SUNRICHER

SR-2309FA -RGBW(DT8)
DALI Dimmer

PRI:
Uin=12-36VDC
Iin=1.5A
SEC:
Uout=4x(12-36)VDC
Iout=4x350mA
Pout=4x(4.2-12.6)W
TEMP RANGE:-20℃-+50℃

0-6   0-9

CE RoHS

DALI SIGNAL
D1 D2 D1 D2

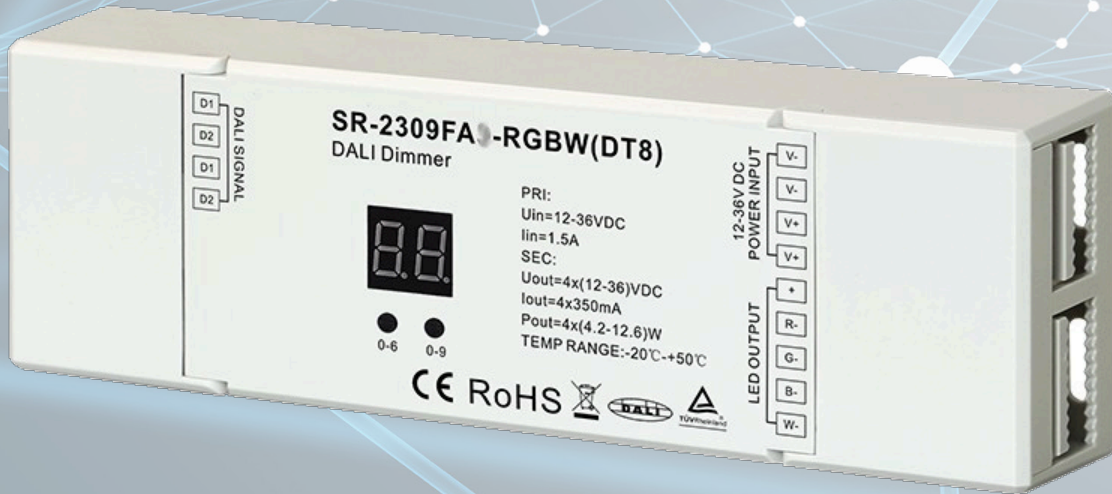12-36V DC POWER INPUT
V- V- V+ V+

LED OUTPUT
+ R- G- B- W-

2 YEAR
WARRANTY

Multi colour DALI2 DT8 LED DC converter with PWM output

Features of the:
SR-2309FA-RGBW

Constant Current PWM Output

PushDimming (VAC)

Colour control:
• Single
• RGBW(4 Ch)
• CCT

DC Input/Output Range: 12-36 VDC

DALI 2 DT8(XY/TC)

CE DALI2 IP20 SELV

Specification

Model		SR-2309FA3-RGBW	SR-2309FA7-RGBW
Output	DC voltage	12-36V PWM (equal to input voltage)	
	Rated current	4 x 350mA	4 x 700mA
	Rated power	4 x (4.2-12.6)W	4 x (8.4-25.2)W
	PWM refresh rate	3kHz	
Input	Voltage range	12-36VDC	
Environment	Working TEMP.	-20 - +50°C	
	Waterproof Grade	IP20	
Others	Net. weight	0.22kg	
	Size	170*53.4*28mm (L*W*D)	
Notes	1. DALI Master must to be compatible with DT8 2. DALI Master must to be compatible with the different available modes. 3. DALI address can be assigned either by the Master or from the device itself. 4. Do not install with power applied to device. 5. Do not expose the device to moisture		

