LDT-PNL-WIFI-RF-AC-DIM-5B

Five-Button Wi-Fi & RF AC Dimming Panel

A wall-mounted AC dimming panel for compatible phase-cut-dimmable LED lamps/drivers and suitable incandescent or halogen loads. Local touch controls provide switching and brightness adjustment.

Model specifications

Supply voltage	100-240 VAC
Output type	1-channel AC phase-cut dimming
Maximum output current	1.5 A
Nominal output power	150-360 W; load-type limits also apply
Dimmable LED load	100 W at 110 V / 200 W at 220 V
Control inputs	Wi-Fi + RF 2.4 GHz + five touch buttons
Phase-cut selection	Leading edge or trailing edge; set before energising
Dimming	0-100%; 256 levels
Published wireless distance	30 m, unobstructed
Minimum brightness setting	5%, 10%, 15%, 20%, 25% or 30%
Protection	Overheat and overload
Operating temperature	-20 to +55 °C
Maximum case temperature	+89 °C
IP rating	IP20
Body dimensions	86 x 86 x 33 mm

Neutral wiring is required. The 150-360 W nominal figure is not an LED load allowance: the specified LED limits are 100 W at 110 V and 200 W at 220 V. Observe 1.5 A and the documented inrush limit; higher load-table wattages do not override the current rating.

The following technical-reference pages retain the complete diagrams, dimensions, settings and installation instructions. Select the lighting variant stated on this cover; family diagrams may also illustrate other variants.

Triac

WiFi+RF 5 Button Panel Triac Dimmer





CE RoHS

Features

- Touch panel WiFi + RF AC phase control dimmer, 1 channel output.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.
- 5 button control, dual button brightness adjustment, two scene memories.
- **Control app cloud control, support on/off, brightness adjust,** delay turn on/off light, timer run, scene function.
- Leading edge dimming or trailing edge dimming set by dip switch.
- Min brightness can be set by key.
- Light on/off fade time 3s selectable.
- 256 levels 0-100% dimming smoothly without any flash.
- Compatibility with RF 2.4G single zone or multiple zone dimming remote control.
- Easy to be placed in standard wall junction box.
- Over-heat / Over-load protection, recover automatically.
- White or black glass panels are available.

Technical Parameters

Input and Output	
Input voltage	100-240VAC
Output voltage	100-240VAC
Output current	Max 1.5A
Output power	150-360W
Warranty and Protection	
Warranty	5 years
Protection	Over-heat / Over-load

Dimming data	
Input signal	WiFi + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming level	256 levels
Dimming range	0-100%
Environment	
Operation temperature	Ta: -20°C ~ +55°C
Case temperature (Max.)	Tc: +89°C
IP rating	IP20

Safety and EMC	
EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2
Radio equipment	ETSI EN 300 440 ETSI EN 300 328
Certification	CE RoHS
Package	
Size	L112 x W112 x H50mm
Gross weight	0.223kg

Compatible Load Types

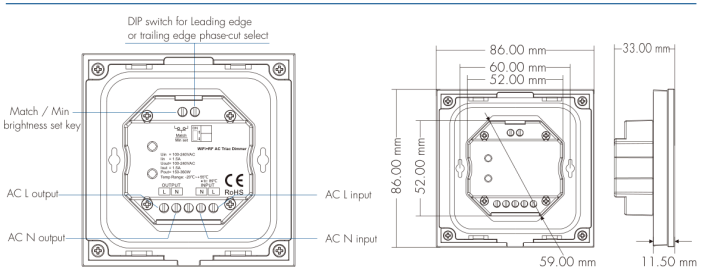
Load type	Maximum load	Remarks
Dimmable LED lamps	200W @ 220V 100W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
Triac dimmable LED drivers	200W @ 220V 100W @ 110V	Maximum permitted number of drivers is 200W divided by driver rated input power, and make sure the surge current is no more than 130A.
Incandescent lighting, HV halogen lamps	400W @ 220V 200W @ 110V	

