

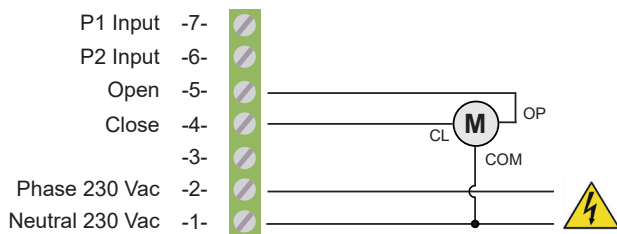
- Control unit for lights or motor
- Supplied with 433Mhz plug-in receiver



START-S102

Instructions and warnings for the installer

Connection for the Motor

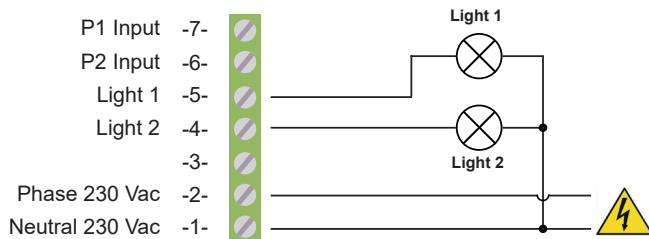


LED 1 *



Led 1 Red lit on control unit with MOTOR function

Connection for light groups



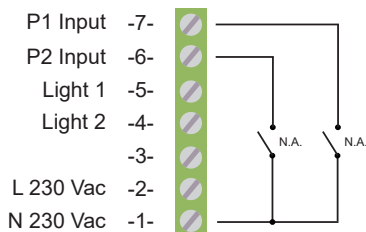
LED 2 *



Led 1 Green lit on control unit with LIGHT function

* First second after turning on of the control unit START-S102 is possible to choose with button **P** the required function. Each pression of the button changes into: **Command MOTOR Led 1 RED**, **Command LIGHTS Led 2 GREEN**.

Connection commandes P1 / P2



FUNCTION:

Command **MOTOR**:

P1 Input -> Command OPEN

P2 Input -> Command CLOSE

Command **LIGHT**:

P1 Input -> Command LIGHT 1

P2 Input -> Command LIGHT 2

The connection of the commandes P1 / P2 can be done with every button or N.O. contact. When more devices are available, connect them in parallel.

Foreword

This manual provides all the specific information you need to familiarize yourself with and correctly operate your unit. Read it very carefully when you purchase the instrument and consult it whenever you have doubts regarding use and before performing any maintenance operations. Nologo has the right to modify the product without previous notice.

Environmental protection measures

Information regarding the environment for customers within the European Union. European Directive EC 2002/96 requires that units bearing this symbol on the unit and/or on the packaging be disposed of separately from undifferentiated urban wastes.



The symbol indicates that the product must not be disposed of with the normal household wastes. The owner is responsible for disposing of this product and other electrical and electronic equipment through specific waste collection facilities indicated by the government or local public agencies. Correct disposal and recycling help prevent any potentially negative impact on the environment and human health. To receive more detailed information regarding disposal of your unit, we recommend that you contact the competent public agencies, the waste collection.

Symbols and warning



DANGEROUS

This is a warning and if it is not respected it can provoke material damage.



DEVICE UNDER ELECTRICITY TENSION

The installation should be done only from professional installer.



READ CAREFULLY THE OPERATING MANUAL

Read carefully this manual before installation and keep it for the future.



