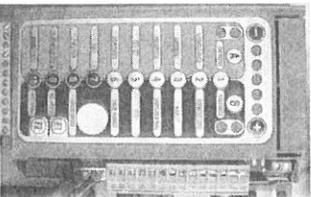




# SUPRA RG1A 24

ROAD BARRIER

**ELECTRONIC UNIT FOR SUPRA RG1A 24**  
INSTRUCTIONS AND WARNING FOR INSTALLATION, USE & MAINTENANCE



**INSTRUCTIONS FOR USE ONLY FOR PROFESSIONAL INSTALLER**  
The installation must be performed only by a qualified professional installer.



# ELECTRONIC UNIT FOR SUPRA RG1A 24

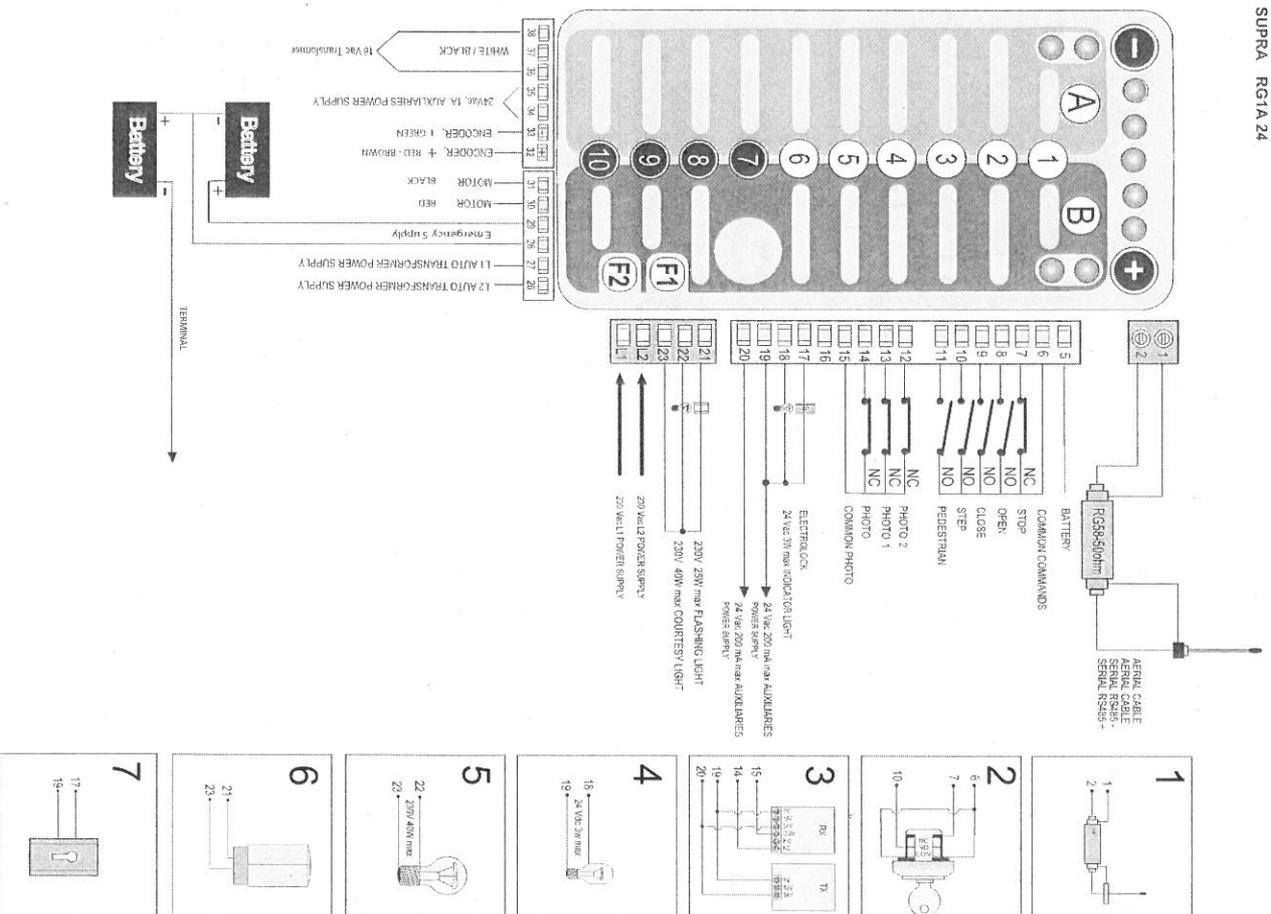
INSTRUCTIONS AND WARNING FOR INSTALLATION, USE & MAINTENANCE  
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## SUPRA RG1A 24

