## Parameters

### Electrical Parameters:

| | |
|---|---|
| Buspro Working Voltage | DC15~30V |
| Buspro Power Consumption | 30mA/DC24V |
| Relay Channel Output | 6CH/10A |
| 0-10V Output | 6CH/10mA (Total current is less than 100mA) |

### 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 | 449.5(g) |
| Housing Material | Nylon, PC |
| Installation | 35mm DIN rail installation |
| Protection | IP20 |

## Important Notes

- Buspro cable - HDL Buspro/KNX cable, 0.8mm single-core copper cable
- Buspro Connection - Series connection (hand-in-hand)
- Load in each channel – less than 800w Dimmable Fluorescent Tube
- 0-10V Load-Output in each channel is 100mA, total in 6 channels are less than 300mA
- Extra Power Input - 0-10V Output needs to connect a Exterior 24V DC Power supply. Power supply from HDL Buspro is not allowed
- Each channel needs to connect a breaker or fuse for protection
- Installation Position: Distribution Box (DB )

## HDL Buspro Definition for Cable

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

## Overview



HDL-MRDA0610.432 6 channel 10A DC0 - 10V output module is a multifunction control module. It has 6 channel relay outputs, which suitable for on/off control. It has also 6 channel 0-10V analog signal outputs (support input and output). which is suitable for controlling the 0-10V Dimmable fluorescent Tube, 0-10V LED light , etc. The module is to be used in lighting , on/off control in the application of office and building.
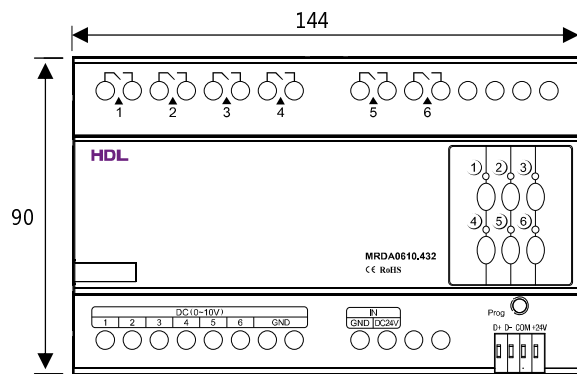
## Functions

- Up to 6 separate areas, max 12 scenes in each area
- Up to 6 sequence, each sequence has 12 steps , running time for each step is 60 minutes, the sequence has 4 running modes: "forward", "backward", "forward and backward", "random"
- Low, high, max threshold for each channel, suitable for different load
- 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
- Easy program mode is available
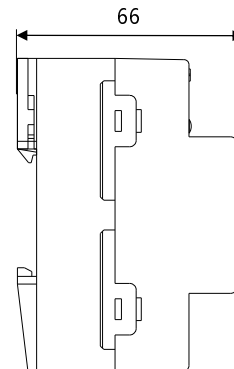- Support HDL Buspro online upgrading

## Installation Step

- 35mm DIN rail installation, inside DB Box.
- Connect Load, 0-10V cable, HDL Buspor cable.
- Check the HDL Buspro connection, avoid any mistakes.
- Check the load connection and also 0-10V , make sure the positive and negative poles are connected correctly.
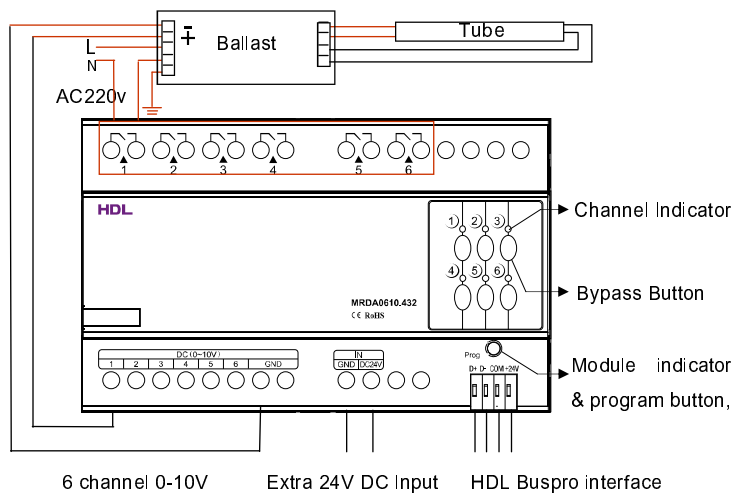
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## Dimensions and Wiring

144

90

66

Front View

Side view

Ballast

Tube

L
N
AC220v

Channel Indicator

Bypass Button

Module indicator & program button,

6 channel 0-10V    Extra 24V DC Input    HDL Buspro interface

Note：Take the connection of channel 1 as an example

**Indicator for module and easy program 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 set up software.

**Steps for easy program mode:**

1   Keep pressing the module indicator for 20S , all output channels will be turned off automatically , indicator is flickering fast.

2   Press button 9, 10 of DLP switch together to enter programming mode.

3   Turn on the channel which needs to be programmed by using the bypass button

4   Choose a button  to be used to control the channel 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 precaution ⚠ WARNING

- ■ Each channel needs to connect breaker or fuse for protection
- ■ The screw down strength should not exceed 0.85Nm
- ■ 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 AC power into Bus wire , it will damage all devices in the system
- ■ Avoid contact with liquids and aggressive gases

## Packing List

- ■ Datasheet*1 /  HDL-MRDA0610.432*1

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