Mechanical Specification

- • Input Low voltage: 4 pole terminal block: Positive (V+), Negative (V-).
- • Output LED's: 5 pole terminal block: 1 common Positive (+), 4 individual Negative (#-).
- • DALI: terminals 4 pole terminal block: Common DL1 and common DL2.
- • Push Dim: Follow wiring diagram below
- • Suggested wire diameter: Input/Output: 0.5-2.5mm
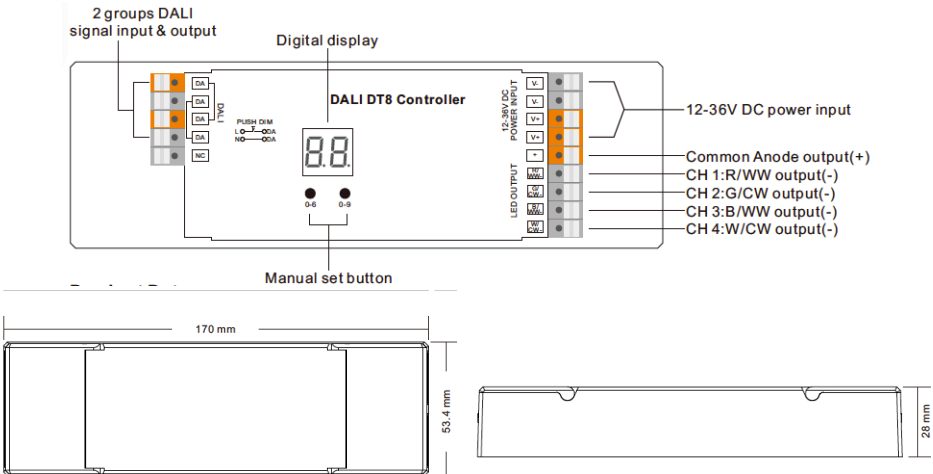
Instructions

1. Set DALI address using manual set buttons:

1.1. Press and hold any of the two buttons until the numeric display starts flashing; then, release the button.

1.2. Click either button to choose a digit. Click again to adjust the digit until the desired DALI address appears. Use the first button for the "tens" position and the second button for the "units" position. The address range is from 00 to 63.

1.3. Press and hold any of the two buttons until the numeric display stops flashing to confirm your setting.

Note: DALI address can be manually assigned from 00-63 or FF.
Factory defaults shows "FF", no DALI address is assigned. Setting DALI address as "FF" will reset the dimmer to factory defaults.

2. Set DALI device type:

2.1. Press and hold both buttons until the numeric display starts flashing; then, release the buttons.

2.2. Click the 2nd button(0-9) to cycle through the modes.

2.3. After selecting the desired device type press and hold both buttons until the display stops flashing.

Note: The available modes are described in the next section.
Ignore modes H.c and r.c ,They are not aplicable modes

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7.c multi-addresses Tc (DT8)

• This mode is designed to control two separate groups of tunable white LEDs, each with its own DALI address.
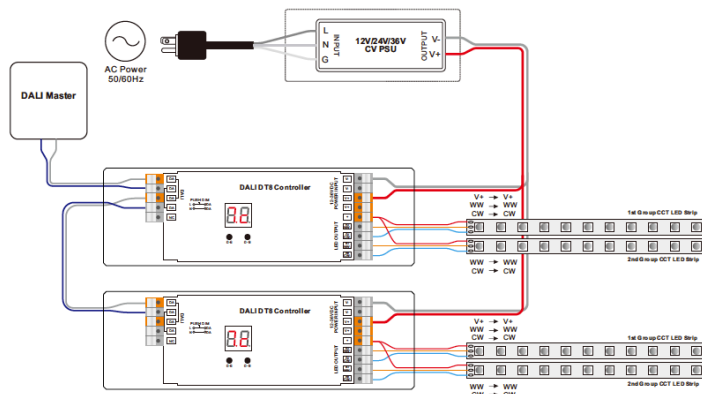• The DALI Master will discover two separate Tc devices, if compatible.

