Quick Start Guide

Version 1.0
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PIXIE MASTER

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PIXIE Smart RGBTW LED Strip Controller

LT8915RTW/BTAM

1. Foreword

IMPORTANT: IN THE INTEREST OF PRODUCT PERFORMANCE AND SAFETY PLEASE READ THESE GUIDE AND WARRANTY INSTRUCTIONS BEFORE INSTALLING THE PRODUCT.

SAL products are designed in accordance with all mandatory International and Australian Standards, which require installation in accordance with AS/NZS3000 by a qualified installer and regular cleaning and maintenance of the equipment. Products are sold in accordance with the following instructions and SAL standard terms and conditions of sale, available via www.sal.net.au.

Due to continued product and information updates, product data sourced from sal.net.au shall not form part of any contract and or technical performance guarantee unless expressly confirmed in writing by SAL at the time of order. The product wireframe drawings in this document are intended for illustration purposes only and may differ from the final physical product. The installation instruction is subject to change without prior notice.

2. Product Introduction

The PIXIE Smart RGBTW LED Strip Controller is a universal controller designed to control various LED strips, including single color LED strips, tunable white LED strips (namely CCT tunable strips), RGB LED strips, RGBW LED strips (namely RGB + White strips), and RGBTW LED strips (namely RGB + CCT tunable strips).

2.1 Product Features

- Works with 12-24V LED strips
- Simple DIP switch to match the strip type onsite
- ON/OFF, dimming (1%-100%), CCT tuning and colour changing functions
- Supports bell press input for mech control when the App's not needed
- In-built control buttons and LED indicator for easy testing and commissioning
- Optional memory function to restore LED strip status from power outage

2.2 The package includes

- PIXIE Smart RGBTW LED Strip Controller * 1
- Quick Start Guide * 1

*All drawings shown are for illustration purpose only, actual product may vary due to product enhancement.

2.3 Product illustration*

LED indicator
Control button 1
DIP switches
Control button 2
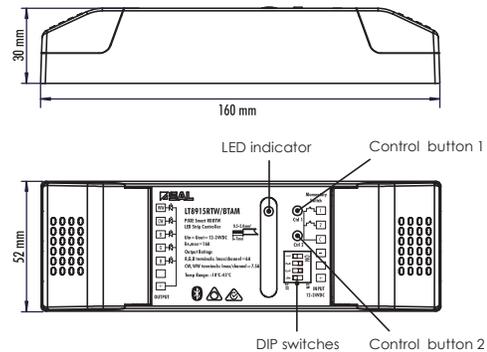
3. Specifications

Model NO.	LT8915RTW/BTAM	Power Input	12-24V DC, matching the voltage of LED strip
Max Input Current	16A	Max Output Current	R, G, B terminals: Max. 6A per channel CW, WW terminals: Max 7.5A per channel
Operation Ambience Temperature (˚C)	-10 ~ 45	IP Rating	IP20
Storage Ambience Temperature (˚C)	0 ~ 60	Operation Humidity	10% - 85% RH, NC
Storage Humidity	10% - 85% RH, NC	Dimension (mm)	160 x 52 x 30

4. Setup, Installation and Wiring

4.1 Set Working Mode

Use the DIP switch 1, 2 and 3 to set the controller to a suitable mode that matches the LED strip type. E.g, if the LED strip is **RGBW** strip, the controller must be set to **RGBW Mode**, in this mode, only R, G, B, WW terminals are active.

Caution! Working mode can **ONLY** be changed when the controller is **BRANDNEW** or **FACTORY RESET** (the LED indicator is in white colour). If the LED indicator is in blue colour, please 9-click any control button to reset the controller before changing the working mode.

Working Mode	Active Terminals	DIP Switch		
		1	2	3
RGBTW Mode	R, G, B, WW, CW	on	on	on
RGBW Mode	R, G, B, WW	on	on	off
RGB Mode	R, G, B	on	off	off
Tunable White Mode	WW, CW	off	on	on
Single Colour Mode	WW, CW	off	on	off

Table 1. DIP Switch 1, 2, 3 functions

4.2 Set Memory Function

Use the DIP switch 4 to set **Memory** function preference. When it's enabled, the controller saves the last state of the LED strip (on/off, brightness, colour etc.) when a power disconnection happens, and resumes it upon power reconnection. When it's disabled, the controller doesn't save the state of LED strip, when the power is resupplied to the controller after a disconnection, the LED strip will always be lit at full brightness by default.

