PART DESCRIPTION



CLIMAX[®] Live in Harmony

Live in Harmony INSTALLATION GUIDE version 1.0.5



2X5A Micro Relay

	Part Numbers	Control voltage	Free voltage	Low (5V-24V)	Medium (110V)	High (240V)
		Normal*	CL-AB-5AMR2	CL-AB-5AMR2-	CL-AB-5AMR2-	CL-AB-5AMR2-
		(50mA for 24V DC)		LV	MV	HV
		Low**	CL-AB-5AMR2-	CL-AB-5AMR2-	CL-AB-5AMR2-	CL-AB-5AMR2-
		(10mA for 24V DC)	LC	LVLC	MVLC	HVLC
	roduct cificaon	I/O Connecons	C-Bus	4 X screw terminals (M3 socket set screw***)		
			Control Input	2 X digital contact input		
			Output	2 X relay channel-5A per channel (screw terminal)		
	Spe	*Input voltage: 18-24V DC	**Input Voltage: 8-24V DC ***Hex key size: 1.5 m			x key size: 1.5 mm
. 7				1		

WIRING 1

1. Power LED

2. Status LED

Channel 1 LED
Channel 2 LED
Address selector switch

Follow the diagram below in order to apply appropriate input/output and connect module _with "CL-AB-5AMR2" & "CL-AB-5AMR2-LC" part numbers_to C-Bus network.



A Before wiring the device, always unplug the main power.

A Before adding a new module to C-Bus network, ensure the previous module has a valid address and is working properly.

▲ In case of using capacive or inducveloads, permissible current is less than normal mode (resisveload) depending on load condion.

PART DESCRIPTION





WIRING 2

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



A Before wiring the device, always unplug the main power.

A Before adding a new module to C-Bus network, ensure the previous module has a valid address and is working properly.

(resisv e load) depending on load condion.

WIRING 3

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

Adda	Color	Color Name	Pin	C-Bus
		Orange/White	1	A(DATA+)
5 4		Orange	2	B(DATA-)
2		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 respecvely in order to lower voltage drop.

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:



A 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 repev 🛛 e address allocaon.

Channel Toggling

Each channel can be toggled by connecng /disconnecng COM to corresponding input on control pins.

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.

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

Och1 and Ch2: Shows the status of module's relays.