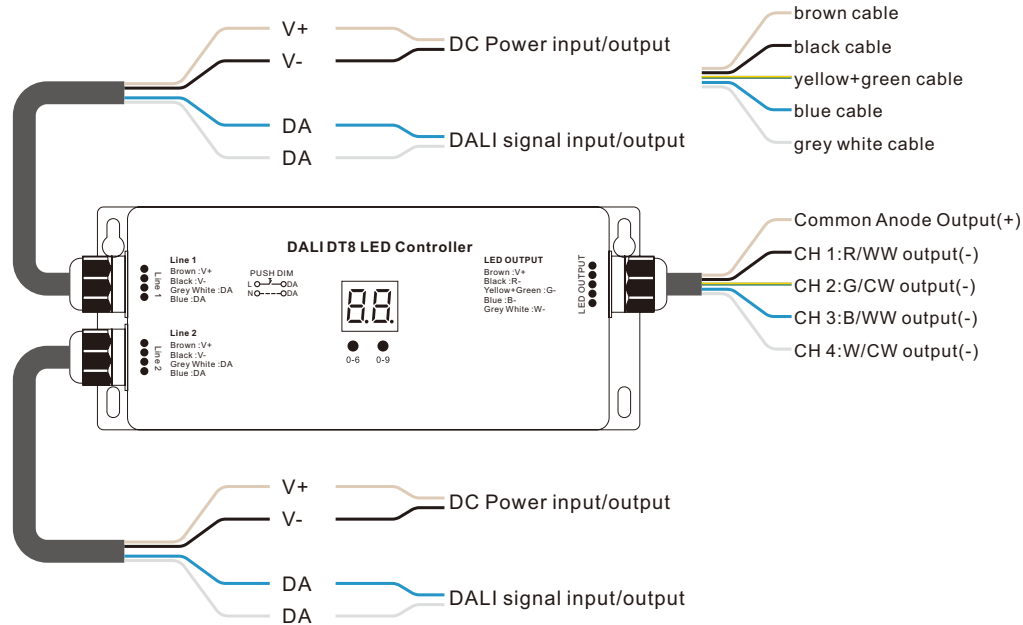


Waterproof DALI DT8 LED Controller



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

No.	Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)	DALI Consumption	Dimming Range	Ambient Temperature
1	12-36VDC	4x5A	4x(60-180)W	Constant voltage	180x73.6x38mm	2mA	0.1%-100%	-20°C ~ +50°C
2	12-36VDC	4x350mA	4x(4.2-12.6)W	Constant current	180x73.6x38mm	2mA	0.1%-100%	-20°C ~ +50°C
3	12-36VDC	4x700mA	4x(8.4-25.2)W	Constant current	180x73.6x38mm	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 DT8 device
- Multi-functional, 6 in 1: Tc, RGBWAF, XY, 2*Tc, XY+W (DT6), DT6
- 4 Channels constant voltage or constant current output
- Enables Dimming and color Adjustment
- Single-address device types: Tc, RGBWAF, XY, DT6
- Multi-addresses device types: 2*Tc, XY+W (DT6)
- Color control as defined in the DALI specification device type 8
- Supports DT8 device commands, compatible with DALI masters that support DT8 commands
- Configuration via DALI master USB interface
- Numeric digital display for setting DALI address manually
- Waterproof grade: IP67

Safety & Warnings

- DO NOT install with power applied to device.
- This device is IP67 rating and protected against damp environment.

Operation

1. Select a DALI Device Type



- 1.1. Press and hold down both buttons until digital display flashes, then release the button.
- 1.2. Keep clicking the 2nd button, you will get the 8 device types one by one as follows, 6 of them are valid modes, please ignore the other 2 modes which are invalid here:

7C, means 2 Tc color type devices integrated in one control gear, which can control 2 groups of tunable white LED separately using 2 DALI addresses under this mode.

HC (invalid mode since this mode requires 5 PWM channels), means XY & Tc color type devices integrated in one control gear, which can control RGB & CCT LED separately using 2 DALI addresses under this mode.

