



SB-DN-R0816

High Power Relay 8Ch 16A

Instruction Manual



Features

8 x 16A Feed Throw outputs

Latching free voltage Relay Suitable for use with ON/OFF lights, water heater, Pumps, heavy machine and Industry Use.

Manual override switch

8 switch manual override for each channel work even when no supply

Surge Protection

Each module has capacitors and voltage-sensitive resistors for surge protection power line

Simple Installation

Din Rail Mount, Standard 35mm guide rail mounting, with Elegant Plastic for Module Name

Areas and Scenes

Up to 8 independent areas, each with up to 12 scenes, with Fade time of 0 seconds to 60 minutes

ON Delay Protection

To use for industry use and have load machine , Window AC that needs On Delay Protection Time

Green Product

Bus enabled , Powered by 15-32 VDC, Powered by Bus Low Voltage Consumption 12mA/24VDC

Broadcast Address Button

To broadcast the Module Address to the Programming software

Data line Short Protection

Protection for Bus Power Polarity Change, or connect to data terminal

Life statues LED

LED Indicator, blinking to indicate that Module powered and bus connected

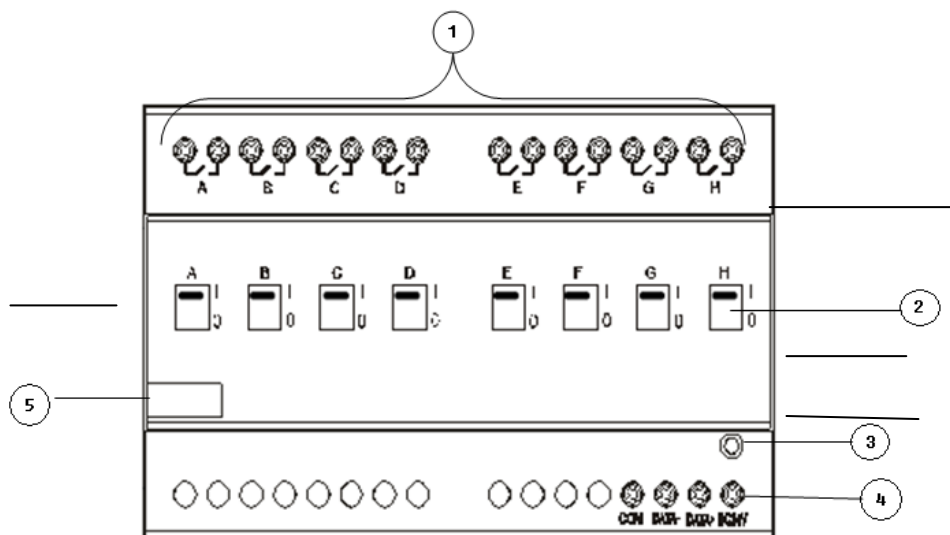
Sequence Feature

2 Sequences of 8 steps each 1.0 second to 60 minutes With Optional steps times, and Running modes.

Restore Function

Device restored to previous scene or Specific scene after Power Restore to the Module

Layout description



- 1- A-H: 8 channel output terminal to connect to the Load
- 2- 4 switch manual override for each 1-4 channels
- 3- Module broadcast address keystroke and Life status LED.
- 4- Com, Data-, Data+, DC 24 V 485 S-bus connection terminal.
- 5- Labeling Plastic place.

Important Notice:



- **Safety warning:** Please Power OFF before any installation.
- **Installation Place:** in a dry, well-ventilated damp-proof, shake-proof, and dust-proof location. Controllers may emit some mechanical noise. Take this into account when deciding the mounting location.,
- **Load connection:** module Load connection must be connected via suitable breaker.
- **Output Circuits:** The load on a circuit should not exceed the specified per channel capacity of 16 Amps.
- **Bus connection** Use stranded RS485 data cable with four twisted pairs. Connect devices in a 'daisy chain' or "Star". A data cable that is connected to an energized device is live. Do not cut or terminate live data cables.
- **Power Sources** – This device should only be operated from the S-Bus Power supply.
- **Regularly check:** test the circuitry and other related circuit or cables and replace the disqualified on time.
- **For Maintenance:** Please contact Qualified Person.

