

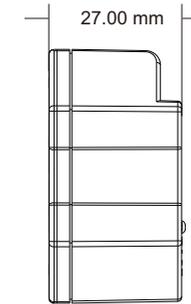
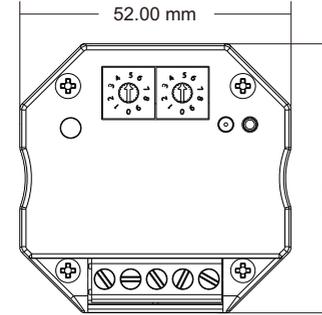
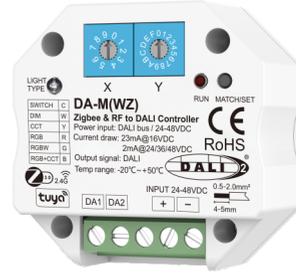
# DA-M(WZ)

DALI

## ZigBee & RF to DALI Converter

### Features

- ZigBee & RF DALI master, 6 in 1 function, support single color, color temperature, RGB, RGBW, RGB+CCT, or switch light control.
- 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.
- Match with RF 2.4G single zone or multiple zone remote control optional.
- 1 DALI address, support DT6 dimming, DT8-TC color temperature, DT8-RGB, DT8-RGBW or DT7 switch.
- In accordance with DALI standard protocol IEC 62386-101, 102, 207, 208, 209 and in compliance with DALI products from other international incorporation.
- Powered by DALI bus or 24-48VDC power supply.
- Enable to select DALI address by encoding switch, support unicast, group and broadcast mode.