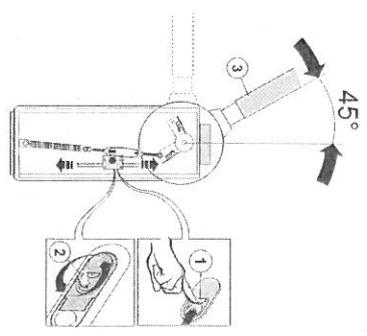


## QUICK INSTALLATION

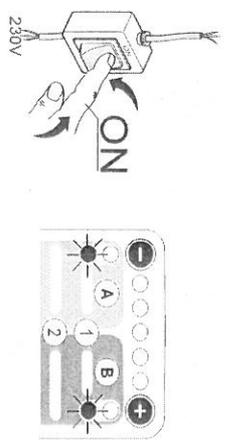
### STEP 1

#### BARRIER POSITIONING

Unlock automation, position the arm to 45° and re-lock



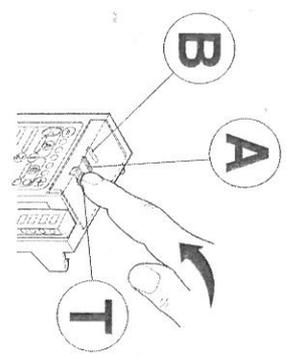
### STEP 2



Give power and check the 2 red leds are flashing

### STEP 3

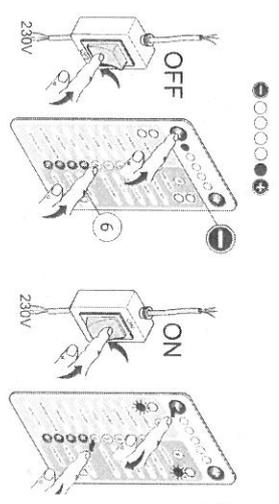
#### REMOTE CONTROL LEARNING ON STEP COMMAND (A)



- 1) Press T button of receiver & check led B is turned on.
- 2) Press the remote control button (one or more remote controls) for learning, and keep button pressed until led B turns off briefly, then turn on again.
- 3) Wait approx. 15 sec until led B turns off.

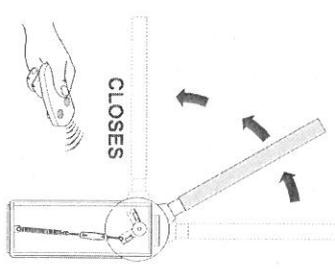
### STEP 4

#### ELECTRONIC UNIT INITIATION



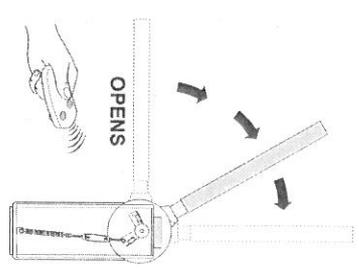
- a) Cut power.
- b) Press together and keep pressed 1 and 6 give power, led 5 turns on.
- c) Release 1 and 6 2 red leds are now flashing.

### STEP 5



- #### CLOSING LIMIT SWITCH LEARNING
- a) Press & keep pressed remote control button (A); the barrier slowly closes. If the barrier opens, release button & depress button; the barrier inverts its movement and heads towards closure. Keep button pressed until closing limit switch is reached (B).
  - b) Check one of the red led turns on (closing limit switch), & the other red led keeps flashing.

### STEP 6



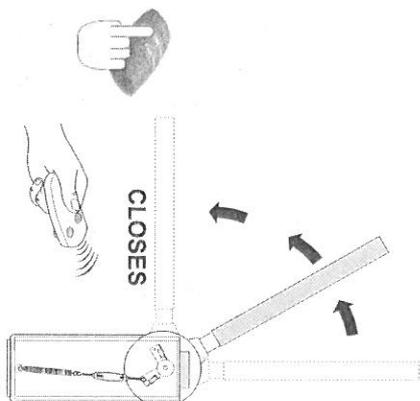
- #### OPENING LIMIT SWITCH LEARNING
- Press and release remote control button (step command); the barrier slowly opens.
- Wait until opening limit switch is reached. Check one of the red led (8 or 9) turns on and the other one is flashing.

