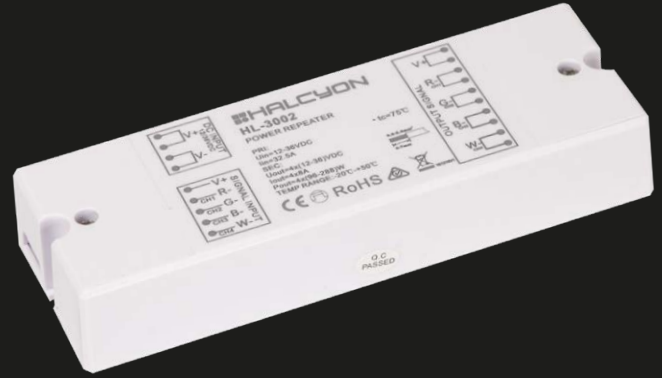


# HL3002

## Single, Dual, RGB or RGBW Repeater / Amplifier 768W (Max 192W Per CH)



For extending Single, Dual, RGB & RGBW Circuits

SUPPLY VOLTAGE	12 or 24V
MAX OUTPUT CURRENT	8A/CH x 4CH
MAX OUTPUT POWER AT 24V	4 x 192W
AMBIENT TEMP	-20.. +50°C
DIMENSIONS	L170 x W59 x H29mm

### ORDER CODE

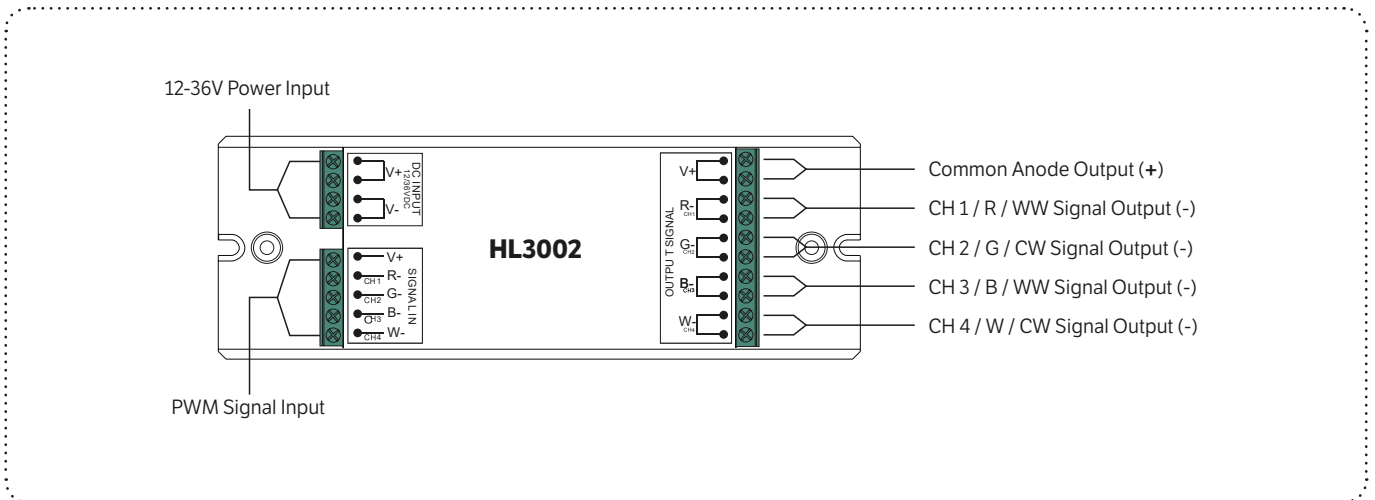
DESCRIPTION	CODE
LED Repeater / Amplifier	HL3002



### COMPATIBLE WITH

DESCRIPTION
HL1009 Series RF Receivers, Halcyon 12V or 24V LED Lighting, Halcyon 12V or 24V Constant Voltage Control Gear

