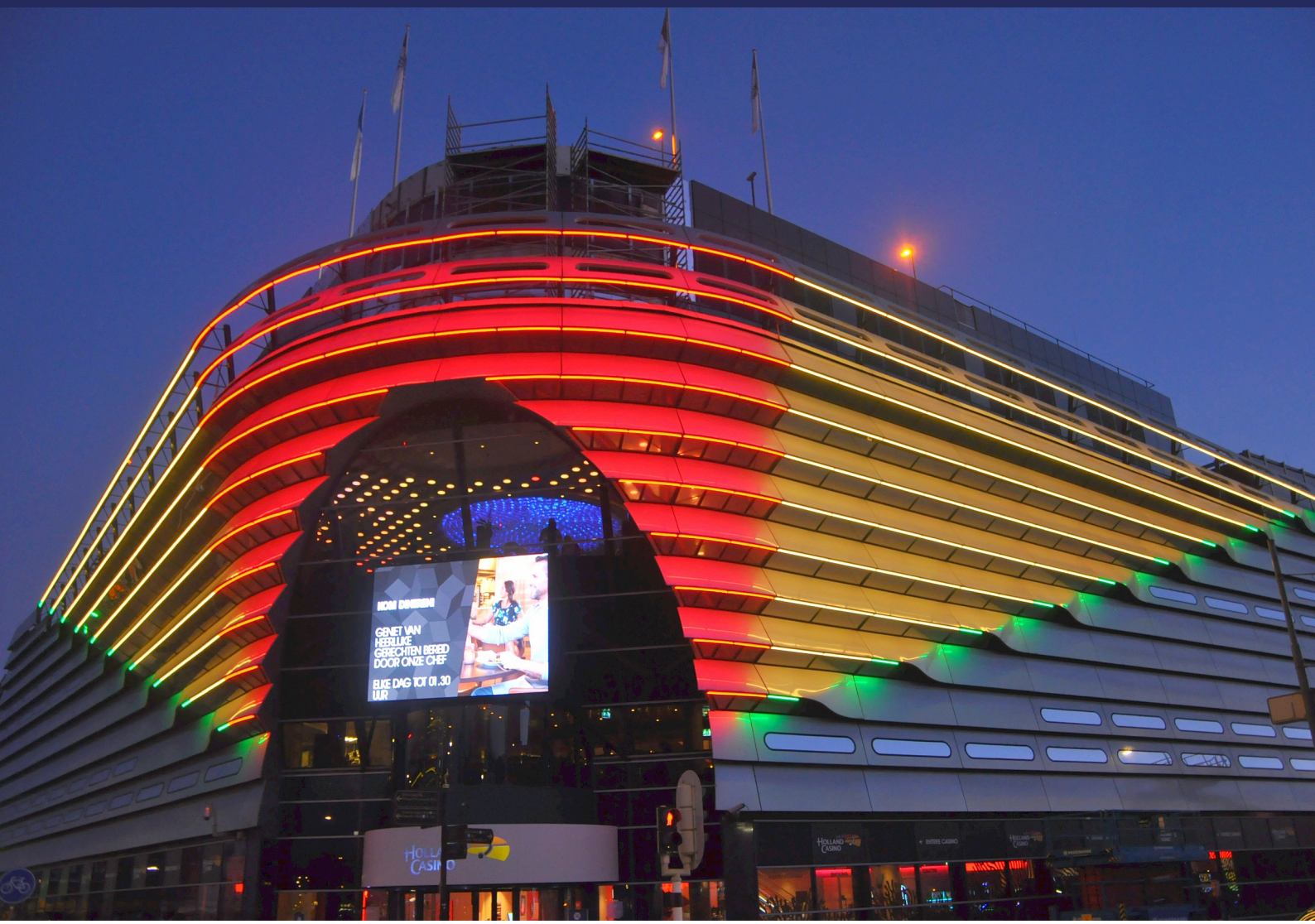
LED CONTROL SYSTEMS



LUCOLED

Experience Lighting

August 2026

Lucoled Controls

INTRODUCTION	03
LC-DMX-4CH-WP	04
LC-RF-4CH-WP	06
LC-RFWIFI-4CH	08
LC-RF-REMOTE/DIMMER/TW	10
LC-DMX-4CH	12
LC-DIM-4IN1	14
LC-CAS-7IN1	16
LC-CAS-DALI	20

LUCOLED

Experience Lighting

LUCOLED: NOT JUST ANOTHER LED COMPANY

PAY FOR PERFORMANCE

At LucoLED we operate at the simple principle that the customer should only pay for product performance and not for the overhead and excessive margins most major brands add to their cost.
It is LucoLED's mission to provide fit for purpose, reliable and efficient lighting solutions for visual communication and brand identity.

EXPERIENCE

LucoLED is based on over 25 years of experience in the signage industry and has developed an in depth knowledge of the basic needs of the market. Backed by industry leading design and production facilities LucoLED provides high quality products with exceptional performance and warranties.
LucoLED's ODM production uses state of the art equipment and has extensive R&D and testing facilities.
Besides a range of standard products LucoLED can also offer tailor made solutions with minimum lead time.

COMPLETE SOLUTION

LucoLED oAffers a complete system solution for letters, light boxes, flexible and linear accents. Including their own full range power A. LucoLED offers an extended system warranty up to the lifetime of the sign as we believe in our products.

GLOBAL REACH

LucoLED products are available globally through a distribution and logistics network covering over 80 countries. With offices in Belgium, The Netherlands and India and seven warehouse locations in various countries we optimise logistics and guarantee a short delivery time for local customers.

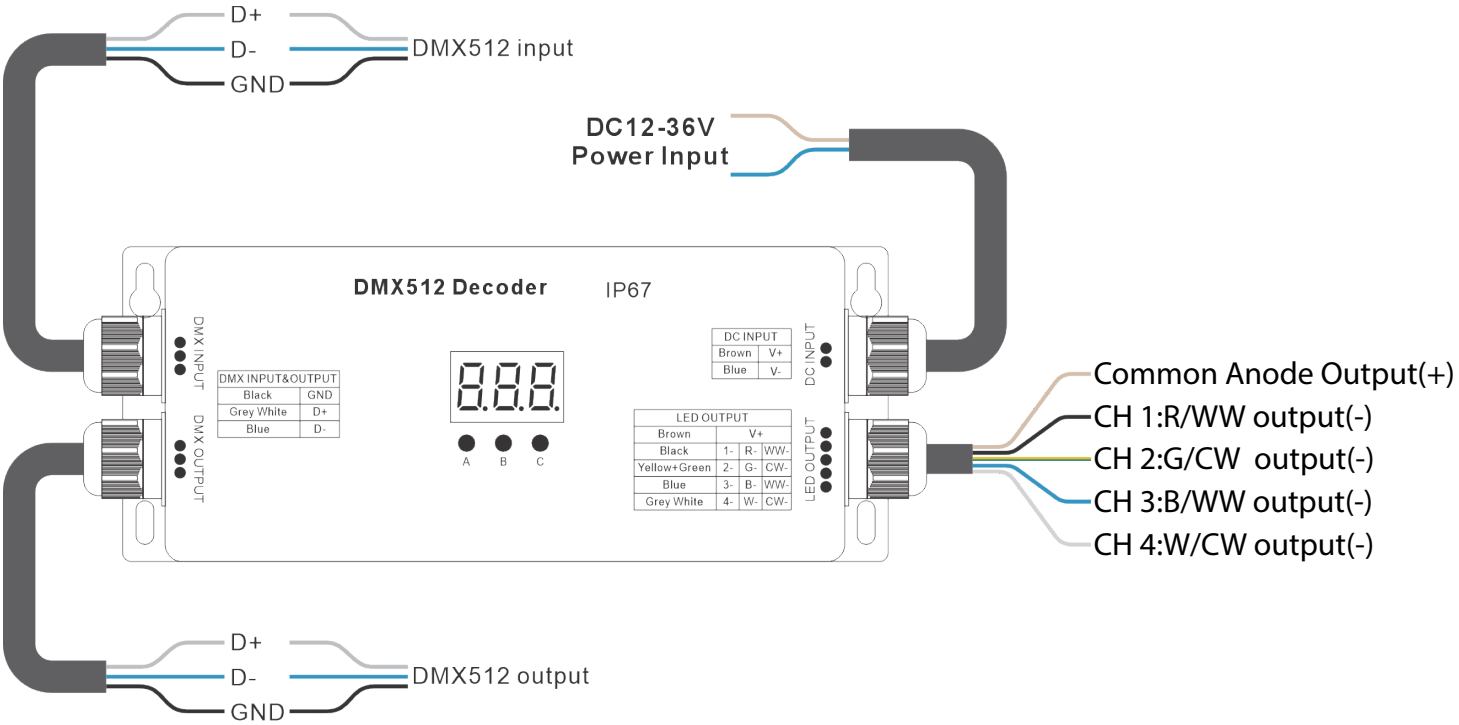
REFERENCES

LucoLED products are used by many international brands as Shell, Lidl, Starbucks, ESSO, UNO, PUMA, Pizza Hut, Mc Donald's, BP and many more.

INNOVATION

LucoLED continues to bring innovations to the LED sign industry. Examples are Lucoline, high efficiency optics, intelligent controls for dimming, layout software tools for Lucoline, lightboxes and channel letters.

All images in this catalogue are examples of typical possible applications of the products. All copyrights are with the original owner of the picture.
All shown trademarks are property of their owners.



LC-DMX-4CH-WP
RDM Enabled IP67 DMX Controller

- *Standard DMX512 compliant control interface*
- *RDM function enabled to realize intercommunication between DMX master and decoder.*
- *For example, DMX decoder's address can be assigned by DMX master console*
- *With digital display to show data directly, easily to set and show DMX address.*
- *Total 4 PWM output channels, common anode, 5A per channel*
- *DMX address manually settable*
- *DMX channel quantity from 1CH~4CH settable*
- *Output PWM frequency from 200HZ ~ 35K HZ settable.*
- *Output dimming curve gamma value from 0.1 ~ 9.9 settable*
- *To work with power repeater to expand output power unlimitedly.*
- *Waterproof grade:IP67*

