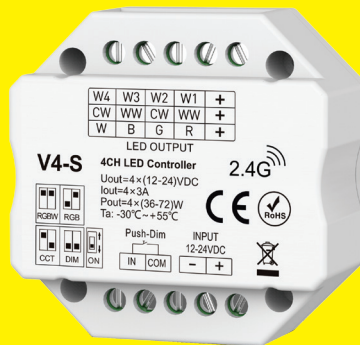


# 4 Channel Controller RGBW, RGB, Tuneable White & Dimmer



Works with a wide range  
of RF remotes

Controller  
LCRWBSD-V4-S

4 Channel

288W

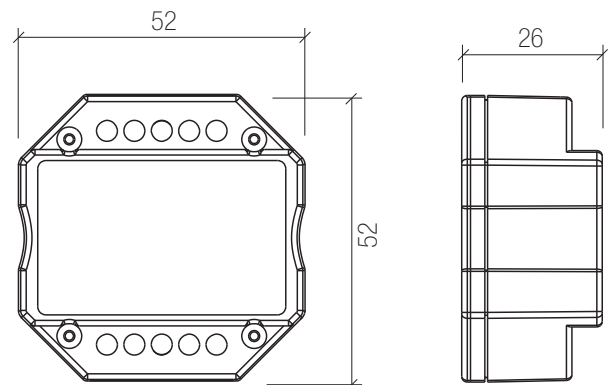
12-24V

IP20

Multi Purpose 3Amp x 4Channel

SPECIFICATION	
CODE	LCRWBSD-V4-S
WATTS OUTPUT	144W @12V or 288W @24V
AMPS OUTPUT	3Amp x 4Channels (12Amp Total)
OUTPUT MODE	Pulse Width Modulation (PWM)
INPUT	12 - 24VDC
DIMMING RANGE	0% - 100%
WORKING TEMP	-30 to 55degC
IP RATING	IP20
CONNECTIONS	Covered connector block
EMC	EMC compliant
RF RANGE	30m if unobstructed

## DIMENSIONS

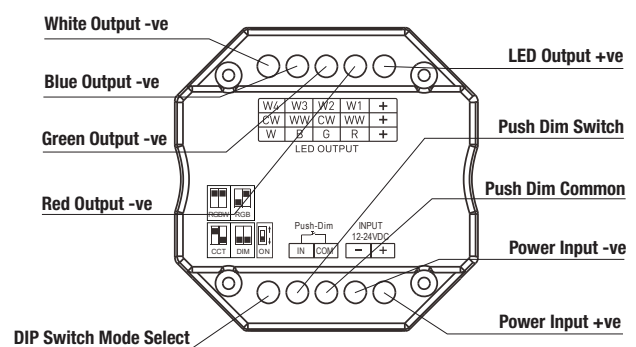


### FEATURES:

- # Control modules can wirelessly relay commands allowing for unlimited colour syncing from one remote.
- # PWM (pulse width modulation) output.
- # Push dimming & control function.
- # Modes dip switch selectable.

### APPLICATIONS:

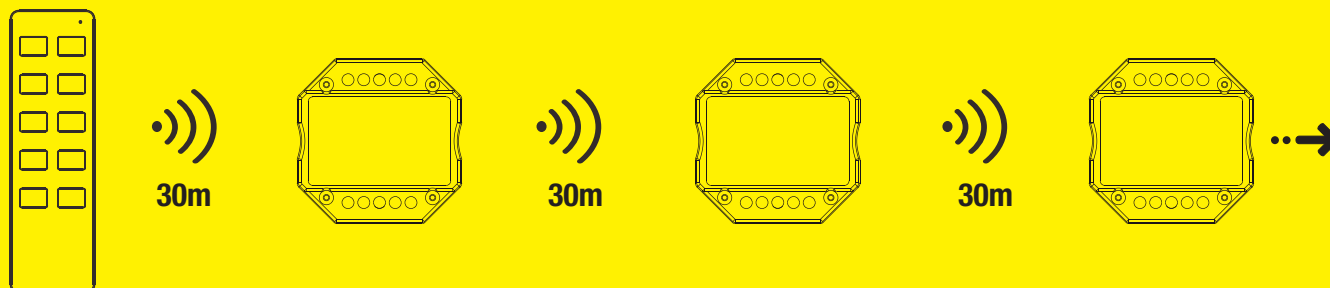
- # Controlling RGBW, RGB, Dual white & dimming single colour strips.
- # Lounges, kitchens, bedroom, bathrooms, bars, restaurants etc



