

## Features

HDL-MR0410.431 Intelligent Relay Module, has 16A launching relay inside, Zero power consumption and has a high reliability. The relay has HDL Bus Pro interface for communication, which is based on RS485 protocol. Itself has a scene controller, and also has Bypass manual control.

- 4 channel Relay output unit
- Scene controller function available
- Up to 4 separate area
- Each area has 8 scenes, maximum running time for scene is 60 minutes
- 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
- It is optional setting of choosing a designated scene or back to previous scene when power on again after power off
- Support easy programming ,support HDL-BUS online upgrading
- Communication: HDL Bus

## Important Notes

- Bus cable - HDL Bus/KNX Cable, 0.8mm Single Core Copper cable
- Bus Connection - Series connection (hand by 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

## Installation Step

- 35mm Din Rail Installation, inside DB Box
- Make remark for each output connection cable
- Check if there is any short circuit in output connection cable
- Connect the load and HDL Bus cable
- Check the HDL BUS connection, avoid any mistake
- Isolate The high power and low power
- Tight the screw again for all of terminal

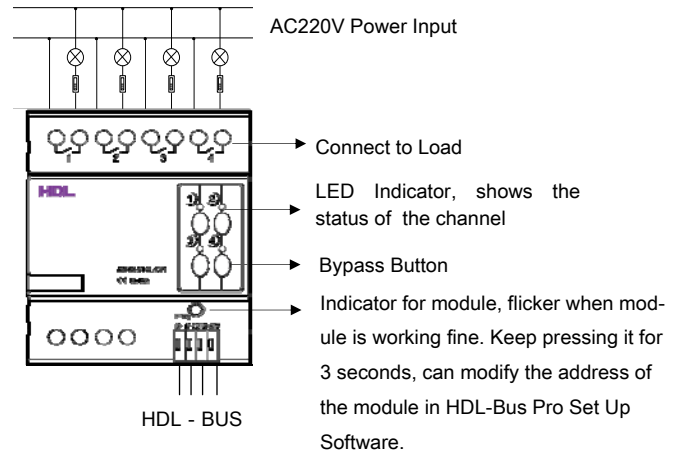
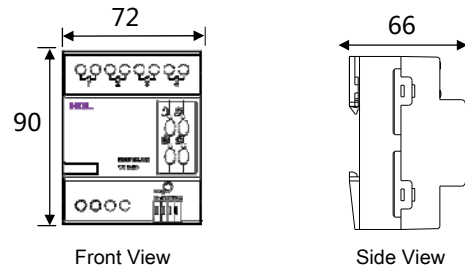
Motors:	1HP ( 1HP=746W )
Incandescent lamp load:	1600 W
Inductive transformer :	1000 W
Electronic transformer:	800 W
Halogen lamp 230 V	1600 W
Mercury-vapour lamp	
* Uncompensated luminaire:	1000 W
* Parallel compensated :	800 W
Fluorescent lamp T5 / T8	
* Uncompensated luminaire:	1000 W
* Parallel compensated :	800 W
* DUO lamp :	800 W
Dulux lamp	
* Uncompensated luminaire:	1000 W
•Parallel compensated :	800 W

## Product specification

- Working Voltage : DC24~30V
- Static BUS Power Consumption : 15mA@DC 24V
- Dynamic BUS Power Consumption : 40mA@DC 24V
- Relay: 16A Magnetic latching relay
- Output channel : 4CH/10A
- Max current in each channel : 10A
- Electronic life time for relay : > 60000 ( Resistance Load )
- Protection : Connect a breaker in each channel
- Protection Degree: IP20

## Type

HDL - MR0410.431



## HDL-Bus Definition for Cable

HDL - BUS Pro	HDL - Bus/KNX Cable
COM	Black
DATA-	White
DATA+	Yellow
DC24V	Red



WARNING

## Safety Attention

- Screw down strength is less than 0.4Nm
- Connect a breaker or fuse into each channel
- Current in each channel is less than 10A
- Installation Position: Distribution Box (DB )
- Do not make wrong connection on Bus interface, it will damage the Bus interface this module
- Avoid the rain or water into module, it will damage this devices
- Do not get AC240V voltage into Bus wire , it will damage all of devices in system
- Assure a good ventilation circumstances
- Rain, liquid, and aggressive gas are not allowed to close to it

## Product specification

- Working Temperature : 0~45°C
- Working relative Humidity : 20%~90%
- Storage Temperature : -40°C~+55°C
- Storage relative Humidity : 10%~93%
- Dimension : 72mm×90mm×66mm
- Certification: CE