RC (invalid mode since this mode requires 5 PWM channels), means RGBWAF & Tc color type devices integrated in one control gear, which can control RGB & CCT LED separately using 2 DALI addresses under this mode.

HC, means XY & DT6 type devices integrated in one control gear, which can control RGB & W LED separately using 2 DALI addresses under this mode.

HY, means XY coordinate color type, which can control RGB LED using 1 DALI address under this mode.

7C, means Tc color type, which can control tunable white LED using 1 DALI address under this mode.

RG, means RGBWAF color type, the device can control RGBW LED using 1 DALI address under this mode.

76, means DT6 device type, which can control single color LED using 1 DALI address under this mode.

- 1.3. Select a device type you would like and then press and hold down both buttons until digital display stops flashing to confirm the selection.

2. Setting DALI address



- 2.1. Press and hold down the first button on the left until digital display flashes, then release the button.
- 2.2. Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set "tens" position and second button to set "units" position. The address can be set from 00-63.
- 2.3. Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

Note: DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is

assigned for the dimmer, and the display shows **FF**. Setting DALI address as **FF** will reset the dimmer to factory defaults.

Once an address is selected, depending on the device type selected, the control gear may occupies 2 consecutive addresses or 1 address. For example, if the control gear is addressed to 22 on the display, when the device type is multi-addresses type, the control gear occupies address 22 & 23, when the device type is single-address type, the control gear occupies address 22.

3. Setting the Number of Output Channel



- 3.1 Under **RG** mode, press and hold down the second button until digital display flashes, then release the button.
- 3.2 Click the first button to switch between 3A and 4A. 3A means controlling three output channels RGB, 4A means controlling four output channels RGBW.
- 3.3 Then press and hold down the second button to confirm the setting.

4. 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.

Note: The digital display will show **RU** When the DALI master is assigning addresses. When the device type is multi-addresses type, the control gear will be discovered as 2 separate devices.

5. Push Dimmer Mode

While connected with an AC push switch, the digital display will show “PD” which means Push Dimmer Mode, operations under Push Dimmer Mode are as follows:

While **7C** device type is selected, only the 1st group 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.

While **H6** device type is selected, only the 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.

While **H4** or **r9** device 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.

While **7C** device type is selected, tunable white LED will be controlled by the push switch,

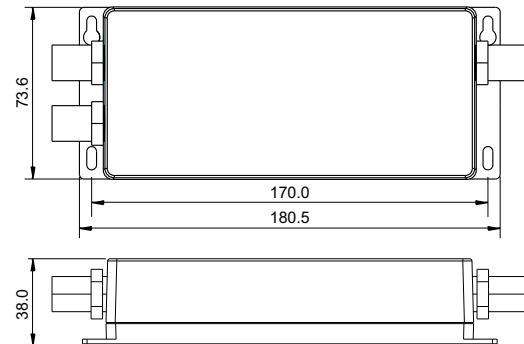
- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness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

While **76** device 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.