## STEP 7

### SPEED LEARNING

Press & release remote control button.  
The barrier closes at normal speed.  
Once closed, check the 2 green leds (6 & 7) are flashing and red led is turned on.

The automation is now programmed.  
The electronic unit is in SEMI-AUTOMATIC mode.



## 1 Wiring and Diagram

Before proceeding to wiring & connections, read carefully the "PRESCRIPTION AND SAFETY WARNING" & "PRESCRIPTION AND WARNING FOR INSTALLATION" chapters.  
All wiring & connections operations must be carried out with the plugged-off electronic unit from power supply; if the disconnect device is not at sight, display a clear warning sign "ATTENTION:WARNING MAINTENANCE IN PROGRESS".

### 1.1 Electric cable list

Cables may vary depending on the type of installation & on the number of devices involved.  
Cable used must comply to the IEC 60335 regulation.

Pos.	Wiring	Wiring
1	Electric output	Cable 3 x 1,5mm <sup>2</sup>
2	Flashing notifier	Cable 2 x 1mm <sup>2</sup>
3	Radio antenna	Shield cable type RGS8500
4	Photo Tx	Cable 2x1 mm <sup>2</sup>
5	Photo Rx	Cable 4x1 mm <sup>2</sup>
6	Selector	Cable 3x1 mm <sup>2</sup>
7	Encoder	Cable 2x0,75 mm <sup>2</sup>

**WARNING: cable used must comply with the type of installation; this must be evaluated by the installer.**

- Power cable must not be lighter than 60245 IEC 57 (HOSTN-F)
- Inside power cable one conductor must be yellow-green color.
- Power cable coating must be of polypropylene sheath
- All cable must be unheated as less as possible, max 6mm, as close as possible to the terminals to prevent from accidental contact with tension parts. In case cable pulls off from terminal.
- No preexisting cables, they must be fixed with screws inside the terminals.
- If cables, submit to higher tension than 50 Volts RMS, and low safety tension cable must be sheathed with a minimum 1cm isolation.
- (50 Volts RMS ) must be isolated with strain; or the low safety tension cable must be sheathed with a minimum 1cm isolation.
- A fixing device must be provided for the power cable. Mount the power cable such way that phase & neutral conductors stretch before earth conductor, in case power cable pulls off the fixing device.

### 1.2 Electric set and output wiring

Electrical installation set-up and wiring to the main power supply are not part of this manual. Nevertheless please find herein the following warnings:

- The electrical power line must be posed & wired by a qualified electrical technician or a professional installer.
- The electrical power line must be provided with an adequate protection against short cuts & ground dispersion.
- The power net must be provided with a omnipolar disconnection device with a 3,5 mm or superior open air distance, that ensures complete power disconnection.

### 1.3 Electronic unit wiring

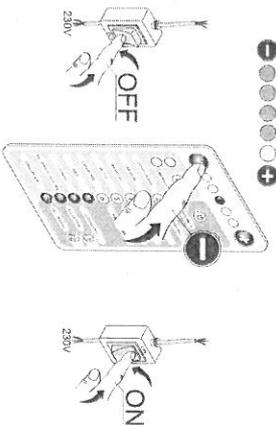
Installer must perform the wiring to 230 VAc 50 Hz power supply & to various devices provided for the automation.  
Wiring between electronic unit, motor, encoder & capacitor are already provided by the manufacturer.

- Once wiring completed, the installer must clamp with bands, cables 2-3-4 to prevent any pull off from terminal connection, bands must be applied as close as possible to the terminals (max. 10 mm from terminal, making sure not to damage cable isolation, no single cable must remain.
- Bands must be applied only on unstraitened cables (the sheathed cables are self kept into position).
- Attention not to gather together higher 50 Volt RMS cables with lower tension cables.
- Wiring performed by the manufacturer is already provided with fixing bands.

Pos	Connection	Cable type
1	Power supply	Cable 2 x 1,5 mm <sup>2</sup>
2	Flashing notifier	Cable 2 x 1 mm <sup>2</sup>
3	Radio antenna	Shield cable type RGS8500
4	Photo Tx	Cable 2 x 1 mm <sup>2</sup>
5	Photo Rx	Cable 4 x 1 mm <sup>2</sup>
6	Selector	Cable 2 x 1 mm <sup>2</sup>
7	Electric lock	Cable 2 x 1 mm <sup>2</sup>
8	Motor power supply	Cable 2 x 1,5 mm <sup>2</sup>

### ELECTRONIC UNIT RESET

- Cut power
- Press button  and give power.  
Release button – when the 4 leds turn on.



