Parameters

Electrical Parameters:
- **Product name**: 1CH single fire wire dimming
  3CH single fire wire dimming
- **Product number**: HDL-MPWPID01L.18
  HDL-MPWPID03L.18
- **Working voltage**: AC85-270V 50/60Hz
- **Output channel**: 1 channel/3 channels
- **Output current**:
  - 01L: 1CH ≤ 1.5A
  - 03L: 1st channel ≤ 1.2A, 2nd and 3rd channel total current ≤ 2A
- **Fuse**:
  - 01L: 4A, aR type
  - 03L: 6A, aR type

Environmental Conditions:
- **Working temperature**: -5°C~45°C
- **Working relate humidity**: Up to 90%
- **Storage temperature**: -20°C~+60°C
- **Storage relative humidity**: Up to 93%

Approved:
- CE
- RoHS

Production 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 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 supplies DC5V power for 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
  2nd and 3rd are TRIAC dimming/switch
- 1CH: MOSFET dimming/switch
- Short circuit protection
- Over heating protection

Important Notes

- The power interface can use without null line
- The module must work with wireless panel
- 3CH: 1st channel output current 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 these load types: transformer, fan, inductive ballast lamp, and dimming, 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
- Make sure the lamps meet the minimum load power requirement, 30W. If the connected load is less than 30W, should connect the constant current module in parallel to provide enough working current for panel. If the load supports dimming, you can also limit the max. output voltage to provide enough power for panel.
- Connect to the load.
- Make sure there is no short circuit.
- Use the fire wire to connect to the L terminal
- Fix the power interface by screws in EU wall box.
- Put the wireless panel into wireless power interface.
Layout and Wiring

Load requirements
1. To provide working voltage for the devices, channel 1 must be connected to the load.
2. Recommended loads for channel 1: Electronic transformer, LED driver etc. It can reduce the noise in dimming mode. Inductive load is not allowed.
3. Channel 2 and 3 are TRIAC dimming.
   Note: the 1CH single fire wire is only 1 channel output, it must be connected to the load, the requirements are same as 3CH's 1st channel.

Safety Precautions
- If need to install or repair this module, must contact with professional electrician.
- The device cannot switch off the load completely. During overhauling or replacing the lamps and fuses, the device must be cut the AC power supply.
- 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