WZS1,WZS2,WZS3,WZS4,WZS5

Zigbee 3.0

ZigBee 3.0 Constant voltage LED Controller

| WZS1 | WZS2 | WZS3 | WZS4 | WZS5 |

CE RoHS

Features
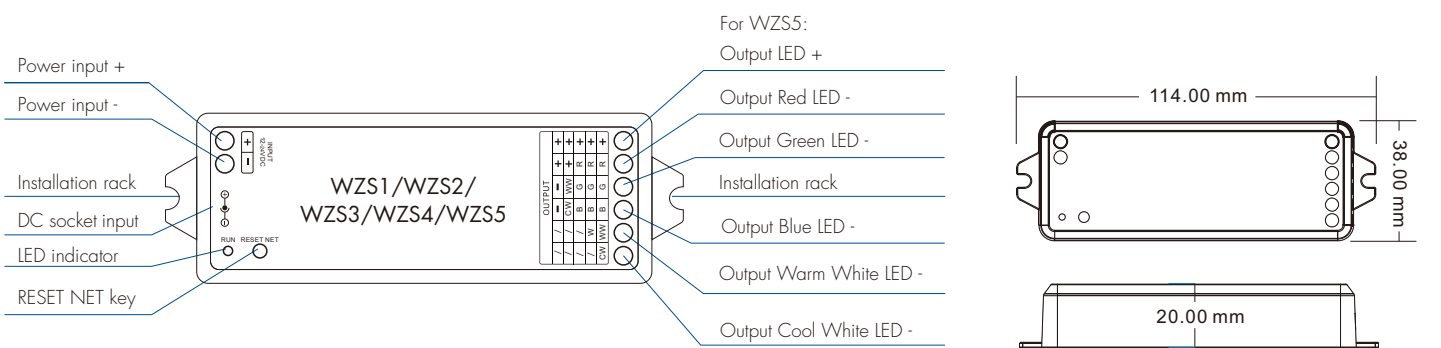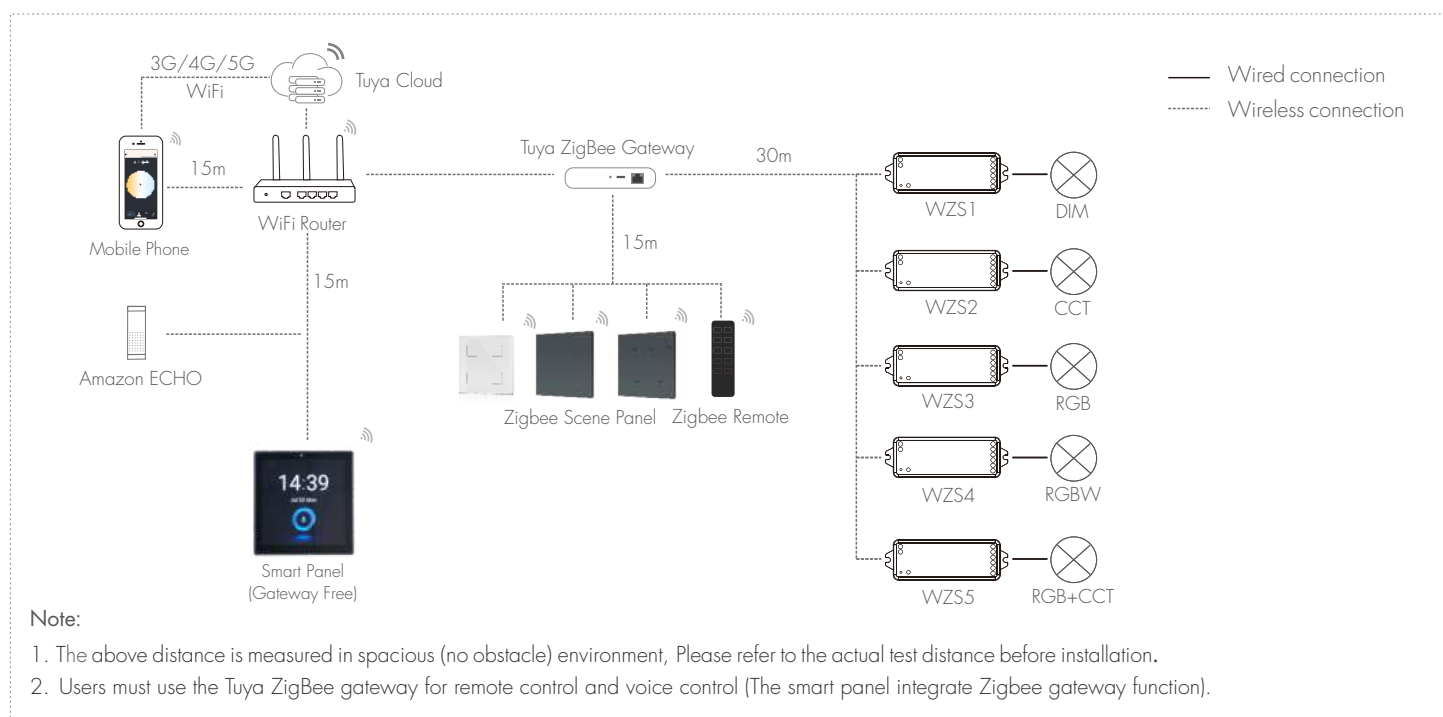
- Used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.
- DC power socket input and 1/2/3/4/5 channel constant voltage output.
- Tuya smart APP cloud control, support color and brightness adjust, delay turn on/off, timer run, scene edit, music play, sleep wake-up and biorhythms function.
- Philips HUE APP control by connect with Philips HUE bridge.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu voice assistant.
- Can relay and route to each other, up to 15 hops.
- Match with Zigbee 3.0 remote or scene panel control optional.