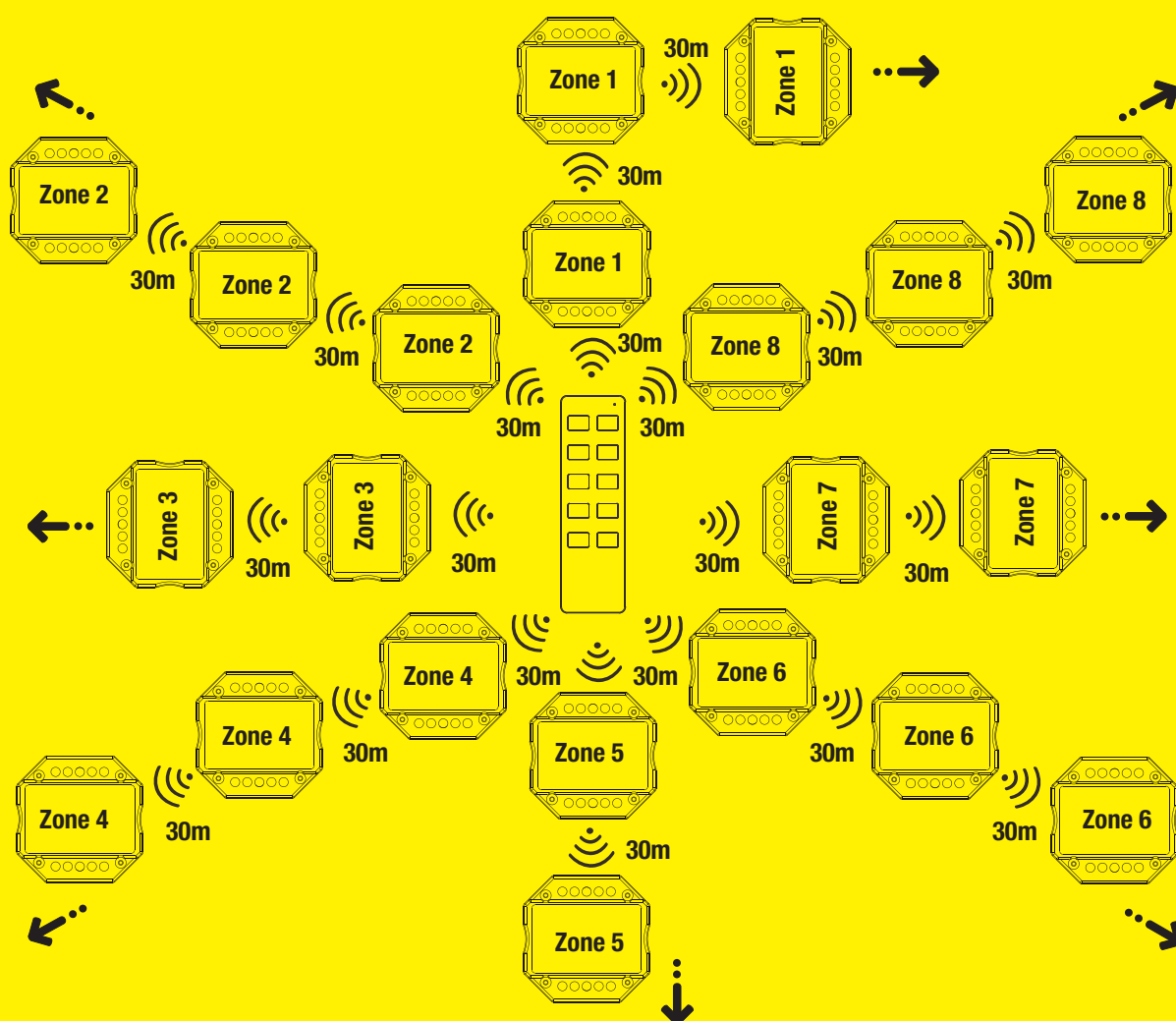
### NOTE:

- # See website for range of remote options.
- # Remote batteries (not supplied).
- # Remotes need to be synced to the controller.
- # Controllers and remotes sold separately.

## Dimming Wireless Relaying - Single Zone



## Dimming Wireless Relaying - Multiple Zones



### NOTE:

# The 30m max wireless transmission distance is with unobstructed line of sight.

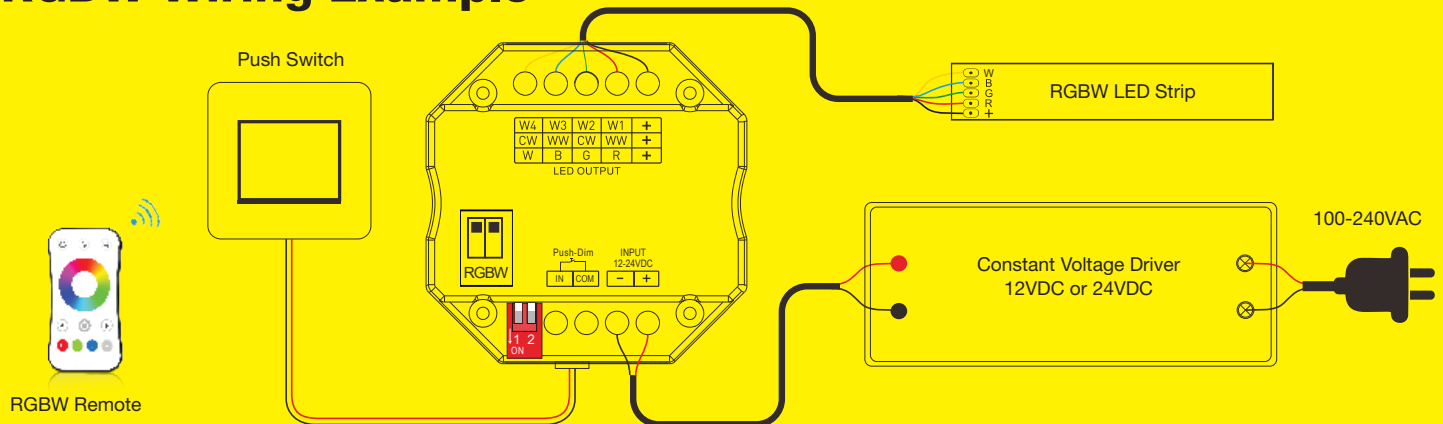
Transmission distances may be significantly less with walls, metal, concrete etc in the way.

Other transmission sources such as WiFi & microwaves etc may also reduce the transmission range.