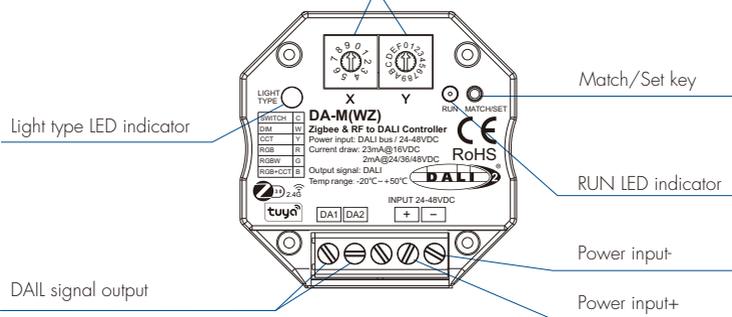
**CE RoHS**

### Technical Parameters

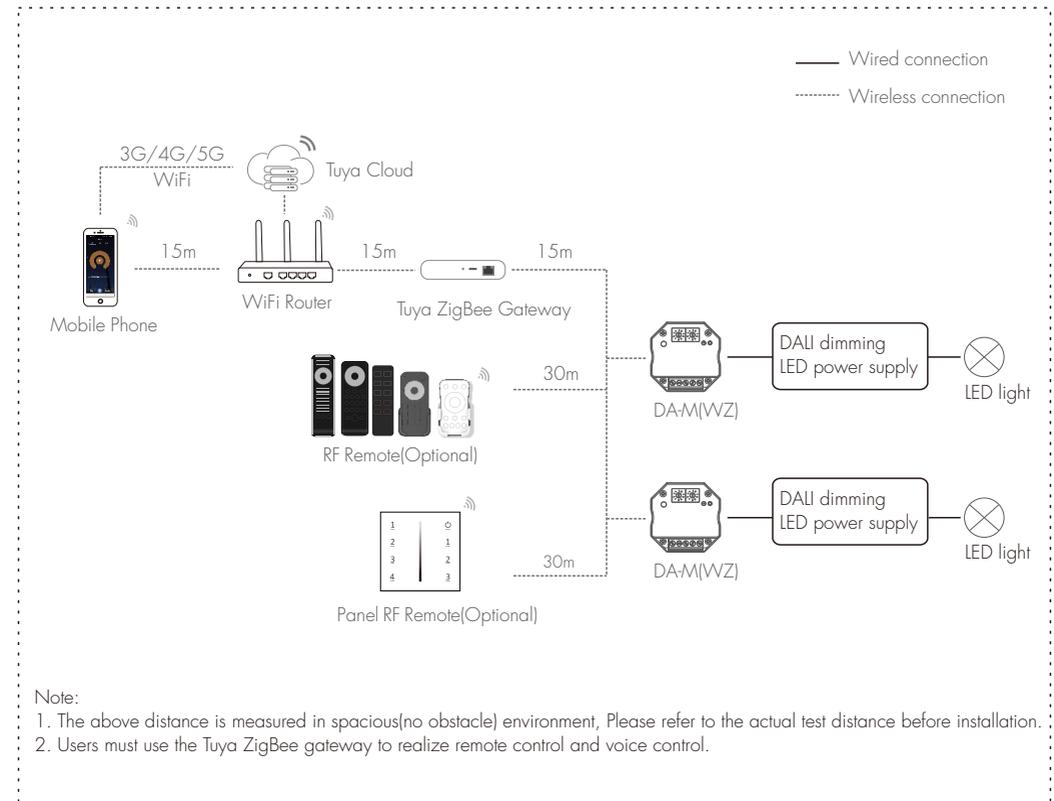
| Input and Output        |                             | Environment             |                    | Safety and EMC  |   |
|-------------------------|-----------------------------|-------------------------|--------------------|-----------------|---|
| Power input             | DALI bus/24-48VDC           | Operation temperature   | Ta: -20°C ~ +50°C  | EMC standard    | EN IEC 55015/<br>EN IEC 61547<br>ETSI EN 301 489-1/-3/-17 |
| Current draw            | 23mA@16VDC,<br>2mA@24-48VDC | Case temperature (Max.) | Tc: +55°C          | Safety standard | EN 61347-1/-2   |
| Input signal            | ZigBee + RF 2.4GHz          | IP rating               | IP20               | Radio equipment | ETSI EN 300 328<br>ETSI EN 300 440                        |
| Output signal           | DALI                        | <b>Package</b>          |                    | Certification   | CE RoHS DALI-2  |
| Remote control distance | 30m(open and barrier-free)  | Size                    | l60 x W 60 x H40mm | <b>Warranty</b> |   |
|                         |                             | Gross weight            | 0.060kg            | Warranty        | 5 years   |

