Features

SB-DN-MR1210 Relay Module which embedded 16A Magnetic Latching Relay Unit . There is no power consumption and it has a long life time. manual control switches are available for each channel.

- 12 channels relay output
- Maximum 12 separate area
- Each area has 24 scenes, Scene running time is 60 minutes
- Each area has 2 sequences, each sequence has 4 steps
- Each channel has Protection Delay time after turn OFF ––[0-60 minutes]
- Each channel has Turn On Delay –– [0-25 seconds]
- Each channel has LED Indicator and manual Control switch
- It has remote program and management function
- It is optional setting of choosing a designated scene or back to previous scene when power on again after power off

Important Notes

- Cable- HDL Bus/KNX Cable, 0.8mm Single Core Copper cable
- Bus Connection - Series connection (hand by hand)
- Connect checking–Check all connection after installation
- Output Channel – Maximum current of each channel is 10A
- Output channel – The following table shows the recommended Power for each channel when connect to different type of load. And for each channel it is recommended to connect 10A MCB.
- Load type and recommended Power

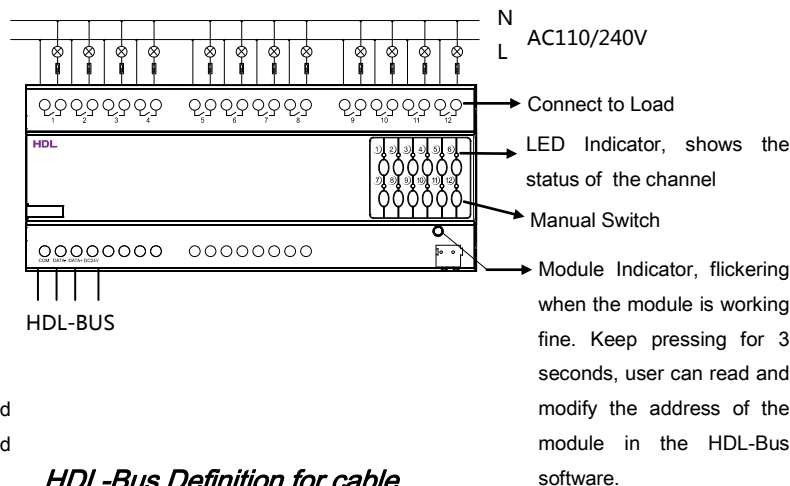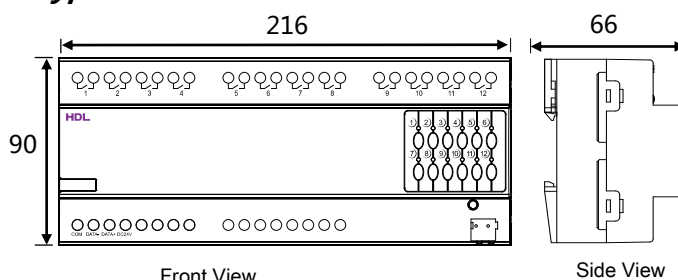|	
Motor:	1HP （1HP=746W）
Incandescent Lamp:	1600W
Inductive Transformer:	1000 W
Electric Transformer:	800 W
230V Halogen Lamp :	1600 W
Mercury Vapor Lamp	
*No Compensation Lamp:	1000 W
*Parallel Compensation Lamp:	800 W
Fluorescent Lamp T5 / T8	
*No Compensation Lamp	1000 W
*Parallel Compensation Lamp:	800 W
*DUO Lamp Series :	800 W
*No Compensation Lamp:	1000 W
*Parallel Compensation Lamp:	800 W

Installation Step

- 35mm Din Rail Installation, inside DB Box
- Make remark for each output connection cable, recognize high power and low power cable
- Connect the load and HDL Bus
- Check the HDL Bus connection, avoid any mistake
- Check if there is any short circuit in output connection cable

Product Specifications

- Bus working Voltage：DC24V
- Static Bus Power Consumption：15mA/DC 24V
- Dynamic Bus Power Consumption： 40mA/DC 24V
- Maximum output channel current ： 10A
- Relay Unit Electrical Life time：>60000次（Resistance Load）
- Relay Unit Capacitance Load：＜150μF
- Protection：Connect Extra 10A MCB

Type

SB-DN-MR1210

216   66

90

Front View   Side View

N
L   AC110/240V

Connect to Load

LED Indicator, shows the status of the channel

Manual Switch

Module Indicator, flickering when the module is working fine. Keep pressing for 3 seconds, user can read and modify the address of the module in the HDL-Bus software.

HDL-BUS

HDL-Bus Definition for cable

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

⚠ WARNING   **Safety Attention**

- 10A MCB for each channel protection is must
- Maximum Current in each channel is 10A
- Screw down strength is less than 0.4Nm
- Power cable for load : 4mm^2 ~6mm^2
- Installation Position: Distribution Box (DB)
- Do not make wrong connection on Bus interface, it will damage the Bus interface this module
- 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 Specifications

- **Working Temperature：** 0~45℃
- Working Relative Humidity： 20%~90%
- Storage Temperature：-40℃~+55℃
- Storage Relative Humidity： 10%~93%
- Certification：CE
- Protection : IP20