Function	DIP Switch 4
Enable Memory	on
Disable Memory	off

Table 2. DIP Switch 4 functions

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4.3 Installation (Licensed electrician only)

1. Make sure the loads are compatible and within the rating.

2. Make sure the selected power supply (constant voltage) is compatible with the controller, and matches the LED strip.

3. Disconnect mains power supply.

4. Connect cables among the controller, power supply, and LED strips as per the wiring diagram.

5. **Optional**: Connect momentary switches (namely bell press) to the designated terminals on the controller as per the wiring diagram, if on-wall mech control is required.

6. Reconnect mains power supply.

7. Check the LED indicator, when it is lit in low brightness white, this controller is ready for setup. Press the control buttons to test the functions.

8. Add this controller into PIXIE or PIXIE PLUS App, and enjoy the smart.

LED indicator

The LED indicator is in solid white colour when the device is new or factory reset, and is in solid blue when the device is added into the App.

The LED indicator is high brightness when the lights (loads) are ON, and is low brightness when the lights are OFF.

4.4 Wiring Diagram**

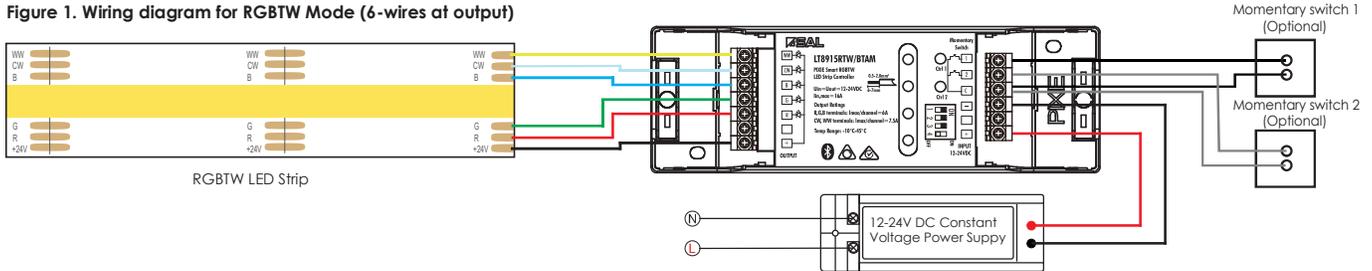**Figure 1. Wiring diagram for RGBTW Mode (6-wires at output)**

RGBTW LED Strip

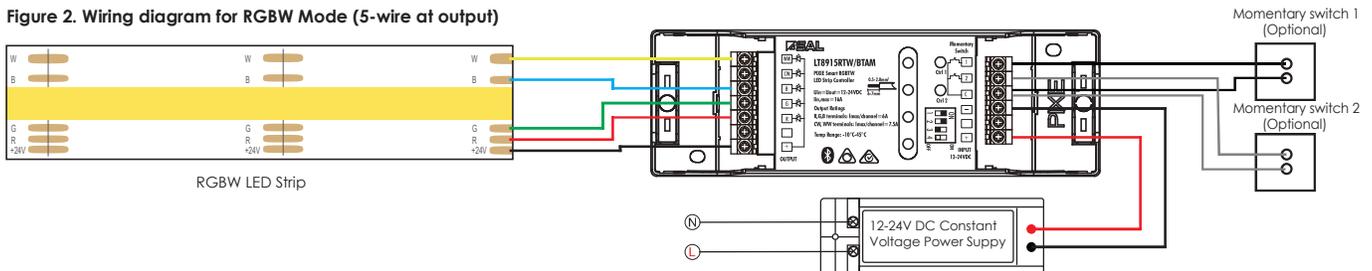**Figure 2. Wiring diagram for RGBW Mode (5-wire at output)**

RGBW LED Strip

Figure 3. Wiring diagram for RGB Mode (4-wire at output)