Installation Steps

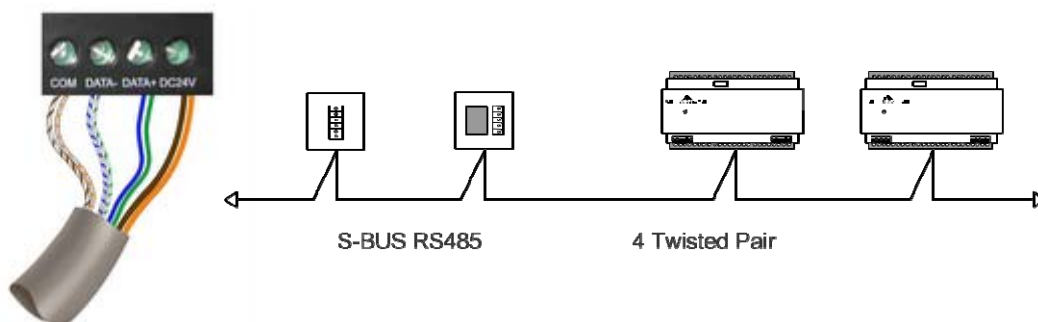
1. Mount the device on a DIN rail inside an approved enclosure.
 2. Calculate loads to ensure any channels are not overloaded, and then connect loads to the output channels. The maximum loading of this device is as follows: - Maximum channel load: 16Amps - Maximum device load: 8*16 Amps
 3. Connect a single phase suitable breaker to the Load channel.
 5. Connect data cables to the device as per diagrams below.
 6. Insert the Labeling Sticker of Module Name on the Plastic Labeling Place
 7. This device will only operate in basic modes unless programmed via a computer..
- Once the data cable is connected to the devices, the factory default settings will allow any control panel to operate all channels in all controllers, If programming is required, contact your local agent for details, or see the *S-Bus Lighting Motor and HVAC Programming Guide* e-Book for more Details.
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Recommended Wiring:

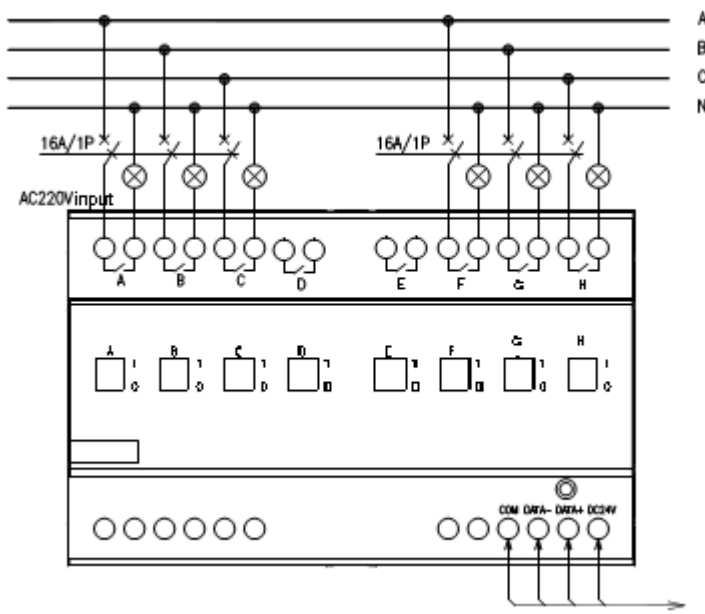
- Load output wire: up to 4 mm² Electrical copper wire per terminal
- 485 BUS connection cable: Cat5e

Recommended cable color coding

COM	→	Brown white、 Orange white
Data -	→	Blue white、 Green white
Data +	→	Blue 、 Green
DC24V	→	Brown 、 Orange



Load Connection



Product specifications

Feed throw output Relay : Latching relay up to 16A per channel

Power consumption: (without operation): 12mA/24V, (with operation Relay ON/OFF) 35mA/24V

Control Inputs: 1 x RS485 S-Bus, Module Powered by Bus connection

Working Ambient Temperature: -10° to 45°C, Ambient Humidity, 20% to 85% RH

Storage Temperature: -20° to 60°C, Ambient Humidity, 20% to 90% RH

Dimensions: W 144mm× H 88mm× D 66mm

Packed Weight: 0.5Kg