HDL®

Parameters

Electrical Parameters:	
Working power	DC15~30V
Power consumption	28mA/DC24V
Output channel	4CH/3A
Maximum output channel current in total	10A
Fuse	8A
TRIAC	25A TRIAC, Minimum Load 40w
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	144×90×66 (mm)
Weight	715(g)
Housing material	nylon
Installation	35mm DIN rail installation
Protection degree	IP20
Power cable	AC in: 2.5mm² ~4mm²
	Load:1.5mm² ~2.5mm²
Installation Position	Distribution Box (DB)

Installation Step

- 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
DC24V	Red
COM	Black
DATA-	White
DATA+	Yellow

Overview

HDL-MD0403.432 4-channel 3A Dimmer , supports AC240V and AC110V power input. It has 4 output channels, each channel has a bypass button for manual control. There is fuse protection for each channel, the Dimmer will be protected in case of short circuit. LED indicator will show you which channel has short circuit
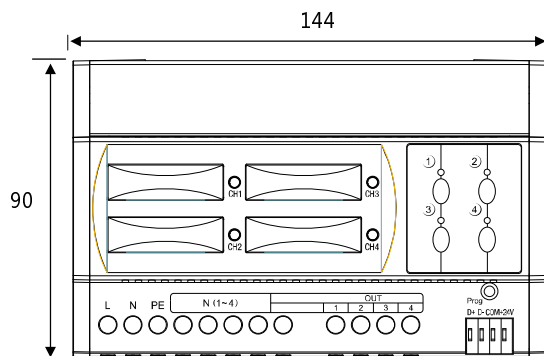
Functions

- Up to 4 separate areas; max 12 scenes for each area
- Up to 6 sequences and each sequence has 12 steps
- 4 Dimming curves, the dimming accuracy is 512 step
- Low, high, max threshold for each channel
- Bypass button for manual control available for each channel
- It is optional setting of choosing a designated scene or back to previous scene when power on again after power off
- Short circuit and over heat protection
- Max 3A of each channel, 8A fuse of each channel for protection (aR type)
- Supports HDL Buspro Pro online upgrading and easy programming mode
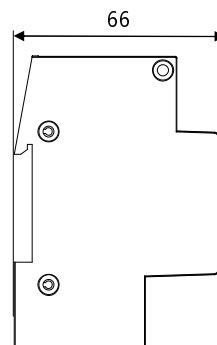
Important Notes

- Buspro cable - HDL Buspro/KNX cable, 0.8mm single-core copper cable
- BUSPRO Connection - Series connection (hand-in-hand)
- AC power - Make sure input AC voltage match with setting in dimmer module
- Connect checking – Check all connection after installation
- Output Channel – Current of each channel can not exceed the prescribed current
- Fuse - The fuse to replace the broken one must be of the same type(aR type)
- Load type – Incandescent light, halogen, LED Light , etc
- The load must be suitable for leading edge dimming
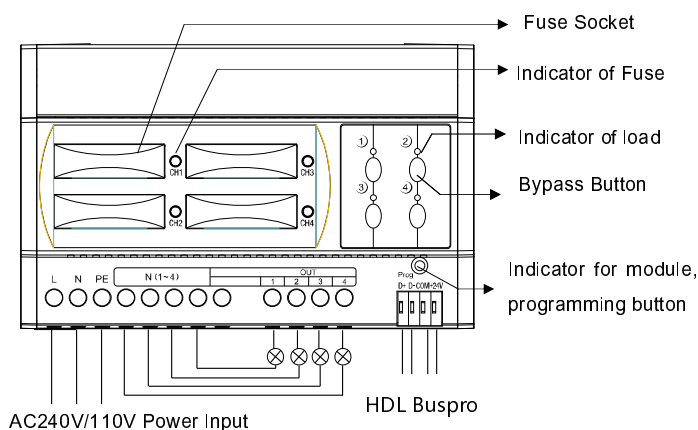- Make sure the working temperature of the Dimmer does not exceed 50 ℃

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Dimensions and Wiring

144

90

MD00403.432

66

Side view

Fuse Socket

Indicator of Fuse

Indicator of load

Bypass Button

Indicator for module, programming button

AC240V/110V Power Input

HDL Buspro

Indicator for module and easy programming mode

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

Steps for easy programming mode:

1 Press the programming button for about 20S , all output channels will be turned off automatically , the indicator will flicker fast.

2 Press the 9 and 10 button 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.

5 Press the indicator again, finish the programming.

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

Safety Precautions

⚠ WARNING

■ Fuse must be aR type, and current of each channel can not exceed the prescribed current

■ **Turn off the power of Dimmer when replace Fuse**

■ (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

■ Never let liquids get into the module. It will damage this device

■ 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

■ Leading Edge TRIAC Dimmer (HDL-MD0403.432)   ×1

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