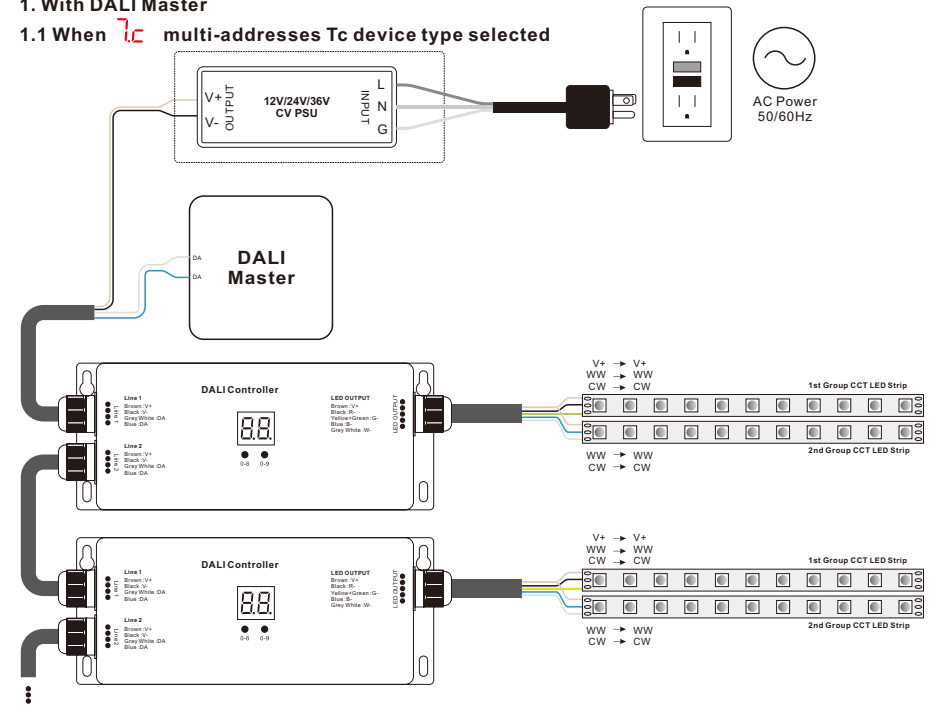
Product Dimension



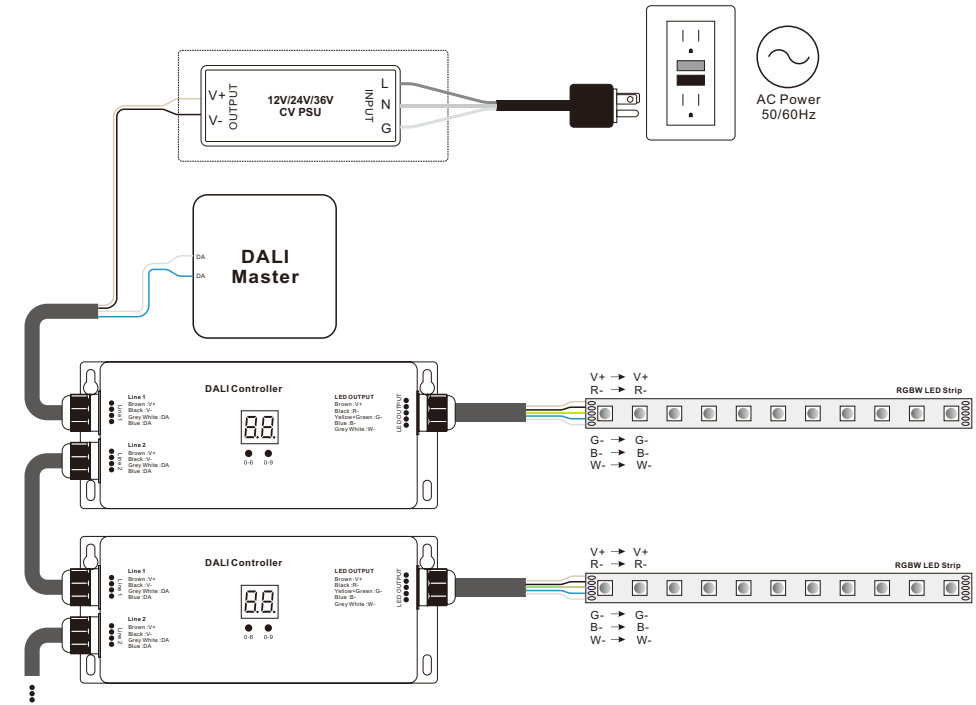
Wiring Diagram

1. With DALI Master

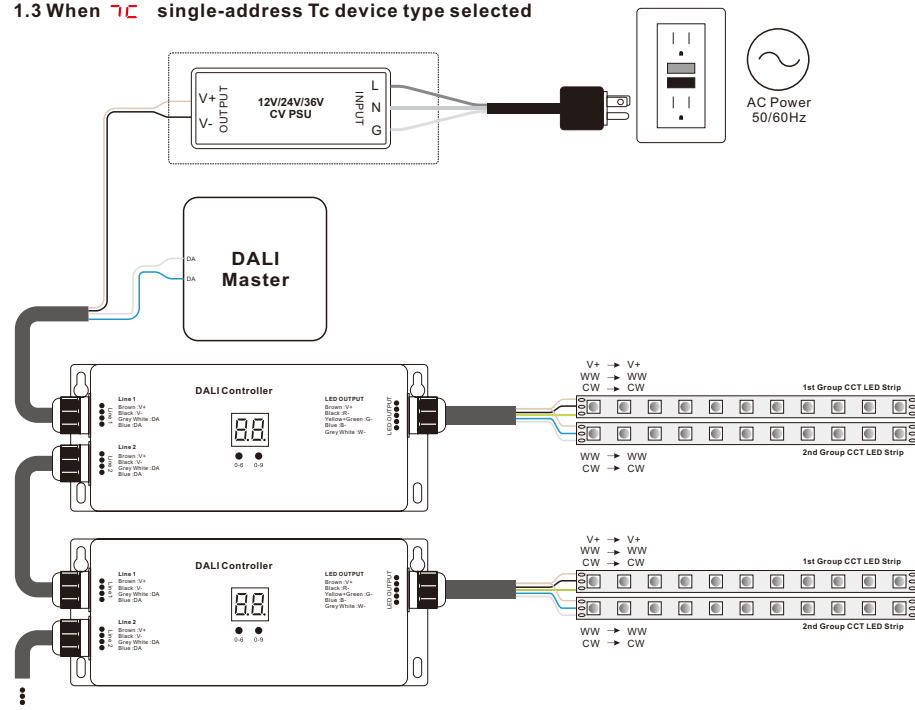
