Parameters

Electrical Parameters:

Power input	AC110/240V
Working power	DC12~30V
Power consumption	25mA/DC24V
Output channel	2CH/3A
Maximum output channel current in total	6A
Dimming mode	Leading edge, trailing edge
Dimming curves	Linear, 1.5 exponent, 2.0 exponent, 3.0 exponent

Environmental Conditions:

Working temperature	-5℃~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	851.5(g)
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection degree	IP20
Power cable	AC in: 2.5mm^2 ~4mm^2
Load cable	1.5mm^2 ~2.5mm^2
Installation position	Distribution Box (DB)

Important Notes

- Buspro cable – CAT5E or HDL Buspro/KNX cable, 0.8mm single–core copper cable
- Buspro connection - Series connection (hand-in-hand)
- Connect checking – Check all connection after installation
- Output channel – Maximum current of each channel is 3A
- Load type - Incandescent light, halogen, dimmable LED light, etc.
- Make sure the working temperature of the Dimmer does not exceed 50 ℃
- Trailing edge Mode is not allowed when there is inductive load
- Leading edge mode is recommended for inductive load

Overview

HDL-MDT0203.433 Dimmer is based on the technology of MOSFET. It has 2 output channels and manual switch is available for each channel. Each channel can choose leading edge or trailing edge by software. This is very useful when user has different type of loads. And it has short circuit protection and over heat protection

Functions

- Each output channel has LED indicator for status and manual switch
- Maximum 2 separate areas, and maximum 12 scenes can be set for each area
- Maximum 6 sequences, and 12 steps for each sequence
- Each channel can choose leading edge or trailing edge
- Low Threshold, High Threshold, Maximum Threshold are all available for each channel
- You can select specified scene or scene before power off when the device restarts
- Short circuit and over heat protection
- 4 dimming curves
- Supports online upgrading

Installation Steps

- 35mm DIN rail installation, inside DB Box
- Mark up each output connection cable
- Connect the load and HDL Buspro
- Check if there is any short circuit in output connection cable
- Check the HDL Buspro connection, avoid any mistake
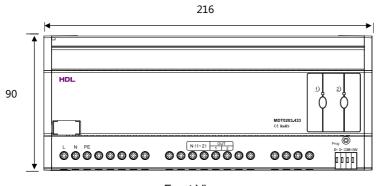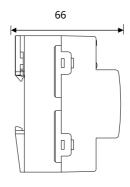- Isolate the high voltage and low voltage cable

HDL Buspro Definition for Cable

HDL Buspro	HDL Buspro/KNX	CAT5/CAT5E
COM	Black	Brown White/Orange White
DATA-	White	Blue White/Green White
DATA+	Yellow	Blue/Green
DC24V	Red	Brown/Orange

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Dimensions and Wiring

Front View

Side View

AC110/240V

Connect to load

HDL Buspro

LED Indicator, shows the status of the channel

Manual Switch

Module Indicator, it flickers when the module is working properly. Keep pressing for 3 seconds, user can read and modify the address of the module in the HDL Buspro software.

Safety Precautions ⚠ WARNING

- (PE) should be connected
- Make sure the working temperature of the dimmer does not exceed 50 ℃
- Current in each channel should not exceed 3A
- The screw down strength should not exceed 0.4Nm
- Do not make wrong connection on Buspro interface, it will damage the Buspro interface of this module
- Do not get AC240V voltage into Buspro wire, it will damage all devices in the system
- Ensure good ventilation
- Avoid contact with liquids and aggressive gases

Packing List

Datasheet	×1
MOSFET Dimmer (HDL-MDT0203.433)	×1

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