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Technical description

Consumption MAX Contact Relay	3	A
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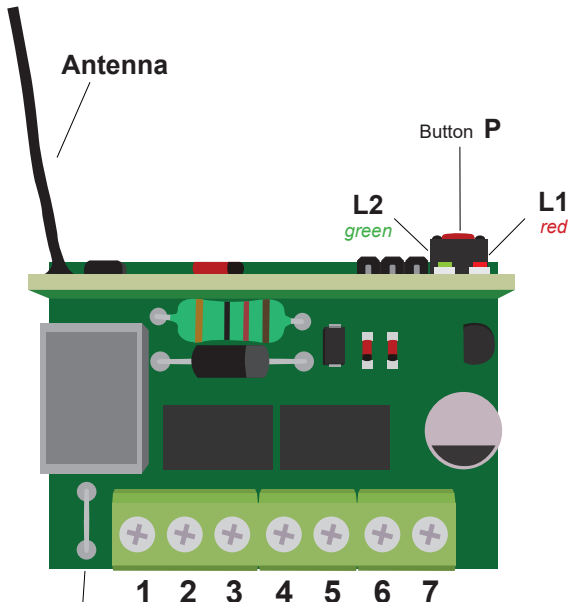
Introduction

Safety precautions

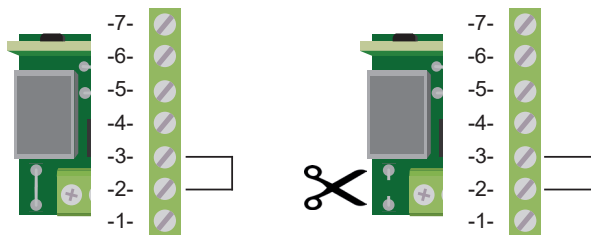
Using the unit improperly and performing repairs or modifications personally will void the warranty. The producer declines any responsibility for damages due to inappropriate use of the product and due to any use other than the use the product was designed for. The producer declines any responsibility for consequential damages except civil liability for the products.

1 Installation of the control unit

1.1 Diagram of the control unit and electrical connections



Link, cut or leave according to the mode



Connection of the POWER NETWORK

The phase of the power supply must be protected from an magnetic-thermal switch or from two 5 A fuses.

A differential switch is recommended but not necessary if it is already available in the installation.










Connection of the MOTOR

Pay attention not to reverse the poles OPEN AND CLOSE.

In case of doubts, put manually the door in the middle. Be ready to stop the door with a STOP command!

- 1 → 2 230Vac Power Supply
- 3 → 5 Connection of the motor or lights
- 6 → 7 Input for external commands

Button P Managing of the radio receiver, reset of the control unit, programm of the different functions

Command 1	7		Input command 1 (NO)
Command 2	6		Input command 2 (NO)
MOT Open / Light 1	5		Output for connection motor OPEN or LIGHTS 1
MOT Close / Light 2	4		Outpur for connection of the MOTOR CLOSE or LIGHTS 2
	3		
230 Vac (L)	2		230 Vac Power Supply 50 Hz, <i>Phase</i>
230 Vac (N)	1		230 Vac Power supply 50 Hz, <i>Neutral</i>

2 Learning of the remote controls

MEMORY CAPACITY

The receiver can manage up to 190 remote controls with standard codes: 1 button each remote control.


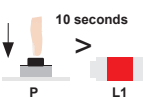

TYPE OF THE CODE

This receiver can manage standard codes from 12 up to 64 bit and rolling tipo HCS©. The first transmitter establish the code's type and next remote controls must have the same code. Concerning the rolling code it is possible to activate or deactivate the key and the rolling code counter. If you choose this function you can select the security level of the receiver.

2.1 CANCELLATION of the memory

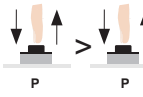
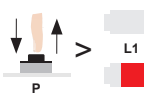
This operation can cancell all codes and you reset the receiver at the factory settings. It is necessary to reset the memory in order to learn the first Remote control to avoid old codes and not used in the installation:

! **RESET the memory at first installation**



1		Make sure the outputs are not activated and the receiver is not learning Led 1 Red and Led 2 Green switch OFF
2		Keep pressed the button P until the red led is switching ON (almost 10 seconds)
3		Release the button and wait several flashes and wait until the LED L1 RED switches off

2.2 Activation / Deactivate of the Rolling HCS

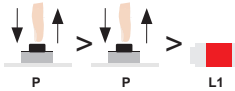

This process needs to activate or deactivate the rolling code counter. If this control will be activated, the receiver will accept only rolling code with the same manufacturer's protocol and it will checked that the remote control cannot be cloned.

