



AMBIENTECH SA-WSx-C Wall Switch Sensor Instruction Manual

[Home](#) » [AMBIENTECH](#) » AMBIENTECH SA-WSx-C Wall Switch Sensor Instruction Manual 

Contents

- 1 AMBIENTECH SA-WSx-C Wall Switch Sensor
- 2 Product Information
- 3 Product Usage Instructions
- 4 Wall Switch Installation
- 5 Wiring Description (Using wire connectors)
- 6 Pairing with LED Fixture
- 7 Pairing Button
- 8 Pairing and Resetting
- 9 Function Button
- 10 Troubleshooting
- 11 Customer Assistance
- 12 FCC/IC Information
- 13 Documents / Resources
 - 13.1 References



AMBIENTECH SA-WSx-C Wall Switch Sensor



Product Information

The Cyan Dimmer RGB Wall Switch is a device used to control LED fixtures. It is designed to work with an input voltage of 120VAC and can handle a maximum load of 700W. The product comes with an installation manual (P/N:CyanDim-WSx-SA) that provides instructions on how to install and pair the switch with LED fixtures. The switch has a pairing button and a function button that allows users to change the dimmer functionality according to the table provided in the manual. The switch also has an ON/OFF switch, a mode switch, and an indicator LED that shows the status of the switch during normal operation. The product can be paired with the SmartAir App via a QR code that can be scanned from the manual.

Product Usage Instructions

1. Before starting the installation process, turn off the power at the circuit breaker and test to ensure the power is off.
2. Prepare the wires from the wall box by cutting them if needed and stripping the wire insulator for each wire inside the wall box.
3. If installing more than one Wall Switch unit, make sure all others are switched off while pairing.
4. Set both sliders to the top and switch off the Wall Switch.
5. Switch on the power at the circuit breaker.
6. Push a short press on the A Button on the Cyan Driver. The green LED will turn on constantly.
7. Select the right function from the function button table.
8. Turn on the Wall Switch. The green LED indicator will blink while pairing.
9. After up to 15 seconds, your LED fixture will be paired with the Wall Switch.
10. Select your ambient mode on the mode switch.
11. To verify a successful pairing, adjust the sliders and observe if the LEDs respond to the slider movements in synchronization.
12. Scan the QR code to download the app. Follow the instructions to connect to the SmartAir App.
13. If pairing is not successful, make a long press on the B Button of the Cyan Driver until the Red LED Indicator blinks. Then repeat the process again.

14. Mount the Wall Switch into the wall box using the appropriate screws.
15. Turn on the power at the circuit breaker and verify 120V with a Voltmeter.

Wall Switch Installation

Wall Box

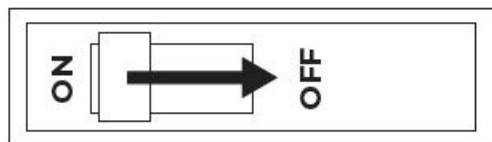
1. A standard single-gang wall box sized 3 x 2 x 2 ½ cm will service Dimmer.
2. Not compatible with multi or double Mud Rings.
3. When using a retrofit gang box (cut in box) you might need to recess the ears.

Maximum Load

- **Input Voltage** Max Load
- **120VAC** 700W

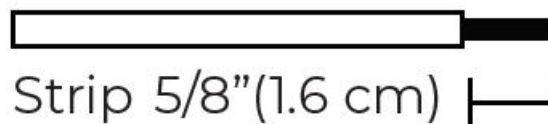
Before You Begin

To avoid fire, shock, or death, turn the power Off at circuit breaker and test to ensure the power is Off before wiring.



