

Parameters

Electrical Parameters:	
Product name	Fire and null wire for 1CH relay (With temperature) Fire and null wire for 1CH relay
Product number	HDL-MPWPIR01T.18 (EU) HDL-MPWPIR01.18 (EU) HDL-MPWPIR01T.16 (US) HDL-MPWPIR01.16 (US)
Working voltage	AC85-270V 50/60Hz
Output channel	1CH relay
Output current	16A 250VAC
Mechanical life time of relay	1×10 ⁷ times
Electronic life time of relay	5×10 ⁴ times
Fuse	2A , 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	84×84×39 (mm)(EU) 84×114×39 (mm)(US)
Weight	128g/138g
Housing material	Inflaming relative nylon
Installation	wall box (the depth of wall box should not less than 45mm)
Protection rating	IP20
Fire and null wire	2.5mm ² copper cable
Load wire	2.5mm ² copper cable

FAQ

- 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 relay, works with wireless panel, and has 1CH relay output. This power interface has two type: with temperature and without temperature. There are two sizes, EU and US.

Functions

- Supply DC5V power for wireless panels
- 1CH relay output
- Measure the temperature (This is the proprietary function for MPWPIR01T.18)
- Power protection

Installation Steps

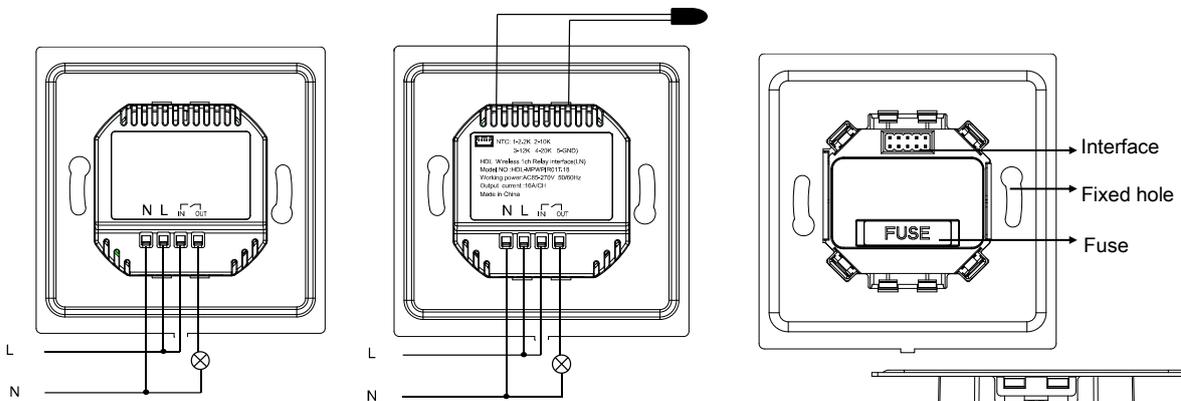
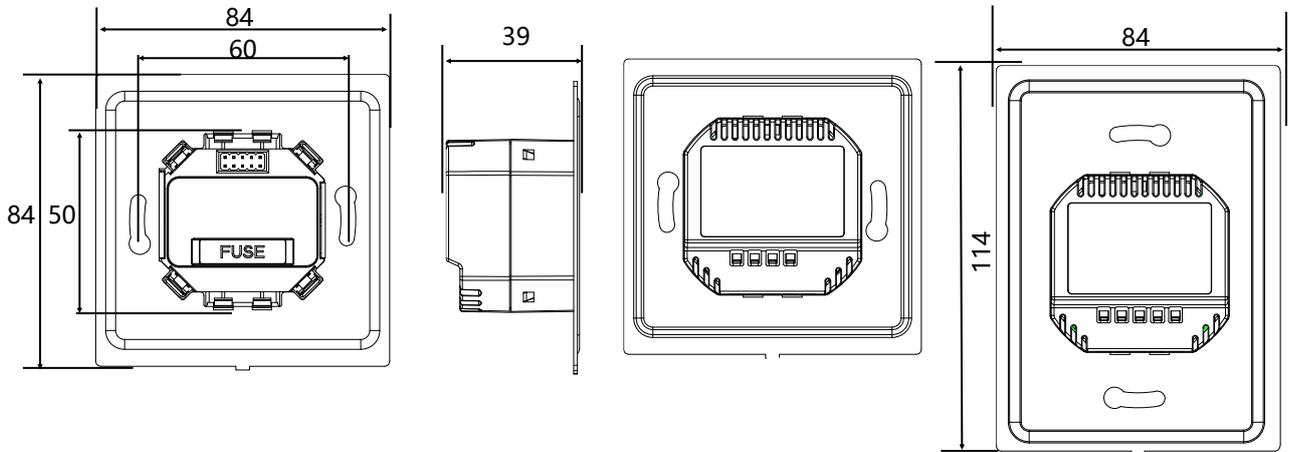
- Make sure the working current
- Connect to the load, make sure there is no short circuit
- Connect to the power supply
- Fix the power interface by screw in wall box
- Put the wireless panel into wireless power interface

Important Notes

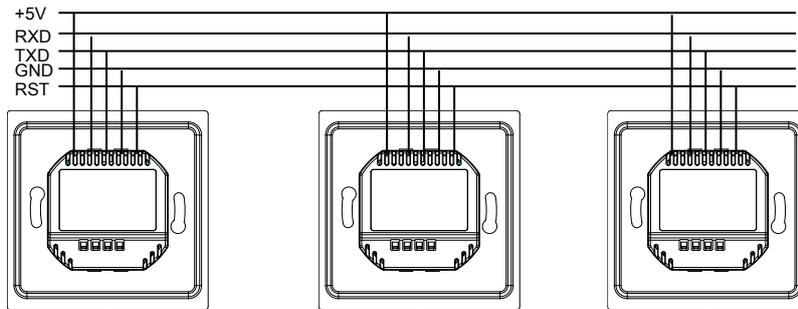
- The module must work with wireless panel
- The output current cannot exceed 16A
- It can only connect one simulation temperature probe
- Fuse must be 2A aR type
- If need to repair or change the load and fuse, must switch off the power completely
- The power interface adds the tamper-proof coil, when switch, maybe has some sound
- Recommended load type and power:

Motor: 4HP (1HP=746W)	
Inductive transformer:	1800 W
Electronic transformer:	2000 W
Halogen lamp 220V:	3500 W
Incandescent lamp load:	3500W
Mercury-vapour lamp	
*Uncompensated luminaire:	2800W
*Parallel compensated:	2800W
Fluorescent lamp T5/T8	
*Uncompensated luminaire:	3500W
*Parallel compensated:	2000W
*DUO lamp:	2000W
DULUX lamp	
*Uncompensated luminaire:	1500W
*Parallel compensated:	1500W

Layout and Wiring



Here take EU interface as an example.



NTC R(22K, 10K, 12K, 20K, GND)

This is the resistance value of 25°C, users can be according to the requirements to select the port

Note:

MPWPIR01T.18: When connects to temperature probe, it is only connect to one of channels. It doesn't have the parallel connection function, it can only connect to the temperature probe.

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 2A aR type
- Output current cannot exceed the rated current
- Do not let the module come into contact with liquids.
- Ensure that the module is installed in an area with good ventilation.

Package contents

- Wireless power interface *1 / Datasheet*1