

HX-SZ600-DIM

Category: Tunable White / CCT Controllers

Source model: HX-SZ600-DIM

Internal reference: HOION-CTRL-025

Product Overview

RF Touch Dimmer

Dimmer adopt the most advanced PWM (Pulse Width Modulation) digital dimming technology, especially design for single color led strip. Adopt full touch RF remote control. 5 function buttons and 1 dimming ring in the center, all buttons are in the touch form, and the dimming ring has 128 levels in different brightness value. Particularly, there is a sense light in the remote control center. It shows the exactly light which is touched. As the led strip is the same. Further, there ar

Technical Details

Product Feature

Designed for single color constant voltage LED lights, Working voltage DC12-24V.

Two channels output, Max. load current: 3CH*10A; Max. load power:360W/12V; 720W/24V.

Adopts RF touch remote control with fashion appearance, no need line-of-sight. Control range up to 20 meters.

Memory function, each time power-on reserve the mode which stop in the last power-down.

The brightness of static color is adjustable, 256 levels in total; the speed of dynamic changes is adjustable, 100 levels in total.

Long-press the brightness and speed key can get the fast adjustment, convenient for operation.

Multiple controllers can work synchronically when connected by network cable through the RJ45 connector, the network cable between 2 ports up to 100 meters.

Warranty of this product is two years, exclude the artificial situation of damaged or overload working.

Technical Parameters

Controller

| Working temperature | -20-60℃ | Supply voltage | DC12V-24V

| Static power consumption | <1W | Connecting mode | common anode

| Grayscale | 256 levels | Speed stage | 100 grade

| External dimension | L91*W88*H24 mm | Packing size | L108*W108*H50 mm

| Net weight | 290g | Gross weight | 320g

| PWM frequency | 400Hz | Remote distance | Up to 20M

| Output | 3 channels | Output current | ≤10A(each channel)

| RF frequency | 433.92Mhz | Memory function | support

| Max. Output power | 12V:<360W, 24V:<720W

Remote control

| Working temperature | -20℃-60℃ | Supply voltage | DC4.5V1/4AAA*3pcs1/4

| Standby current | <8uA | Working current | <30mA

| Standby power | <36uW | Working power | 135mW

| Net weight | 90g | RF frequency | 433.92MHz

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| External dimension | L113*W55*H22 mm | RF distance | ≤20m

External Dimension

Packing box: L108*W108*H50 mm

Interface Specifications

Connection: V+ → COM, CH1 → V-, CH2 → V-, CH3 → V-

Direction for use

Connect the load wire at first, following by the power wire; Please ensure short circuit can not occur between connecting wire before you turn on the power.

Adopts RF full touch control, with one dimming ring and 5 function buttons.

Tips: Without any operation more than 20 seconds, the touch remote will enter the sleep state, please SHAKE the remote to wake up it before the next using.

The function of each button as below:

	Name of key	Instruction	Remarks
ON	ON in any time		
OFF	OFF in any time		
Mode	The mode will move to next, when touch the key each time	3 modes in total.	
Speed/Brightness +	The Speed/Brightness will +1, when touch the key each time	Speed for dynamic modes, Brightness for static modes.	
Speed/Brightness -	The Speed/Brightness will -1, when touch the key each time	Speed for dynamic modes, Brightness for static modes.	
Color Ring	Touch any color temperature which you want		

3 modes in total as below:

	NO	Patterns	Remarks
1	Static 100% light	Brightness is adjustable, speed is unadjustable	
2	flash	Speed is adjustable, brightness is unadjustable	
3	fade		

RF CODE

Tips: Receiver can be controlled by any one the same remote as factory default; full touch remote control delivered with unique RF code as factory default; if unique-control is needed, please matching the code before installation and using.

Matching code operation

If unique-control or new-coded-remote is needed, pairing the remote and the receiver as below operation instruction before using:

Step 1 : Pressing key “

Mode ” and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.

Step 2 : Continuously to press the key

“ON ” for 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10% as responding.

Code learning successfully, the LEDs will be back to the status before the power off, and the receiver only can be control by the remote.

If not, please re-operate from step 1 to 2.

Clear code operation

Back to factory default, wall-panel can be controlled by any one the same remote control.

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Step 1 : Pressing key “

Mode ” and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.

Step 2 : Continuously to press

“

Speed/Brightness -

“ 3 times within 5 seconds after step 1 ,the brightness of LEDs will change from 25% -10% as responding.

Code clearing successfully, the LEDs will be back to the status before the power off, and the receiver can be controlled by any remote control (any one the same remote control can be used to clear the code).

4. If not, please re-operate from step 1 to 2.

Typical Applications

Application Circuit 1: (V+→COM→CH1→V- →CH2→V- →CH3→V-)

Conjunction diagram 2: (Synchronization function with network Line)

Tips: The green signal indicator light will uniform flash with proper communication, and will off with any incorrect signal connection (like: poor contact, confused input and output, wrong wire order).

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/LEDshuangsewenkongzhiqi/2021/0417/332.html>