1.1 When **7C** multi-addresses Tc device type selected



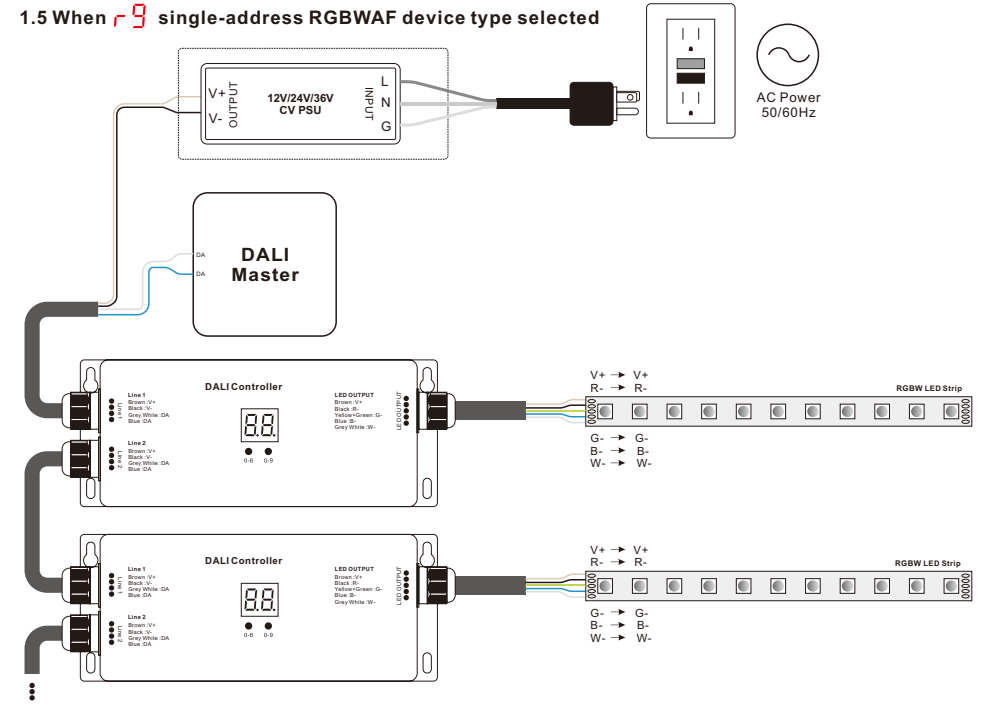
1.2 When **H6** multi-addresses XY+Single Color(DT6) device type selected