• Push button control :
• Click the AC push switch to switch ON/OFF
• Press and hold down the AC push switch 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 AC push switch to switch between brightness mode and color temperature mode.
• Press and hold down the AC push switch to change color temperature under color temperature mode
* Only the 1st group CCT LED can be controlled under this mode.
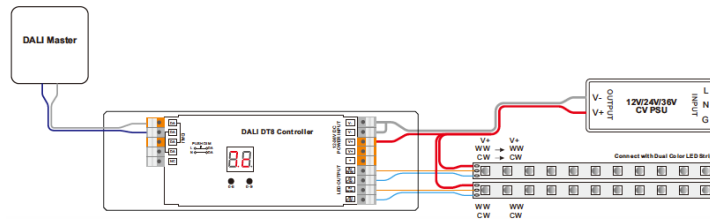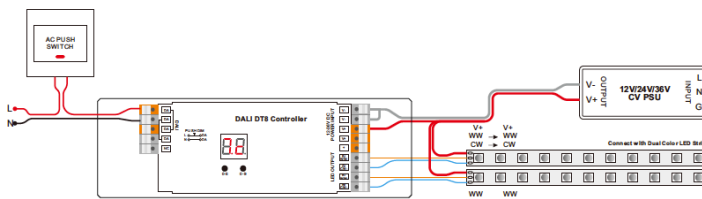
DALI Control
Over 10A

Tunable White strip

DALI Control
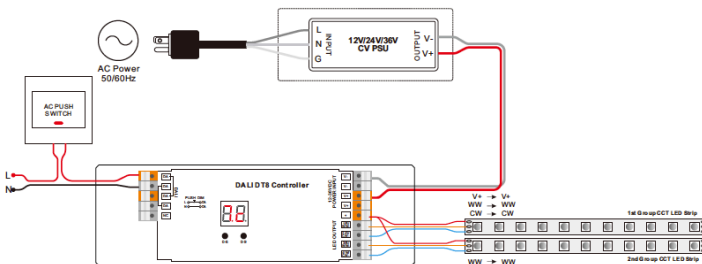Under 10A

Tunable White strip

Tunable White strip

Push Button Control
Over 10A

Tunable White strip

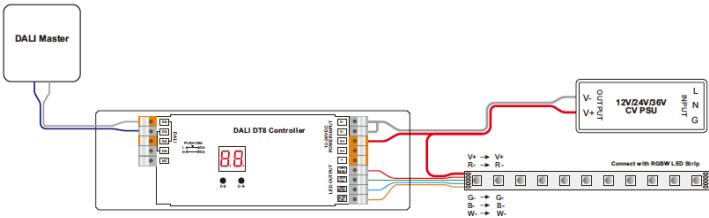### Push Button Control
Under 10A

Tunable White strip

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H.6 multi-addresses XY (DT8) + single colour (DT6)

• This mode is designed to manage two separate devices XY(RGB) and a White colour (DT6).
• The DALI Master will discover 2 separate devices XY + Single colour(DT6), if compatible.

• Push button control :
• Click the AC push switch to switch ON/OFF
• Press and hold down the AC push switch 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 AC push switch to switch between brightness mode and RGB color mode.
• Press and hold down the AC push switch to change RGB colors under RGB color mode.
* Only the RGB LED can be controlled under this mode.
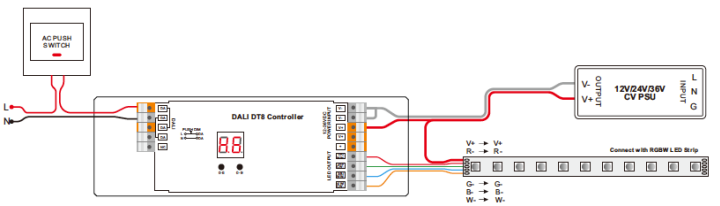
DALI Control
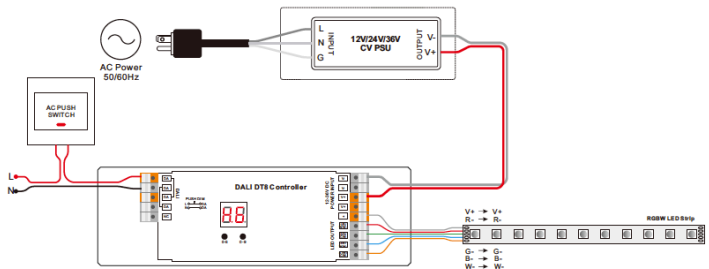Over 10A

