iskydance L2(WZ) Zigbee + RF + Push Dimmer User Manual

Contents

SKYDANCE

iskydance L2(WZ) Zigbee + RF + Push Dimmer

Model No.: L2(WZ)

2 channel 0/1-10V/AC relay output/Tuya APP cloud control/Philips HUE control/Voice control/RF dimming/Push Dim

Features

- Zigbee + RF + AC push 0/1-10V dimmer, output 2 channel 0/1-10V signal.
- High voltage AC input, High voltage AC relay output.
- Dimming or dual color control selectable by DIP switch.
- For dual color control, the two channel output can be set as warm white and cool white respectively, or one for brightness adjust and the other for color temperature adjust.
- 0-10V or 1-10V output selectable by DIP switch.
- Tuya APP cloud control, support on/off, color temperature and brightness adjust, delay turn on/off light, timer run, scene edit and music play function.
- Philips HUE APP control by connect with Philips HUE bridge.
- Voice control, support amazon ECHO and TmallGenie smart speaker.
- 256 levels 0-100% dimming smoothly without any flash.
- Compatibility with RF 2.4G single zone or multiple zone remote control.
- Each L2(WZ) controller can also work as Zigbee-RF converter, then use Tuya APP to control one or more RF dimming LED controller or driver synchronously.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Light on/off fade time 3s selectable.

Technical Parameters

Input and Output	
Input voltage	AC100-240V
Output signal	2 x 0/1-10V
Output current	0/1-10V: 20mA/CH AC: Max 3A

Environment	
Operation temperature	Ta: -30 OC ~ +55 OC
Case temperature (Max.)	T c: +65OC
IP rating	IP20

Dimming data

Input signal	Tuya APP + RF + Push Dim
RF Control distance	30m(Barrier-free space)
Dimming level	256 levels
Dimming range	0-100%

Safety and EMC

EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Warranty

Warranty	5 years

Mechanical Structures and Installations

AC L input — L2(WZ) ZigBee 2CH 0/1-10V Dimmer — Ch1 0/1-10V signal output
AC N input — GND
AC N output — Ch2 0/1-10V signal output
AC L output — GND
AC Push in — DIP switch for 0/1-10V or DIM/CCT select
Match key

Uin=100-240VAC
Iin=100mA max.
Uout=2×(0/1-10V)signal
Iout=3×50mA max.
AC Out=3A max.
Temp range:-30°C~+55°C

RoHS CE

175mm
160mm
45mm
27mm

System wiring

3G/4G/5G WiFi — Tuya Cloud
Mobile Phone
15m — WiFi Router — 15m — Tuya Zigbee Gateway — 15m — L2(WZ) — 0-10V Dimmable LED Driver — LED light
Amazon ECHO
L2(WZ) — 0-10V Dimmable LED Driver — LED light
RF Remote(Optional)
30m — L2(WZ) — 0-10V Dimmable LED Driver — LED light
Panel RF Remote(Optional)
30m — L2(WZ) — 0-10V Dimmable LED Driver — LED light

- Wired connection
- Wireless connection

Note:

1. The above distance is measured in spacious(no obstacle) environment,
   Please refer to the actual test distance before installation.
2. Please check if the Zigbee router net in 2.4G band, the 5G band is not available, and do not hide your router network.
3. Please keep the distance between L2(WZ) devices and router close, and check the WiFi signals.

Wiring diagram
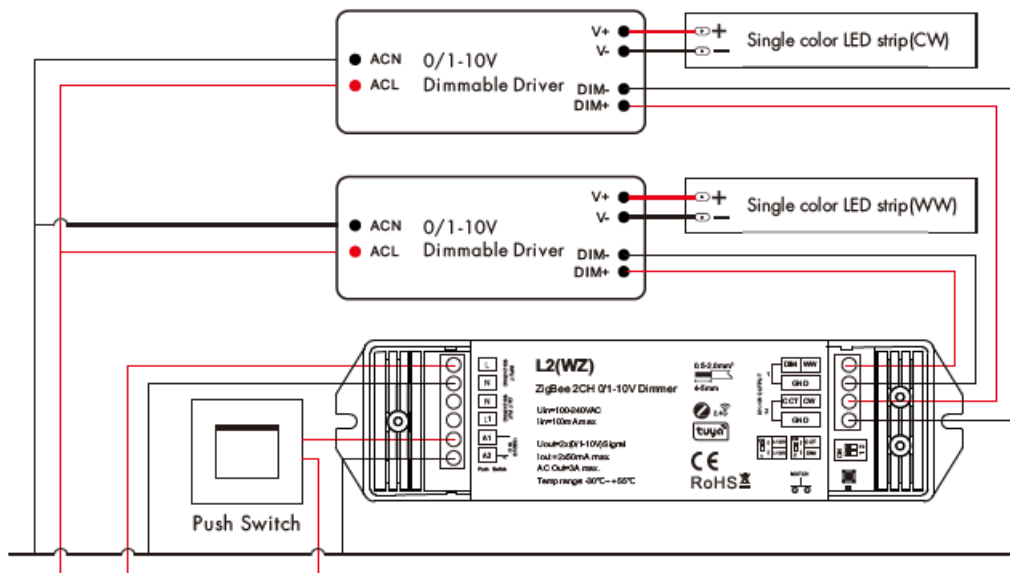
Note:

1. We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 100 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 50 meters.

2. Switch off the power, then switch on power, repeat again.
   Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.

3. If total power of the 0/1-10V dimming driver is less than 600W, we can use AC OUT port to cut off power input of the driver.

4. When use AC OUT port, an additional AC relay or contactor is needed when total input current of the load is higher than 3A or inrush current is greater than 30A.