1		Make sure the receiver output is not activated
2		Press twice button P and release, Wait four flashes. Led 1 Red is lit on
3		Press again and release the button. The red led turns off if the function is not activated while it flashes if the function is activated.

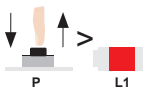

2.3 Learning of the remote control: Command OPEN / LIGHT 1

1		Make sure the receiver output is not activated
2		Press and release button P . Led 1 Red is lit on.
3		Press the remote control in 10 seconds. If the code has been learnt the red led flashes fast, if the red led flashes slowly it means the memory is full, if the red led doesn't flash it means that the remote controls is not compatible. <i>If you want to learn other remote controls in the output 1 repeat the operation from point no.1</i>

2.4 Learning of the remote control: Command CLOSE / LIGHT 2

1		Make sure the receiver output is not activated.
2		Press twice button P and release, Wait four flashes. The red LED 1 is lit on
3		Press the button of the remote control in 10 seconds . If the code has been learnt the red led flashes fast, if the red led flashes slowly it means the memory is full, if the red led doesn't flash it means that the remote controls is not compatible. <i>If you want to learn other remote controls in the output 1 repeat the operation from point no.1</i>

2.5 Cancellation of one single remote control

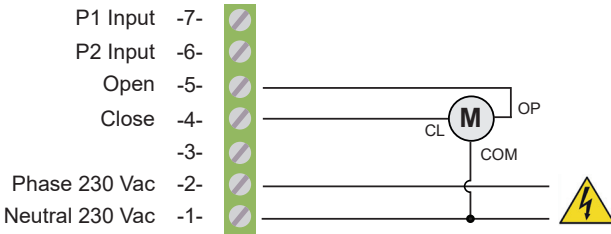
1	It is possible to cancel one single remote control:	
2		Press and release button P . Led 1 Red is lit on
3		Press the remote control. If this code has been learnt, the red led flashes for 4 seconds (9 flashes) and go back to normal conditions. During this time press the button of the remote again and the code will be cancelled.

3 Functions

After the control unit will be switched on, you need to choose the functions in 5 seconds time with button **P**: **Command MOTOR Led 1 Red**, **Command LIGHTS Led 2 Green**. *The standard function is the MOTOR Command.*

3.1 Command of the MOTOR

Connection of the MOTOR


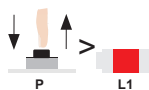
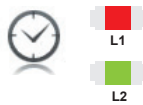
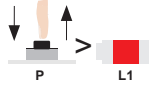



! The control unit is designed for motors with mechanical limit switches.

! The control unit **START-S102** doesn't reclose automatically

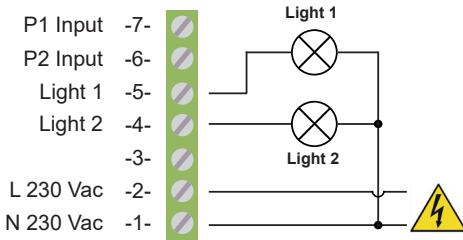
3.2 Programm of the WORKING TIME

The control unit is programmed for 60 seconds of working time. This function is useful in case you need to personalize the working time. Follow these steps.

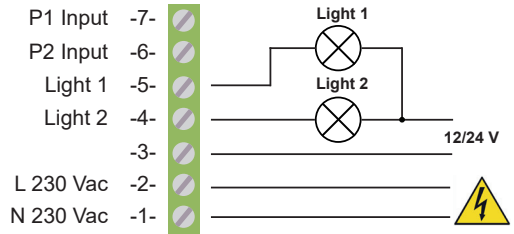
1		Make sure the receiver outputs are not activated
2		Press the remote control for OPEN command or button P1
3		Keep pressed for 5 seconds button P until the red led L1 is lit on. Now it starts the time
4		After counting the opening time, LED L1 and 2 flash
5		After this time press again button P , The time has been learnt
6		To memorize the CLOSING TIME press the remote control for CLOSING or button P1 and start from point no.3 again