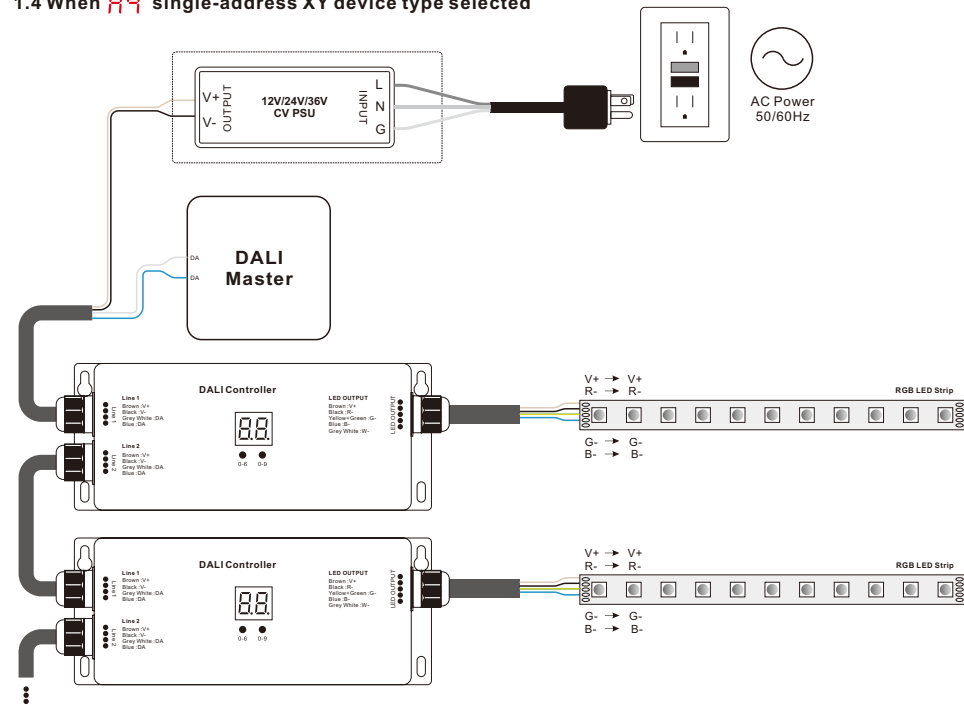
1.3 When **7C** single-address Tc device type selected



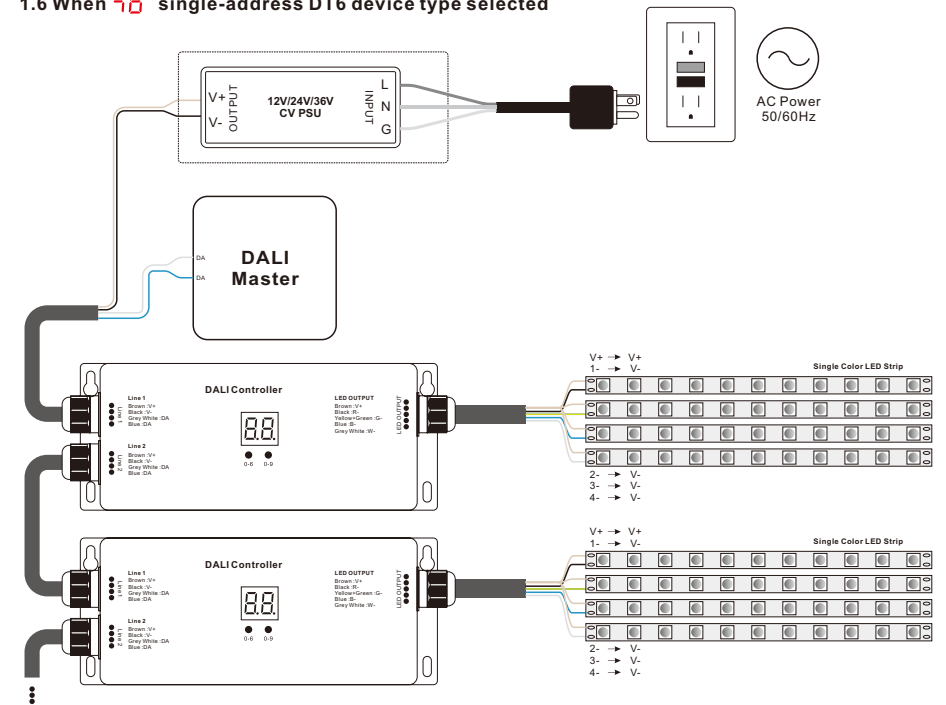
1.5 When **9** single-address RGBWAF device type selected



