### 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:** 1×10⁷ times
- **Electronic life time of relay:** 5×10⁴ 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:** 2.5mm² copper cable
- **Load wire:** 2.5mm² copper cable

### 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

### 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.
Layout and Wiring

- 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.

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