PART DESCRIPTION

1. Power LED
2. Status LED
3. Output LED
4. Input LED
5. Address selector switch

PWR
ST
Out
In

Address Selector
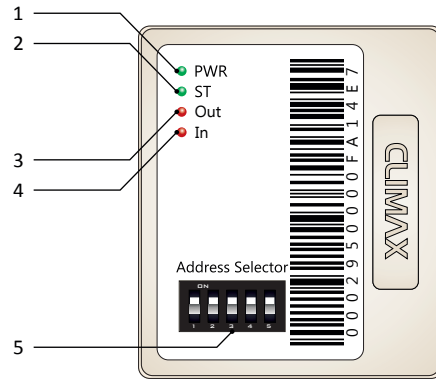
CLIMAX ®
Live in Harmony
INSTALLATION GUIDE version 1.0.1

Wiegand Converter (CL-AB-RF-W)

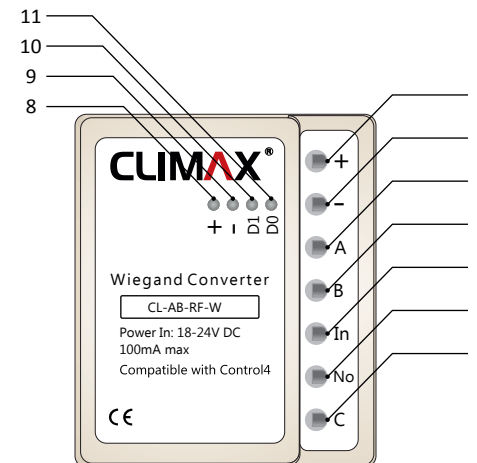| Product Specification			
	Input Voltage		18V-24V DC (24V DC is recommended)
	Input Current		100mA
	I/O Connecions	C-Bus	4 X screw terminals
		Output	1 X 5A relay channel (screw terminal)
		Input	1 X digital dry contact input (screw terminal)
			1 X 4-wire wiegand input

WIRING 1

Use the following wiring diagram when input voltage of the Wiegand Reader is equal to 12V DC and input current is lower than or equal to 100mA.
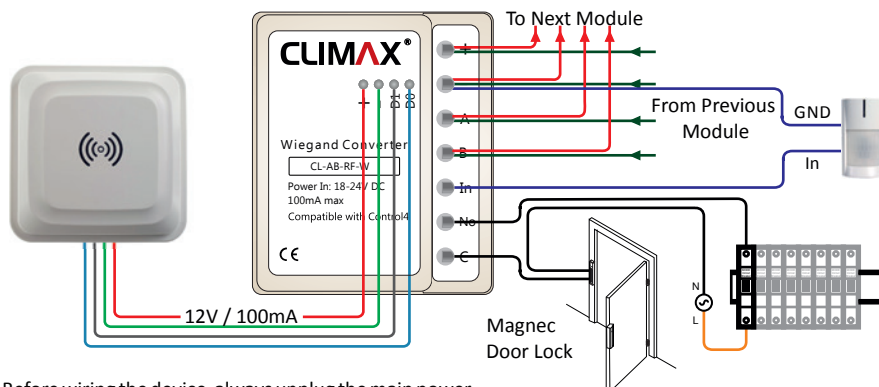
To Next Module

CLIMAX ®

Wiegand Converter
CL-AB-RF-W
Power In: 18-24V DC
100mA max
Compatible with Control4

From Previous Module

GND

In

12V / 100mA

Magnec Door Lock

⚠ Before wiring the device, always unplug the main power.
⚠ In case of using capaciv e or inducv e loads, permissible current is less than normal mode (resisv e load) depending on load condion.
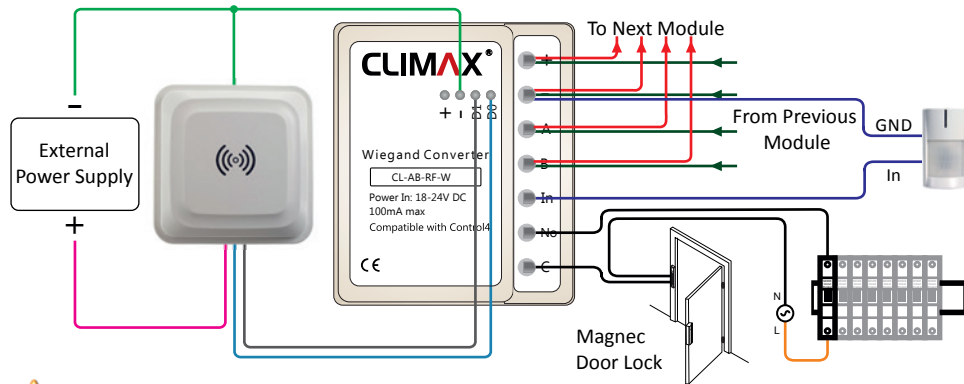

PART DESCRIPTION

CLIMAX ®

Wiegand Converter
CL-AB-RF-W
Power In: 18-24V DC
100mA max
Compatible with Control4

C-Bus	1. VCC
	2. GND
	3. A (Data+)
	4. B (Data-)
I/O Connecions	5. Contact input
	6. Normal open contact
	7. COM
Wiegand Connecions	8. VCC (12V DC)
	9. GND
	10. Data 1 (Wiegand)
	11. Data 0 (Wiegand)

WIRING 2

Follow the diagram below when input voltage of the Wiegand Reader is not equal to 12V DC or input current is higher than 100mA.

CLIMAX®

Wiegand Converter
CL-AB-RF-W
Power In: 18-24V DC
100mA max
Compatible with Control4

To Next Module

From Previous Module

GND

In

External Power Supply

Magnec Door Lock

⚠ Before wiring the device, always unplug the main power.
⚠ In case of using capaciv e or inducv e loads, permissible current is less than normal mode (resisv e load) depending on load condion.

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:
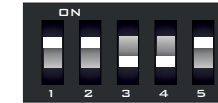
⚠ **Never set the address "0" and "1" as "0" is not valid in C-Bus protocol and "1" is always dedicated for *RS-232 GatewayPro* module.**

⚠ **Check all C-Bus module addresses to avoid repev   e address allocaon.**

WIRING 3

Use following instrucon   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 respecv ely in order to lower voltage drop.

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 situa   on must not be considered as an error.

🔴 *Output LED:* Shows the status of module's relay.

🔴 *Input LED:* Shows the status of module's input.