Recommended Number of Load Connection

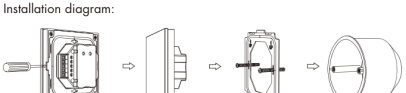
Load type	Output power per load	Quantity
Dimmable downlight	5.5W @ 220V~240V	20
Triac dimmable LED driver	12W @ 220V~240V	15
Triac dimmable LED driver	36W @ 220V~240V	4
Triac dimmable LED driver	75W @ 220V~240V	2

Because different manufacturers triac dimmable LED driver rated input power is different,
you can refer to the formula to calculate the max. number of LED driver. Formula: D max = 200W/RP,
at the same time need to meet the sum of the surge current (I surge) does not exceed 130A.
For example: triac dimmable LED driver rated input power(RP) =15.4W, surge current =10A/230VAC,
Then D max= 200/15.4 =13(pcs), I surge=13*10 =130A, the max. number of triac dimmable LED driver is 13.

Mechanical Structures and Installations



Installation diagram:



Remove the iron plate | Touch panel | Fixed iron plate | Base box

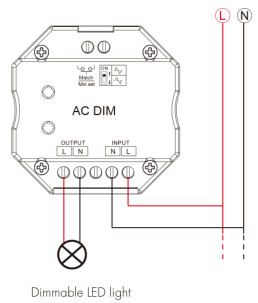
Typical base as below:



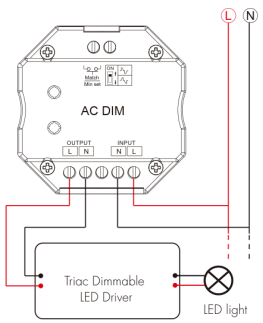
European style | 86 size

Wiring Diagram

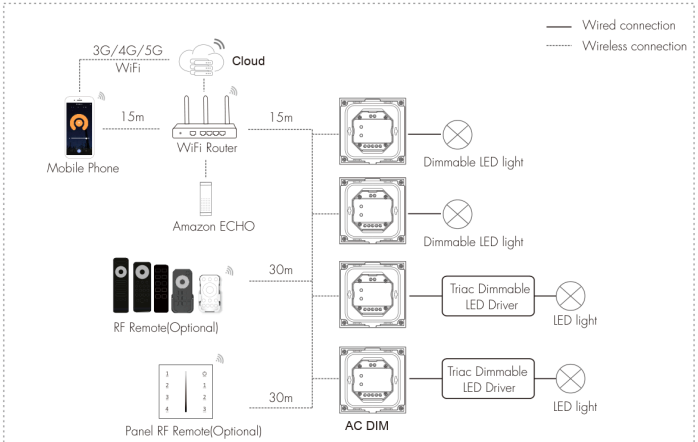
Connect with dimmable LED light:



Connect with Triac dimmable LED driver:



System Wiring



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 WiFi 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 AC DIM devices and router close, and check the WiFi signals.
4.WiFi signal strength detection: Open the main interface of social security, click enter the device interface, click "check device network" for testing.

Control app Network Connection

1. Download and open the APP
Search for "Smart Life app" in the app store or scan the QR code on the right
to download the APP. Register and log in after installation.

2. APP network connection operation
Use the button:
Press and hold the < and > buttons simultaneously for 5s to clear
previous network connections and enter the Control appWiFi network conLguration mode.
The output light blinks 10 times.

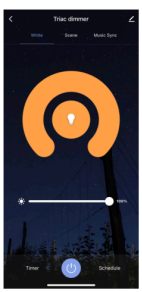
Clear network:
Power on 5 times in succession to clear previous network connections,
and the output light will blinks 10 times.

If Control app network connection succeed,
the output light blinks 10 times, and in Control app, you can Lnd Triac Dimmer device.

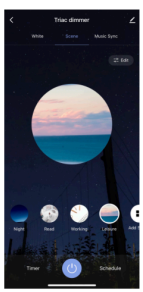
When controlling the light with Smart Life app, if the network connection is poor,
you can control the light with Bluetooth connection within the Bluetooth control range.
Note: The light can not be directly controlled by Bluetooth without WiFi configuration.