### Mechanical Structures and Installations

Rotary coding switch for setting DALI address

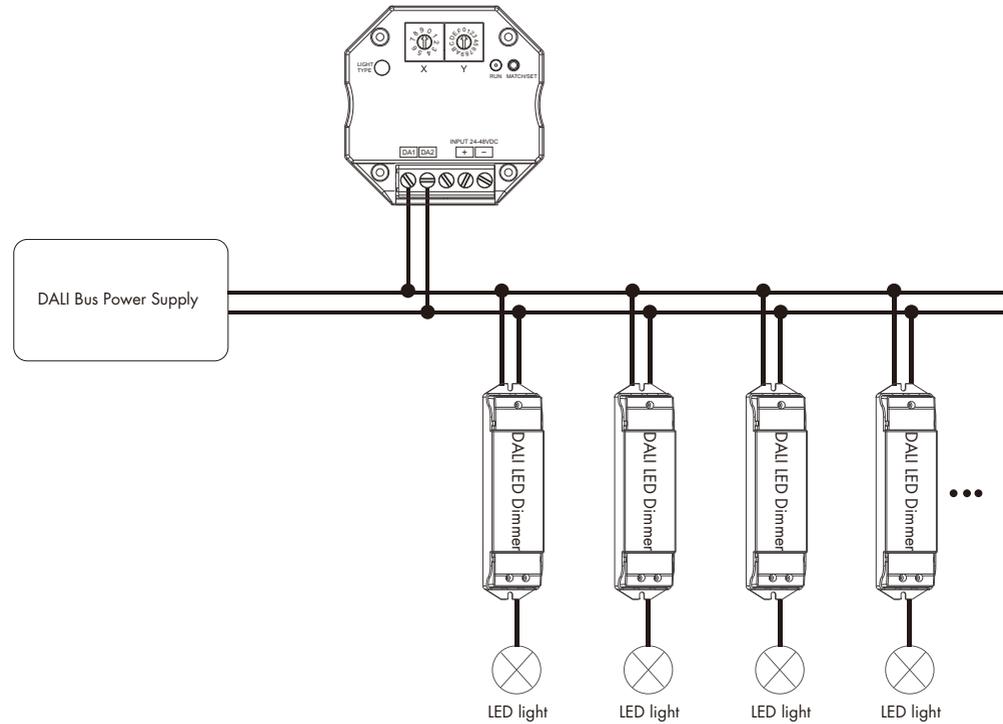


### System Wiring

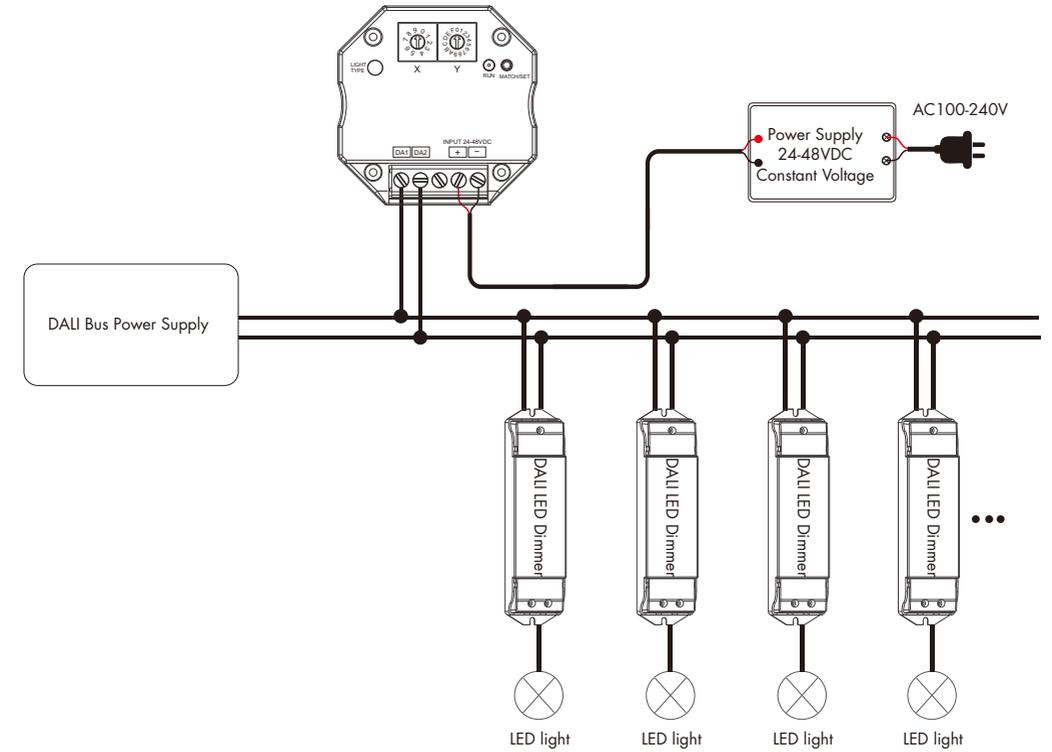


## Wiring Diagram

### 1. DALI bus power supply



### 2. 24-48VDC power supply



**Note:** It is recommended to use a 24-48VDC power supply for the DALI master to reduce the load on the DALI bus power supply.

## Light Type Settings

|         |   |
|---------|---|
| SWITCH  | C |
| DIM     | W |
| CCT     | Y |
| RGB     | R |
| RGBW    | G |
| RGB+CCT | B |

Please select the light type before Tuya APP network connection config.  
 Press and hold Match/Set key for 2s, switch 6 kinds light type in sequence, and light type LED indicator turn corresponding color.  
**White:** DIM (default)  
**Yellow:** CCT  
**Red:** RGB  
**Green:** RGBW  
**Blue:** RGB+CCT  
**Cyan:** SWITCH

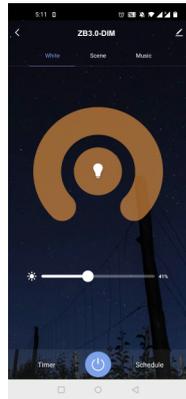
## Tuya Smart APP Network Connection

Press and hold Match/Set key for 5s, or push twice Match/Set key fastly, clear previous network connection, enter config mode, the RUN LED indicator flash fastly.