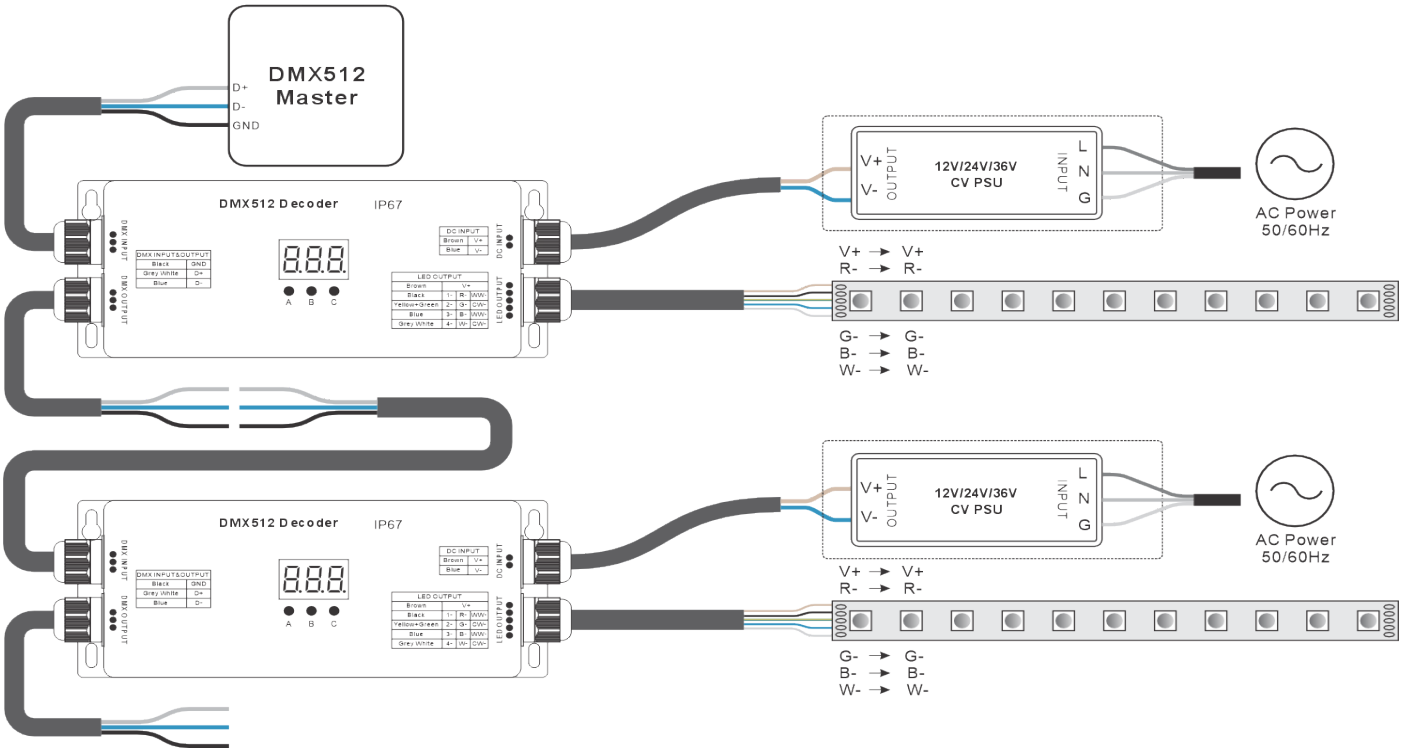
SPECIFICATIONS

- Dimensions 180.5x73.6x38 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 12-36 V DC
- 4 x 5A per channel
- 4x(60-180) W (12-36V)
- Operating temperature -25⁰~+45⁰C
- IP67

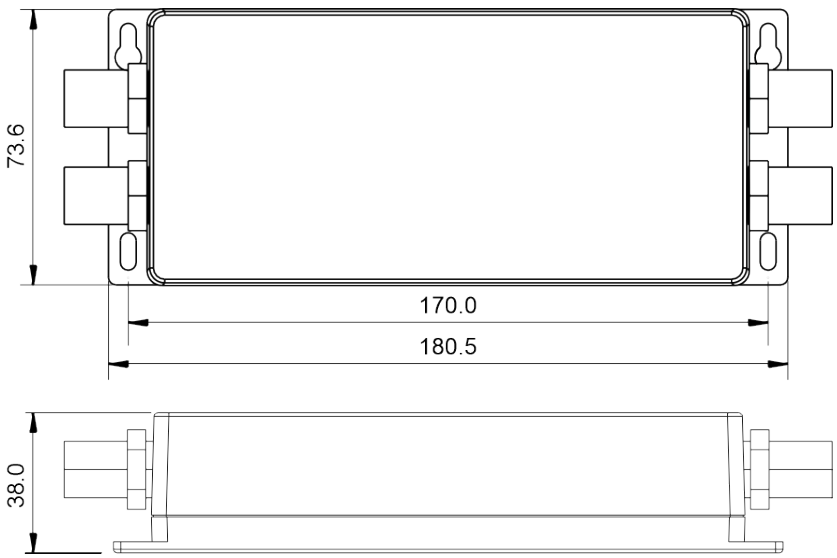
PRODUCT DATA

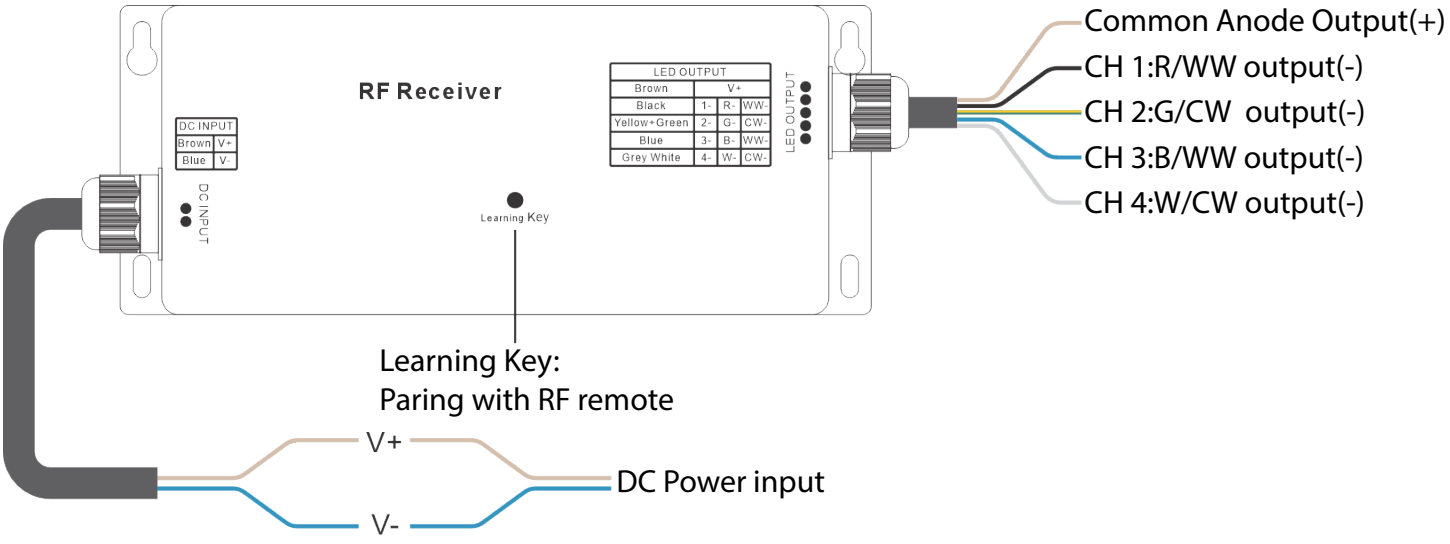
Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)	Ambient Temperature
12-36VDC	4x5A	4x(60-180)W	Constant Voltage	180.5x73.6x38mm	-25°C ~ +45°C

CONNECTIONS



DIMENSIONS





LC-RF-4CH-WP

RF RGBW/Single/Tuneable White IP67 Receiver Waterproof Receiver

- *4 Channel RGBW, tuneable white or single colour output*
- *5 A per channel*
- *Waterproof grade:IP67*

SPECIFICATIONS

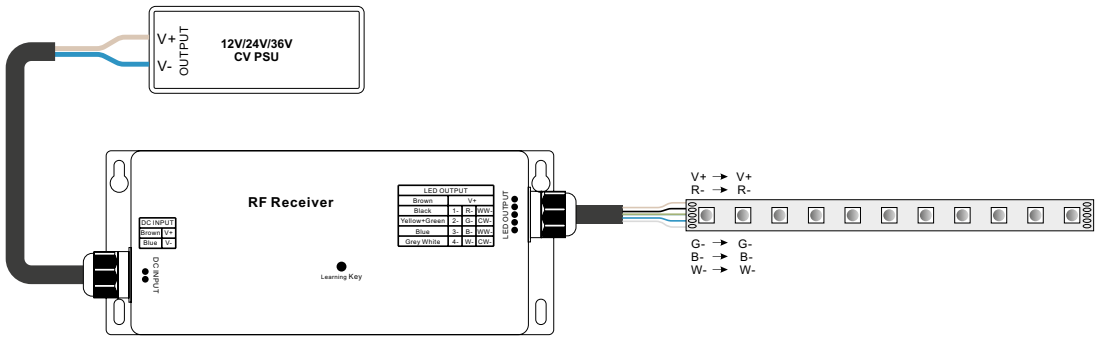
- Dimensions 180.5x73.6x38 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 12-36 V DC
- 4 x 5A per channel
- 4x(60-180) W (12-36V)
- Operating temperature -25⁰~+45⁰C
- IP67

PRODUCT DATA LC-RF-4CH-WP

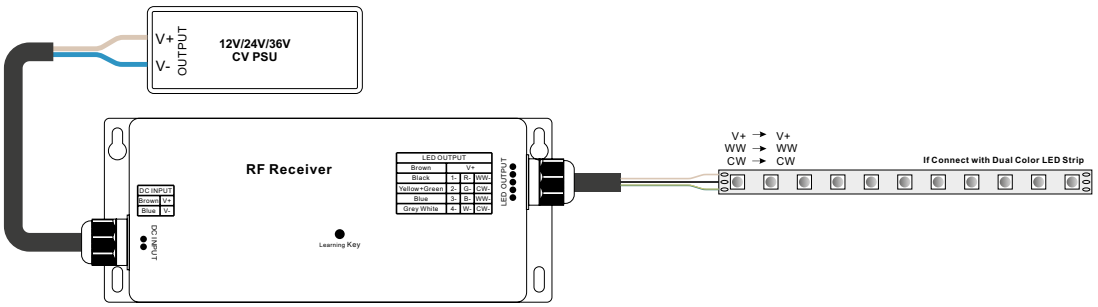
Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
12-36VDC	4x5A	4x(60-180)W	Constant Voltage	180.5x73.6x38mm