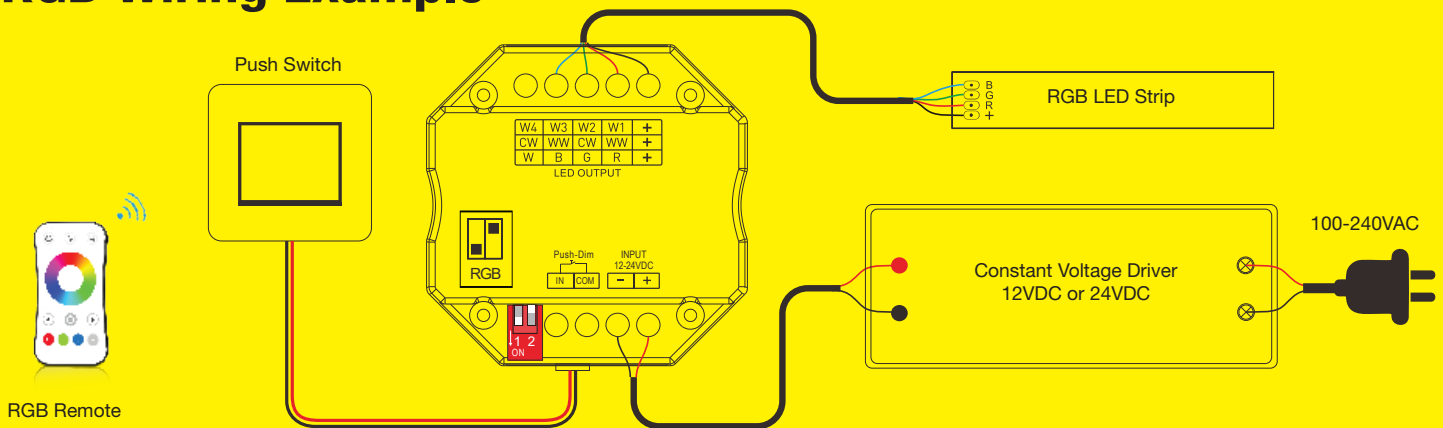
Where obstructions and interference sources exist it is recommended that testing the transmission range before finalising the project and module placement may need to be altered to achieve the desired result.

Intermedately placed modules with now load can be used as a relay where transmission distances are shortened.

