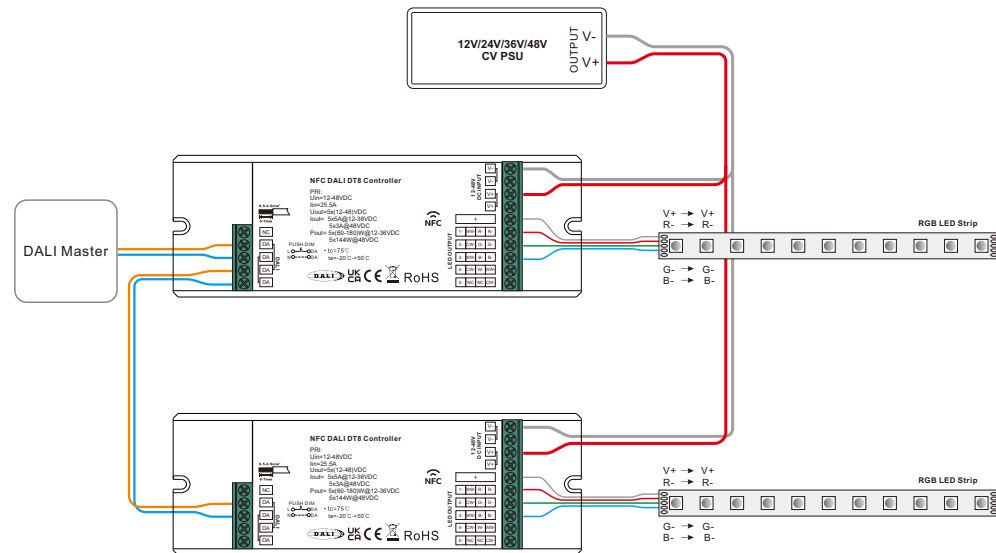
3. When XY color type selected



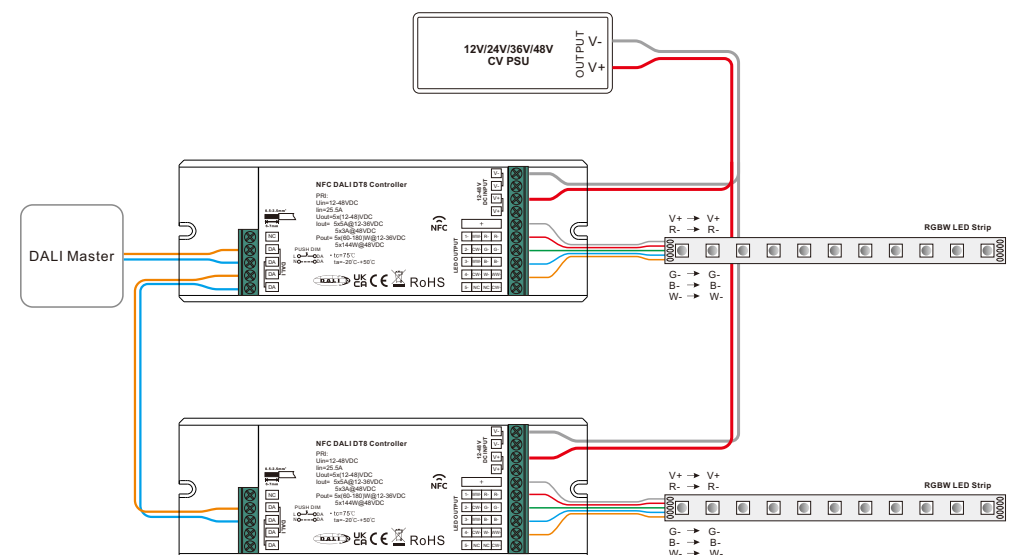
Note: Please make sure that the DALI master controller supports XY color type commands.