CONNECTIONS

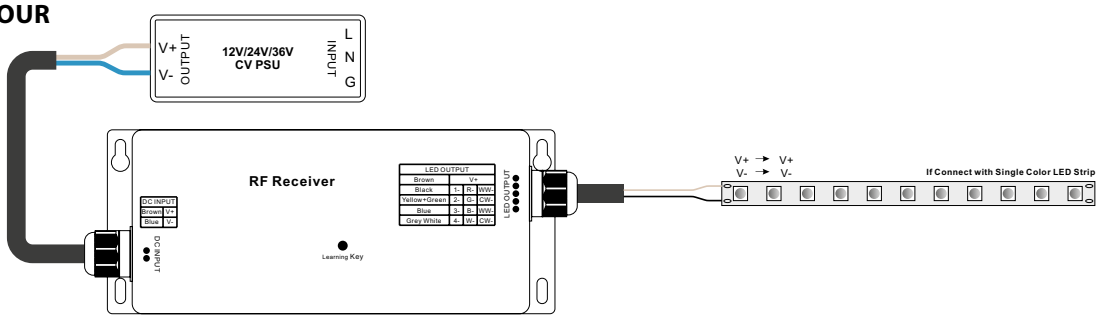
RGBW



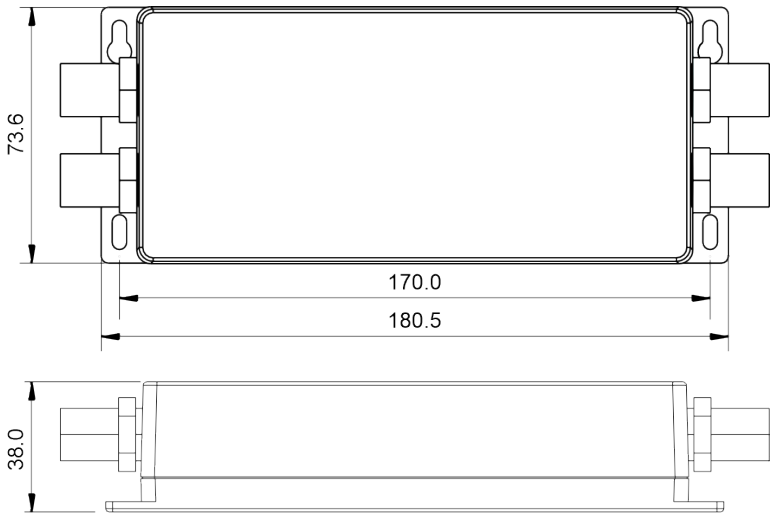
TUNEABLE WHITE

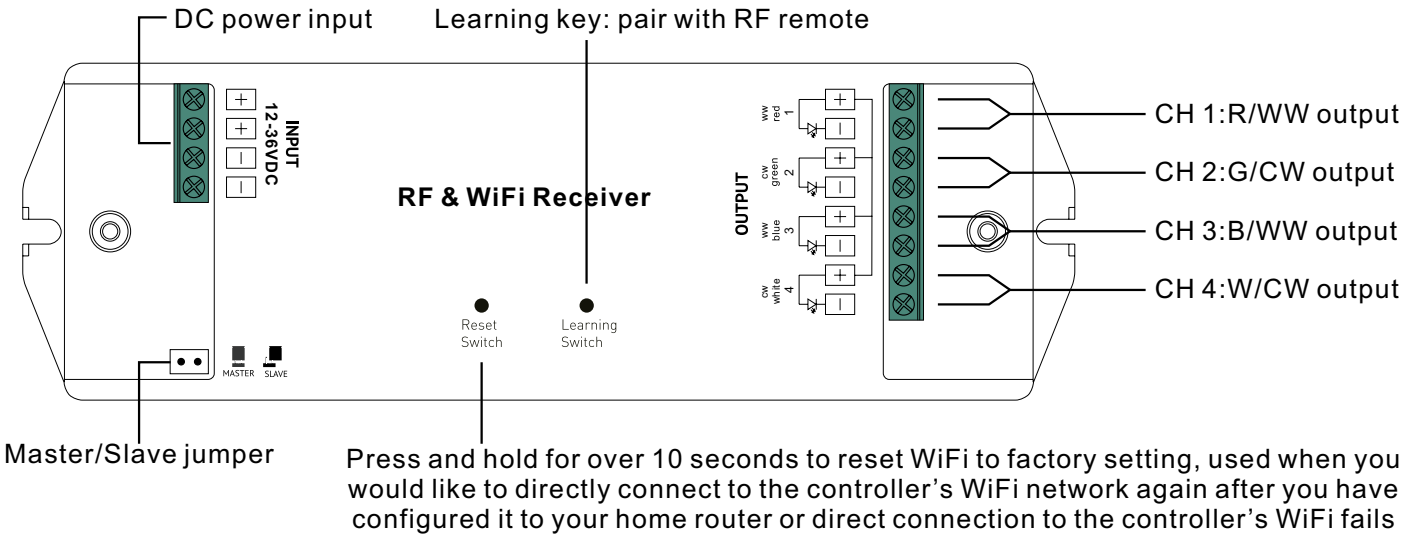


SINGLE COLOUR



DIMENSIONS





LC-RFWIFI-4CH

RF&WIFI RGBW/Single/Tuneable White Receiver

- *4 Channel RGBW, tuneable white or single colour output*
- *12-36 V DC, 5 A per channel*
- *Control via RF remote or App via WIFI*
- *Connects to existing WIFI network or creates own WIFI network*

Download APP by scanning QR code

EasyHome IOS Version

EasyHome Android Version

SPECIFICATIONS

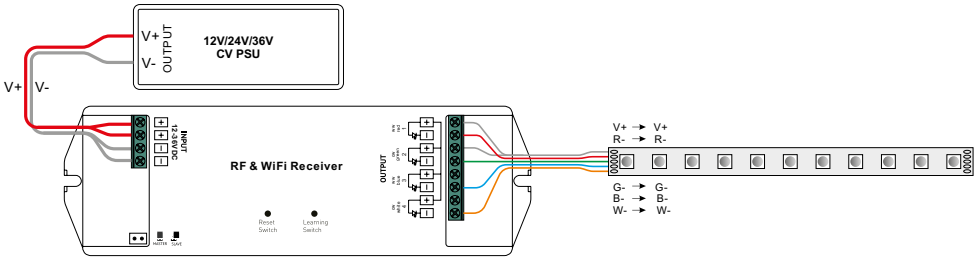
- Dimensions 178.0x57x21.0 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 12-36 V DC
- 4 x 5A per channel
- 4x(60-180) W (12-36V)
- Operating temperature -25⁰~+45⁰C
- IP20

PRODUCT DATA LC-RFWIFI-4CH

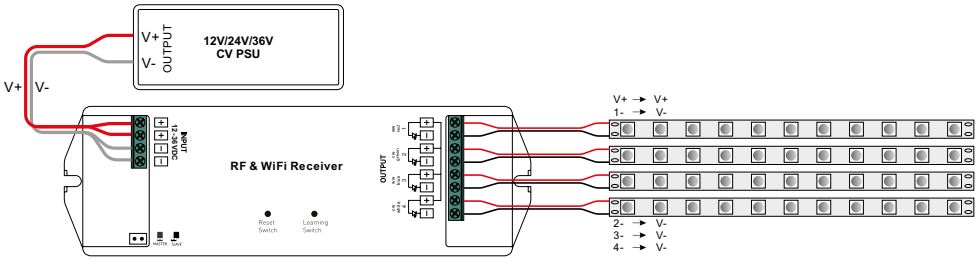
Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
12-36VDC	4x5A	4x(60-180)W	Constant Voltage	178.0x46.1x21.0 mm