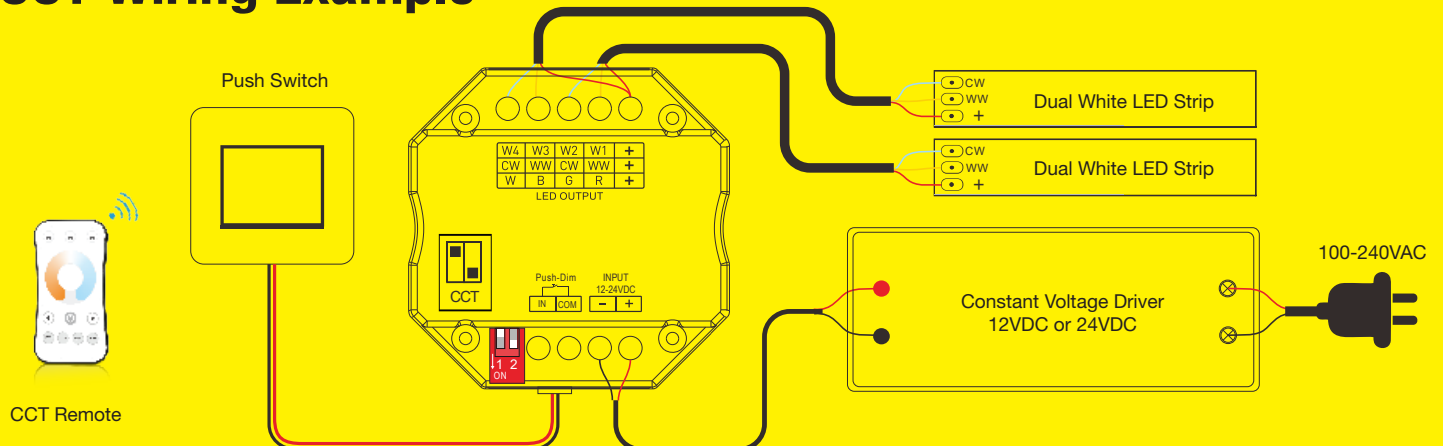
## RGBW Wiring Example



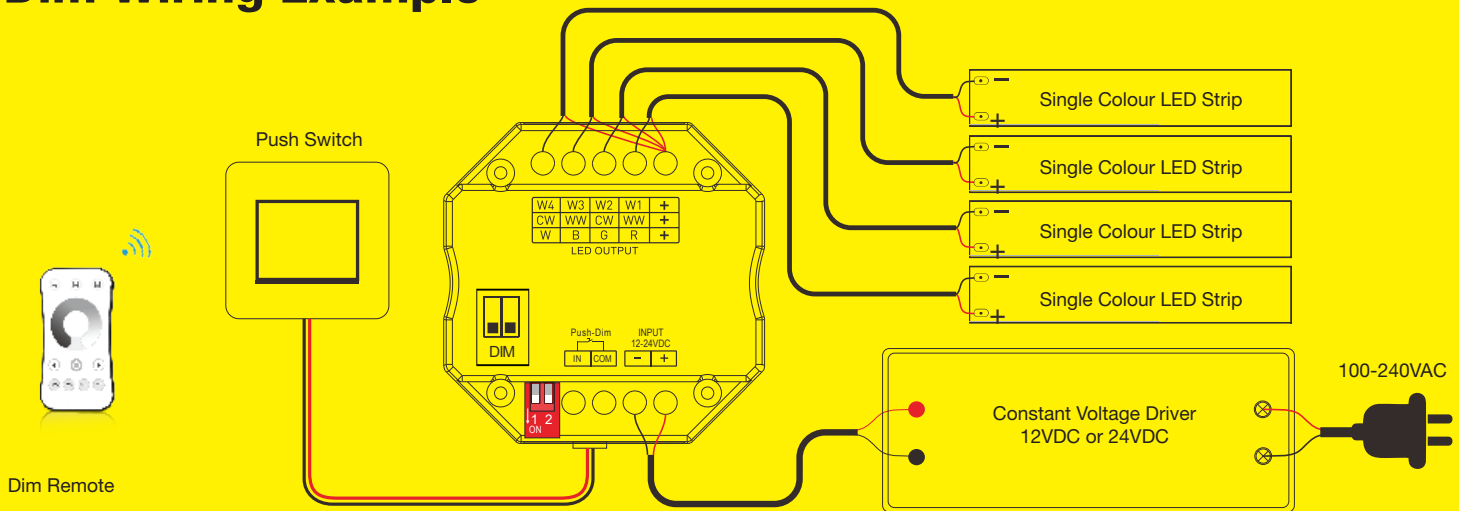
## RGB Wiring Example



## CCT Wiring Example



### Dim Wiring Example



### Push Switch Functions

Single Colour	Click	On/Off
	Double Click	Turn on at 100% or 10% & vice-versa
	Long Press (>1s from OFF)	Dimming UP/DOWN
	Long Press (>1s from On)	Dimming UP/DOWN
Dual White	Click	On/Off
	Double Click	Turn on at 100% or 10% & vice-versa
	Long Press (>1s from OFF)	Colour temperature UP/DOWN (turn off & back on to return to dimming)
	Long Press (>1s from On)	Dimming UP/DOWN
RGB	Click	On/Off
	Double Click	Change from colour mode to white mode (RGB fully mixed) & vice-versa
	Long Press (>1s from OFF)	If on colour mode this will change rotation speed If on white mode this will dim UP/DOWN
	Long Press (>1s from On)	If on colour mode this will START/STOP colour rotation If on white mode this will dim UP/DOWN
RGBW	Click	On/Off
	Double Click	Change between colour mode, white mode (white channel) & colour + white
	Long Press (>1s from OFF)	If on colour mode this will change rotation speed If on white mode or colour + white mode this will dim white UP/DOWN
	Long Press (>1s from On)	If on colour mode this will START/STOP rotation If on white mode or colour + white mode this will dim white UP/DOWN

Colour Rotation



Four rotation speeds selectable

10 flashes = 6 second rotations, 5 flashes = 30 second rotation, 2 flashes = 1 minute rotation, 1 flash = 6 minute rotation