RGBW Strip

DALI Control
Under 10A
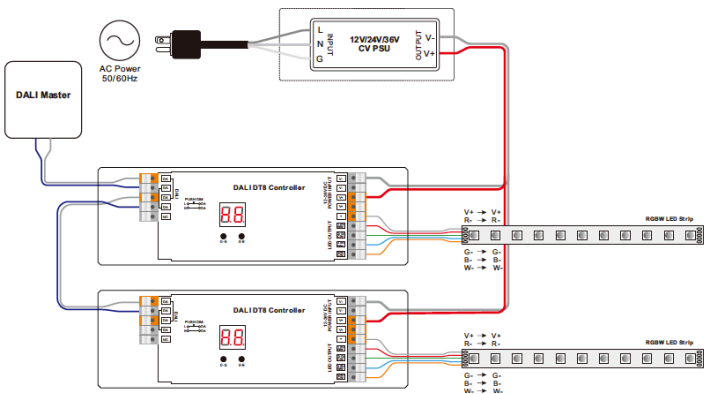
RGBW Strip

RGBW Strip

Push Button Control
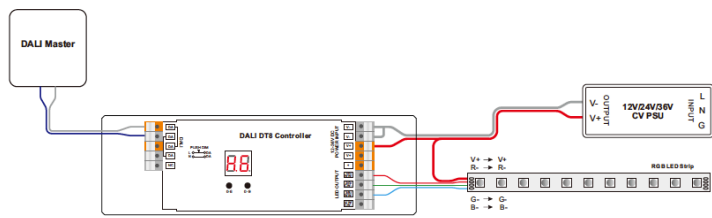Over 10A

RGBW Strip

Push Button Control
Under 10A

RGBW Strip

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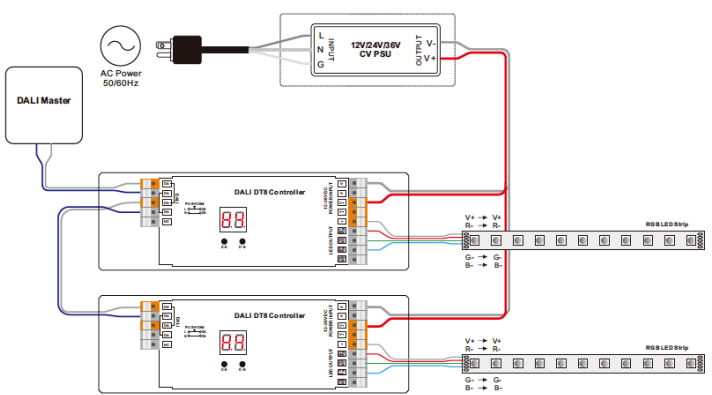
H4 single-address XY (DT8)

- This mode is designed to manage a single address device XY(RGB).

- The DALI Master will discover one XY device.

- Push button control :
- Click the AC push switch to switch ON/OFF
- Press and hold down the AC push switch 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 AC push switch to switch between brightness mode and RGB color mode.
- Press and hold down the AC push switch to change RGB colors under RGB color mode.
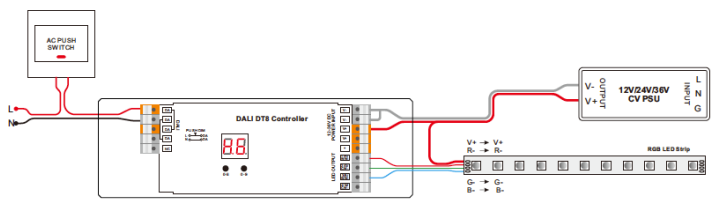
DALI Control
Over 10A