CONNECTIONS

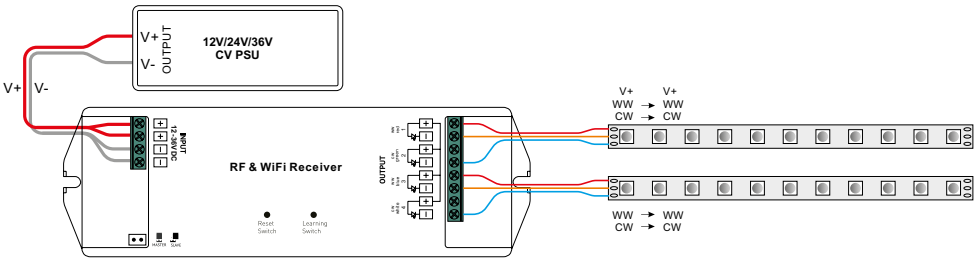
RGBW



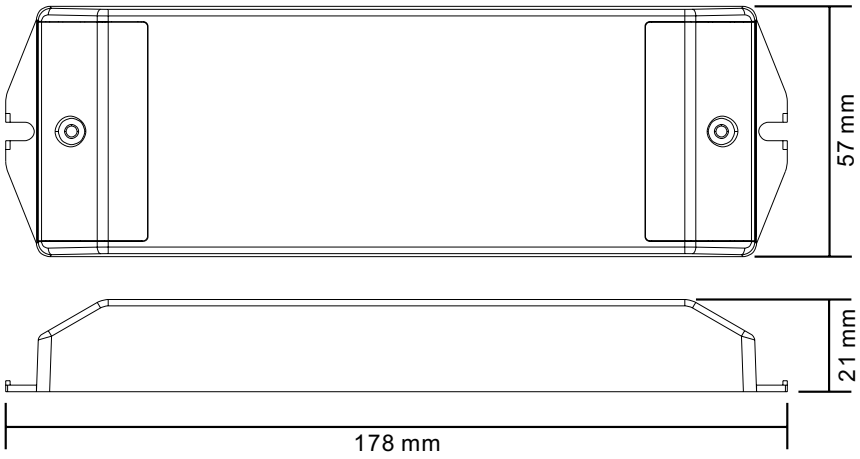
SINGLE COLOUR



TUNEABLE WHITE



DIMENSIONS







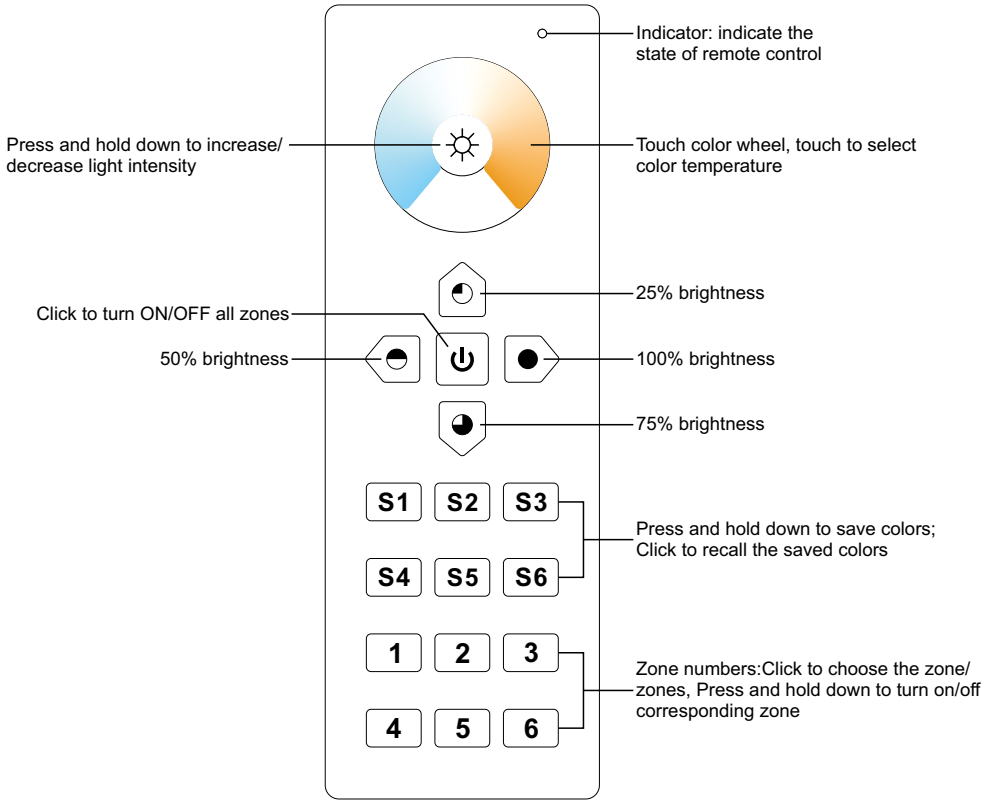


LC-RF-REMOTE / LC-RF-DIMMER / LC-RF-CT RF Remotes

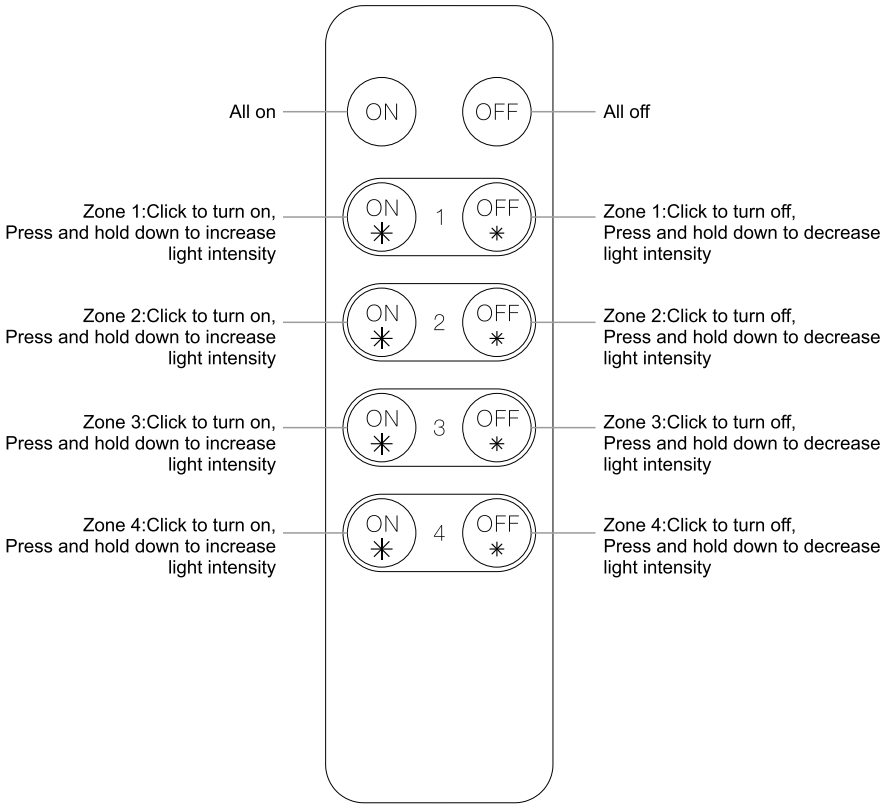
- *LC-RF-REMOTE can control multiple receivers and 4 zones for RGBW*

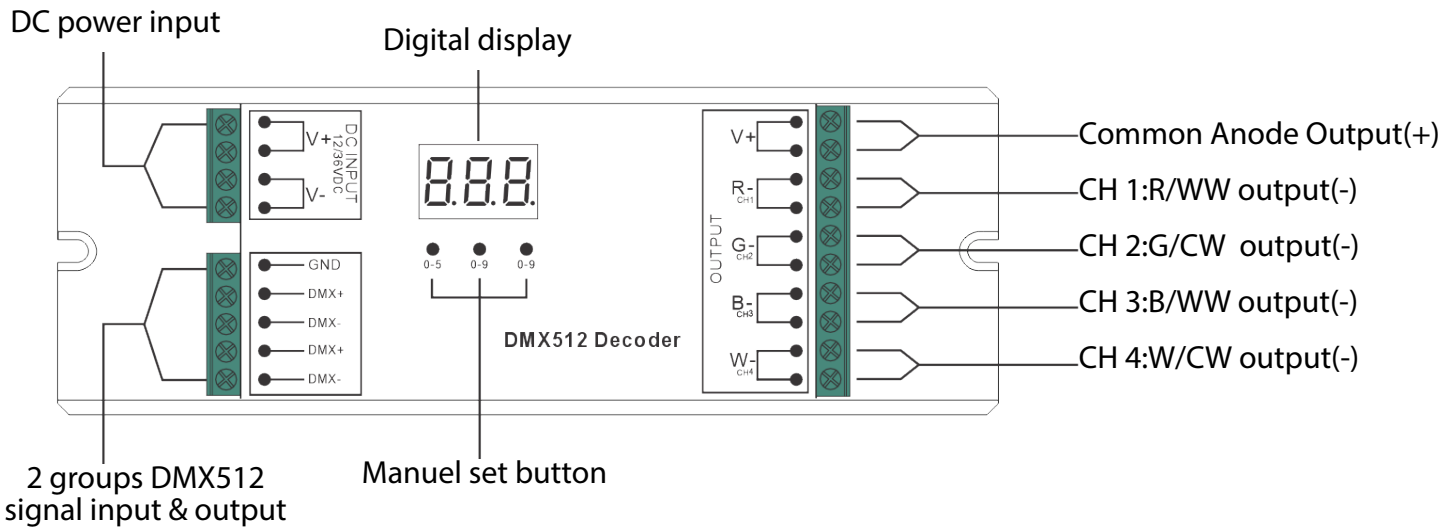


- *LC-RF-CT can control multiple receivers and 6 zones for tuneable white*



- *LC-RF-DIMMER can control multiple receivers and 4 zones single colour can control multiple receivers and 6 zones for tuneable white*





LC-DMX-4CH
RDM Enabled DMX 512 Controller

- *Standard DMX512 compliant control interface*
- *RDM function enabled to realize intercommunication between DMX master and decoder.*
- *For example, DMX decoder's address can be assigned by DMX master console*
- *With digital display to show data directly, easily to set and show DMX address.*
- *Total 4 PWM output channels, common anode, 8A per channel*
- *DMX address manually settable*
- *DMX channel quantity from 1CH~4CH settable*
- *Output PWM frequency from 200HZ ~ 35K HZ settable.*
- *Output dimming curve gamma value from 0.1 ~ 9.9 settable*
- *To work with power repeater to expand output power unlimitedly.*
- *IP20*

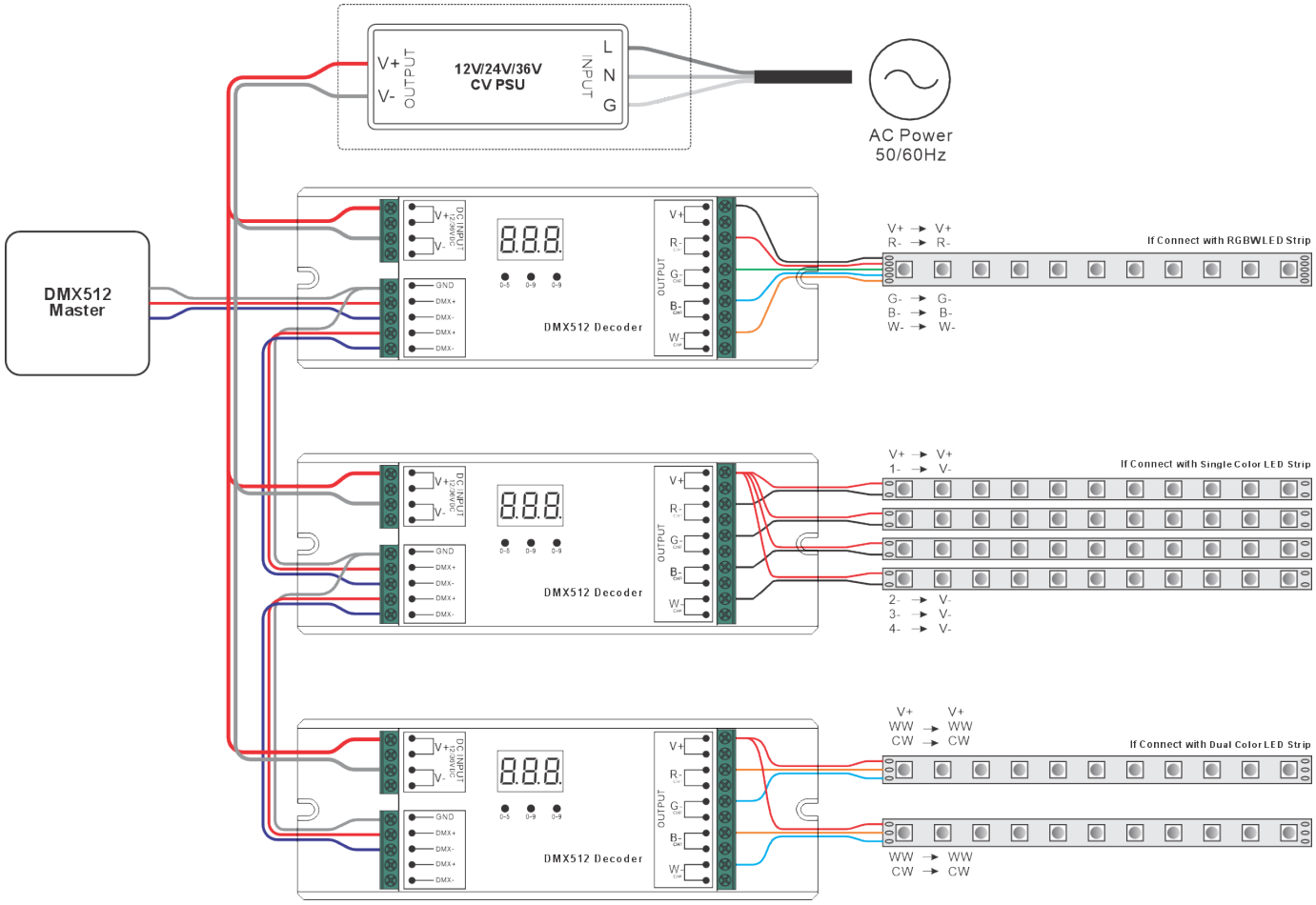
SPECIFICATIONS

- Dimensions 170x59x29 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 12-36 V DC
- 4 x 8A per channel
- 4x(96-288) W (12-36V)
- Operating temperature -25⁰~+45⁰C
- IP20

