HDL®

Datasheet

MOSFET Power Amplifier
HDL-MDB0210.433

Parameters

Electrical Parameters:	
AC power input	AC110/230V
Output channel	2CH,10A/CH
Maximum output channel current in total	16A
Dimming mode	Trailing edge
Environmental Conditions:	
Working temperature	-20℃~45℃
Working relative humidity	Up to 90%
Storage temperature	-20℃~+60℃
Storage relative humidity	Up to 93%
Approved	
CE	
RoHS	
Product Information:	
Dimensions	216×90×66 (mm)
Weight	540.5(g)
Housing material	Nylon, PC, Aluminum alloy
Installation	35mm Din Rail installation
Protection degree	IP20

Safety precautions

WARNING

- Make sure that the power supply is disconnected before installation
- The ground terminal (PE) should be connected
- Make sure the working temperature does not exceed 50 ℃
- Tightening torque does not exceed 0.4Nm
- Power cable:2.5mm² ~4mm²
- Load cable:2.5mm²
- Installation Position: Distribution box (DB)
- Ensure good ventilation
- Avoid contact with liquids or corrosive gases
- Connection check: check that all connections are properly connected after installation
- Can not connect inductive load, such as transformer, motor, fan, inductance ballast
- Output circuit : the current per circuit shall not exceed 10a, the total current should not exceed 16A

Overview



HDL-MDB0210.433 Mosfet power amplifier, work in conjunction with dimming module, used to increase the output current of the dimming module. It has 2 output channels and manual switch is available for each channel. And it has short circuit protection and over heat protection.

Functions

- Mosfet dimming mode
- It must work in conjunction with dimmer
- Each output channel has LED status indicator and manual control switch
- It has short circuit protection and over heat protection
- When the temperature of the aluminum alloy radiator on the mosfet power amplifier reaches 80℃, the output power starts to decrease; when it reaches 85℃, stop to output power; when it goes down to 80℃, the output power starts to work again
- Two output channels can be combined into one channel, the output current increase to 16A (The input is the first channel)

Installation Steps

- 35mm DIN rail installation, can be clipped into the DIN rail inside DB Box
- Connect to the input terminal of dimmer
- Check if there is any short circuit in output connection cable
- Organize the identification cable and separate high and low voltage cables

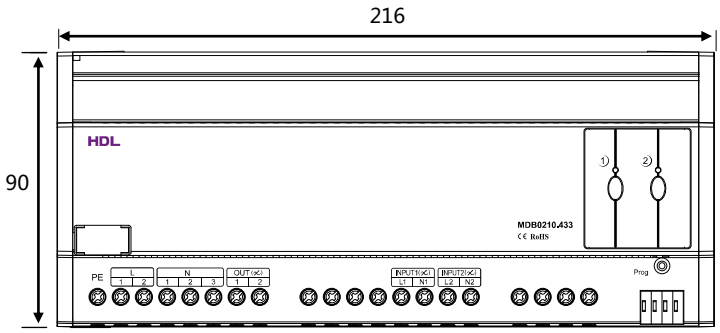
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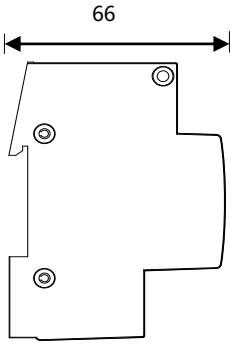
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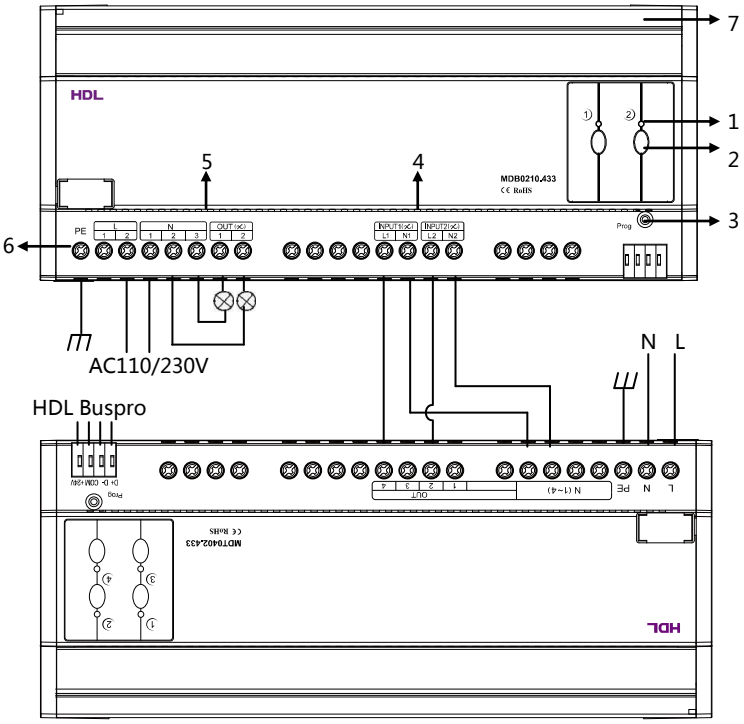
Dimensions and Wiring



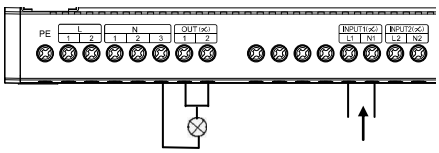
Front View



Side View



Dimmer，take MDT0402.433 as an example



Combine the output channels

1.LED Indicator, shows the status of the channel , The first channel and second channel both have a indicator.
2.Manual switch, the first channel and the second channel both have control button, long pressing can dim the light.
3.Proggramming button and indicator.
4. Input terminal, voltage input range is 0-240VAC, support leading edge mode and trailing edge mode.
5. Output terminal, connects the load
6.Power, support 110V and 230V, 110V(85-132V) and 230V(160-250V) .It is selectable when using, the default setting is AC230V.
7.The aluminum alloy radiator.

Operation instruction:

Power options:

Press the PROG and two manual dimming switch at the same time, the dimmer will change the working voltage after five seconds, and then the third indicator change it' s color.

Red and green means AC110V.

Green means AC230V.

Combine the output channels:

Press the PROG for 5 seconds until the indicator 3 flickering quickly, two output channels will be combined into one channel which supplies 16A. Such as the left picture.

Press the PROG for 5 seconds until the third indicator flickering slowly, the output channel will be separated into two channels.

Package contents

- Datasheet *1/ Device *1

Contact us

HDL Limited Warranty- HDL warrants this product for a period of 2 years from the date of purchase. This product will be free from defects in material & workmanship, and perform in conformity with its User Manual. Any improper use or neglect will void this warranty.
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