### 1.3.1 Wiring diagram right side RG1A24

Terminals	Description (see electrical diagram)
1	<b>ANTENNA:</b> antenna input Use a RG58-50 ohm cable
2	<b>ANTENNA:</b> antenna cable input
6	<b>COMMAND &amp; PHOTOCELLS COMMON:</b> for stop, open, close, step & photo +12v inputs
6 - 7	<b>STOP</b> input N.C [normally closed] programmable, commands the barrier stop Safety device (emergency stop button for example) can be connected to this terminal. Automatic closure is not provided, when command is released, new movement command must be performed <b>*Leave bridge if no device to be connected</b>
6-8	<b>OPEN:</b> input N.O. [normally opened], commands the barrier opening
6-9	<b>CLOSE:</b> input N.O. commands the barrier closure
6-10	<b>STEP :</b> input N.O. commands the movement of the barrier accordingly to the following cycles: <b>SEMI-AUTOMATIC MODE:</b> open, stop, open, stop. <b>4STEP MODE:</b> open, pause, open, pause <b>2STEP MODE:</b> open - close <b>CO-OWNERSHIP MODE:</b> Open
6-11	<b>PEDESTRIAN:</b> input N.O. for pedestrian command
12-15	<b>FOTO 2</b> input N.C. for photocells & safety devices. In opening phase, intervenes with a brief inversion. <b>*Leave bridge if no device to be connected</b>
13 - 15	<b>FOTO 1</b> input N.C. programmable for photocells & safety devices. Determines the stop of the barrier in opening & closing. Movement takes back in opening when photocell or safety device are cleared. <b>* Leave bridge if no device to be connected</b>
14 - 15	<b>FOTO :</b> input N.C. for photocells & safety devices. In opening phase, does not intervene. In closing phase determines the inversion of the barrier till complete opening. <b>*Leave bridge if no device to be connected</b>
17 - 19	<b>Electric lock:</b> 24 Vac output for electric lock connection 24Vac 15VA
18 - 19	<b>LIGHT WITNESS:</b> 24 Vac 3W max output for light witness connection, that reproduces flashing during movement, and that stays on when the barrier is opened.
19 - 20	<b>24 Vac OUTPUT:</b> for various device connection 200 mA max. <b>24Vac OUTPUT for COMMON, LIGHT WITNESS, ELECTRIC LOCK</b>
21 - 23	<b>FLASHING LIGHT:</b> 230 Vac 25W max output, for Splendor SP, flashing light connection with 3 mode flashing: 1) slow in barrier opening; 2) fast (half flashing time) in barrier closing; 3) flashes & 1 pause to notify defect or run learning.
22 - 23	<b>COURTESY LIGHT:</b> 230 Vac 40W max output, for courtesy light connection that turns on prior each movement (opening & closure) with an adjustable lightning time (see related chapter)
23	<b>COMMON FOR FLASHING LIGHT OR COURTESY LIGHT SUPPLY</b>

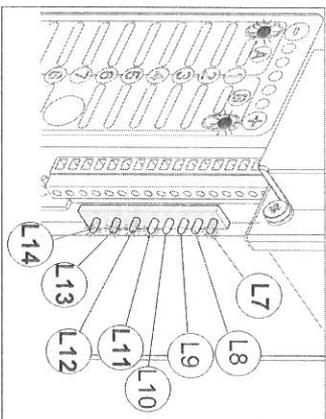
Terminal contacts	Description
38	0 SUPPLY 16 Vac
37	16 SUPPLY 16 Vac
36	24 Vac power supply
35	ENCODER -
34	ENCODER +
33	MOTOR -
32	MOTOR +
31	MOTOR -
30	MOTOR +
29	24 Vdc Emergency supply
28	24 Vdc Emergency supply
27	Supply
26	Supply

### 1.3.2 Wiring diagram low side Electronic unit RG1 A 24

Warning: wiring performed by manufacture not to be modified

#### 1.3.3 Led notify

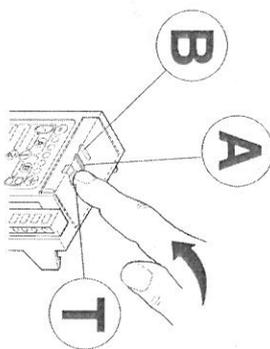
A line of 8 leds are on the right side of the electronic unit, below the terminal contacts. These leds are on when the related signal is present. For inputs N.C stop, photo 1 & photo 2, the related leds L7, L12, L13 & L14 are normally on; for inputs N.C open, close & step, the related leds L8, L9 & L10 are off. These leds notify a possible dysfunction of the connected devices.



