Features

SB-DN-R0416 Relay Module which embedded 50A Magnetic Latching Relay Unit . There is no power consumption and it has a long life time. Manual control switches are available for each channel.

- Maximum 4 separate areas，each area has 12 scenes
- Each channel has Protection Delay time after turn OFF channel —[0-60 minutes]
- Each channel has Turn On By Turn Delay — [0-25 seconds]
- Each channel has manual Control by screwdriver
- It is optional setting of choosing a preset scene or back to previous scene when power on again after power off
- Online upgrading is available

Important Notes

- Bus 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 16A
- 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 16A MCB.
- Load type and recommended Power

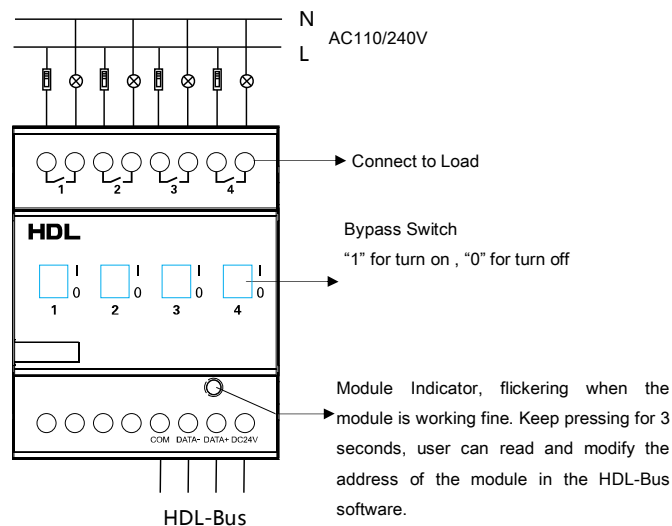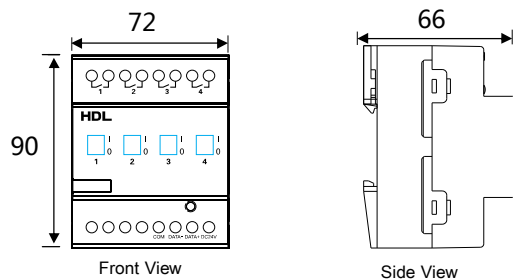|	
Motor:	4HP （1HP=746W）
Incandescent Lamp:	3500W
Inductive Transformer:	1800 W
Electric Transformer :	2000 W
220V Halogen Lamp :	3500 W
Mercury Vapor Lamp	
*No Compensation Lamp:	2800 W
*Parallel Compensation Lamp:	2800 W
Fluorescent Lamp T5 / T8	
*No Compensation Lamp	3500 W
* Parallel Compensation Lamp:	2000 W
*DUO Lamp Series：	2000 W
*No Compensation Lamp:	1500 W
*Parallel Compensation Lamp:	1500 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： 25mA/DC 24V
- Maximum output channel current ： 16A
- Relay Unit Electrical Life time： ＞60000（Resistance Load）
- Relay Unit Capacitance Load： ＜300μF
- Protection：Connect Extra 16A MCB
- Certification：CE
- Protection : IP20
- Dimension： 72mm×90mm×66mm
- Working Voltage：0~45℃
- Working Relative Humidity： 20%~90%
- Storage Voltage： -40℃~+55℃
- Storage Relative Humidity： 10%~93%

Type   SB-DN-R0416

Front View

Side View

N
L   AC110/240V

Connect to Load

Bypass Switch
"1" for turn on , "0" for turn off

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

- 16A MCB for each channel protection is must
- Maximum Current in each channel is 16A
- Screw down strength is less than 0.4Nm
- AC Power Supply cable : $4mm^2$ ~$6mm^2$
- Load Cable : $4mm^2$ ~$6mm^2$
- 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