PART DESCRIPTION

1. Screw holes
2. Output connectors
3. Rail mounting clips
4. Channel LEDs
5. Status LEDs
6. Control buttons (1-16)
7. RS-485 jack

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16X8A Relay Module (CL-DR-RL16X8A)

| Product Specification			
Input Voltage	18V-24V DC (24V DC is recommended)		
Input Current	320mA (for 24V DC)		
I/O Connections	**C-Bus**	2 X RJ45	
	Output	16 X relay channel -8A per Channel (rising-cage 5mm screw terminals)	

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SETUP & PROGRAMMING

Change Module Address

In order to change the module address follow steps below consecutively and uninterruptedly:

1. Disconnect the main power. Hold button #1 & #2 simultaneously (button's and LED's number sequence is considered from right to left as shown in following picture).

2. Reconnect the main power. Release button #2 after LEDs #1 to #4 flashed. Then release button #1 after LEDs #1 and #2 flashed. Power LED will start flashing quickly.

3. Press button #1, 4 times. Then the module address will be displayed by LEDs in binary.

4. Press button #1 to increase the module address and button #2 to decrease it.

5. Press button #3 to save the module address and button #4 to cancel. After saving the new module address or canceling the process, the module will reset.

⚠️ **The devices which are connected from a common interface cannot have same module address.**
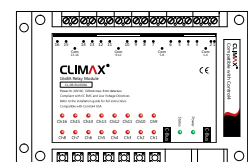

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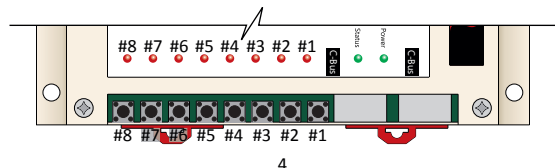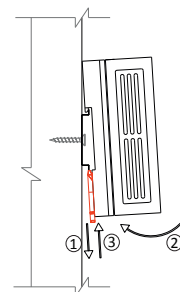
MOUNTING

Rail Mounting

16X8A Relay Module is designed to be installed on a standard 35 mm wide DIN rail (EN 50022, BS 5584).

Hook the module from the top, pull down the rail mounting clips, push the module to the rail and release the rail mounting clips.
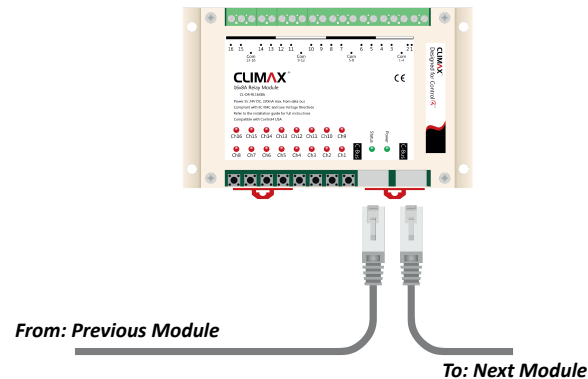

Screw Mounting

Screw the module to any surface through 4 corner screw holes.

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WIRING 1

⚠️ *Before wiring the device, always unplug the main power.*

Follow this wiring to setup the module.

From: Previous Module

To: Next Module

⚠️ **Use the terminator socket for the last module in C-Bus network.**

WIRING 2

Follow the diagram below to apply appropriate output/input and protect module in case of unwanted short circuit.

N

Main

⚠️ **Use one 10A fuse for every four channel.**

SETUP & PROGRAMMING

Enable/disable Autosave

If autosave function is activated, reconnecting main power will set all outputs to the last status (before power outage).

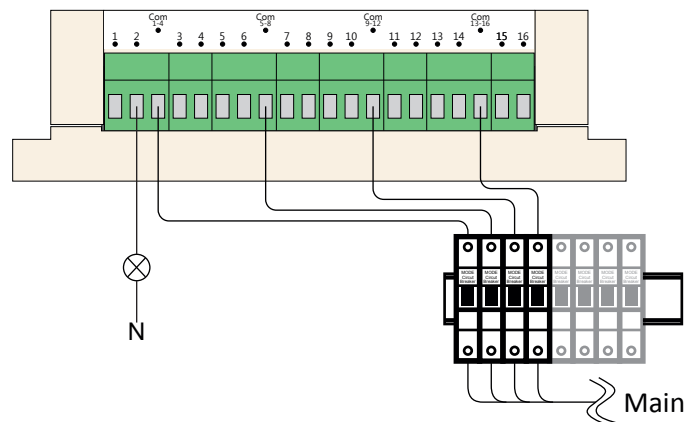**In order to enable/disable autosave follow steps below consecutively and uninterruptedly:**

1. Disconnect the main power. Hold button #1 & #2 simultaneously (button's and LED's number sequence is considered from right to left as shown in page 4).

2. Reconnect the main power. Release button #2 after LEDs #1 to #4 flashed. Then release button #1 after LEDs #1 and #2 flashed. Power LED will start flashing quickly.

3. Press button #2, 4 times.

4. To disable/enable autosave mode, press button #1. LED #1 will display whether autosave mode is disabled or enabled. If it is "on" the autosave mode is enable.

5. Press button #3 to save new setting and button #4 to cancel.

⚠️ **It is recommended to disable autosave unless it is needed to be enabled.**
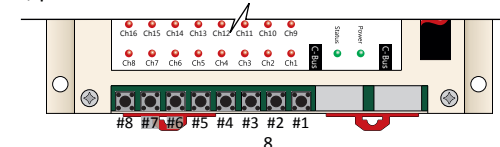
SETUP & PROGRAMMING

Module's LEDs

🟢 *Power:* When the module is connected to main power, "Power LED" will flash smoothly.

🟢 *Status:* When the module is connected to C-Bus network and receives valid data packets, "Status LED" flashes quickly. "Status LED" is "of" when the module doesn't receive any data.

When the module is receiving invalid data packet, "Status LED" will remain "on" for 5 seconds.

👆 In some cases, when a new module is added to C-Bus network, all Status LEDs might remain "on" for 5 seconds. This situation must not be considered as an error.

🔴 *Ch1 to Ch16:* Shows the status of module's relays. Also when the module is connected to main power, the channel LEDs will display the module address in binary for 2 seconds.

Toggle Module's Channels

Ch1 to Ch8: For toggling Ch1 to 8 press and hold buttons 1# to 8# for less than 700 ms.

Ch9 to Ch16: For toggling Ch9 to 16 press and hold buttons 1# to 8# for more than 700 ms. For instance to toggle Ch14, press and hold button #6 for more than 700 ms.