

Features

SB-DN-R1216 is a intelligent Relay Module which embedded 50A Magnetic Latching Relay Unit . There is no power consumption and it has a long life time. Bypass control switches are available for each channel.

- 12 channels relay output
- Maximum 12 separate areas , each area has 24 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 switch
- 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

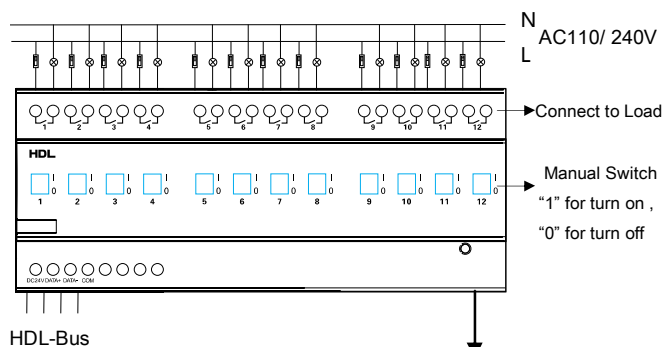
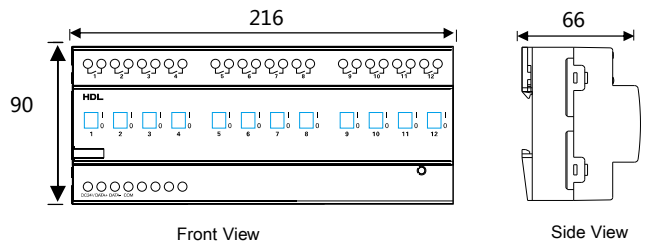
Installation Step

- 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 : 40mA/DC 24V
- Maximum output channel current : 16A
- Relay Unit Electrical Life time : > 60000 (Resistance Load)
- Relay Unit Capacitance Load : < 300μF
- Protection : Connect Extra SP Breakers for each channel
- Certification : CE
- Protection : IP20
- Dimension : 216mm×90mm×66mm
- Working Voltage : 0~45°C
- Working Relative Humidity : 20%~90%
- Storage Voltage : -40°C~+55°C
- Storage Relative Humidity : 10%~93%

Type SB-DN-R1216



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 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



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 : 4mm² ~6mm²
- Load Cable : 4mm² ~6mm²
- 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