LDT-PNL-SPI-RF-1Z-BAT

CR2032-Powered Single-Zone SPI RF Touch Panel

A slim battery-powered RF wall panel for compatible SPI pixel controllers, with colour, effect type, direction, speed, brightness and scene controls.

Supply voltage	3 VDC; CR2032 battery
Output type	Proprietary 2.4 GHz RF control signal
Lighting type	Compatible SPI RGB / RGBW controllers
Zones	1 zone
Scene memory	4 scenes
Working current	Less than 8 mA
Standby current	Less than 15 microampere
Published standby time	1 year; usage-dependent
Published wireless distance	Up to 30 m, unobstructed
Mounting	Screws, adhesive or magnetic mounting
IP rating	IP20
Operating temperature	-30 to +55 °C
Body dimensions	86 x 86 x 10 mm

This is a radio control panel, not a wired SPI output or LED power controller. The exact available effects depend on the paired SPI controller firmware.

The following reference pages include the complete wiring, dimensions, settings and operating instructions. Use the lighting and hardware variant identified above; shared references may illustrate other separate models.

SPI

SPI RF Wall Mounted Touch Panel

- Used for RGB or RGBW SPI LED controllers.
- Ultra sensitive high strength glass touch panel.
- Support for setting the color, change type, motion direction, speed and brightness of the dynamic mode.
- 4 scene storage.
- CR2032 battery powered.
- Touch keys with LED indicator.
- White & Black available.





CE RoHS

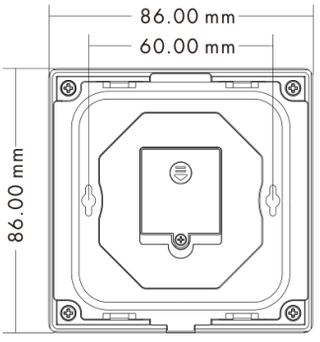
Technical Parameters

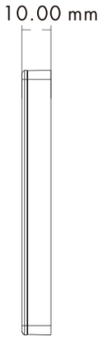
Input and Output	
Output signal	RF 2.4GHz
Working voltage	3VDC(CR2032)
Working current	<8mA
Standby current	<15μA
Remote distance	30m(Barrier-free space)
Standby time	1 year

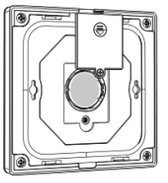
Safety and EMC	
EMC standard	EN IEC 55015/EN IEC 61547ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2EN 62493
Radio Equipment	ETSI EN 300 440
Certication	CE RoHs
Warranty	5 years

Environment	
Operation temperature	Ta: -30°C ~ +55°C
IP rating	IP20
age	
Size	L140 x W60 x H26mm
Gross weight	0.088kg

Mechanical Structures and Installations

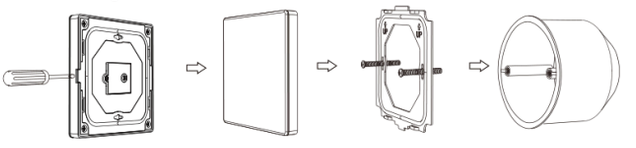






Note:
1. Before the first use, please remove the protective film on the battery.
2. Open the battery cover with a screwdriver.
3. If the LED indicator is not on when press key, it is due to dead battery or bad contact caused by multiple plugging, please replace the battery, or raise the battery shrapnel with a screwdriver

Installation diagram:



Uninstall Touch panel Baseplate Base

To fix the panel, three options are offered for selection:
Option 1. fix it on the wall with two screws.
Option 2. adhere it to the wall with paster.
Option 3. panel can be adsorbed directly onto metal surfaces.

Match With RF LED Controller (two match ways)

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, immediately press on/off key on the touch panel.
The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match key for 5s to delete all match,
The LED indicator fast flash a few 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 3 times on the touch panel.
The 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 5 times on the touch panel.
The light blinks 5 times means all matched remotes were deleted.

Key Function



ON/OFF —— Turn on/off light.

—— Touch the RGB wheel to select the color.

—— Short press: Switch the color of the dynamic mode in sequence
(e.g. Red, Orange, Yellow, Green, Cyan, Blue, Purple, White, R/G/B 3-color, 7-color).
Long press for 2s: Set 6 levels of color saturation (80%, 60%, 40%, 20%, 0%, 100%) in sequence,
i.e., transition the current color to RGB mixed white.

MODE —— Short press: Switch the change type of the dynamic mode in sequence (e.g. static, flow, chasing light, pile-up, floating, tail dragging, tail dragging + black segment, bouncing, shuttle, jump, fade, breath, flashing, chaotic flashing).
Long press for 2s: Set the first change type (static).

SPEED —— Short press: Switch 10 levels of speed in sequence.
Long press for 2s: Switch the direction of light movement in sequence (e.g. forward, backward, round trip, both sides to center, center to both sides, curtains open and close).

BRIGHT —— Short press: Switch 5 brightness levels in sequence (100%, 80%, 60%, 40%, 20%).
Long press for 2s: Get maximum brightness 100%.

SCENE 1 SCENE 2 SCENE 3 SCENE 4 —— 4 Scene storage.
Short press: Call up scene 1-4.
Long press 5s: Save the current lighting effect to scene 1-4.

Note: The remote control will automatically get the number of dynamic mode color, the number of change type, and the number of light movement direction from the SPI controller.

Scene Lock:

- Scene keys can be set to locked status, i.e., cancel the function of long-pressing for 5s to save the scene (default: scene is not locked).
- Short press the panel on/off key, turn on the light first, then turn off the light, immediately long press the panel on/off key for 5s, then immediately long press any scene key for 5s to set all the scene keys to lock status.
- Short press the panel on/off key, turn on the light first, then turn off the light, immediately long press the panel on/off key for 5s, then immediately long press any scene key for 10s to return all scene keys to unlocked state.

Installation Precautions

1. Please read all instructions carefully before starting the installation.
2. When installing the batteries, pay attention to the positive and negative poles of the batteries;
   please remove the batteries when you don't use the remote control for a long time;
   please replace the batteries in time when the distance of the remote control becomes smaller or the remote control fails frequently.
3. If the receiver does not respond, re-pair the remote control.
4. Hold it gently and avoid dropping it.
5. For indoor and dry environments only.
6. Avoid using it in large metal areas or areas with strong electromagnetic waves, otherwise the remote control distance will be affected.