HDL-MPWPIR01T.18(16)-A

1CH Wireless Switch Power Interface EU(US) with Temp. Sensor (L+N Type)

buspro WIRELESS

**Datasheet**

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Figure 1. HDL-MPWPIR01T.18-A



Figure 2. HDL-MPWPIR01T.16-A

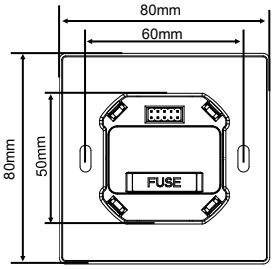



Figure 3. Dimensions - Front View

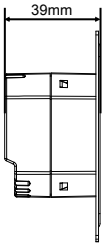



Figure 4. Dimensions - Side View

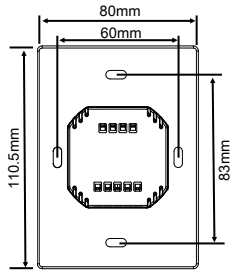



Figure 5. Dimensions - Back View

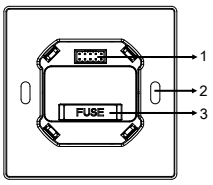



Figure 6. Components - Front View

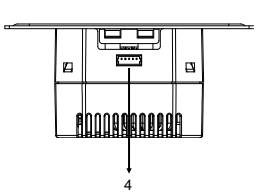



Figure 7. Components - Side View

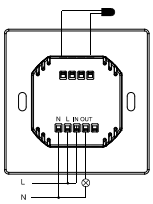



Figure 8. Wiring (1)

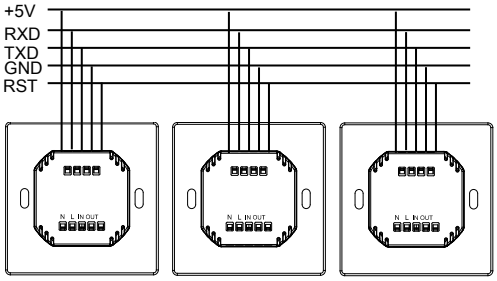



Figure 9. Wiring (2)

## Overview

1CH Wireless Switch Power Interface EU(US) with Temp. Sensor (L+N Type) (See Figure 1 - 2) is used in conjunction with the wireless panel and provides working voltage for wireless panel. With temperature sensor, the power interface has 1CH relay output and can be divided into two specifications: European standard and American standard.

## Functions

- Provides DC 5V working voltage for wireless panels
- 1CH relay output
- Temperature measurement
- Overheat protection for power interface chip

## Important Notes

- The panel must be wall box mounted.
- The wireless power interface must work in conjunction with wireless panel.
- Maximum output current: 16A
- When connecting an analog temperature probe, only one of them can be connected.
- The temperature probe is a NTC thermistor, which supports 20K, 12K, 10K, and 2.2K resistors. Only one of them can be used.
- The newly replaced fuse must be the same type as that of 2A quick fuse (aR type).
- The device is in-built with an anti-radio interference coil that has a slight sound when the dimmer switch is controlled.

## Product Information

**Dimensions - See Figure 3 - 5**

**Components - See Figure 6 - 7**

**1. Interface:** Connects to the panel

**2. Hole for fixing screw**

**3. Fuse**

**4. NTC thermistor:** NTC R (2.2K, 10K, 12K, 20K, GND) are the resistance value at 25℃, and the customer can choose the port according to the actual use. When connecting an analog temperature probe, only one of them can be connected. There is no parallel function, only the temperature probe can be connected.

**Wiring - See Figure 8 - 9**

**Note:** As shown in Figure 8, multiple wireless power interfaces can be connected in parallel and all channels are controlled by a multi-button panel, such as DLP panel. The terminals must be connected correctly.

**FAQ**

If the wireless power interface cannot supply power and the panel cannot work properly, please try the following operations:

1. Separate the panel and wireless power interface, and install again, then check.
2. If the panel cannot work properly, check the fuse.
3. Use multimeter to measure the voltage of the wireless power interface and panel. If the voltage is not DC5V (±1V), the wireless power interface is damaged.

**Installation - See Figure 10**

Step 1. Install the wall box in the wall.

Step 2. Fix the power interface onto the wall box with screws.

Step 3. Hold the edge of the panel, and insert the panel in the slots of power interface vertically.

## Safety Precautions

- The power input to the device must be completely disconnected when servicing or replacing the lights and fuse.
- The newly replaced fuse must be a fast fuse of type aR less than or equal to 2A.
- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device should be installed in wall box. HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

## Package Contents

HDL-MPWPIR01T.18(16)-A*1 / Datasheet*1 / Screw*4 (Long screw*2 and short screw*2) / Cable(15cm)*1

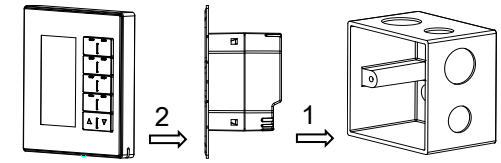



Figure 10. Installation

# Technical Data

## Basic Parameters

| | |
|---|---|
| Input voltage | AC100-240V (50/60Hz) |
| Output channel | 1CH relay output |
| Output current | 16A |
| Mechanical life time of relay | $1\times10^5$ times |
| Electronic life time of relay | $1\times10^5$ times |
| Fuse | 2A, aR type |

## External Environment

| | |
|---|---|
| Working temperature | -5℃~45℃ |
| Working relative humidity | ≤90% |
| Storage temperature | -20℃~60℃ |
| Storage relative humidity | ≤93% |

## Specifications

| | |
|---|---|
| Dimensions | 80×80×39 (mm) (EU)<br>80×110.5×39 (mm) (US) |
| Net weight | 128g (EU)<br>138g (US) |
| Housing material | Flame-retardant nylon, iron |
| Installation | Wall box (See Figure 10) (The depth of the wall box is not less than 45mm.) |
| Protection rating (Compliant with EN60529) | IP20 |
| Fire and neutral wire | 2.5mm² copper cable |
| Load wire | 2.5mm² copper cable |

## Name and Content of Hazardous Substances in Products

| Components | Hazardous substances | | | | | |
|---|---|---|---|---|---|---|
| | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Chromium VI (Cr (VI)) | Poly-brominated biphenyls (PBB) | Poly-brominated diphenyl ethers ( PBDE ) |
| Plastic | o | o | o | o | o | o |
| Hardware | o | o | o | o | - | - |
| Screw | o | o | o | × | - | - |
| Solder | × | o | o | o | - | - |
| PCB | × | o | o | o | o | o |
| IC | o | o | o | o | × | × |

The symbol “-” indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol “×” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

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