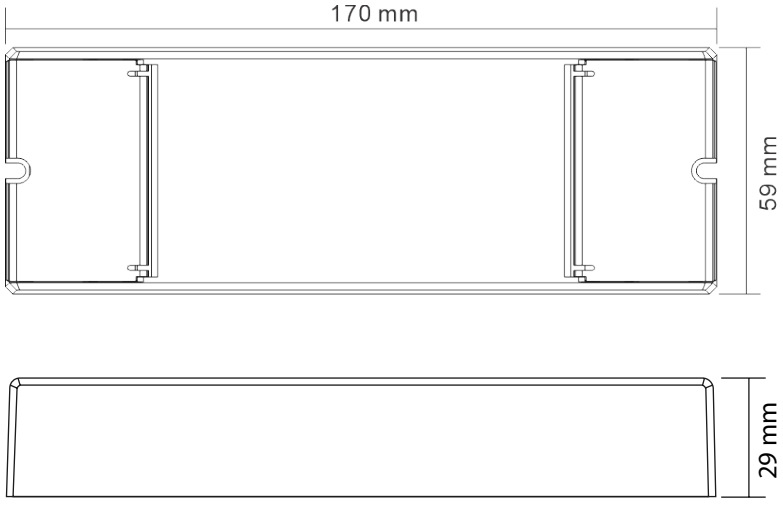
PRODUCT DATA

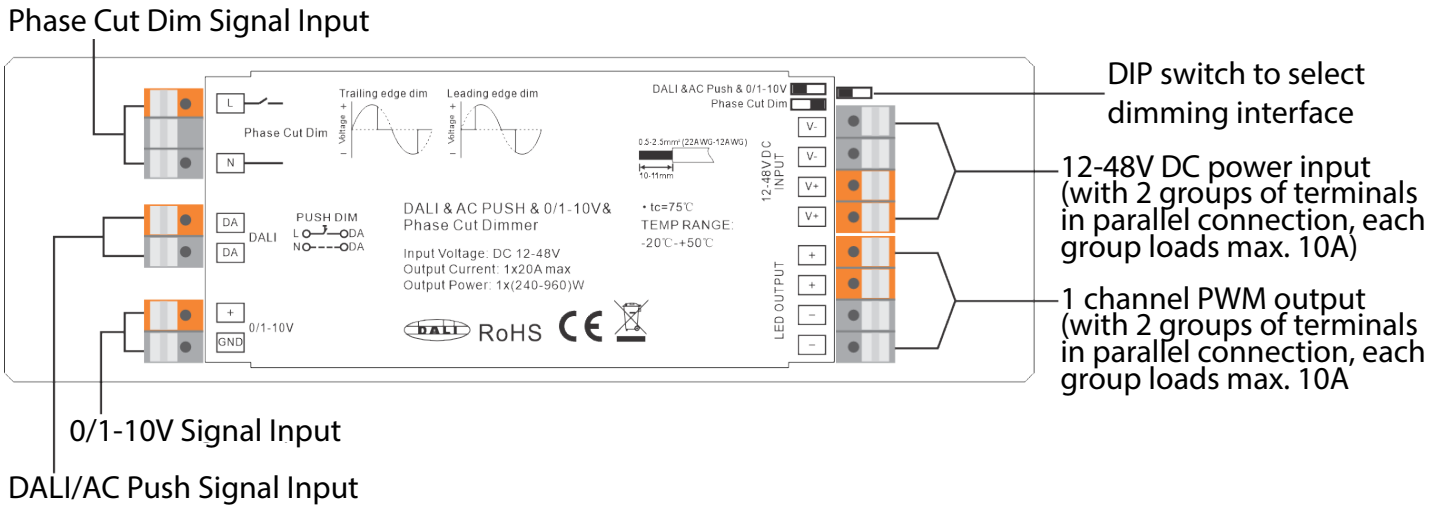
Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
12-36VDC	4x8A	4x(96-288)W	Constant Voltage	170x59x29mm

CONNECTIONS



DIMENSIONS





LC-DIM-4IN1

DALI+Push+Phase Cut+0/1-10V LED Dimmer

- *Multifunction 4 in 1 LED Dimmer, with DALI, AC push, 0/1-10V and Phase Cut dimming interfaces*
- *In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2.*
- *Built-in DALI-2 interface, DALI DT6 device*
- *Match all DALI systems in the market*
- *Dip switch to select different dimming interfaces*
- *1 channel 12-48VDC output, max. 20A*
- *Supports both leading edge and trailing edge dimming input*
- *1 DALI address assigned by DALI master*
- *Compatible with universal phase cut dimmers*
- *To work with power repeater to expand output power unlimitedly.*
- *Waterproof grade: IP20*

SPECIFICATIONS

- Dimensions 170x53.4x28 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 12-48 V DC
- 20 A output
- 240-960W
- Operating temperature -25⁰~+50⁰C
- IP20

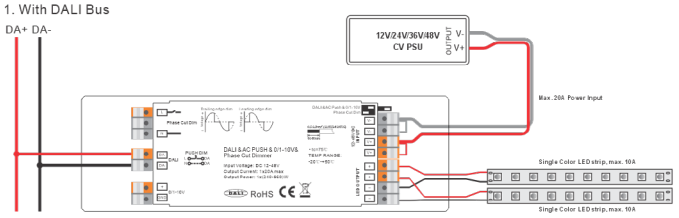
PRODUCT DATA

Input Voltage	Output Current	Output Power	Remarks	Size (LxWxH)	Dimming Input	DALi Consumption	Dimming Range	Ambient Temperature
12-48VDC	1x20A	1x(240-960)W	Constant Voltage	170x53.4x28mm	DALI&AC Push& 0/1-10V&Phase Cut	2mA	0.1%-100%	-20°C +50°C

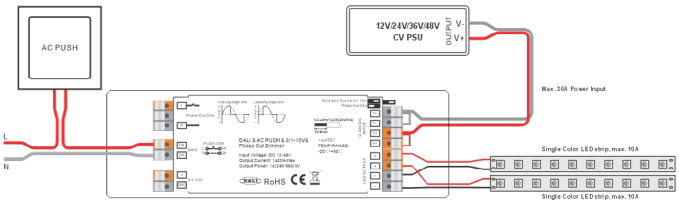
CONNECTIONS

Wiring Diagram (When connecting with two separate loads and each one is not over 10A)
Note: the device allows 0.5-2.5mm² wire specifications, please make sure the rated current of the used wire is enough for the loads.

1. With DALI Bus

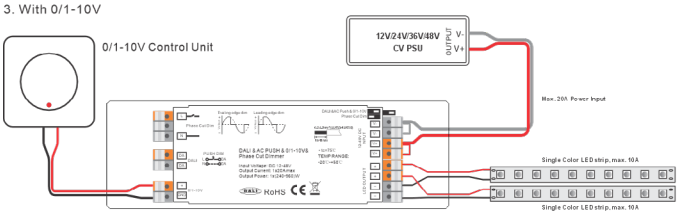


2. With AC Push

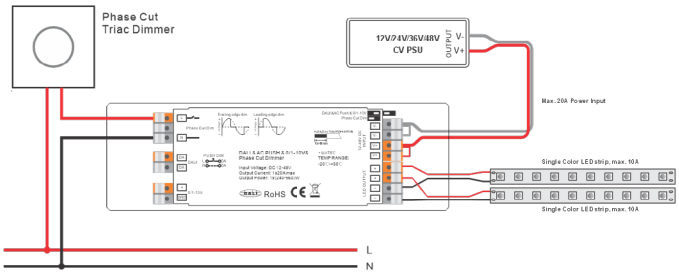


Note: the Push Dim input voltage range is 100-240VAC.

3. With 0/1-10V



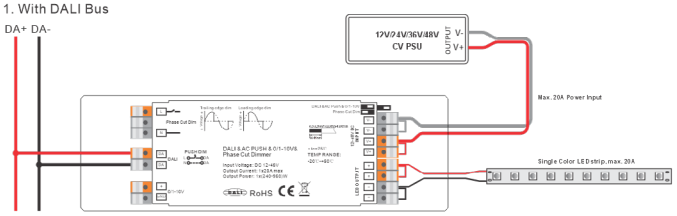
4. With Phase Cut Dim



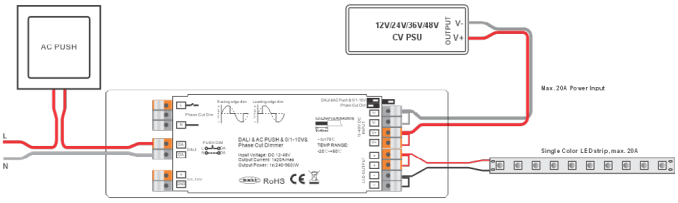
Note: the Phase Cut Dim input voltage range is 100-240VAC.

Wiring Diagram (When connecting with a single load that is over 10A)
Note: the device allows 0.5-2.5mm² wire specifications, please make sure the rated current of the used wire is enough for the loads.

1. With DALI Bus

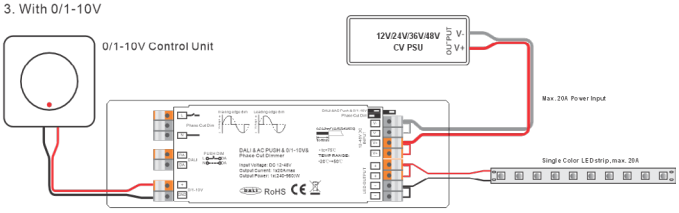


2. With AC Push

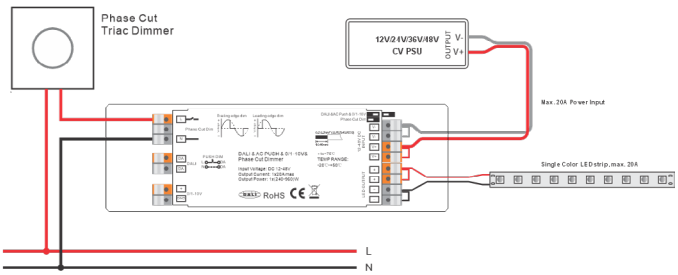


Note: the Push Dim input voltage range is 100-240VAC.

3. With 0/1-10V

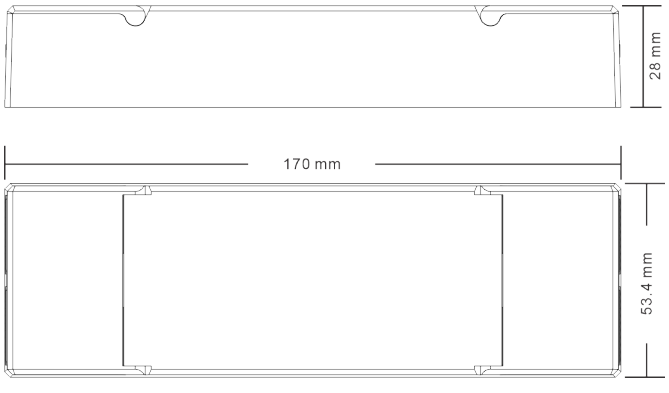


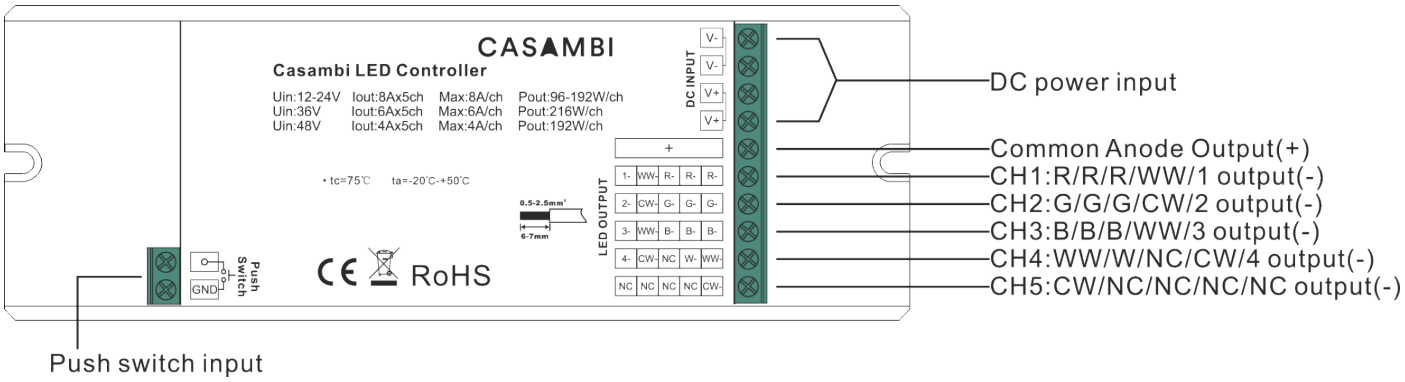
4. With Phase Cut Dim



Note: the Phase Cut Dim input voltage range is 100-240VAC.