1.4 When **H4** single-address XY device type selected

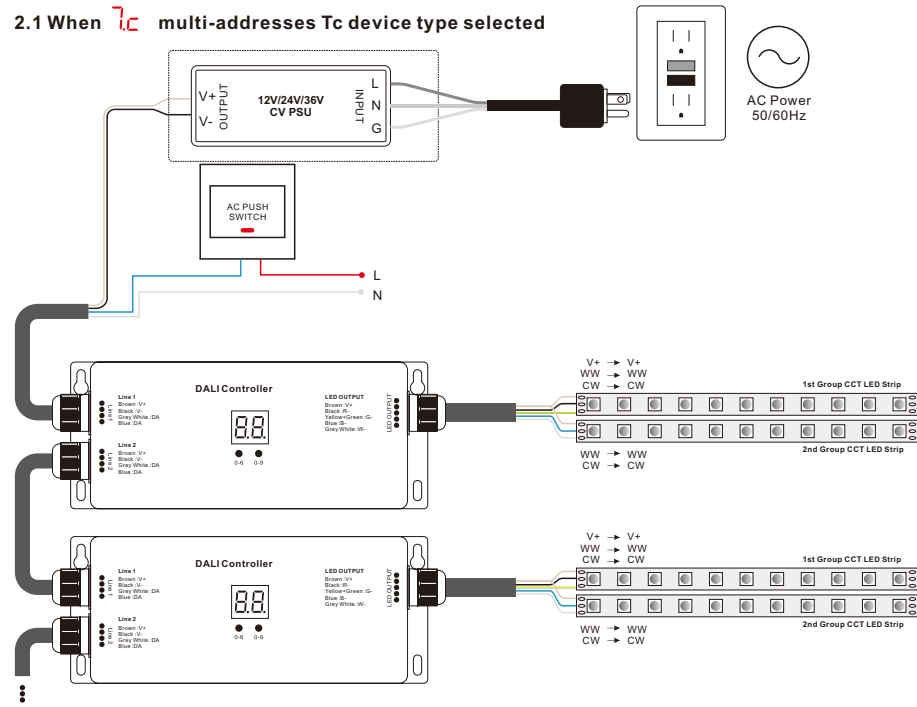


1.6 When **7B** single-address DT6 device type selected