Push-Dim Function

- Short press: Turn on or off light.
- Long press (1-6s): Press and hold to step-less dimming, With every other long press, the light level goes to the opposite direction.

Tuya APP network connection and operation

Press and hold Match/Set key for 2s, reset ZigBee network.
Press and hold Match/Set key for 5s,
or push twice Match/Set key fastly,
Clear previous network connection, enter config mode. the blue LED indicator fast flash.
If Tuya APP network connection succeed,
the blue LED indicator will stop flash,
and in Tuya APP, you can find ZB-DIM or ZB-CCT device.
Repeat power on and off for 5 consecutive times,
also clear previous network connection, enter config mode.

DIM   CCT
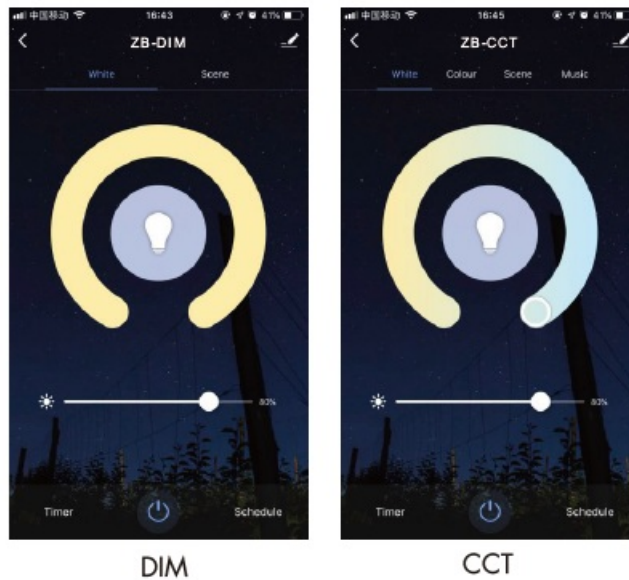
Tuya APP interface operation:
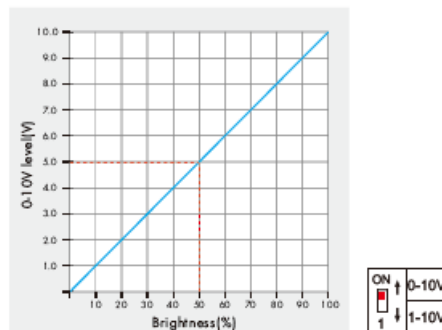**DIM:**
Touch brightness slide to adjust brightness.
CCT:
Touch color wheel to adjust color temperature. Touch brightness slide to adjust brightness.
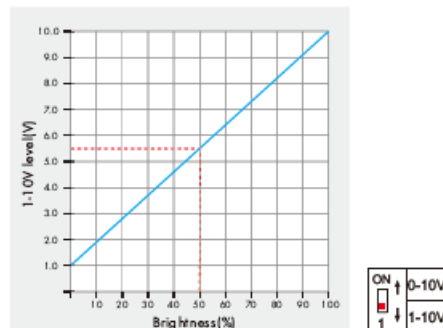
0-10V or 1-10V dimming setting

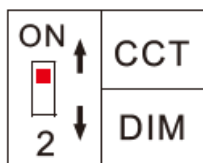Select 0-10V dimmer or 1-10V dimmer according to dimmable LED driver.

- 0-10V Dimmer


- 1-10V Dimmer

CCT dimming setting

- Select the DIP Switch 2 ON to set as CCT light type firstly. (When select the DIP Switch 2 OFF to set as DIM light type, Ch1 and Ch2 output is same.)

- When power is off, select the DIP switch 1 ON, then press hold the Match key, and power up the dimmer in the same time, the RUN LED indicator will flash two times, set as Ch1 for for brightness adjust and Ch2 for color temperature adjust.
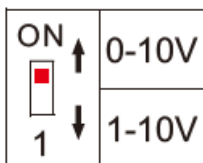
- When power is off, select the DIP switch 1 OFF, then press hold the Match key, and power up the dimmer in the same time, the RUN LED indicator will flash two times, set as Ch1 for warm white dimming and Ch2 for cool white dimming respectively (factory setting).
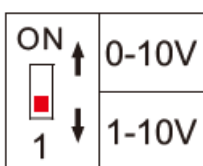
L2(WZ) match RF remote control (Optional)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the L2(WZ)'s Match key

- **Match:**
  Short press match key of L2(WZ),
  immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote.
- **Delete:**
  Press and hold match key of L2(WZ) for 10s to delete all match,
  The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

- **Match:**
  Switch off the power of L2(WZ), then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.
- .Delete:
  Switch off the power of L2(WZ), then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

L2(WZ) work as Zigbee-RF converter to match other RF dimming LED controller or driver

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

- **Match:**
  Short press match key of the controller, immediately press on/off key on the Tuya APP. The LED indicator fast flash a few times means match is successful.
- **Delete:**
  Press and hold match key of the controller for 5s, The LED indicator fast flash a few times means match was deleted.
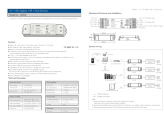
Use Power Restart

- **Match:**
  Switch off the power of the controller, then switch on power, repeat again. Immediately short press on/off key 3 times on the Tuya APP. The light blinks 3 times means match is successful.
- **Delete:**
  Switch off the power of the controller, then switch on power, repeat again. Immediately short press on/off key 5 times on the Tuya APP. The light blinks 5 times means match was deleted.

Documents / Resources

iskydance L2(WZ) Zigbee + RF + Push Dimmer [pdf] User Manual
L2 WZ Zigbee RF Push Dimmer, Zigbee RF Push Dimmer, Push Dimmer