## 2.2 Remote control learning

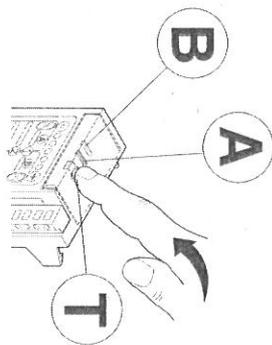
The electronic unit is provided with a 2 channel plugged-in receiver (FASTR2), 433.92 Mhz, 1.000 codes, with Life Rolling code & Auto code.

### 2.2.1 Step command learning



- 1) Press twice button T, red led B turns on, (for the channel 2 learning (STEP-BY-STEP COMMAND)).
- 2) Press remote control button to confirm learning.
- 3) Press button T to exit until led turns off.

### 2.2.4 All remote controls delete (re-set)



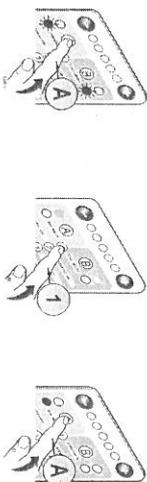
- a) Press button T for a while
- b) Led A & B turn on
- c) Release button and, within 2 seconds re-press same button, the 2 leds will flash for a while, indicate memory delete is in progress
- d) After 30s all previous remote controls configurations are deleted, and the receiver is ready for a new learning

## 3 CONFIGURATIONS

### 3.2.1 Dead man mode

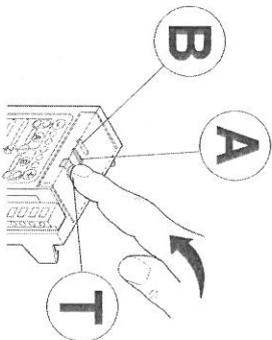
In this mode, the barrier movement is possible only by pressing "step" button (remote control, selector...) and stops if "step" button is released.

- Press **A** and then **T** DEAD MAN  
 If green led (left) is on **mode active**  
 If red led (left) is on **mode non active**, press **A** to activate



### 2.2.2 Pedestrian commande learning

- 1) Press button T, red led A turns on for the channel 1 learning (PEDESTRIAN COMMAND).
- 2) By pressing button T a third time, exit the learning mode.



### 2.2.3 Remote control delete

- a) Press 3 times button T, first & second led turn on both (A & B).
- 1) Transmitt with the remote control that has to be deleted, the 2 leds will flash for a few seconds, indicating deleting phase is in progress.

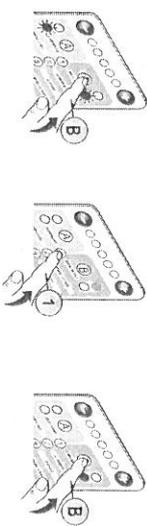
### 3.2.2 Semi-Automatic mode

Automatic closure non activated

In this mode, by pressing "step" button on the remote control, the barrier changes its movement in the following sequence: 1 OPEN - 2 STOP - 3 OPEN - 4 STOP

- Press **B** and then **T** SEMI AUTOMATIC  
 If green led (right) is on **mode active**  
 If red led (right) is on **mode non active**, press **B** to activate

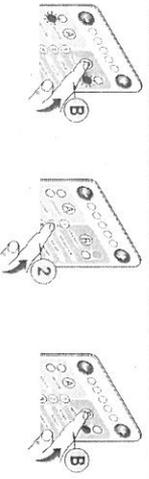
OPEN » STOP » OPEN » STOP



### 3.2.3 2-step automatic

#### Automatic closure is activated

In this mode, by pressing "step" button of the remote control, the barrier changes its movement in the following sequence: 1 OPEN - 2 CLOSE. For example, if barrier is opening, by pressing the "step" button on the remote control, the barrier stops, and goes in closure. On the opposite, if the barrier is closing, it will open. The barrier automatically closes after a time configured at function TIME PAUSE.



OPEN » CLOSE

### 3.2.4 Automatic 4 steps

#### Automatic closure is activated

In this mode, by pressing "step" button of the remote control, the barrier changes its movement in the following sequence: 1 OPEN - 2 PAUSE - 3 OPEN - 4 PAUSE.