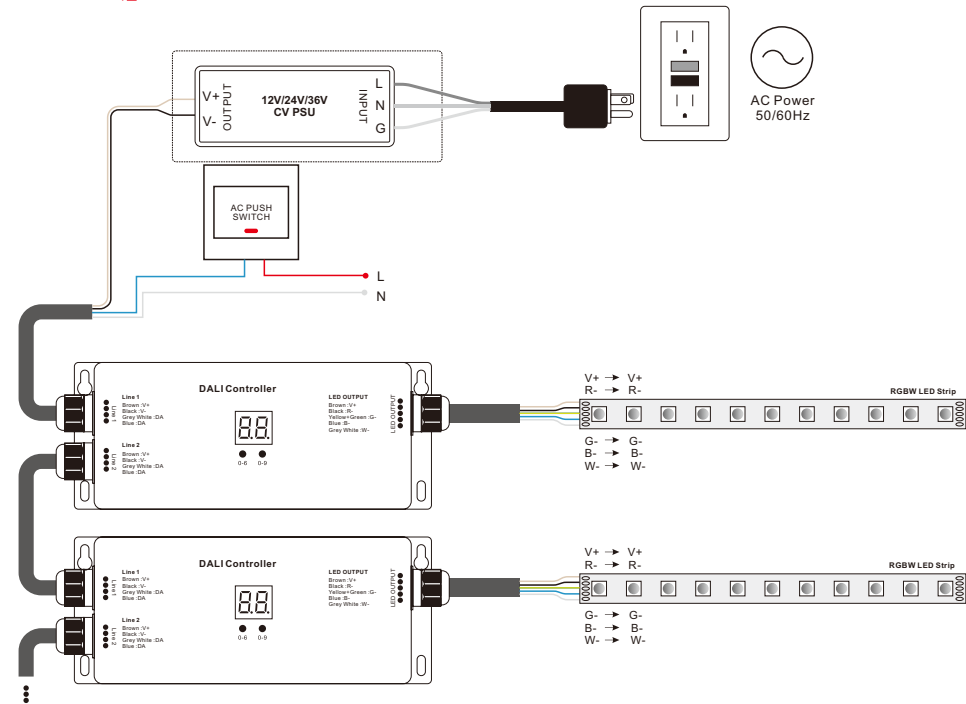


2. With Push Switch

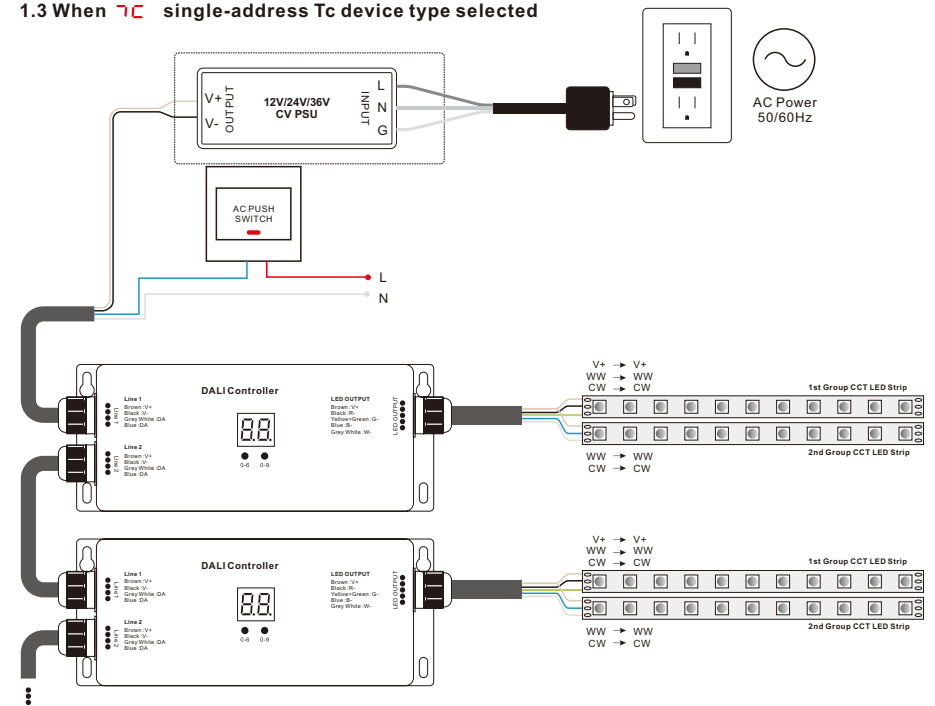
2.1 When **7C** multi-addresses Tc device type selected



