

Features

HDL-MR0416.231 Intelligent Relay Module, has 50A 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
- 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

Motor:	4HP (1HP=746W)
Incandescent Light:	3500W
Inductive Transformer:	1800 W
Electronic Transformer:	2000 W
220V Halogen :	3500 W
Mercury Vapor Lamp	
*Non-compensation Light:	2800 W
*Parallel compensation light:	2800 W
Fluorescent Tube T5 / T8	
*Non-compensation Light	3500 W
*Parallel compensation light:	2000 W
*DUO Light series :	2000 W
*Non-compensation Light:	1500 W
*Parallel compensation light:	1500 W

Installation Step

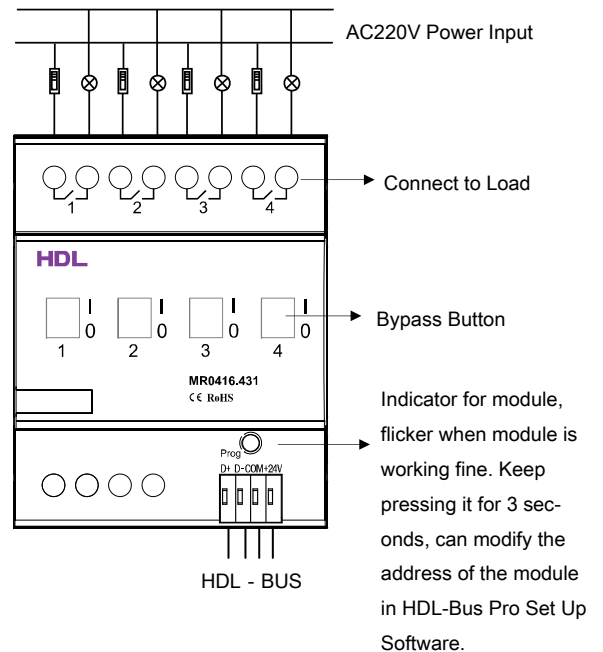
- 35mm Din Rail Installation, inside DB Box
- Make remark for each output connection cable
- Check if there is any short circuit in output connection cable
- Connect the load and HDL Bus cable
- Check the HDL BUS connection, avoid any mistake
- Isolate The high power and low power
- Tight the screw again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

Product specification

- Working Voltage : DC24~30V
- BUS Power Consumption : 28mA@DC 24V
- Relay: 50A Magnetic latching relay
- Output channel : 4CH/16A
- Max current in each channel : 16A
- Electronic life time for relay : > 60000 (Resistance Load)
- Protection : Connect a breaker in each channel
- Protection Degree: IP20

Type

HDL - MR0416.431



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 16A
- 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