HDL-MPWPIR01T.18(16)-A

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

buspro WIRELESS

Datasheet

Issued: September 5, 2019

Edition: V1.0.0



Figure 1. HDL-MPWPIR01T.18-A



Figure 2. HDL-MPWPIR01T.16-A

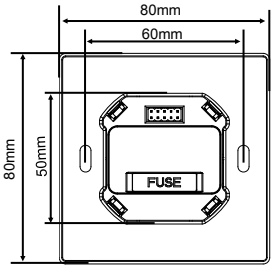


Figure 3. Dimensions - Front View

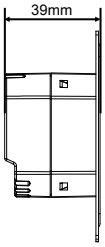


Figure 4. Dimensions - Side View

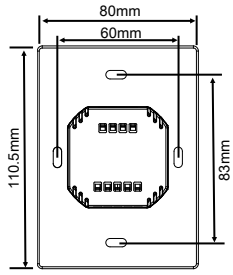


Figure 5. Dimensions - Back View

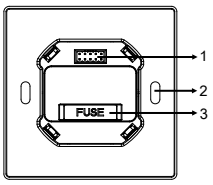


Figure 6. Components - Front View

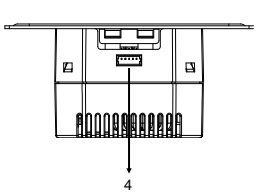


Figure 7. Components - Side View

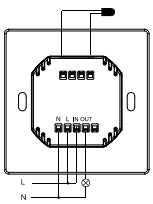


Figure 8. Wiring (1)

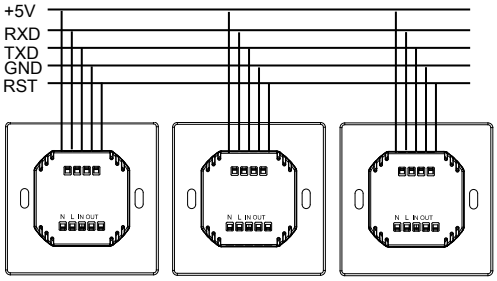


Figure 9. Wiring (2)

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

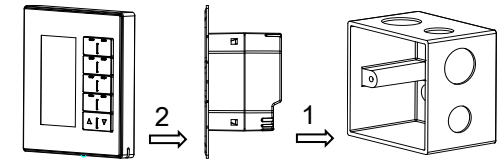


Figure 10. Installation

Technical Data

Basic Parameters

Input voltage	AC100-240V (50/60Hz)
Output channel	1CH relay output
Output current	16A
Mechanical life time of relay	1×10^5 times
Electronic life time of relay	1×10^5 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) 80×110.5×39 (mm) (US)
Net weight	128g (EU) 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.

ЧТУП «ОллВижн»

г. Минск, ул. Богдановича, 11
+375 33 370 20 20, +375 29 370 20 20
info@allvision.by
hdl.by
ТЕХНИЧЕСКАЯ ПОДДЕРЖКА: **+375 29 7 511 611**

©Copyright by HDL Automation Co., Ltd. All rights reserved.
Specifications subject to change without notice.