4. When RGBWAF color type selected

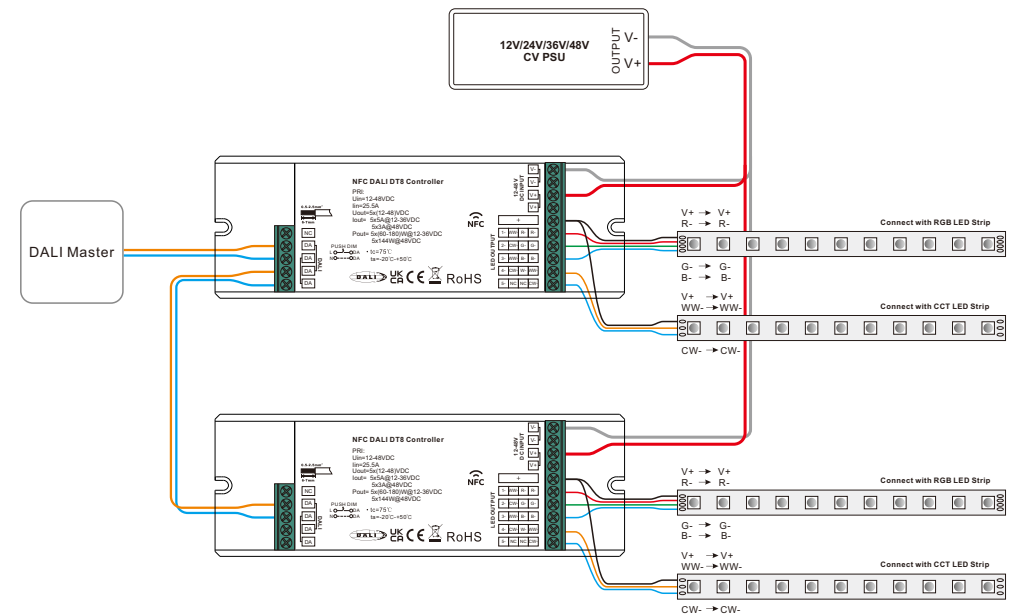
4.1 When 3-chnnel selected



4.2 When 4-chnnel selected



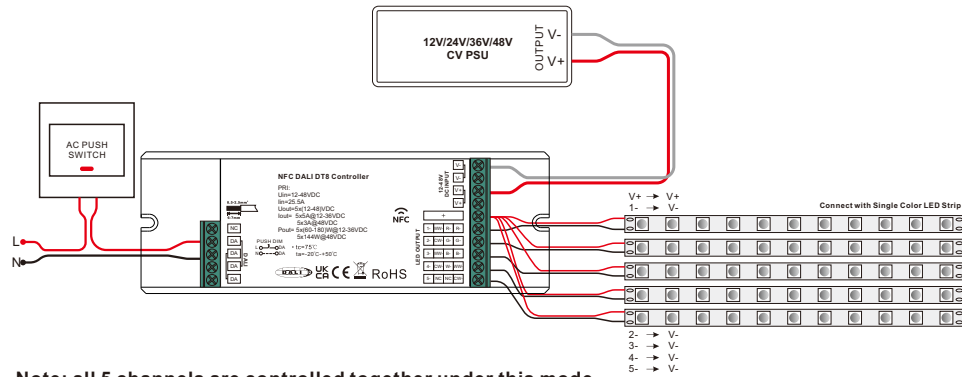
4.3 When 5-chnnel selected



Note: Please make sure that the DALI master controller supports RGBWAF color type commands.

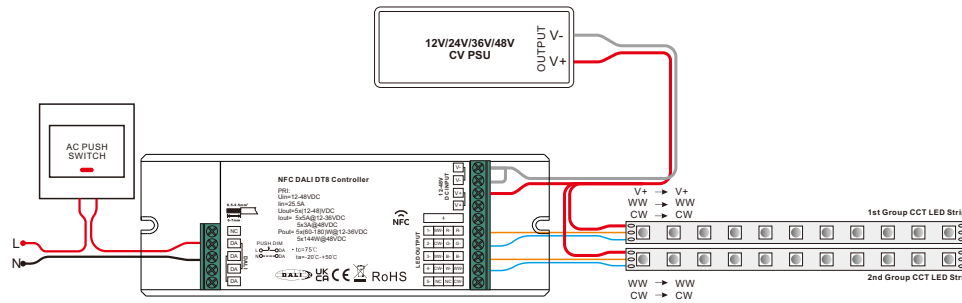
With Push Switch

1. When DT6 color type selected



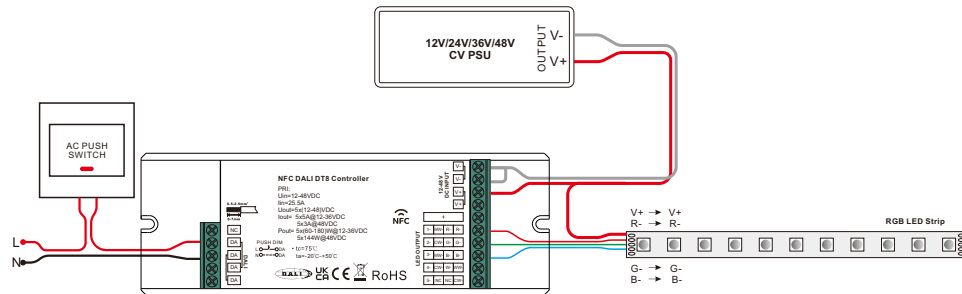
Note: all 5 channels are controlled together under this mode.

