HDL-MPWPIR03.18(16)-A

3CH Wireless Switch Power Interface EU(US) (L+N Type)

buspro WIRELESS

**Datasheet**

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Figure 1. HDL-MPWPIR03.18-A



Figure 2. HDL-MPWPIR03.16-A

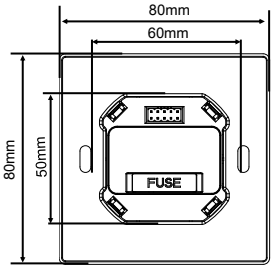



Figure 3. Dimensions - Front View

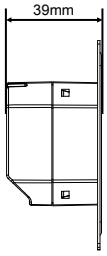



Figure 4. Dimensions - Side View

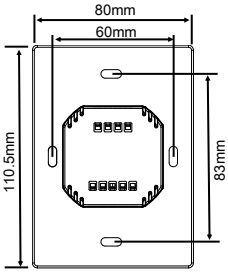



Figure 5. Dimensions - Back View

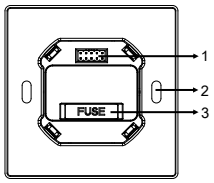



Figure 6. Components - Front View

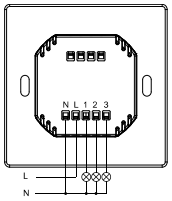



Figure 7. Wiring (1)

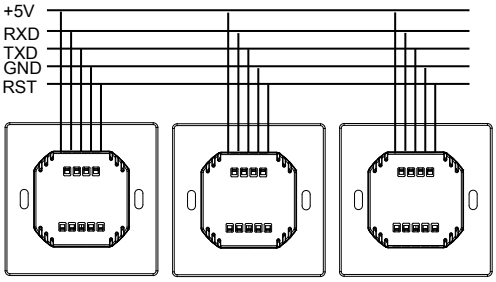



Figure 8. Wiring (2)

## Overview

3CH Wireless Switch Power Interface EU(US) (L+N Type) (See Figure 1 - 2) is used in conjunction with the wireless panel and provides working voltage for wireless panel. The power interface supports 3CH relay output and can be divided into two specifications: European standard and American standard.

## Functions

- Provides 5V DC working voltage for wireless panels.
- 3 wireless relay output channels.
- Power protection.

## Important Notes

- The wireless power interface must work in conjunction with wireless panel.
- The output current cannot exceed 3A.
- The newly replaced fuse must be the same type of 10A fuse.
- The power must be completely disconnected when servicing or replacing lamps and fuses.

## Product Information

**Dimensions - See Figure 3 - 5**

**Components - See Figure 6**

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

**2. Hole for fixing screw**

**3. Fuse**

**Wiring - See Figure 7 - 8**

**Note:** The wiring diagram takes the 3CH Wireless Dimming Power Interface (EU) as an example. As shown in Figure 8, multiple wireless power interfaces can be connected in parallel and all channels are controlled by a multi-button panel, for example 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 following operations:

1. Separate the panel and wireless power interface, and install again, then check.
2. If the panel still does not work properly, check if the power interface wiring is loose.
3. Check if the wireless power interface fuse is damaged
4. Use universal meter to measure the voltage of the wireless power interface and panel. If the voltage is not DC5V (±1V), then the wireless power interface is damaged.

- When the relay is always on, it is possible that the relay is stuck, and you need to replace the power interface.

**Installation - See Figure 9**

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

- This device does not completely shut down the lights and other loads, so the power input to the device must be completely disconnected when servicing or replacing the lights and fuse.
- 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-MPWPIR03.18(16)-A*1 / Datasheet*1 / Screw*4 (Long screw*2 and short screw*2)

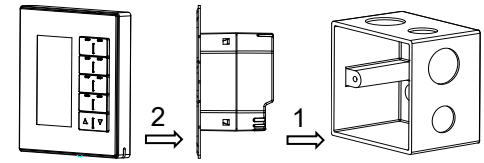



Figure 9. Installation

# Technical Data

## Basic Parameters

| | |
|---|---|
| Input voltage | AC100-240V (50/60Hz) |
| Output channel | 3 relay channels |
| Output current | 3A/CH (resistive load)<br>2A/CH (capacitive load) |
| Mechanical life time of relay | $1\times10^5$ times |
| Electronic life time of relay | $1\times10^5$ times |
| Fuse | 10A, 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 9) (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 diphe-nyl 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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