Press (A) then (2) AUTOMATIC 4 STEPS.

If green led (left) is on: mode activated.

If red led (left) is on: mode non activated, press (A) to activate

### OPEN » PAUSE » CLOSE » PAUSE

### 3.2.5 Automatic 4 steps with stop

#### Automatic 4 steps with stop

This mode is the mix between "Automatic 4 steps" & "Semi-automatic" mode. By pressing "step" button of the remote control, the barrier follows the following sequence: 1 OPEN - 2 PAUSE - 3 CLOSE - 4 PAUSE; however, if during the opening or closing sequence, the "step" command is given, it will act as STOP.



Press (A) then (2) 4-STEP AUTOMATIC

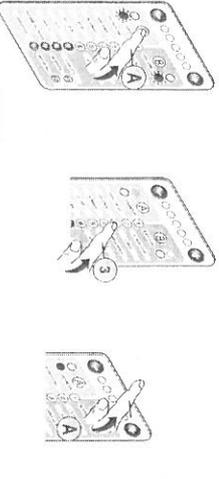
Press (A) once, the first led turns on

### OPEN PAUSE CLOSE STOP (if "step" command is given before limit switch reach)

### 3.2.6 Co-ownership

#### Automatic closure is activated

The barrier automatically closes after the time configured at function "PAUSE TIME". The "step" command works only as an opening command. The "CLOSING" command is activated only when the barrier is completely opened.



To configure press (A) and then (3) CONDOMINIUM

If green led (left) is on: mode activated.

If red led (left) is on: mode non activated, press (A) to activate

OPENS

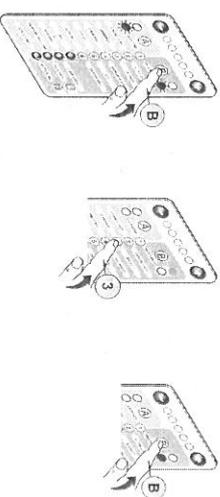
## 3.3 FUNCTIONS

### 3.3.1 Black-out

The electronic unit RG1 A 24 reacts differently to a momentary power failure, depending whether the limit switch micro is active or not.

**Black-out not activated:** Barrier closed, the automation takes back its normal working cycle. Barrier opened: The automation remains still, and at the first command, will slowly close.

**Black-out activated:** When power turns back, in a mode that ensures automatic closure, the barrier waits for 30 sec. and slowly opens completely. Once the barrier is completely opened, it will take back its normal working cycle.



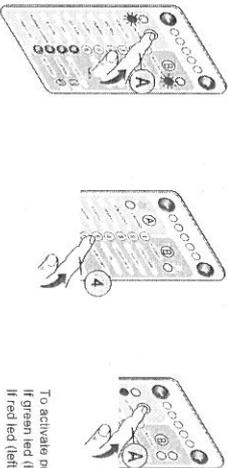
Press (B) and then (3) BLACKOUT:

If green LED (DX) is lit: mode enabled

If red LED (DX) is lit: mode not enabled, press (B) to enable.

### 3.3.2 Pre-flashing

This function activates a 4 sec pre-flashing from the flashing light, before any movement in opening & closing.



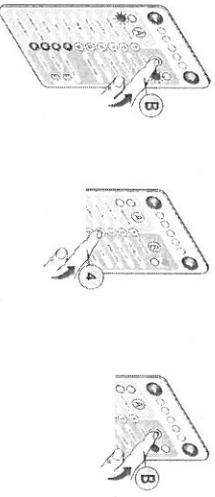
To activate press (A) then (4) PRE-FLASHING

If green led (left) is on: mode activated.

If red led (left) is on: mode not activated, press (B) to activate

### 3.3.3 Lighting in pause

This function activates a flashing mode during pause time, before automatic closure cycle.



To activate press (B) then (4) LIGHTNING IN PAUSE

If green led (right) is on: mode activated.

If red led (right) is on: mode not activated, press (B) to activate

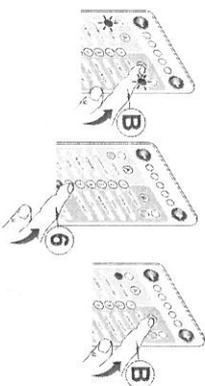
### 3.3.5 PHOTOI

This function activates the inside photocell during opening & closing phase.

