

Parameters

Electrical Parameters:

Working power	24~30VDC
Static power consumption	10mA/DC24V
Dynamic power consumption	35mA/DC24V
Output channel	8CH/16A
Relay	50A magnetic latching relay
Max current in each channel	16A
Electronic life time of relay	>60000 (Resistance Load)
Protection	Connect a breaker in each channel

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

Product Information:

Dimensions	144×90×66 (mm)
Weight	567(g)
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Protection degree	IP20
Installation position	Distribution Box (DB)

Important Notes

- Buspro cable - HDL Buspro/KNX cable, 0.8mm single-core copper cable.
- Buspro connection - Series connection (hand-in-hand)
- Output channel - The following list is the recommended load for output channel. To protect the relay, please connect a 16A breaker for each channel.
- Recommended load type and power

Motors:	4H (1HP=746W)
Incandescent lamp load:	3500 W
Inductive transformer :	1800 W
Electronic transformer:	2000 W
Halogen lamp 220 V	3500 W
Mercury vapor lamp	
* Uncompensated lamp :	2800 W
* Parallel compensated lamp :	2800 W
Fluorescent lamp T5 / T8	
* Uncompensated lamp :	3500 W
* Parallel compensated lamp :	2000 W
* DUO lamp :	2000 W
Dulux lamp	
* Uncompensated lamp :	1500 W
*Parallel compensated lamp :	1500 W

Overview



HDL-MR0816.432 Intelligent Relay Module, has 50A magnetic launching relay, zero power consumption and high reliability. The communication interface is HDL Buspro Pro , which is based on RS485 protocol.

Functions

- 8-channel relay output unit.
- Scene controller function available.
- Up to 8 separate areas, each area has 16 scenes with maximum running time of 60 minutes.
- Each area has 2 sequences, each sequence has 12 steps.
- Each channel has light protection delay (0-60 minutes).
- Each channel has batch turn-on delay(0-25 seconds).
- Each channel has manual control for relay unit.
- You can select specified scene or scene before power off when the device restarts.
- Supports easy programming and HDL Buspro online upgrading.
- Communication: HDL Buspro.

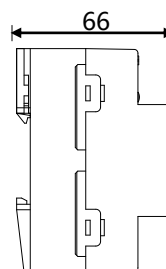
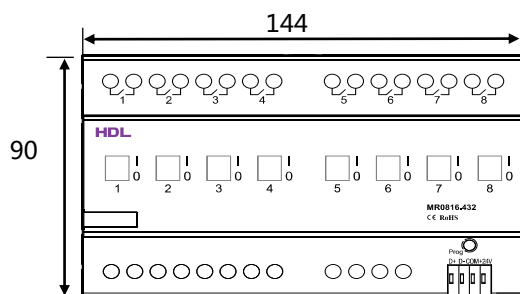
Installation Steps

- 35mm DIN rail Installation, inside DB Box.
- Make up for each output connection cable
- Connect the load and HDL Buspro cable.
- Check if there is any short circuit in output connection cable.
- Check the HDL Buspro connection, avoid any mistake.
- Isolate the high power and low power.
- Tighten the screw again for all terminals.

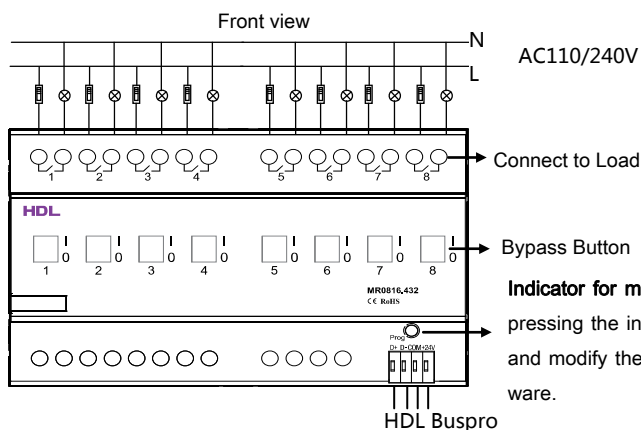
HDL Buspro Cable Guide

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

Dimensions and Wiring



Side view



Steps for easy programming mode:

- Pressing the programming button for about 10s, all output channel will be turned off automatically, indicator will flicker fast, enter easy programming mode.
- Now the panel shows "programming", then press Button 9, 10 of DLP switch together, the panel will display "external programming".
- Keep pressing the indicator for 2s, change the load, short press the indicator will change the load's status.
Note: The programming channel is from channel 1 to channel 8, and then it will go back to the channel 1. If you want to set multiple channels, the panel must be set to "Combination mode".
- Choose a button which is used to control the channel. Keep pressing the button, it will cover the original targets, short press the button, it will add the relay loads.
- Keep pressing the Indicator for 10 seconds to finish the programming.

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

Safety Precautions



- The screw down torque should not exceed 0.4Nm.
- Connect a breaker or fuse with each channel.
- Current in each channel is less than 16A.
- Ensure good ventilation.
- Ensure that the Buspro interface is correctly connected to the module.
- Do not connect the module to AC power.
- Do not let the module come into contact with hazardous liquids or corrosive gases.

Package contents

- | | |
|-------------------------------------|----|
| ■ Datasheet | ×1 |
| ■ 16A Relay Module (HDL-MR0816.432) | ×1 |