DIMENSIONS





LC-CAS-7IN1
7 in 1 Casambi LED Controller

- *7 in 1 Casambi LED Controller, works with Casambi network*
- *Enables to control ON/OFF, light intensity, color temperature, RGB color of connected LED lights*
- *Can be controlled by both Casambi App and Casambi wall switches*
- *Easy commissioning with Casambi App*
- *Casambi bluetooth, 2.4GHz radio frequency*
- *Radio range: 164 feet (50m) in open field. Actual range is dependent on field installation*
- *Can be controlled by existing push switches*
- *Push switch can be configured through Casambi App to control elements, luminaires, groups, scenes*
- *Waterproof grade: IP20*

SPECIFICATIONS

- Dimensions 170x53.4x28 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 12-48 V DC
- 480-1080W
- Operating temperature -25^0~+50^{0}C
- IP20

OPERATION

7 profiles can be selected through Casambi App:

- RGBTW (RGB and tunable white separate control, no mix)
- RGB+TW (RGB and tunable white mix enabled)
- RGBW (RGB and white separate control, no mix)
- RGB+W (RGB and white mix enabled)
- RGB
- 2xTW (2 tunable white lights separate control)
- 4ch DIM (4 channel single color lights separate control)

The factory default profile of this device is RGBTW, you can switch to other control modes through the operation of "Change profile". In the Luminaires tab, double-click the device, choose "Change profile" from the pop-up menu, and select the profile.

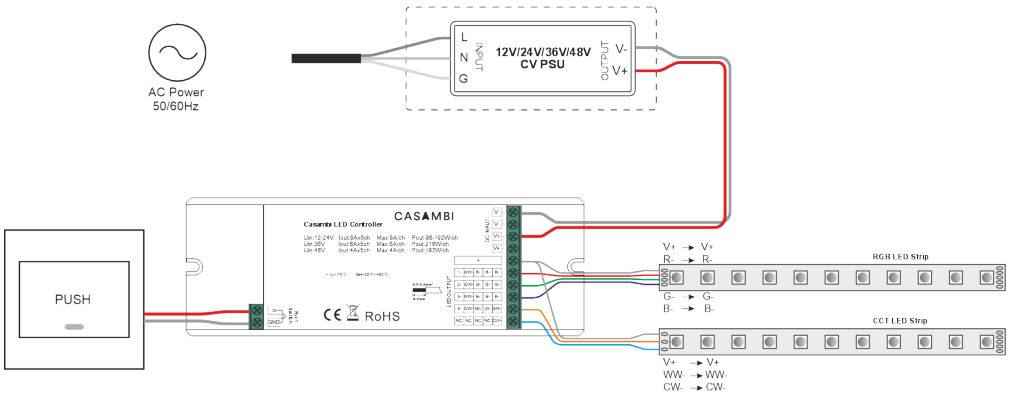
PRODUCT DATA

Input Voltage	Output Current	Output Power	Connector Current Rating	Size (LxWxH)	Dimming Input	Ambient Temperature
12-48VDC	Max. 8A/CH @ 12V/24V Max. 6A/CH @ 36V Max. 4A/CH @ 48V	Max 96W/CH @ 12V Max 192W/CH @ 24V Max 216W/CH @ 36V Max 192W/CH @ 48V	Max. 20A	170x59x29mm	CASAMBI APP	-20°C +50°C