3.3 Command LIGHTS

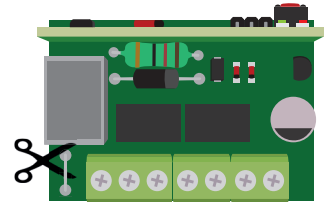
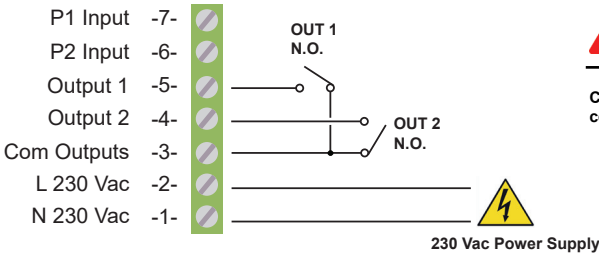
LIGHTS 230 Vac



LIGHTS 12/24 V



3.4 Use as a two channels receiver



3.5 Programm of the OUTPUTS

You can select all functions with button **P**. When the output is activated, press button **P**, leds lit on, press **P** until **L1-L2** show the function which have been activated.

Man's deatch function:	The outputs are not activated as soon as the button will be released.	Led L1 RED: <i>FIX</i>
Bistable:	Each command the output reverse the condition	Led L2 GREEN: <i>FIX</i>
Timing with Recharge time:	Once the output have been activated, the led will switched off after the working time and after presion the time will be recharged.	Led L1 RED: <i>FLASHING</i>
Bistable with timing function:	Each command of the output reverse the condition of the control unit, if activated it will lit on after that time:	Led L2 GREEN: <i>FLASHING</i>



This functions are useful either for **LIGHT** or for **MOTOR** command, and as two channels receiver.

To timed the outputs for **LIGHT USE**, read par. 3.2

4 Reset at factory settings

We introduced this function to reset at factory settings which:

- Function MOTOR
- Program of the outputs: BISTABLE with TIMING
- Deactivation time: 60 seconds

1		Switch off the control unit
2		Power the control unit, the led lights on for 5 seconds
3		In this time press the button P until the red led 1 is flashing , this confirm the reset of the control unit.

5 Declaration of conformity

(according to EC Directive 2006/42, Attachment II, part 1, ses. A)

The undersigned **Ernestino Bandera**,
Administrator



DECLARES THAT:

Manufacturer: EB TECHNOLOGY SRL
Address: Corso Sempione 172/5
 21052 Busto Arsizio VA Italy
Name of the product: **START-S102**
 Control unit for lights or motor

Dairago, 14/06/2017
 The Administrator
 Ernestino Bandera



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THE PRODUCT COMPLIES with what is outlined in the European Community directive:
2006/42/CE
EC DIRECTIVE 2006/42 ISSUED BY THE EUROPEAN PARLIAMENT AND COUNCIL on may 17, 2006 harmonizing the legislation of the member countries regarding machinery.
Ref. Attached II, part B (CE conformity declaration of the manufacturer)
THE PRODUCT IS CONFIRMED TO THE EUROPEAN NORMES, changed from the EU Directive 2006/42/CE Council of 14th Oct 2004.
2014/35/EU
DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.
Referred to the harmonized rules: EN 60335-1
2014/30/EU
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.
Referred to the harmonized rules: EN 61000-6-2 EN 61000-6-3
THE PRODUCT IS CONFORMED to the essentials requirements art. no.3 of the European Directive for them the product is used.
2014/53/CE
DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment.
Referred to the norms: ETSI EN 300 220-3 ETSI EN 301 489-1 ETSI EN 301 489-3
As indicated in the European Directive 2006/42/CE we recommend that is not allowed the get in service the product as long as the machine, where the product is integrated, hasn't be identified and declared confirmed to the european Directive 2006/42/EC.

