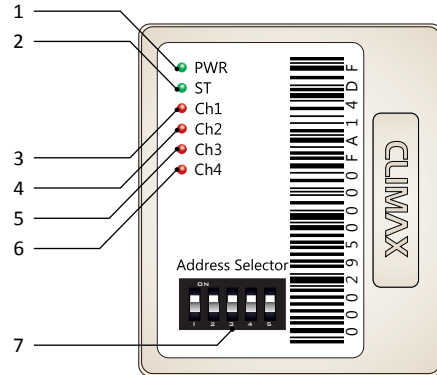


## PART DESCRIPTION

1. Power LED
2. Status LED
3. Channel 1 LED
4. Channel 2 LED
5. Channel 3 LED
6. Channel 4 LED
7. Address selector switch



3

# CLIMAX®

Live in Harmony

## INSTALLATION GUIDE version 1.0.4



### 4 Channel Micro Contact Input

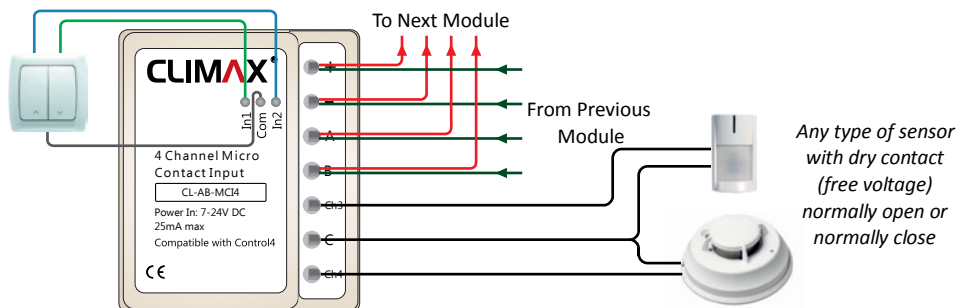
Product Specification	Control Voltage	Free voltage	Low (5V-24V)	Medium (110V)	High (240V)	
	Part Numbers	CL-AB-MCI4	CL-AB-MCI4-LV	CL-AB-MCI4-MV	CL-AB-MCI4-HV	
	Input Voltage	7-24V DC (24V DC is recommended)				
	Input Current	25mA (for 24V DC)				
	I/O Connections	C-Bus	4 X Screw terminals (M3 socket set screw*)			
		Control Input	4 X digital contact input			

\* Hex key size: 1.5 mm

1

## WIRING 1

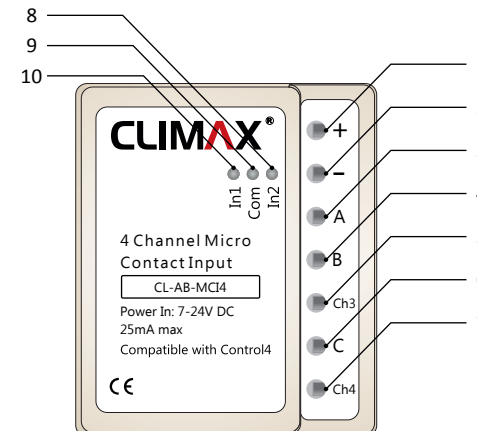
Follow the diagram below in order to apply appropriate input and connect module with "CL-AB-MCI4" part number to C-Bus network.



- ⚠ Before wiring the device, always unplug the main power.
- ⚠ Before adding a new module to C-Bus network, ensure the previous module has a valid address and is working properly.

4

## PART DESCRIPTION



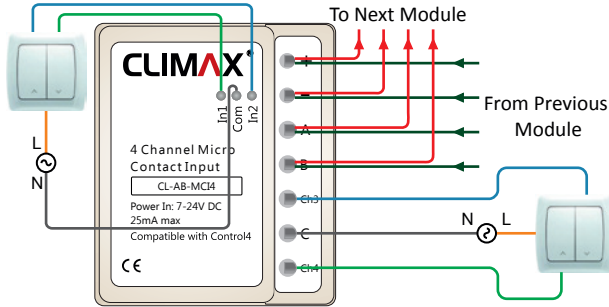
C-Bus	1. VCC
	2. GND
	3. A (Data+)
	4. B (Data-)
Control Inputs	5. Channel 3
	6. Com
	7. Channel 4
	8. Input 2
	9. COM
	10. Input 1

2

## WIRING 1

Follow the diagram below in order to apply appropriate input and connect modules with listed part numbers to C-Bus network.

CL-AB- MCI4-HV	240V
CL-AB- MCI4-MV	110V
CL-AB- MCI4-LV	5-24V



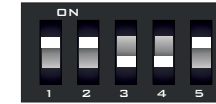
- ⚠ Before wiring the device, always unplug the main power.
- ⚠ Before adding a new module to C-Bus network, ensure the previous module has a valid address and is working properly.

5

## SETUP & PROGRAMMING

### Change Module Address

The module address can be set from 0 to 31 by means of a dip switch called "address selector switch". Before changing module address the main power must be disconnected. The address must be defined in binary. For instance to set address "19", the dip switch must be as below:



- ⚠ Never set the address "0" and "1" as "0" is not valid in C-Bus protocol and "1" is always dedicated for RS-232 GatewayPro module.
- ⚠ Check all C-Bus module addresses to avoid repetitive address allocation.

7

## WIRING 3

Use following instructions to connect the module to C-Bus network with Cat6 cable.

	Color	Color Name	Pin	C-Bus
		Orange/White	1	A(DATA+)
		Orange	2	B(DATA-)
		Green/White	3	TXD*
		Blue	4	RXD*
		Blue/White	5	GND
		Green	6	GND
		Brown/White	7	VCC
		Brown	8	VCC

\* TXD & RXD are generally applicable for modules which are working in direct mode. For this product TXD & RXD will be used in C-Bus networks with long cables, for GND & VCC respectively in order to lower voltage drop.

6

## 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 "off" 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, "Status LED" might remain "on" for 5 seconds. This situation must not be considered as an error.
- **Ch1 to Ch4:** Shows the status of module's contact inputs. Also when the module is connected to main power, The channel LEDs will display the module address in binary for 2 seconds.

8