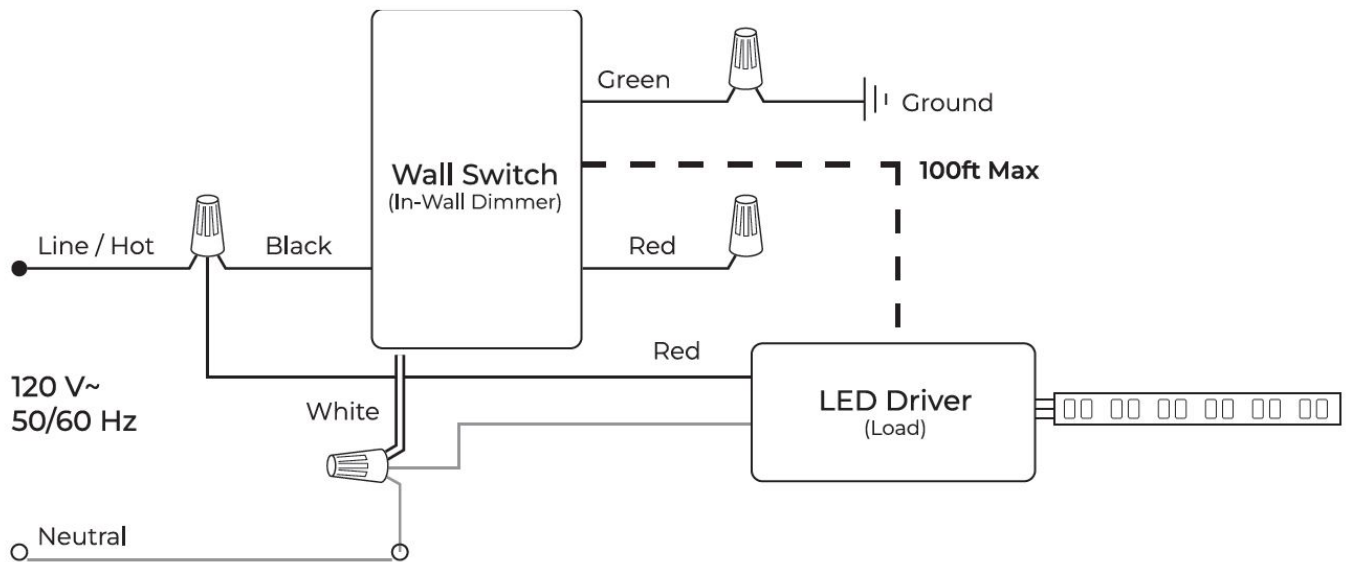
Step 1: Prepare Wall Box Wires

1. Make sure that the ends of the wires from the wall box are straight (cut if needed). insulation from2 e. aSctrhip three. wire insulator for each wire inside the wall box as shown here:



Step 2: Wire Wall Switch

Connect wires according to the wiring diagram below.



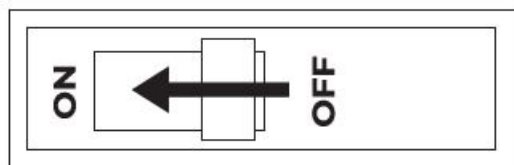
Wiring Description (Using wire connectors)

1. Connect the green (or bare copper) wire from the wall box to the green Wall Switch wire.
2. Connect the line/hot wire to the Black Wall Switch wire.
3. Connect the line/hot wire to the Red LED Driver wire.
4. Connect the Neutral wire to the White wall Switch wire and to the Blue LED Driver wire.

Step 3: Mount the Wall Switch

Mount the Wall Switch into the wall box using the appropriate screws.

Step 4: Restore Power



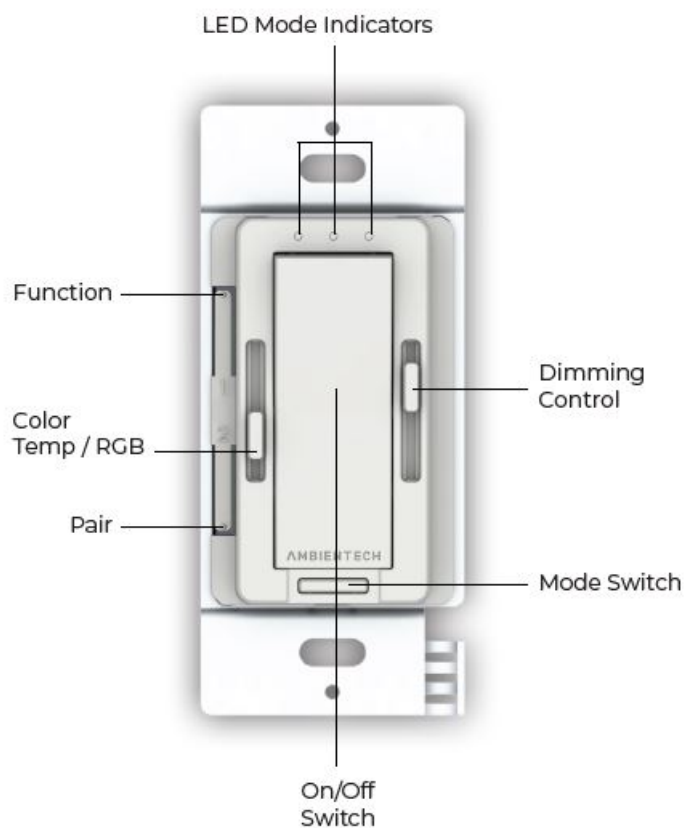
1. Turn the power On at the circuit breaker.
2. Verify 120V with a Voltmeter

Pairing with LED Fixture

If you are installing more than one Wall Switch unit, all others must be switched Off while pairing.

