

Parameters

Electric Parameters:	
AC power input	AC110V/ 230V, 60/50Hz
Working power	12~30VDC
Power consumption	20mA/DC24V
Output channel	4CH/5A
Maximum output channel current in total	20 A
Dimming curves	Linear, 1.5 exponent, 2.0 exponent , 3.0 exponent
Dimming mode	Leading edge
Environmental Conditions:	
Working temperature	-5°C~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°C~+60°C
Storage relative humidity	Up to 93%
Approved	
CE	
RoHS	
Production Information:	
Dimensions	216×90×66 (mm)
Weight	
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection degree	IP20

Important Notes

- Bus cable - HDL Buspro/KNX cable, 0.8mm single-core copper cable
- Bus connection - Series connection (hand-in-hand)
- Connect checking – Check all connection after installation
- Output channel – Maximum current of each channel is 5A
- Load type – Incandescent light, halogen, Dimmable LED Light etc. The load must be suitable for leading edge dimming
- Make sure the working temperature of the Dimmer is lower than 50 °C
- Each channel must be connected to a 10A aR fast fuse to protect the dimmer from short circuit

HDL Buspro Definition for Cable

HDL Buspro	HDL Buspro/KNX
DC24V	Red
COM	Black
DATA-	White
DATA+	Yellow

Overview



HDL - MD0405.433 is the TRIAC leading edge dimmer. It has 4 output channels. Each channel has a manual button. And it has over heat protection.

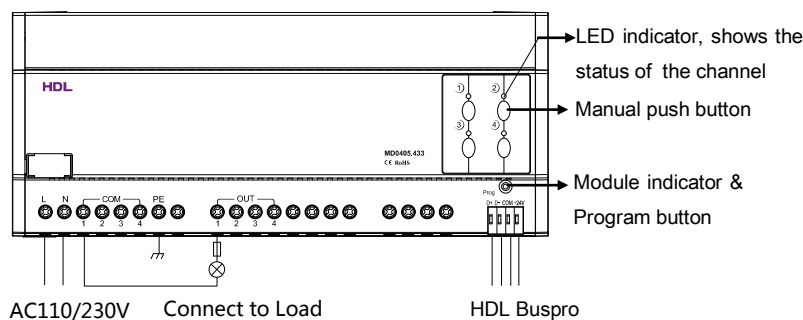
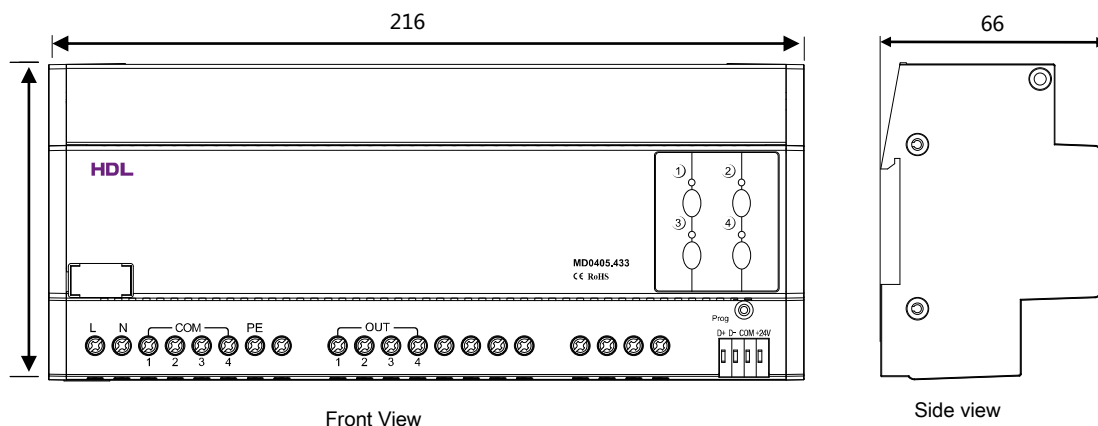
Functions

- Each output channel has an LED status indicator and a manual button
- Maximum 4 separate areas and each area has 12 scenes
- Maximum 4 sequences and each sequence has 12 steps
- Low level, High level, Maximum level are all available for each channel
- User can choose to start with the preset scene or the previous scene when comes back after power off
- Over heat protection
- Temperature reading
- 4 dimming curves , 512 dimming steps
- Supports to HDL Buspro online upgrading
- Supports to easy programming

Installation Step

- 35mm DIN rail Installation, inside DB Box
- Connect the load and HDL Buspro, check if there is any short circuit in output connection cable
- Check the HDL Bus proconnection, avoid any mistake
- Mark up each output connection cable, separate high power and low power cable

Dimensions and Wiring



Indicator for module and easy programming mode

Indicator: Flickers when the module is working properly. Keep pressing the indicator for 3 seconds, it turns red, then can read and modify the address of the module in the HDL Bus Pro set up software.

Steps for easy programming mode:

1. Keep pressing the module indicator for 20S, all output channel will be turned off automatically, indicator will flicker fast.
2. Press Button 9 and 10 of DLP switch together to enter programming mode.
3. Turn on the channel which needs to program by using the bypass button.
4. Choose a button, which is used to control the channel which selected in step 3.
5. Press the indicator again, finish the programming.

This function is to be used with the new generation of DLP.

Safety attention



- Make sure the working temperature of the dimmer does not exceed 50 °C
- Each channel must be connected to 10A aR fast fuse, each channel should not exceed 5A
- The screw down strength should not exceed 0.4Nm
- Power cable: AC in: 4mm²
- Load cable: 1.5mm² ~2.5mm²
- Installation position: Distribution box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface in this module
- Do not get AC240V voltage into Bus wire, it will damage all devices in the system
- Ensure good ventilation
- Avoid contact with liquids and aggressive gases

