

## Parameters

Electrical Parameters	
Product name	3CH fire and null wire dimming
Product number	HDL-MPWPID03LN.18-A (EU) HDL-MPWPID03LN.16-A (US)
Working voltage	AC85-270V 50/60Hz
Output channel	1channel/3 channels
Output current	1st channel≤1.2A , 2nd and 3rd channel total current≤2A
Fuse	01LN: 4A, aR type 03LN: 6A, aR type
Environmental Conditions:	
Working temperature	-5°C~45°C
Working relative humidity	<90%
Storage temperature	-20°C~+60°C
Storage relative humidity	<93%
Approved:	
CE	
RoHS	
Product Information:	
Dimensions	80×80×39 ( mm ) (EU) 80×110.5×39 ( mm ) (US)
Weight	128g/138g
Housing material	Inflaming retarding nylon
Installation	wall box (the depth of wall box should not less than 45mm)
Protection rating	IP20
Fire and null wire	2.5mm <sup>2</sup> copper cable
Load wire	2.5mm <sup>2</sup> copper cable

## FAQ

- Dimming flashing:
  - 1.The brightness is set too high. General condition, if the load is lamp, the max. level should not exceed 80%; if the load is LED, the max. level must be turned down, otherwise, the LED will flash or the wireless power interface will restart
  - 2.If the load is LED, and less than 30W, it needs to connect the constant current module in parallel to provide enough working current for panel.
- The wireless power interface cannot supply the power, the panel cannot work properly:
  - 1.Firstly, separate panel and power, and install again, then check
  - 2.If the panel cannot work properly, check the fuse
  - 3.Use the multimeter to measure the voltage of the power interface and panel interface. If the voltage is not DC5V (±1V), the wireless power interface is wrong.

## Overview



Wireless power interface, which is fire and null wire for dimmer, works with wireless panel, it has the function of dimming and switch.

There are two sizes, EU and US.

## Functions

- Supply DC5V power for wireless panels
- 1st channel is MOSFET dimming/switch  
2nd and 3rd are TRIAC dimming/switch
- Short circuit protection
- Over heating protection

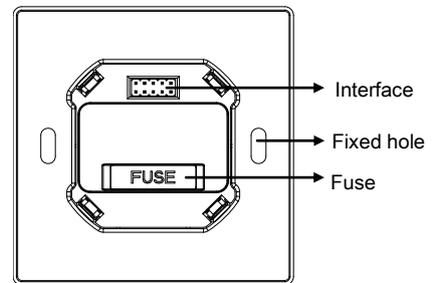
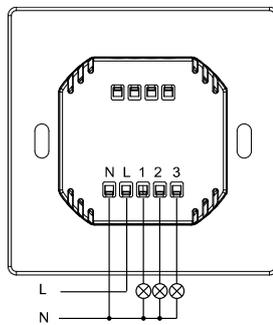
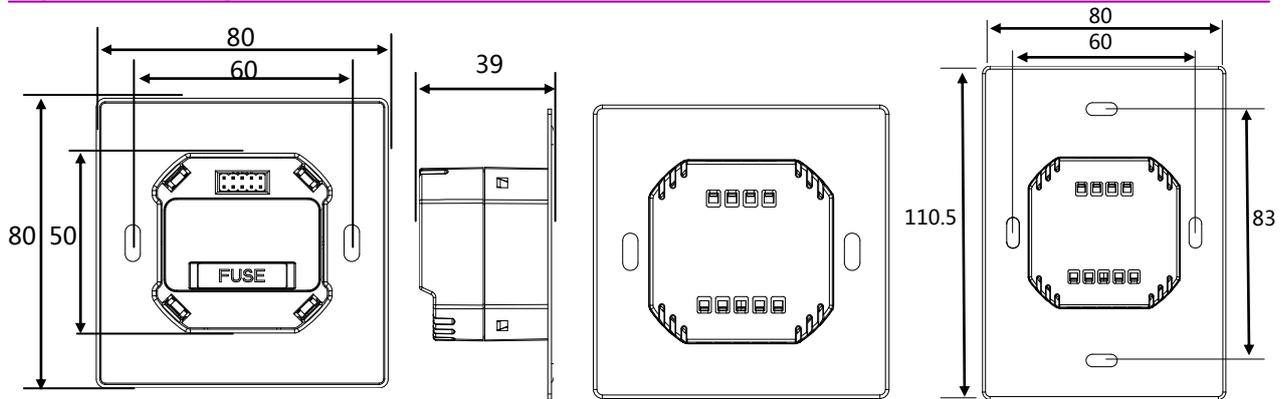
## Important Notes

- The power interface must work with wireless panels
- 1st channel output should not exceed 1.2A, 2nd and 3rd channel total current cannot exceed 2A
- The channel 1 cannot connect to the inductive load, such as transformer, fan, inductive ballast lamp, etc
- It cannot make sure that can dim all kinds of lamps, but it can control all switches
- Recommend channel 1 load types: electronic transformer, LED driver. It can reduce noise in dimming mode
- Fuse must be aR type, 3CH is 6A
- The power interface adds the tamper-proof coil, when dim or switch, maybe has some sound
- Temperature in the power interface may affect the accurate of temperature sensor of panel, so please note when using this data.

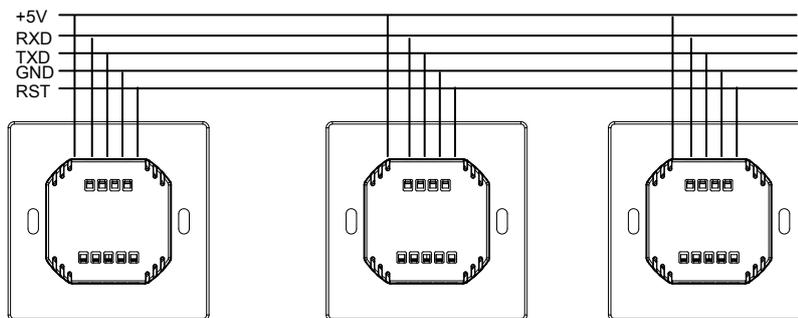
## Installation Steps

- Make sure the load supports dimming
- Make sure the working current
- Connect to power line and load
- Fix the power interface by screws in wall box
- Put the wireless panel into wireless power interface

## Layout and Wiring

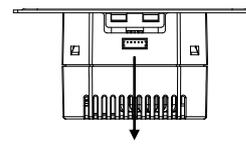


Here take EU interface as an example.



### Load requirements

1. Recommended loads for channel 1: Electronic transformer, LED driver, etc. It can reduce the noise in dimming mode. Inductive load is not allowed.
2. Channel 2 and 3 are TRIAC dimming



In parallel port

Multiple wireless power interface can be in parallel, then the panel (such as DLP) can control all channels. Shown as above, the terminal connection should avoid any mistakes.

## Safety Precautions

- If need to repair or change the lamp and fuse, must switch off the power completely
- The fuse must be aR type is 6A
- The channel 1 is forbidden to connect to inductive load
- Ensure good ventilation
- Avoid contact with liquids and aggressive gases

## Package contents

- Wireless power interface \*1 / Datasheet\*1