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.

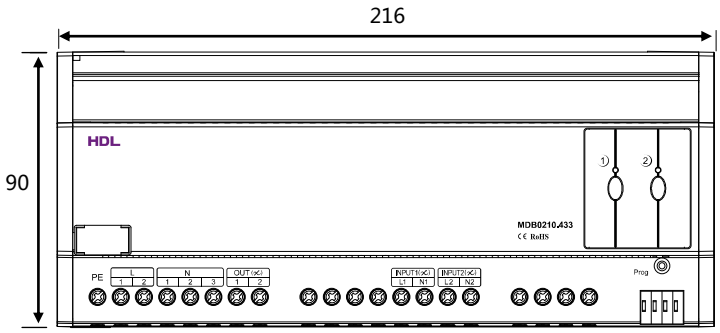
Functions

- 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)

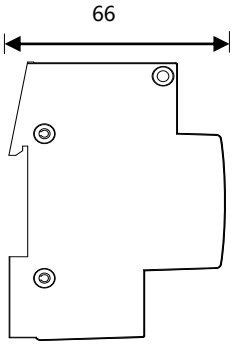
Installation Steps

- 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

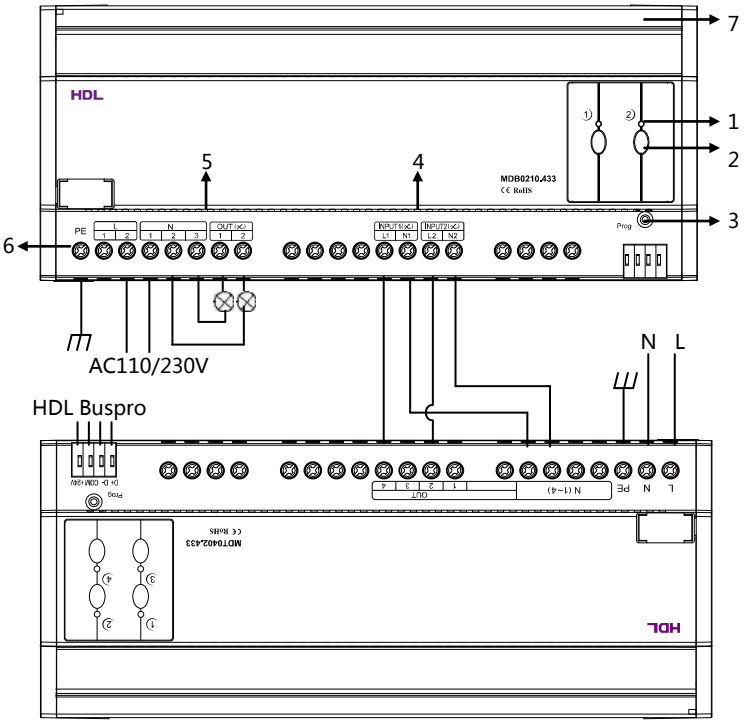
Dimensions and Wiring



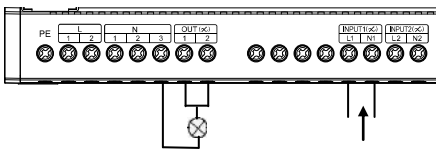
Front View



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

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