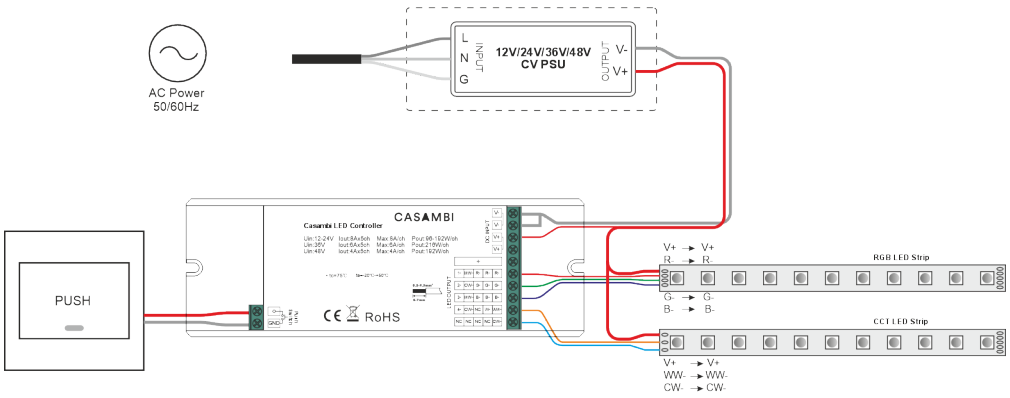
CONNECTIONS

RGBTW & RGB+TW Mode

1) When total load of each receiver is not over 20A

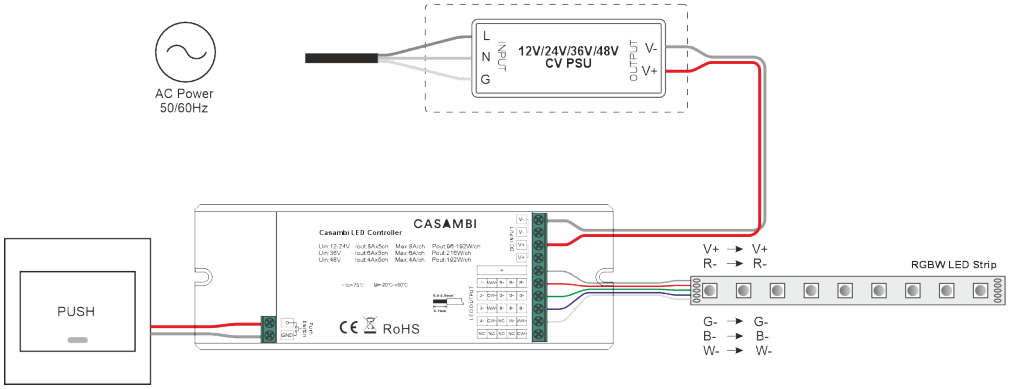


2) When total load of each receiver is over 20A



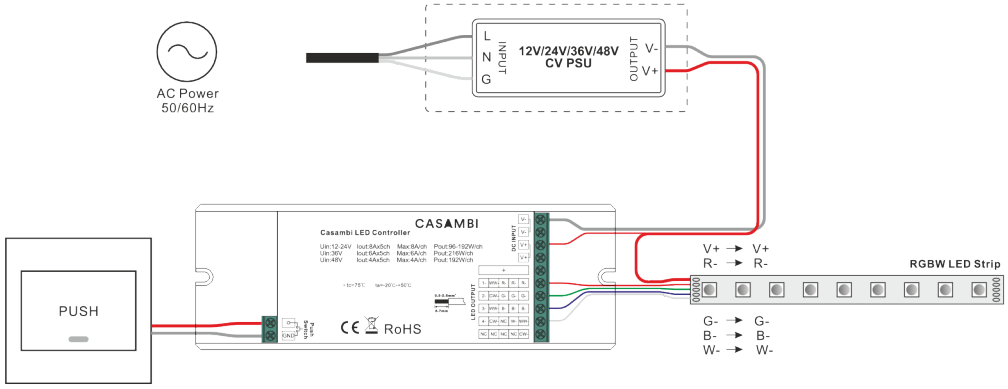
RGBW & RGB+W Mode

1) When total load of each receiver is not over 20A



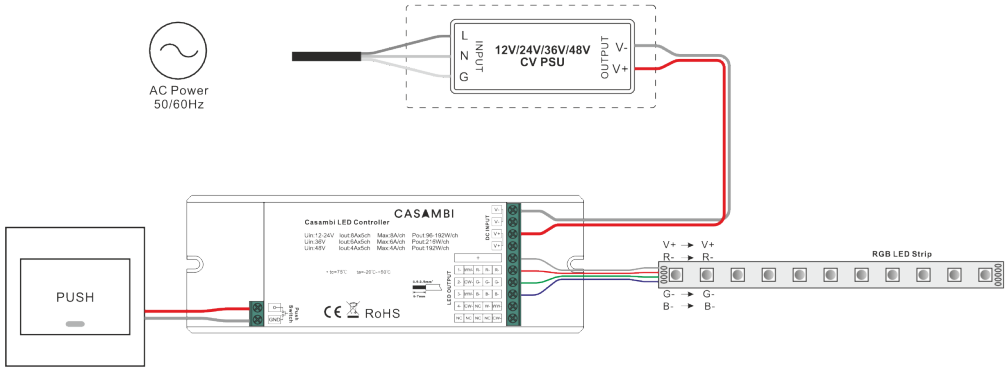
CONNECTIONS

2) When total load of each receiver is over 20A

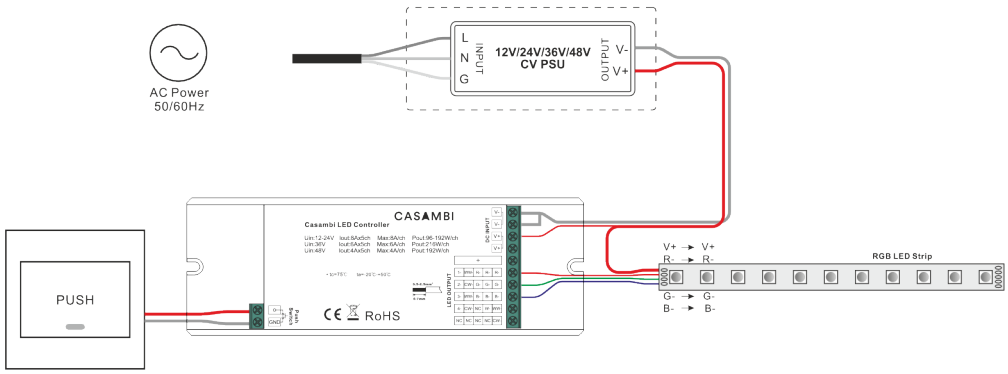


RGB Mode

1) When total load of each receiver is not over 20A

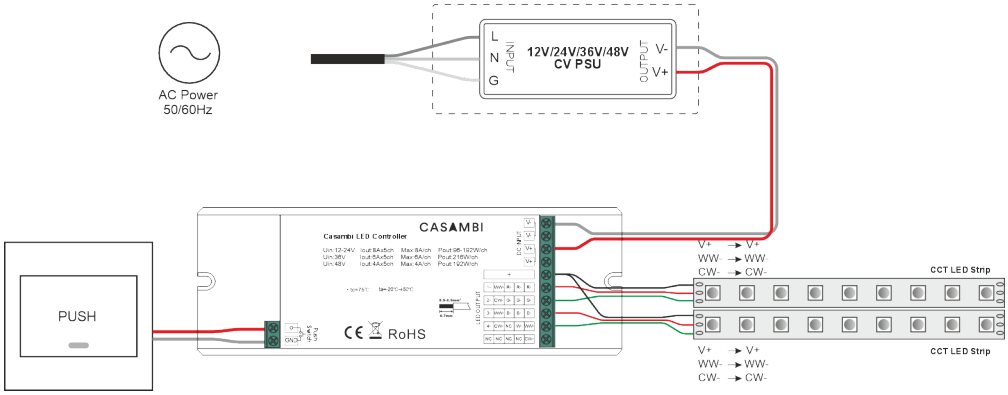


2) When total load of each receiver is over 20A

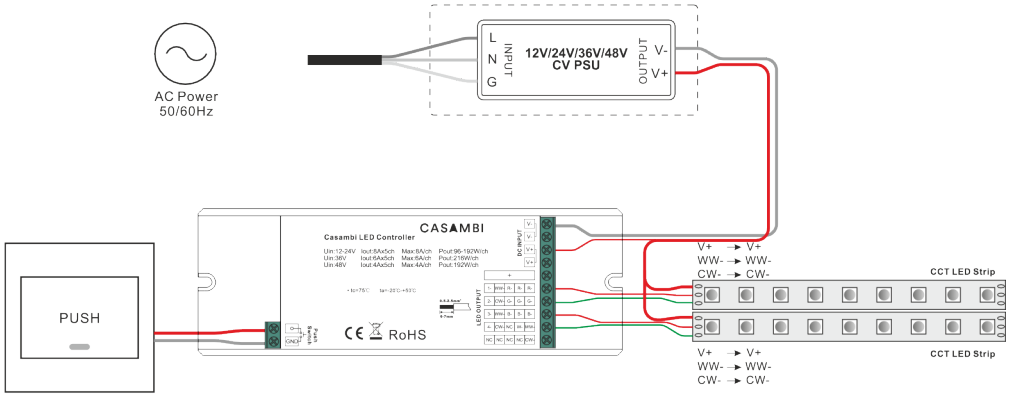


2xTW Mode

1) When total load of each receiver is not over 20A

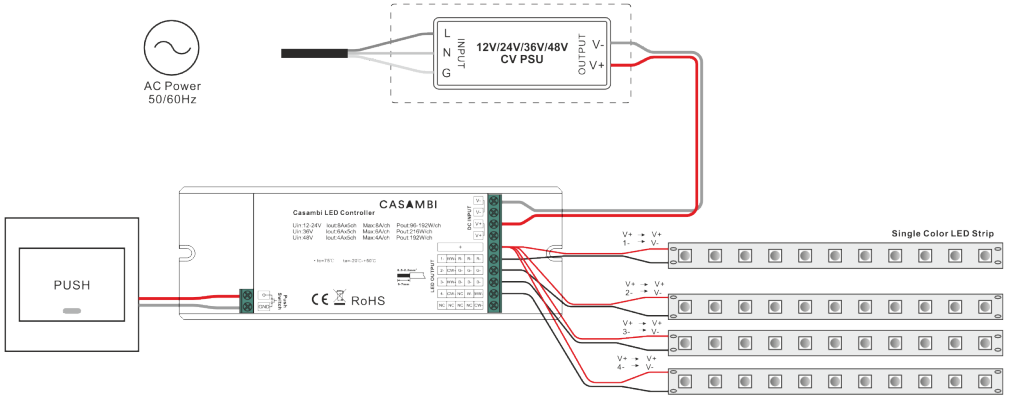


2) When total load of each receiver is over 20A

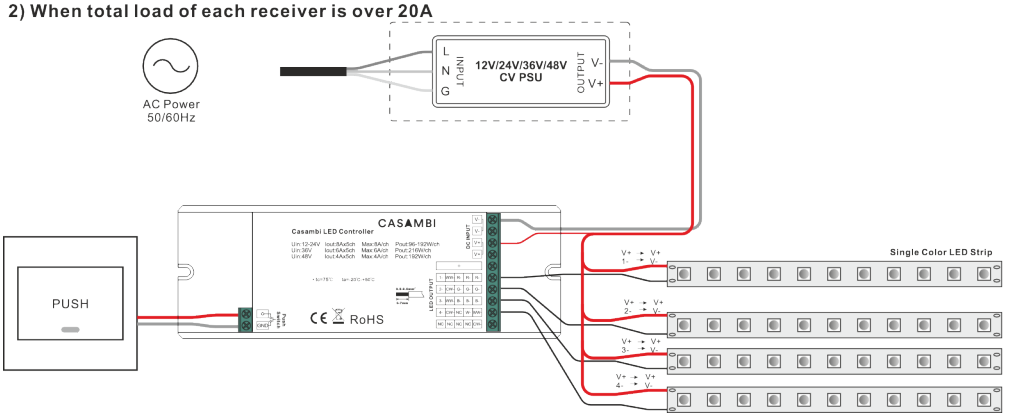


4ch DIM Mode

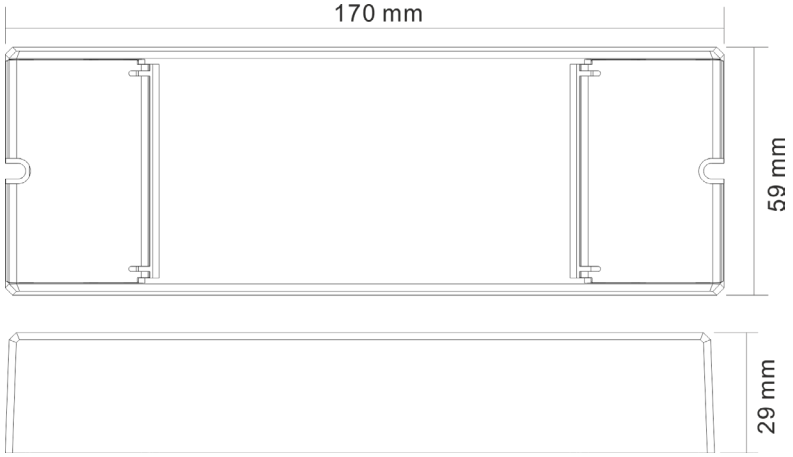
1) When total load of each receiver is not over 20A

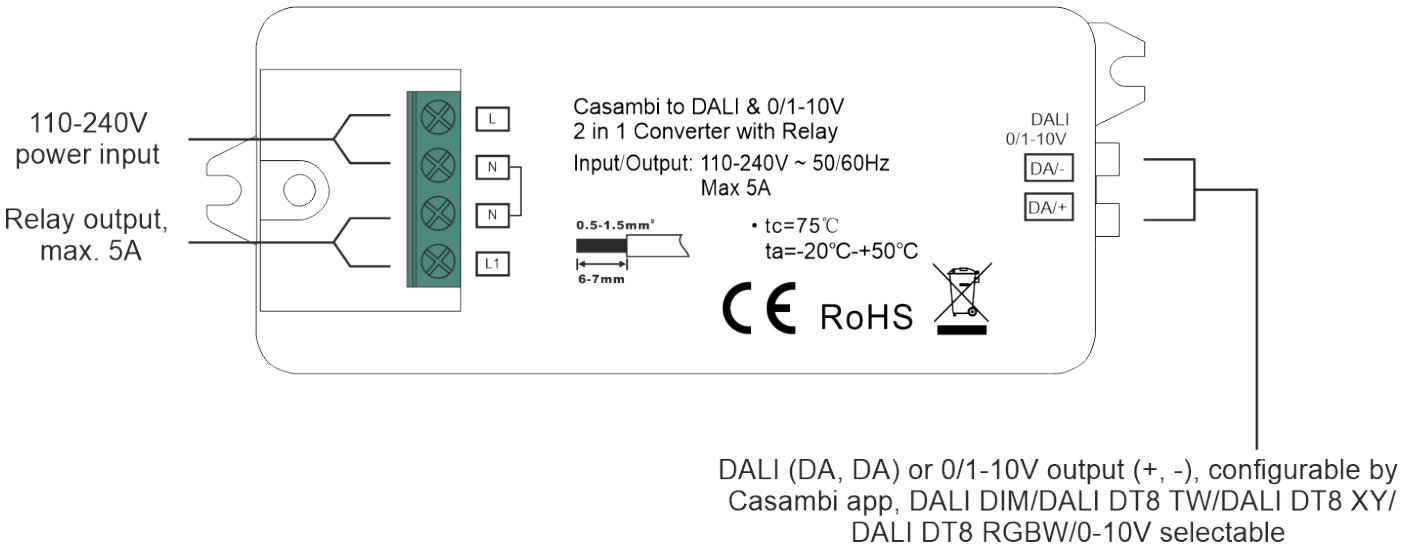


2) When total load of each receiver is over 20A



DIMENSIONS





LC-CAS-DALI
Standalone Casambi to DALI & 0/1-10V Controller

- *Casambi to DALI & 0/1-10V controller, works with Casambi network*
- *• Casambi signal input, DALI output to DALI line or 0/1-10V signal output, 110-240VAC power input*
- *With relay output, max. 5A for traditional incandescent & HV halogen lamps, max 1.6A for LED load*
- *Can be controlled by both Casambi App and Casambi wall switches1 channel 12-48VDC output, max. 20A*
- *DALI signal or 1-10V signal output selectable by Casambi App*
- *DALI DT6, DALI DT8 TW, DALI DT8 XY, DALI DT8 RGBW, 0-10V control modes configurable by Casambi App*
- *Built-in DALI bus power supply, no extra DALI bus PS required*
- *With max. 50mA DALI bus power current output*
- *To supply control current to up to 25 DALI control gears*
- *Easy commissioning with Casambi App*

SPECIFICATIONS

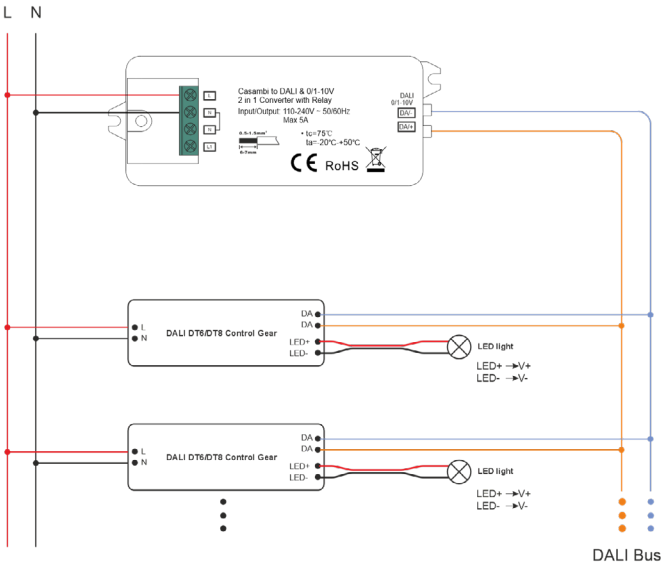
- Dimensions 91x37x20 mm
- 5 Year Warranty
- UL, CE and RoHS compliant
- 110-240 V AC
- 5 A relay output
- Operating temperature -25^0~+50^{0}C
- IP20

PRODUCT DATA

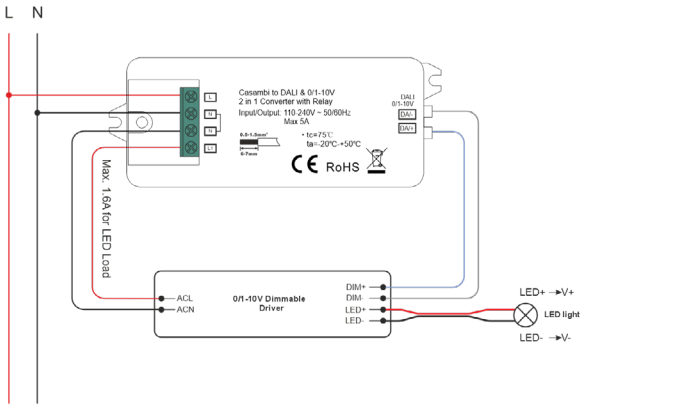
Input		Output, DALI		output 0/1-10V	Output, relay		Environment		Others
Power	Signal	Dali PS current	DALI current consumptiopn	Current	Switching Voltage	Max. Current	operating Temperature	Relative Humidity	Dimensions
110-240 VAC	Casambi 2.4GHz	Max. 50mA	Max. 4mA	Max. 20mA	110-240VAC	Incandescent: 5A LED: 1.6A	-20°C - +50°C	8% to 80%	95x37x20mm