To activate, press B then <3>. Led 7 & 9 notify as follows: Green led (7) on: the function is configured on <on> mode. If during opening or closing phase the inside photocell beam is interrupted, the barrier stops. The barrier will open when the beam is cleared. Red led (9) on: the function is configured on <off> mode. Does not intervene in opening phase, while in closing phase determines the inversion of the barrier till complete opening.

### 3.3.6 Close after photo

This function activates the automatic closure of the barrier after crossing the focal beam programmed as PHOTO. If the barrier is opening the movement will keep proceeding until complete opening, then will eventually close.



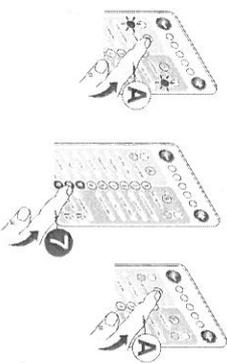
To activate press **B** and then **B** **CLOSE AFTER PHOTO**  
 If green led (right) is on: mode activated  
 If red led (right) is on: mode not activated, press **B** to activate

### 3.3.7 Opening ram blow

Not to be used

### 3.3.8 Force

The force controls the push & the speed of the barrier



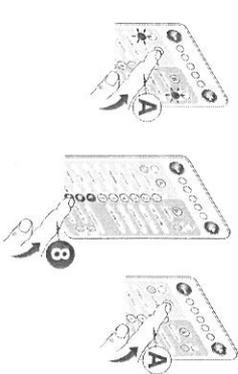
The force is configured on function **FORCE**  
 Press **A** and then **FORCE**  
 The force value is configured by pressing **-** and **+**

LEDS ON	FORCE
●●●●●●●●	Step-by-step configuration in opening
●●●●●●●●	Step-by-step configuration in deceleration opening phase
●●●●●●●●	Step-by-step configuration in closing
●●●●●●●●	Step-by-step configuration in deceleration closing phase

There is no automatic exit for the FORCE function: to exit press **B**

### 3.3.9 Pause time

This function configures the time pause before automatic closure

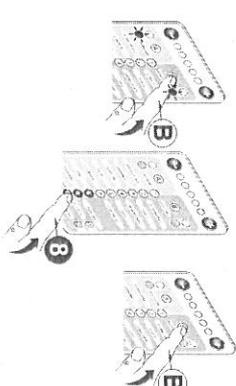


Press **A** and **B** **PAUSE TIME**  
 If green led (left) is on: time scale on (from 5 to 25 sec)  
 If red led (left) is on: time scale on (from 25 to 125 sec)  
 Various times are configured by pressing **-** and **+**  
 Press **A** to change scale

LEDS ON	AUTOMATIC CLOSURE VALUE	AUTOMATIC CLOSURE VALUE
●●●●●●●●	0 s	25 s
●●●●●●●●	5 s	50 s
●●●●●●●●	10 s	75 s
●●●●●●●●	15 s	100 s
●●●●●●●●	20 s	125 s

### 3.3.10 Courtesy light

The courtesy light function  
 200 sec.

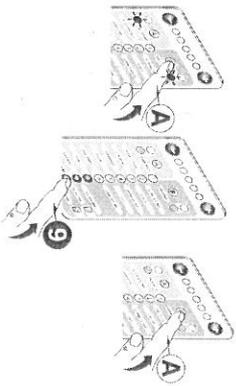


Press **B** and **B** **COURTESY LIGHT**  
 Different times are configured by pressing **-** and **+**

LEDS ON	VALUE
●●●●●●●●	20 s
●●●●●●●●	40 s
●●●●●●●●	80 s
●●●●●●●●	120 s
●●●●●●●●	160 s
●●●●●●●●	200 s

### 3.3.11 Deceleration in opening and closing

This function configures the space covered during deceleration of the barrier, in the final stretches of opening & closing



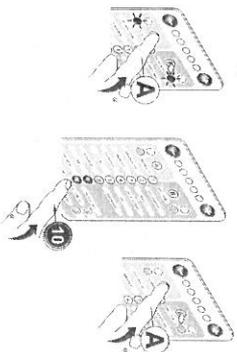
To configure the **DECELERATION IN CLOSURE**  
 press **A** and then **B**  
 To configure the **DECELERATION IN OPENING**  
 press **B** and then **B**  
 The different spaces are configured by pressing **-** & **+**

LED ACCESS	DECELERATION
●●●●●●●●	FUNCTION NON ACTIVATED
●●●●●●●●	4% of the run
●●●●●●●●	8% of the run
●●●●●●●●	12% of the run
●●●●●●●●	16% of the run
●●●●●●●●	20% of the run