## RGBW & RGB Dynamic Modes

No.	Name	No.	Name
1	RGB/RGBW flash	6	RGB/RGBW fade in/out
2	RGB/RGBW smooth rotation	7	Red fade in/out
3	6 Colour flash	8	Green fade in/out
4	6 Colour smooth rotation	9	Blue fade in/out
5	Yellow cyan purple smooth rotation	10	White fade in/out

## Dual White Mode & Dimming Curves

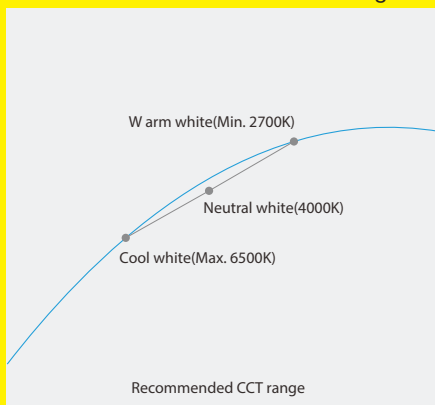
CH1, CH3 = Warm white LED

CH2, CH4 = Cool white LED

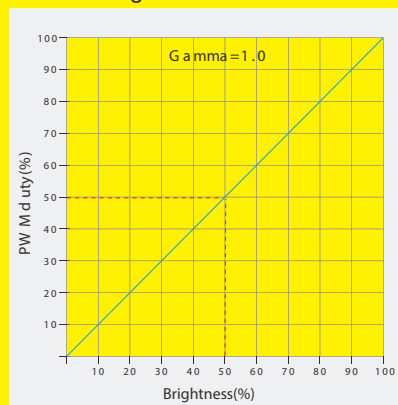
Each channel can supply up to 16W (@24V) & white balance can be controlled as below

Colour Temperature	Cool White	Neutral White	Warm White
Power Distribution	CH1=0W, CH2=72W CH3=0W, CH4=72W	CH1=36W, CH2=36W CH3=36W, CH4=36W	CH1=72W, CH2=0W CH3=72W, CH4=0W

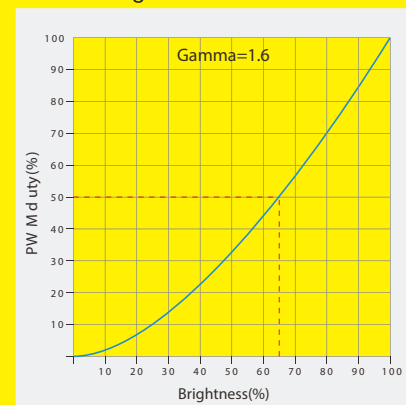
Linear Dual White Colour Tuning



Dimming Curve For Dual White



Dimming Curve For RGBW/RGB



## Matching Remotes To Controllers

### Using Controller DIP Switches

Matching:

Change DIP switch setting & immediately short press on/off key (single zone remote) or zone key (multi zone remote)

### Using Power Restart

Matching:

From power off switch power on & immediately short press on/off key (single zone remote) or zone key (multi zone remote).

The light flashes 3 times for a successful match.

Deleting:

From power off switch power on & immediately short press the on/off key (single zone remote) or zone key (multi zone remote).

The light flashes 5 times for a successful un match.

## Synchronising Remotes & RGBW Modules

### Auto Transmission & Auto Synchronisation

As shown in the diagrams on page 2, one receiving control module can auto transmit commands from the remote to many other down stream control modules.

This provides the ability for one remote to control almost limitless distances all in sync.

For auto transmission & syncing to work each receiving module needs to be successfully must be matched to the remote (1 zone remote) and to each zone key (multi zone remotes).

### **NOTE:**

# The 30m max wireless transmission distance is with unobstructed line of sight.

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Other transmission sources such as WiFi & microwaves etc may also reduce the transmission range.

Where obstructions and interference sources exist it is recommended that testing the transmission range before finalising the project and module placement may need to be altered to achieve the desired result.

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