HDL®

Datasheet

Parameters

Electrical Parameters

Product name	1CH fire and null wire dimming 3CH fire and null wire dimming
Product number	HDL-MPWPID01LN.18 HDL-MPWPID03LN.18
Working voltage	AC85-270V 50/60Hz
Output channel	1channel/3 channels
Output current	MPWPID03LN.18: 1st channel≤1.2A , 2nd and 3rd channel total current≤2A MPWPID01LN.18: ≤1.5A
Fuse	01LN: 4A, aR type 03LN: 6A, aR type

Environment Conditions:

Working temperature	-5℃~45℃
Working relative humidity	<90%
Storage temperature	-20℃~+60℃
Storage relative humidity	<93%

Approved:

CE

RoHS

Product Information:

Dimensions	84×84×39 (mm)
Weight	128g
Housing material	Inflaming retarding nylon
Installation	EU wall box (the depth of wall box should not less than 45mm)
Protection degree	IP20
Fire and null wire	2.5mm² copper cable
Load wire	2.5mm² 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. And has 1CH and 3CH types

Functions

■ Supply DC5V power for wireless panels

■ 3CH: 1st channel is MOSFET dimming/switch
  2nd and 3rd are TRIAC dimming/switch

■ 1CH: MOSFET dimming/switch

■ Short circuit protection
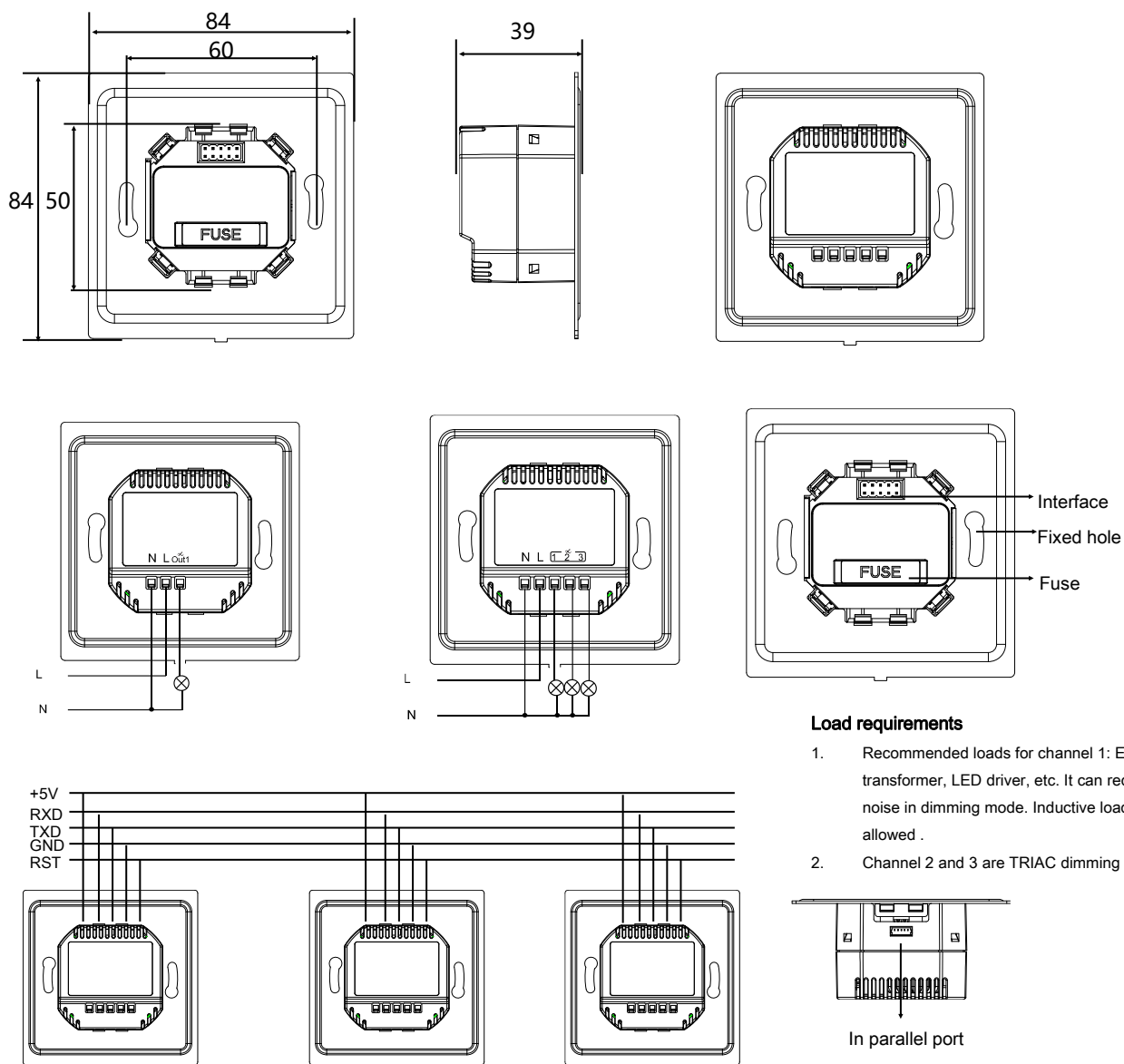
■ Over heating protection

Important Notes

■ The power interface must work with wireless panels

■ 3CH:1st channel output should not exceed 1.2A, 2nd and 3rd channel total current cannot exceed 2A

■ 1CH: Output current should not exceed 1.5A

■ 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, 1CH is 4A, 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 EU wall box

■ Put the wireless panel into wireless power interface

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Layout and Wiring

Interface
Fixed hole
Fuse

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 ⚠ WARNING

- If need to repair or change the lamp and fuse, must switch off the power completely
- The fuse must be aR type. 1CH is 4A, 3CH is 6A
- The channel 1 is forbidden to connect to inductive load
- Ensure good ventilation
- Avoid contact with liquids and aggressive gases

Packing List

- Wireless power interface *1 / Datasheet*1

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