2. When CCT color type selected



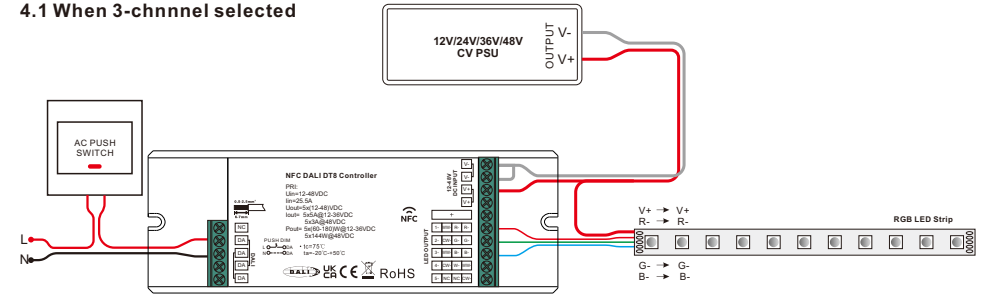
Note: 2 groups CCT LED are controlled together under this mode.

3. When XY color type selected

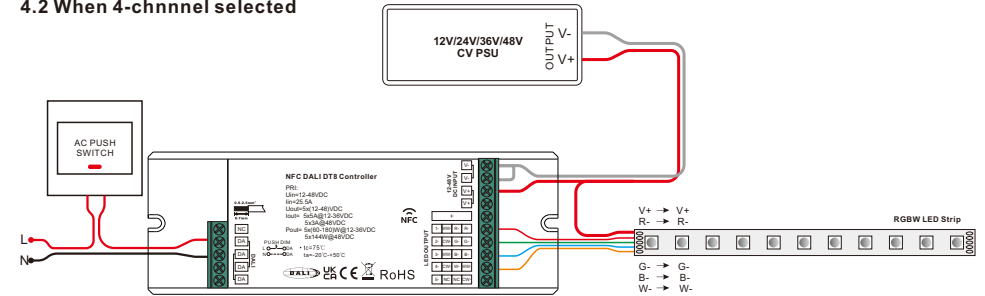


4. When RGBWAF color type selected

4.1 When 3-chnnel selected

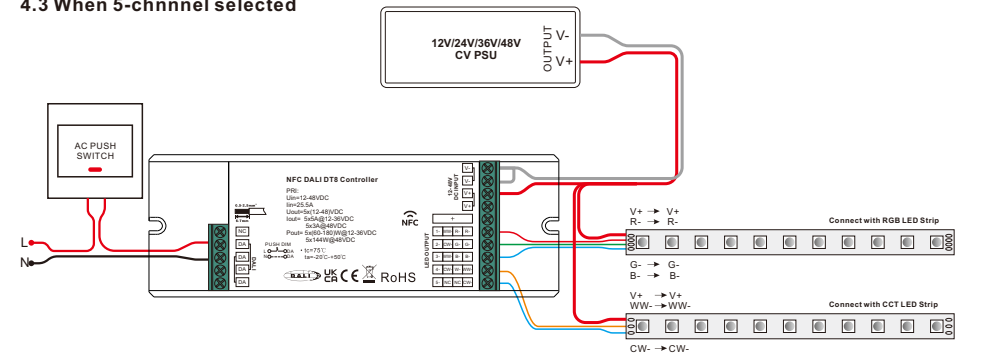


4.2 When 4-chnnel selected



Note: only the RGB LED can be controlled under this mode.

4.3 When 5-chnnel selected



Note: brightness of both RGB & CCT LEDs can be controlled, color control only applicable to RGB LED under this mode.

Note: Short circuit protection requirements:

1. Short circuit protection only works when the load of each channel is above 500mA, normally 1 roll (5 meters) of LED strip will meet this requirement.
2. Short circuit protection only works when the dimming level is above 5%.

Product Dimension