RGB Strip
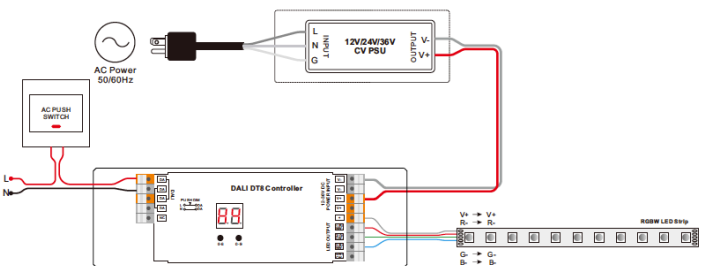
DALI Control
Under 10A

RGB Strip

RGB Strip

Push Button Control
Over 10A

RGB Strip

Push Button Control
Under 10A

RGB Strip

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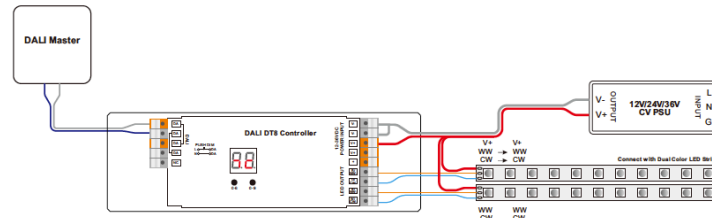
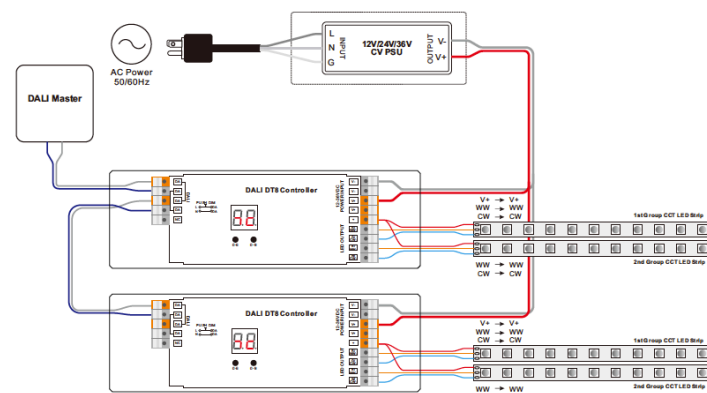# Wiring Diagrams & Instructions

⅂⊏ single-address Tc (DT8)

• This mode is designed to manage a single address device Tc(Tunable white).
• The DALI Master will discover one Tc device.

• Push button control :
• Click the AC push switch to switch ON/OFF
• Press and hold down the AC push switch 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 AC push switch to switch between brightness mode and color temperature mode.
• Press and hold down the AC push switch to change color temperature under color temperature mode.
* 2 groups CCT LED are controlled together under this mode.

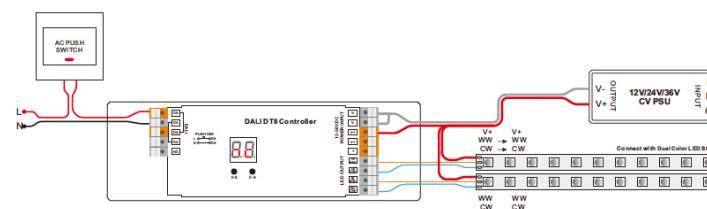### DALI Control
Over 10A

Tunable White strip

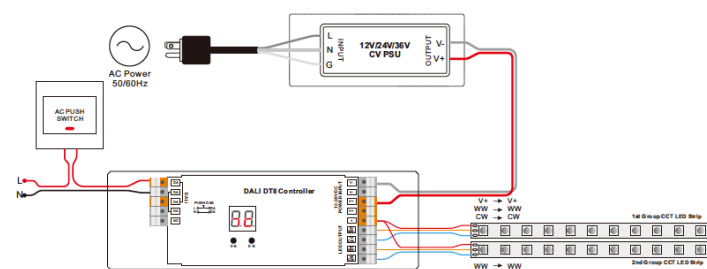### DALI Control
Under 10A

Tunable White strip

Tunable White strip

Push Button Control
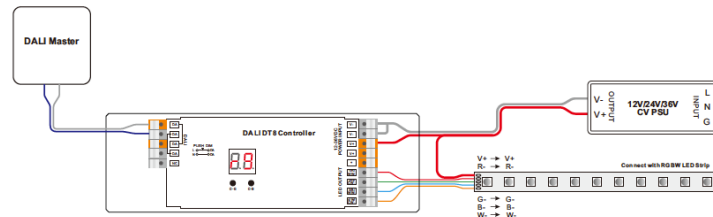#### Over 10A

Tunable White strip

Push Button Control
Under 10A


Tunable White strip

⌐9 single-address RGBWAF (DT8)