RGB LED Strip
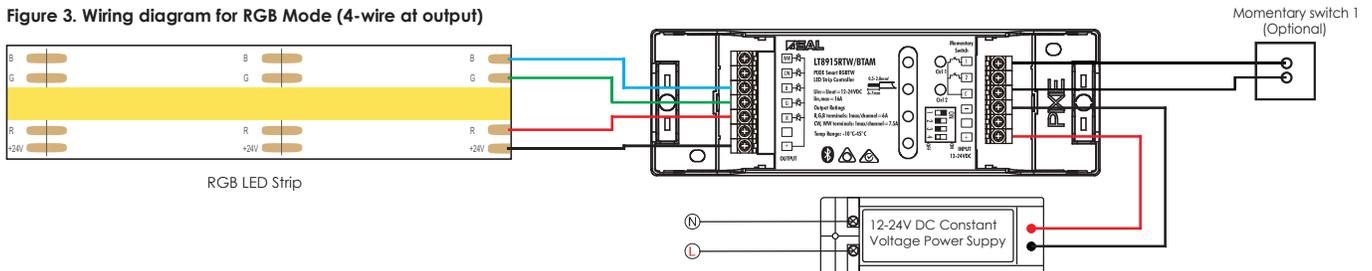
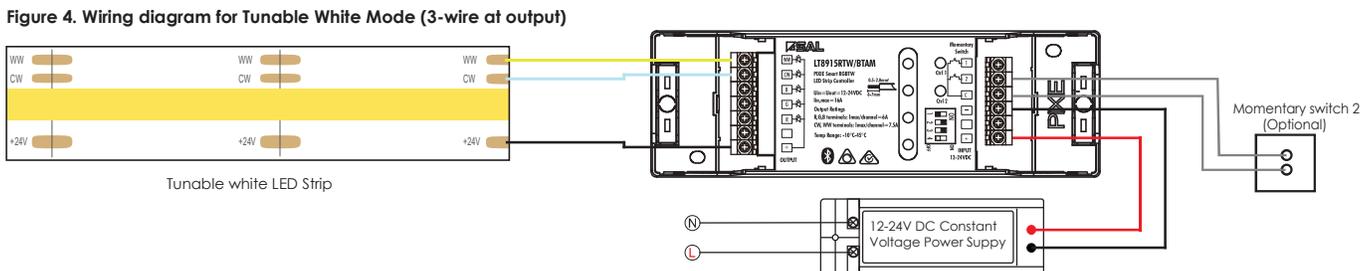**Figure 4. Wiring diagram for Tunable White Mode (3-wire at output)**

Tunable white LED Strip

Figure 5. Wiring diagram for Single Colour Mode (2-wire at output)

Single colour LED Strip
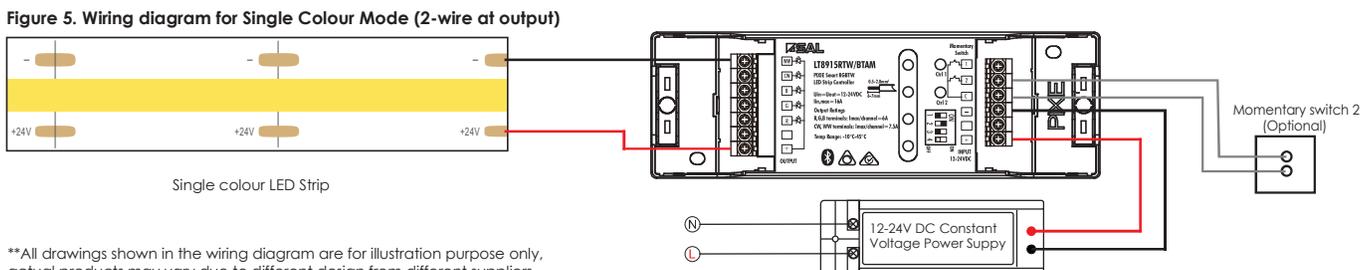
**All drawings shown in the wiring diagram are for illustration purpose only, actual products may vary due to different design from different suppliers.