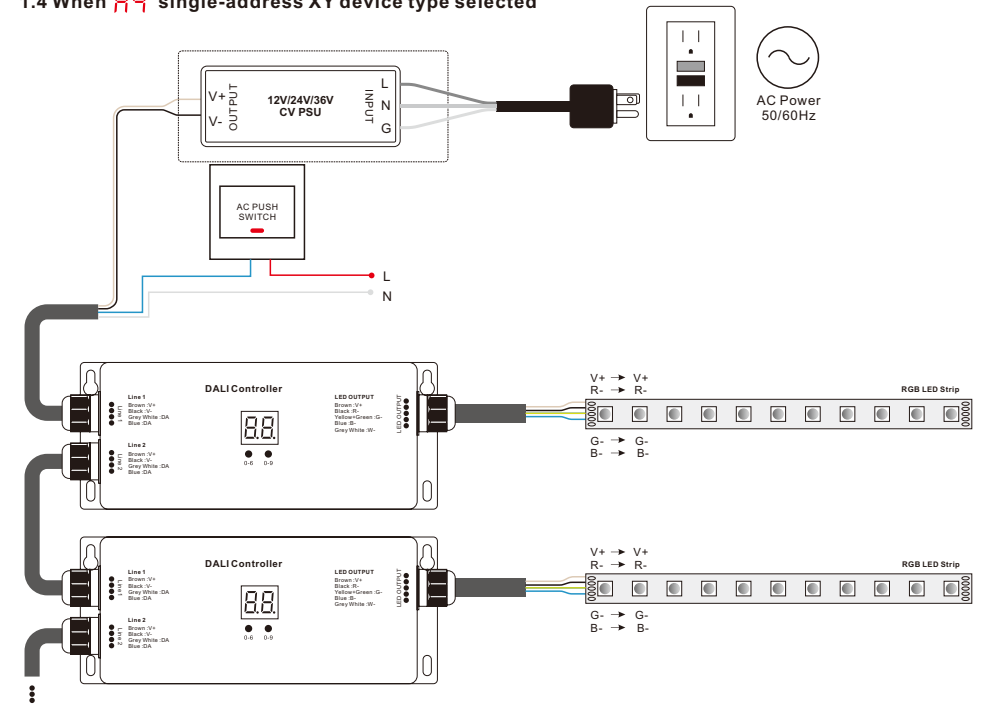
1.2 When **H6** multi-addresses XY+Single Color(DT6) device type selected



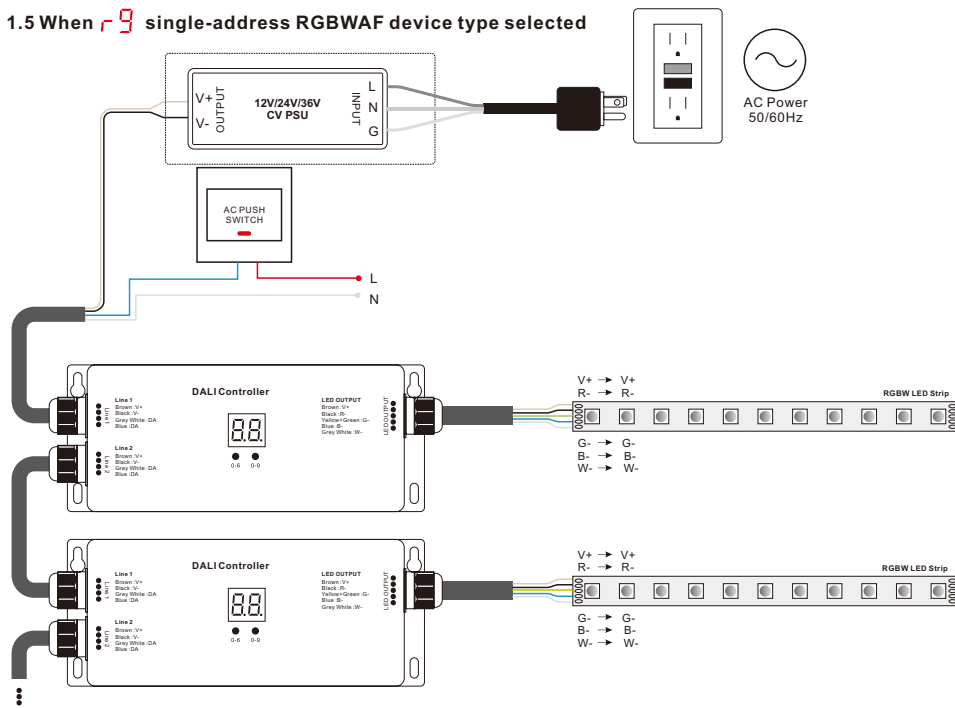
1.3 When **7C** single-address Tc device type selected



1.4 When **H4** single-address XY device type selected



1.5 When single-address RGBWAF device type selected



Conformity & Standards

- Radio Frequency Interference according to EN 55015:2013
- Immunity standard according to EN 61547:2009
- TÜV Rheinland marked, CE marked

1.6 When single-address DT6 device type selected