### PRODUCT DIAGRAM



### PRODUCT NOTES

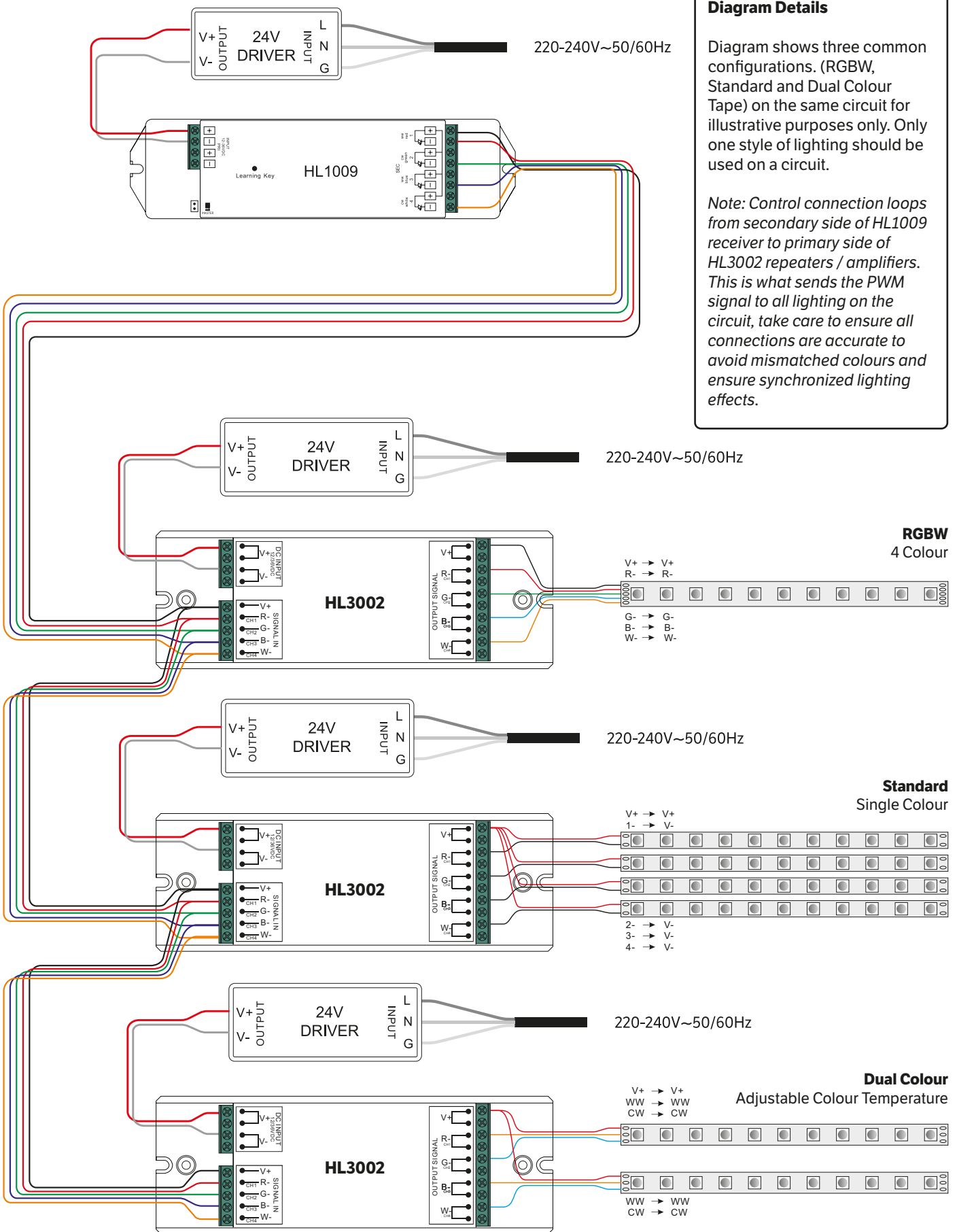
#### HL3002 REPEATER / AMPLIFIER FUNCTION

- HL3002 Repeater / Amplifier receives a PWM signal on primary side via the HL1009 RF receiver. (see diagrams next page)
- Repeater / Amplifiers are powered by an independent power source to the HL1009 receiver (see diagrams next page)
- When used in conjunction with Repeaters / Receivers; HL1009 only needs a low wattage driver to power the receiver to send PWM signal to primary side of Repeaters / Receivers. Recommended driver wattage 40W. (see diagrams next page)

#### IMPORTANT: HL3002 REPEATER / AMPLIFIER CONFIGURATION

Please note the HL3002 Repeater / Amplifier is to be **wired differently** to the HL1009 RF Receiver. HL3002 Repeater / Amplifier has **ONE** common anode output channel (V+) See wiring diagrams on the next page for common configuration examples. If unsure of the difference, compare wiring configuration for single colour LED tape on the HL3002 Repeater / Amplifier vs the wiring configuration of single colour LED tape when wired directly into HL1009 receiver (see HL1009 specification sheet page 2)

**WIRING EXAMPLE**



**Diagram Details**

Diagram shows three common configurations. (RGBW, Standard and Dual Colour Tape) on the same circuit for illustrative purposes only. Only one style of lighting should be used on a circuit.

*Note: Control connection loops from secondary side of HL1009 receiver to primary side of HL3002 repeaters / amplifiers. This is what sends the PWM signal to all lighting on the circuit, take care to ensure all connections are accurate to avoid mismatched colours and ensure synchronized lighting effects.*

**RGBW**  
4 Colour

**Standard**  
Single Colour

**Dual Colour**  
Adjustable Colour Temperature