Technical Parameters

Input and Output

Model No.	WZS1	WZS2	WZS3	WZS4	WZS5
Light type	Single color	CCT	RGB	RGBW	RGB+CCT
Output channel number	2	2	3	4	5
Input voltage	12-36VDC	12-36VDC	12-24VDC	12-24VDC	12-24VDC
Input current	10.5A	10.5A	12.5A	12.5A	15.5A
Output voltage	12-36VDC	12-36VDC	12-24VDC	12-24VDC	12-24VDC
Output current	2CH,5A/CH	2CH,5A/CH	3CH,4A/CH	4CH,3A/CH	5CH,3A/CH
Output power	2x(60-180)W	2x(60-180)W	3x(48-96)W	4x(36-72)W	5x(36-72)W
PWM Frequency	4KHz	4KHz	2KHz	2KHz	2KHz

Dimming data

Input signal	Zigbee 3.0
Control distance	30m (Barrier-free space)
Dimming gray scale	65536 (2^16) levels
Dimming range	0 -100%
Dimming curve	Linear

Safety and EMC

EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-3/-17
Safety standard	EN 61347-1/-2
Radio Equipment	ETSI EN 300 440 ETSI EN 300 328
Certification	CE RoHS

Warranty

Warranty	5 years

Package

Size	L120 x W43 x H27mm
Gross weight	0.074kg

Environment

Operation temperature	Ta: -30 °C ~ +55 °C
Case temperature (Max.)	T c:+85 °C
IP rating	IP20

Mechanical Structures and Installations

Power input +
Power input -
Installation rack
DC socket input
LED indicator
RESET NET key

WZS1/WZS2/WZS3/WZS4/WZS5

RUN RESET NET

For WZS5:
Output LED +
Output Red LED -
Output Green LED -
Installation rack
Output Blue LED -
Output Warm White LED -
Output Cool White LED -

114.00 mm

38.00 mm

20.00 mm

System Wiring

— Wired connection

········· Wireless connection

3G/4G/5G WiFi — Tuya Cloud

Mobile Phone

15m

WiFi Router

15m

Amazon ECHO

Tuya ZigBee Gateway

30m

15m

Zigbee Scene Panel   Zigbee Remote

14:39

Smart Panel
(Gateway Free)

WZS1 — DIM
WZS2 — CCT
WZS3 — RGB
WZS4 — RGBW
WZS5 — RGB+CCT

Note:

1. The above distance is measured in spacious (no obstacle) environment, Please refer to the actual test distance before installation.

2. Users must use the Tuya ZigBee gateway for remote control and voice control (The smart panel integrate Zigbee gateway function).

App Operating Instructions

1. Network pairing

- Download the Tuya smart APP and register an account, search and add the Tuya Zigbee gateway device.
- Quickly press the "RESET NET" button five times or repeat power on and off five times to clear the previous network connection, enter pairing mode with the output light breathes blinking.
- Under the gateway, search and add new device.
  If the network connection is successful, you can find ZBS-DIM, ZBS-CCT, ZBS-RGB, ZBS-RGBW or ZBS-RGB+CCT devices in Tuya smart APP.

### 2. Lighting control settings and wiring diagram

After pairing the light device, click the device and change brightness and color by touch brightness slide and color wheel.

AC100-240V

Power Supply
12-36VDC
Constant Voltage

WZS1

Single color LED strip

Single color LED strip
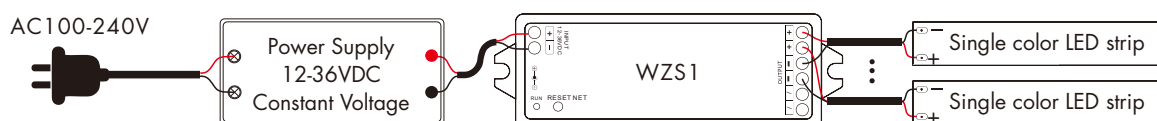
Dimming:
Touch brightness slide to adjust brightness.