Smart Life

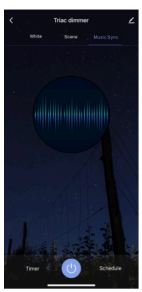
Control app Interface



White interface
Click, Turning lights on or off,
Touch brightness slide to adjust brightness.



Scene interface
The 1-4 scene is static color.
the inner color of these scene
can be editable.

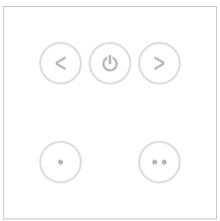


Music, Timer, Schedule
The music play can use smart phone music player or micro-phone as music signal input.

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.

Button Function



: Short press to turn on or off the light.
The indicator light turns orange when the light are turned off.

: Brightness adjustment, short press for 10 levels,
long press to continuously decrease/increase the brightness.
The indicator light is blue during operation.

: Short press to recall scene 1/2 lighting,
Long press for 5s, the current lighting status will be saved to Scene 1/2,
and the indicator light will blinks 2 times.
The indicator light is green during operation.

Scene Lock Setting:

- Press and hold the button and the button for 5s at the same time.
  The indicator lights of the button and the button will blinks 3 times simultaneously.
  The two scene button will be set to the locked state.

- Press and hold the button and the button for 5s at the same time.
  The indicator lights of the button and the button will blinks 3 times simultaneously.
  The two scene button will be set to the unlocked state (Default factory settings are not locked).

Min brightness setting:
Long press Min set key(back) for 2s, the light blinks 2 times, ready for min brightness set.
Then short press Min set key 1-6 times, to get 6 min brightness: 5%, 10%, 15%, 20%, 25% or 30%, the light will output the current min brightness immediately.
Long press Min set key for 2s or wait 8s, quit min brightness set, the light will output 100% brightness automatically.

Switch gradient function setting:
Press the pairing button(back) 3 times to toggle the switch gradient function.
During a 3s fade, the output light blinks 3 times; during a 0.5s fade, the output light blinks 5 times.

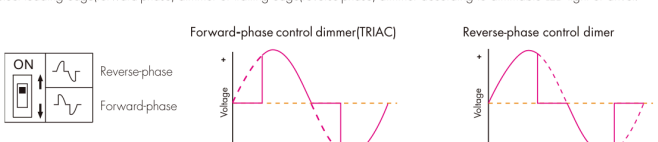
Restore factory setting:
Restore factory setting using one of the following two methods:

- Use the On/off button: Short press to turn on the light, short press to turn off the light, then press the button for 15s immediately, the output light blinks 10 times, complete the factory reset.
- Use the Match key: Long press the Match key 10s, the output light blinks 10 times, complete the factory reset.

Factory default parameters: 0.5s light on/off fade time, scene button not locked, min brightness 5%, no matched RF remote control, **no matched Control app.**

Leading Edge or Trailing Edge Dimming Setting

Select leading edge(forward-phase) dimmer or trailing edge(reverse-phase) dimmer according to dimmable LED light or driver.



Caution: before power on, you must confirm the selection of dip switch.

Match RF Remote

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

Use On/off button:
Match:
Short press to turn on the light, short press to turn off the light, immediately long press button 5s,
the button indicator light blinks 3 times means match is successful.

Delete:
Short press to turn on the light, short press to turn off the light, immediately long press button 10s,
the button indicator light blinks 3 times and the output light blinks 5 times means all matched remotes were deleted.

Use Power Restart:
Match:
Switch off the power, 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 output light blinks 3 times means match is successful.

Delete:
Switch off the power, 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 output light blinks 5 times means all matched remotes were deleted.

Use the Match key:
Match: Short press match key, immediately press on/off key(single zone remote) or zone key(multiple zone remote) of the remote.
Delete: Press and hold Match key for 5s, the output light blinks 5 times means all matched remotes were deleted.