• This mode is designed to manage a single address device RGBWAF (RGBW Amber and Free colour).
• The DALI Master will discover one single RGBWAF device , if compatible.

• Push button control :
• Click the AC push switch to switch ON/OFF
• Press and hold down the AC push switch 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 AC push switch to switch between brightness mode and RGB color mode.
• Press and hold down the AC push switch to change RGB colors under RGB color mode.
* Brightness of both RGB & CCT LEDs can be controlled, color control only applicable to RGB LED under this mode.
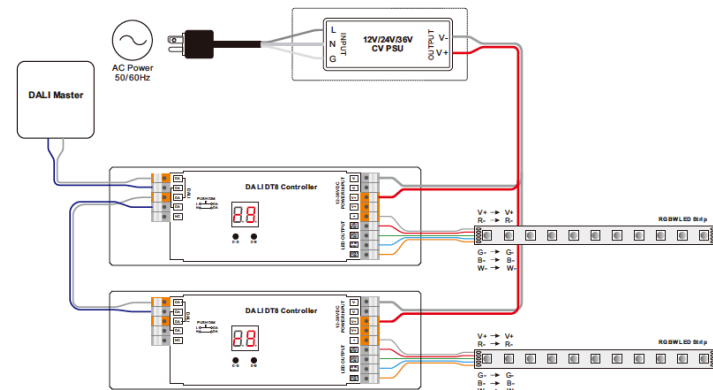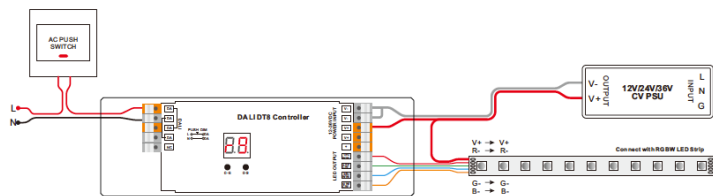
DALI Control
Over 10A

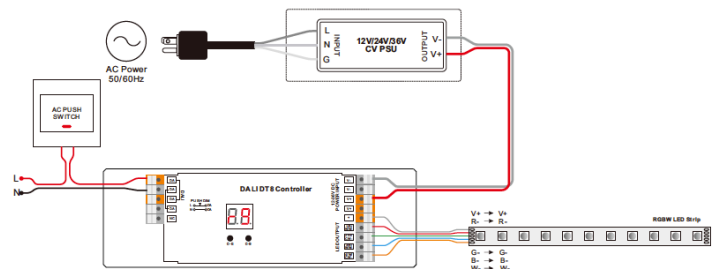
RGB Strip

DALI Control
Under 10A

RGB Strip

RGB Strip

Push Button Control
Over 10A

RGB Strip

Push Button Control
Under 10A

RGB Strip

Wiring Diagrams & Instructions

76 single-colour (DT6)

• This mode is designed to manage a single colour device(DT6).
• The DALI Master will discover one single colour device.

• Push button control :
• Click the AC push switch to switch ON/OFF
• Press and hold down the AC push switch 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 AC push switch to switch between brightness mode and color temperature mode.
• Press and hold down the AC push switch to change color temperature under color temperature mode.
* all groups Single colour LED are controlled together under this mode.

DALI Control
Over 10A

Single colour Strips

DALI Control
Under 10A

Single colour Strips

Single colour Strips

Push Button Control
Over 10A

Single colour Strips

Push Button Control
Under 10A

Single colour Strips