AC100-240V

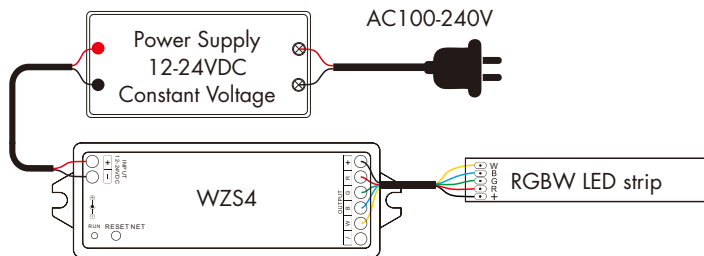Power Supply
12-36VDC
Constant Voltage

WZS2

Dual color LED strip
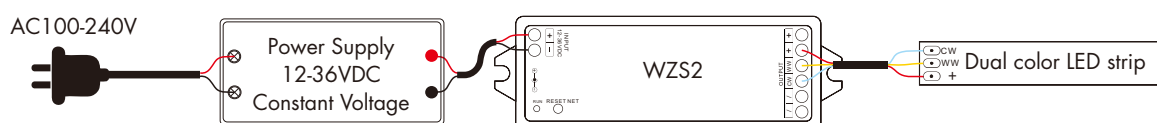
CCT dimming:
Touch color wheel to adjust color temperature.
Touch brightness slide to adjust brightness.
Up to 8 color shortcuts can be defined.

AC100-240V

Power Supply 12-24VDC Constant Voltage
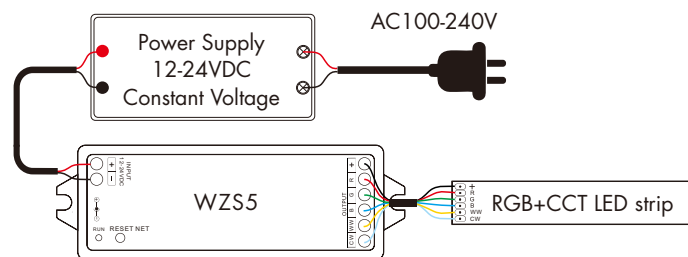
WZS3

RGB LED strip
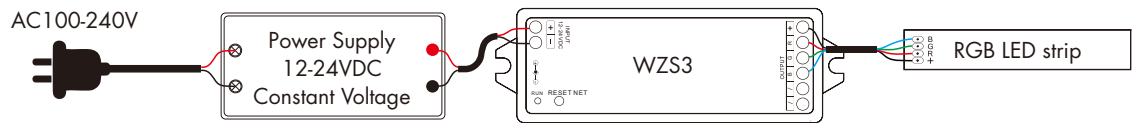
RGB dimming:
Touch color wheel to adjust static RGB color.
Touch brightness slide to adjust color brightness.
Up to 8 color shortcuts can be defined.

Power Supply 12-24VDC Constant Voltage

AC100-240V

WZS4

RGBW LED strip

RGBW dimming :
Touch color wheel to adjust static RGB color.
Touch brightness slide to adjust RGB color brightness or W brightness.
Up to 8 color shortcuts can be defined.

Power Supply 12-24VDC Constant Voltage

AC100-240V

WZS5

RGB+CCT LED strip

RGB+CCT dimming :
Touch color wheel to adjust static RGB color or color temperature.
Touch brightness slide to adjust RGB color brightness or CCT brightness.
RGB and CCT all have up to 8 color shortcuts can be defined.
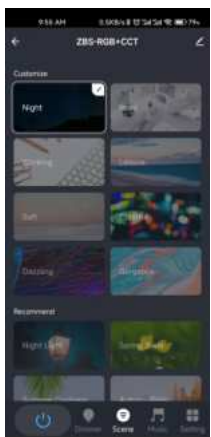
In "Scene", there are 8 scene can be recalled or customized.
In "Music", The music play can use smart phone music player or micro-phone as music signal input.
In "Setting", there are Plan, Schedule, Timer, Biorhythms, Power-on behavior functions.

Available Zigbee 3.0 Remote and Scene Panel

Connect the remote, scene panel and LED controllers through the Zigbee gateway on Tuya smart APP firstly.
There are 8 scenes in the Tuya smart APP, which can be set to lighting scenes or linkage scenes.
Lighting scene is used for the overall control of multiple lamps, like the light adjustment of the entire room.
Linkage scene is used for linkage control of different equipment, such lamps and curtains on and off together.
After successful scene setting, you can use the remote and scene panel to control these LED controllers directly.

R2(WZS)
CCT remote

TS4(WZS)
4 Scene Panel

PK4(WZS)
4 Scene Panel

PK8(WZS)
8 Scene Panel

Use of Smart Panel

● Connect the smart panel to WiFi network and open the Tuya smart APP to scan the QR code to binding.

● On the Tuya smart APP, under the smart panel, searching and adding one or more light devices.

● After adding light devices, users can set scene in the Tuya smart APP, and these scenes will be automatically synced to the smart panel.

● After setting successfully, users can control lights by touch color slide and recall scene on the smart panel screen directly .

Main Screen

All Devices

Single color

Color temperature interface

RGB/RGBW/RGB+CCT interface

Scene recall interface

Note:

1.The smart panel must use a 2.4GHz band router when connecting wireless networks.

2.Smart panel have Zigbee gateway function, no need for external gateway.

3.The smart panel connects up to 80 sub devices.