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5. Operation

5.1 Control Button 1 (Ctrl 1) and momentary switch 1

Control button 1 is for controlling RGB lights (lights that are energized from the terminal R, G, and B). The optional momentary switch 1 mimics the functionality of control button 1. The button operation is valid in RGBTW mode, RGBW mode, and RGB mode ONLY.

Single click: Turn ON/OFF the RGB lights

Double clicks: Turn the RGB lights to maximum brightness.

Tripple clicks: Switch to the next colour, cycling through Red -> Green -> Blue.

Long press: Increase/decrease the light brightness, release the button to stop.

4 clicks: The device enters pairing mode, the LED indicator quickly flashes in blue and white for 30 seconds. This is for pairing this device to a PIXIE secondary device. The LED indicator will stop flashing when a pairing process is finalised or in 30 seconds, whichever occurs earlier.

9 clicks: Reset the PIXIE Smart RGBTW LED Strip Controller to factory default. The LED indicator will flash in blue and white for 3 seconds then stay at white if the reset is successful.

5.2 Control Button 2 (Ctrl 2) and momentary switch 2

Control button 2 is for controlling white lights (lights that are energized from the terminal WW and CW). The optional momentary switch 2 mimics the functionality of control button 2. The button operation is invalid in RGB mode.

Single click: Turn ON/OFF the white lights.

Double clicks: Turn the white lights to maximum brightness.

Tripple clicks: Switch to the next colour temperature, cycling through Warm white -> Cool White -> Daylight. This function is valid in RGBTW mode and Tunable white mode ONLY.

Long press: Increase/decrease the light brightness, release the button to stop.

4 clicks: The device enters pairing mode, the LED indicator quickly flashes in blue and white for 30 seconds. This is for pairing this device to a PIXIE secondary device. The LED indicator will stop flashing when a pairing process is finalised or in 30 seconds, whichever occurs earlier.

9 clicks: Reset the PIXIE Smart RGBTW LED Strip Controller to factory default. The LED indicator will flash in blue and white for 3 seconds then stay at white if the reset is successful.

6. How to download App

Scan QR code or go to App store (IOS) or Google Play (Android) to download the free PIXIE or PIXIE PLUS app to your smart phone.
IOS: Requires IOS 6.0 or later. Compatible with iPhone, iPad and iPod touch.
Android: Requires Android 4.4 or above, devices must support Bluetooth 4.0 or above.
Specifications above are for reference only and may vary without prior notice.

7. Warranty

In accordance with SAL's standard terms and conditions of sale, SAL warrant this product to be free from defects in materials and or workmanship for a period as stated below for goods not subject to incorrect installation, maintenance, operation, mishandling, environmental, unauthorised modifications or electrical operating conditions outside the nominated product specification as detailed in these installation instructions.

The benefits to you given by this warranty are in addition to other rights and remedies you have under law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty term – Residential usage (12) months, Commercial usage (12) months

7.1 How to make a claim?

Step #1 – Within 30 days of the fault discovery, please contact the original place of the SAL product purchase during standard (local) business hours, with the following information (a) proof of purchase (b) description and quantity of the claimed fault (c) address of installation. (d) operating hours of the product.

Step #2 – It is then the responsibility of the original place of product purchase to report the matter to SAL aftersales;

NSW	ACT	SAL National Pty Ltd, 40 Biloela Street Villawood NSW 2163	P # 02 9723 3099
QLD	SAL National Pty Ltd, 36 Whitelaw Place Richlands QLD 4077	P # 07 3879 5999
VICT	TAS	SA	NT	SAL National Pty Ltd, 46-48 Keys Road Moorabbin Victoria 3189	P # 03 9532 3168
WA	SAL National Pty Ltd, 29 Beringarra Av Malaga WA 6090	P # 08 9248 7458

Step #3 - Upon review of your claim and if the product is required to be returned to SAL for technical evaluation, then at the owners expense the product must be returned to SAL as per the above nominated locations.

Step #4 - Pending the evaluation, the claim will be validated resulting in the product being repaired or replaced with the same or best equivalent product at the discretion of SAL, or rejected if the product fault was found to be caused by conditions beyond the responsibility of SAL warranty obligations. Consideration of installation, product removal, return freight and or testing fees are not the responsibility of SAL.

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