Repeat power on and off for 5 consecutive times, also clear previous network connection, enter config mode, the RUN LED indicator flash fastly.

If Tuya APP network connection succeed, the RUN LED indicator stops flash.

And in Tuya APP, you can find ZB3.0-DIM device (or CCT, RGB, RGBW, RGB+CCT, SWITCH device).



## White interface

For DIM type:  
Touch brightness slide to adjust brightness.

For RGB type:  
Touch brightness slide, get RGB mixed white firstly, then to adjust white brightness.

For RGBW type:  
Touch brightness slide, adjust white channel brightness.



## Color temperature interface

For CCT type:  
Touch color wheel to adjust color temperature.  
Touch brightness slide to adjust brightness.

For RGB+CCT type:  
Touch color wheel to adjust color temperature, RGB will turn off automatically.  
Touch brightness slide to adjust white brightness.



## Colour interface

For RGB or RGBW type:  
Touch color wheel to adjust static RGB color.  
Touch brightness slide to adjust color brightness.  
Touch saturation slide to adjust color saturation, namely gradient from the current color to white(RGB mixed).

For RGB+CCT type:  
Touch color wheel to adjust static RGB color, CCT will turn off automatically.  
Touch brightness slide to adjust color brightness.  
Touch saturation slide to adjust color saturation, namely gradient from the current color to white (RGB mixed)



## Scene interface

The 1-4 scene is static color for all light type. the inner color of these scene can be editable.  
The 5-8 scene is dynamic mode for RGB type, such as green fade in and fade out, RGB jump, 6 color jump, 6 color smooth.



## Music, Timer, Schedule

The music play can use smart phone music player or micro-phone as music signal input.  
The Timer key can turn on or turn off light in the next 24 hours.  
The Schedule key can add multiple timers to turn on or turn off light according to different time periods.

# Match Remote Control (Optional)

Please select the same light type of RF remote control for matching, End user can choose the suitable match/delete ways. Two options are offered for selection:

## Use the Match key

Match:  
Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The RUN LED indicator fast flash a few times means match is successful.

Delete:  
Press and hold match key for 10s to delete all match, The RUN LED indicator fast flash a few times means all matched remotes were deleted.

## Use Power Restart

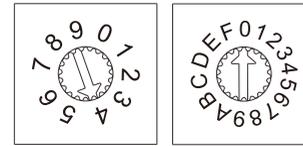
Match:  
Switch off the power of the receiver, then switch on power, repeat again.  
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The RUN LED indicator blinks 3 times means match is successful.

Delete:  
Switch off the power of the receiver, 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 RUN LED indicator blinks 5 times means all matched remotes were deleted.

# DALI Address Setting

Address value = X \* 10 + Y.  
For example: X = 5, Y = 4, Address value = 5 x 10 + 4 = 54.

## Unicast mode

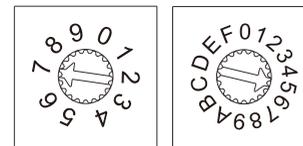


X

Y

X is 0-6, Y is 0-9.  
Address value 0-63 correspond to DALI unicast address 00-63.  
For example:  
Address value = 40, the unicast address value is 40.

## Group mode

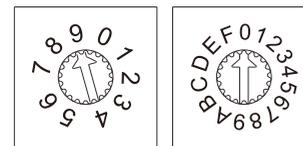


X

Y

X is 7, Y is 0-F.  
Address value 70-7F correspond to DALI group address 0-15.  
For example:  
Address value = 75, the group address value is 5.

## Broadcast mode



X

Y

X is 9, Y is 0-F.  
Address value 90 - 9F correspond to broadcast address.