1. Make sure both sliders are set to the top and the Wall Switch is switched Off.
2. Switch the power On at the circuit breaker.
3. Push a short press on the A Button on the Cyan Driver. Green LED will turn on constantly.
4. Select the right function from the function button table.
5. Turn On the Wall Switch, the green LED Indicator will blink while pairing.
6. After up to 15 seconds, your LED fixture will be paired with the Wall Switch.
7. Select your ambient mode on the mode switch.

8. To verify a successful pairing, adjust the sliders and observe if the LEDs respond to the slider movements in synchronization.
9. Scan the QR code to download the app. Follow the instructions to connect to the SmartAir App.



- If pairing is not successful make a long press on the “B” Button of the Cyan Driver until the Red LED Indicator blinks. Then Repet the all process again.

Connect to the SmartAir App



- Scan the QR code to download the App. Follow the instructions to connect to the SmartAir App

Pairing Button

Press the Function button, each press will change dimmer functionality according the following table, after last entry restart from first entry:

Function	Action	On/Off Switch Position	Indicator
Pair to Driver(s)	Press "Pair" SW	"ON"	Green On Until Action Completes
Define as a secondary (3 Way) Device	Press "Pair" SW	"OFF"	Red and Green Blinking until pairing or after 5 min timeout
Reset Wifi Info	Long press "Pair" SW until Red indicator lights	"OFF"	Red On for 3 seconds

Pairing and Resetting

Dimmer Mode Functionality

Dimmer Mode Functionality depends on the dimmer function and acts as following:

- Tunable White Dimmer: The dimmer mode switch acts as a scenario selector. Each press on the mode switch change to the next scene out of 3 possible scenes. A long press on the mode switch will add new scene, or if all 3 scenes already set it will override the current scene.
- RGBW or RGBWW Dimmer: The mode switch toggles between RGB mode and Tunable White mode, no scenes are available (if it is RGBW dimmer the CCT slider is not operational in TW mode) With this type of dimmer the "color" slider set the Hue and color saturation (contrast) is maximum by default and can be only be changed by the mobile App.

Function Button

Press the Function button, each press will change the dimmer functionality according the following table, after last entry restart from first entry:

#	Dimmer Function	Indicator (On for 3 Seconds after mode change(
1	Tunable White	Red, Green and Blue
2	RGB (Hue / Saturation)	Red
3	RGBW (Pastel / RGB)	Green
4	RGBWW (Tunable White / RGB)	Blue

Indicator LED Functionality during normal operation:

Name	Indicator	Available on the following Dimmer functions
Scene 1	Red on for 3 sec	TW
Scene 2	Green on for 3 sec	TW
Scene 3	Blue on for 3 sec	TW
RGB Mode	Green On for 3 sec	RGBW, RGBWW
Tunable White Mode	Blue on for 3 sec	RGBW, RGBWW

Troubleshooting

Symptoms	Cause	Possible Solution
Wall Switch LED Indicator blinking RED	The Pairing button is pressed while the wall switch is Off	Turn ON the Wall Switch and press the Pairing button again
Wall Switch LED Indicator steady RED	The Wall Switch is trying to perform pairing	Turn On the Wall Switch until pairing is completed
Lights do not respond to Wall Switch	The Breaker is Off or tripped	Turn power On at the Circuit breaker
	Improper pairing	Perform "Pairing"
	Improper wiring	Make sure all wires are connected according to the wiring diagram
	Short circuit at the LED Driver output	Check LED Driver output for short circuits
The wall switch is controlling the wrong lights (Only if multiple Wall Switches units are installed in the same location)	The Wall Switch was paired with the wrong LED Driver	Perform "Pairing". Make sure all the other Wall Switches are turned Off while pairing
Wall Switch / LED Driver Replacement	Any reason	Perform "Pairing". Make sure all the other Wall Switches are turned Off while pairing

Customer Assistance

For technical questions regarding the installation or operation of this product, please contact our customer support team:

- 347-334-6368 ext 3
- www.ambientechinc.com



Caution

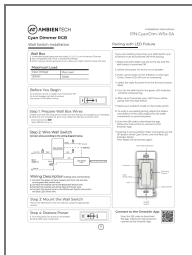
To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, A motor-operated appliance, or a transformer-supplied appliance. “GRADATEURS COMMANDANT UN BALLAST – AFIN DE REDUIRE LE RISQUE DE SURCHAUFFE ET LA POSSIBILITE D’ENDOMMAGEMENT A D’AUTRES MATERIELS, NE PAS INSTALLER POUR COMMANDER UNE PRISE, UN APPAREIL A MOTEUR,”

FCC/IC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Documents / Resources



[AMBIENTECH SA-WSx-C Wall Switch Sensor](#) [pdf] Instruction Manual
SA-WSx-C Wall Switch Sensor, SA-WSx-C Wall, Switch Sensor, Switch

References

-  [AmbienTech | Tunable White Wall Switch | DimTone](#)