CONNECTIONS

When DALI Output Selected (Please make sure the correct profile is selected before wiring)



When 0/1-10V Output Selected (Please make sure the correct profile is selected before wiring)

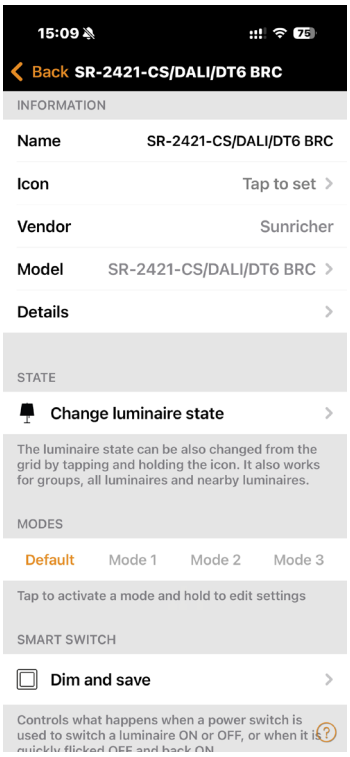


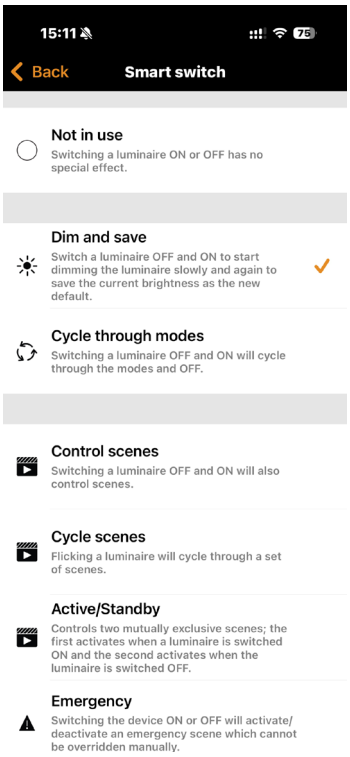
Note: Max. 50mA DALI bus PS output to supply control current to up to 25 control gears.

The control logic of the 9 profiles are as follows:

1. SR-2421-CS/1-10V: Controls 1-10V dimmable drivers or luminaires, up to 20 drivers or luminaires can be connected in parallel.
2. SR-2421-CS/DALI/DT6/4*DIM: Broadcast control of up to 25 DALI DT6 LED drivers or luminaires. Supports on/off, brightness control.
3. SR-2421-CS/DT8/DIM, TW/Single Address: Controls DALI DT8 tunable white LED drivers or luminaires with DALI address 0. Supports on/off, brightness, color temperature control.
4. SR-2421-CS/DALI/DT8, RGBW/Single Address: Controls DALI DT8 RGBW LED drivers or luminaires with DALI address 0. Supports on/off, brightness, RGBW color control.
5. SR-2421-CS/DALI/DT8, XY/Single Address: Controls DALI DT8 XY LED drivers or luminaires with DALI address 0. Supports on/off, brightness, RGB color control.
6. SR-2421-CS/DALI/DT8, RGBTW/Single Address: Controls DALI DT8 RGBTW LED drivers or luminaires with DALI address 0. Supports on/off, brightness, color temperature, RGB color control.
7. SR-2421-CS/DALI/8 Channels: Controls 8 addresses of DT6 control gears with DALI address 0-7. Supports on/off, brightness control.
8. SR-2421-CS/DALI/4 Groups: Controls 4 DALI groups of control gears with group addresses 0-3. Supports on/off, brightness control.
9. SR-2421-CS/DALI/2*(DIM, TW): Controls 2 addresses of DALI DT8 tunable white control gears with DALI address 0-10. Supports on/off, brightness, color temperature control.

Smart Switch: When a switch is connected to the device, you can set what it does in the app, such as to control a scene. In the Luminaires tab, double-click the device, scroll to SMART SWITCH, and set the function you want.

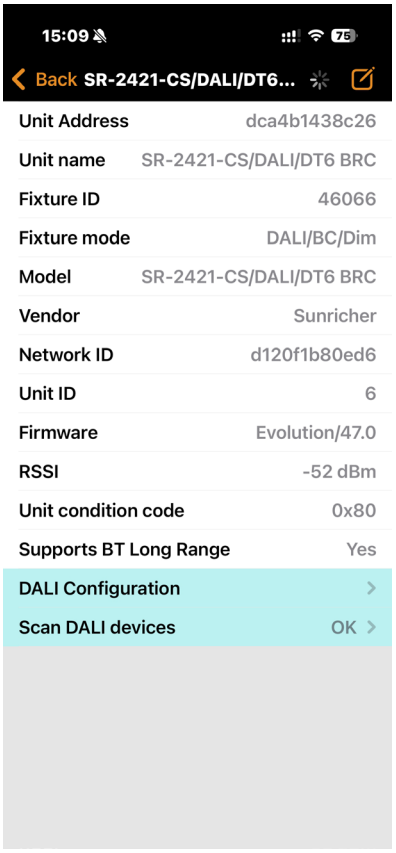


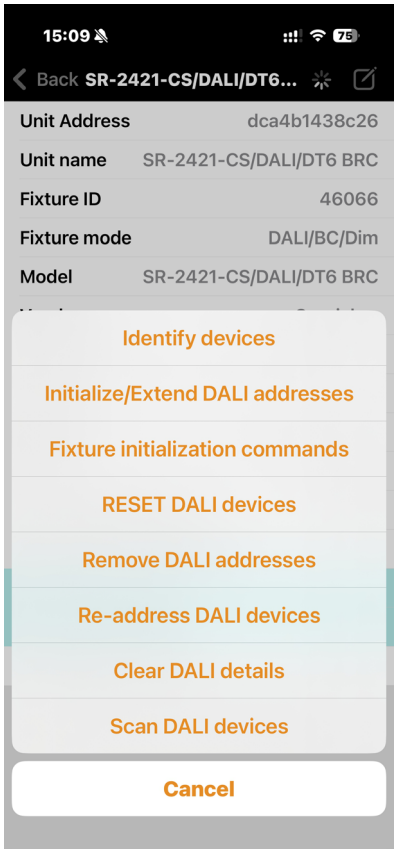


Relay Control:
The relay is controlled by the dimmer slider of the profiles, when the dimmer slider is adjusted over 0%, the relay will be switched on, when the dimmer slider is adjusted to 0%, the relay will be switched off.

Note: Under "SR-2421-CS/DALI/8 Channels, 4 Groups, 2*(TW, DIM), DT6/4*DIM" profile, the relay can not be controlled.

DALI Configuration:
When the device is in DALI mode, you can assign or reset DALI addresses in the Casambi App. In the Luminaires tab, double-click the device, tap Details, tap DALI Configuration, and choose the needed configuration from the pop-up menu, as shown in the following figures.





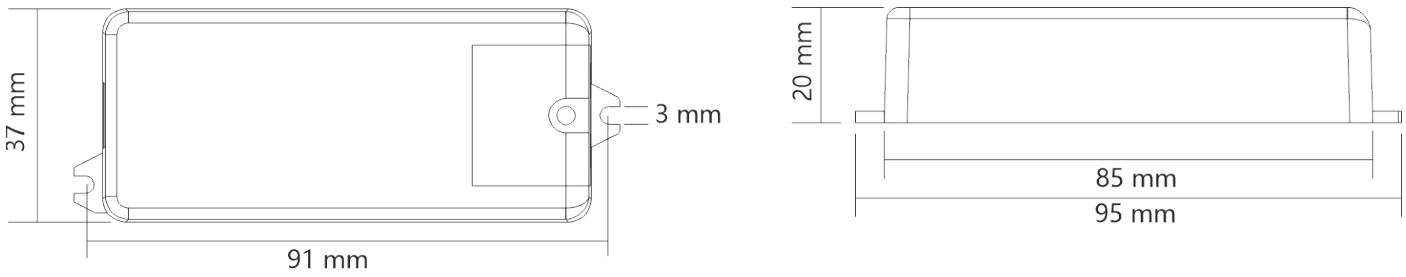
Select Profile:
Factory default profile of this device is SR-2421-CS/DALI/DT6/BRC, you can switch to other control modes through the operation of "Change profile". In the Luminaires tab, double-click the device, tap Model, choose "Change profile" from the pop-up menu, and select another profile, other available profiles as shown in the following figures.



The control logic of the 10 profiles are as follows:

Profile	Function
SR-2421-CS/1-10V	Controls up to 20 parallel 1-10V dimmable drivers/luminaires
SR-2421-CS/DALI/DT6/BRC	broadcast control up to 25 DALI DT6 LED drivers/luminaires; supports on/off and dimming control
SR-2421-CS/DT//DIM, TW/Single Address	Controls DALI DT8 tunable-white LED drivers/ luminaires with address 0; supports on/off , dimming control and CCT control
SR-2421-CS/DALI/DT8, RGBW/Single Address	Controls DALI DT8 RGBW LED drivers/ luminaires with address 0; supports on/off , dimming and RGBW color control
SR-2421-CS/DALI/DT8, XY/Single Address	Controls DALI DT8 XY LED drivers/ luminaires with address 0; supports on/off , dimming and RGB color control
SR-2421-CS/DALI/DT8, RGBTW/Single Address	Controls DALI DT8 RGBTW LED drivers/ luminaires with address 0; supports on/off , dimming, CCT and RGB color control
SR-2421-CS/DALI/8 Channels	Controls DT6 control gears with address 0-7; supports on/off and dimming control
SR-2421-CS/DALI/DT6/4*DIM	Controls DT6 control gears with address 0-3; supports on/off and dimming control
SR-2421-CS/DALI/4 Groups	Controls 4 DALI groups with group addresses 0-3; supports on/off and dimming control
SR-2421-CS/DALI/2*(DIM, TW)	Controls DT8 tunable-white control gears with addresses0-1; supports on/off dimming, and CCT Control

DIMENSIONS





LUCOLED

Experience Lighting

BELGIUM
Venusstraat 5
3290 Diest
Belgium

www.lucoled.com

✆: +32 (0) 13292829
✉: info@lucoled.com

THE NETHERLANDS
Rotterdamseweg 388F
2629 HG Delft
The Netherlands

www.lucoled.com

✆: +31 (0) 153649186
✉:info@lucoled.com

LUCOLED INDIA PVT LTD.
Gate No.725, Gadewadi
Lavasa Link Road, Urawade
Taluka Mulshi,Pune 412115
India

www.lucoled.in

✆: +91 8484056019
✉: info@lucoled.in

AFRICA REGION
51 Mountain View Street
Stellenbosch
Cape Town
South Africa

www.lucoled.com

✆: +27 (0) 825620600
✉: patrick@lucoled.com