### 3.3.12 Obstacle detection

The actuator is provided with an obstacle detector: the barrier inverts its movement when it encounters an obstacle during opening & closing phase. The sensibility configuration determines a major or minor speed response to the obstacle.  
 In closing phase, if the electronic unit detects an obstacle, the barrier will invert the movement until complete opening; if the obstacle is detected 3 times in a row, the barrier will stop in a complete opened position until a command is given.  
 In opening phase if the electronic unit detects an obstacle, the barrier will briefly invert its movement, and then eventually stop, awaiting for a command to be given.

Press **A** and then **OBSTACLE DETECTION**  
 If green led (left) is on: scale value with minor speed response displays  
 If red led (left) is on: scale value with major speed response displays  
 The different values are configured by pressing **-** & **+**  
 Press **A** to change scale



LEDS ON	SENSIBILITY
●●●●●●●●	MINIMUM
●●●●●●●●	
●●●●●●●●	
●●●●●●●●	
●●●●●●●●	
●●●●●●●●	MAXIMUM

## 6 GENERAL INFORMATION

It is strictly forbidden to copy or reproduce this instruction manual without written permission to do so and subsequent verification by LIFE home integration. Translation into other languages of all or part of the manual is strictly forbidden without previous written authorization from and subsequent verification by LIFE home integration. All rights on the document are reserved. LIFE home integration will not accept responsibility for damage or malfunctions caused by incorrect installation or improper use of products and Users are the referent recommended to read this manual before using the product. LIFE home integration will not accept responsibility for damage or injury caused by non-compliance with the installation, set-up, maintenance and use instructions contained in this manual and the LIFE home integration disclaimer in the SAFETY INSTRUCTIONS AND WARNINGS chapter.

### 6.1 INFORMATION ON THE MANUFACTURER

The aim of providing this product LIFE home integration reserves the right to bring about alterations to them at any time, without giving prior notice. This document conforms to the state of the automation at which it is provided when released for sale.

**LIFE home integration**  
Manufacturer  
Address: Via S. Pietro 15, 10124 Cella (Torrevecchia PI)  
Phone: +39 0564 80322  
Fax: +39 0564 80323  
E-mail: info@homeit.it  
www.homeit.it  
info@homeit.it

The identity plate bearing the information on the Manufacturer is fixed to the control unit. The plate specifies the type and date (month/year) of manufacture of the product.

### 6.2 INTENDED USE

- The RG 1 R control unit has been exclusively designed to command 1 electromechanical operator with 230 Vac power supply, destined to motorising residential type lifts. Any usage differing from that described above is forbidden.
- The control unit may only be used with other LIFE products.
- The manufacturer declines all responsibility for damage caused by improper use. All risks are the filer's responsibility and the warranty shall be rendered void.
- The control unit may not be installed or used in potentially explosive environments.
- The control unit may only be used when in perfect working order and in accordance with the intended use, in the absence of safety and hazard conditions and in compliance with the regulations for installation and use.
- Any adjustments that may pose threats to safety must be eliminated immediately.
- The control unit may not be used in environments prone to flooding.
- Do not use the operator in environmental conditions prescribed by harsh atmospheric agents (e.g. salty air).

## 7 SAFETY INSTRUCTIONS AND WARNINGS

### 7.1 General instructions and warnings

- This manual is designed for use by PROFESSIONAL FITTERS only. Installation of the control unit requires practical and theoretical knowledge of mechanics, electrical and electronics, as well as current motor regulation and requirements.
- Once the control unit has been installed, it is forbidden for users to perform any operation on the control unit even following the instructions in this manual, which, as mentioned previously, are intended for use by qualified personnel only.
- Fitters must operate in compliance with the following: law 4876, directive 8637/EEC, 7329/EEC, 89338/EEC and subsequent amendments. He/she must also make constant reference to the indications given in this manual, which must always be observed when installing, connecting, adjusting, testing and setting the control unit. The Manufacturer declines all responsibility for damage or injury caused by non-observance of the instructions contained in this manual.
- The Manufacturer declines all responsibility for damage and faults to the control unit caused by non-observance of the instructions contained in this manual.
- Keep the manual in a safe and easily accessible place so that it can be consulted at any time necessary.
- In the interests of safety and correct functioning of the control unit, only use original cables, accessories, sensors and spare parts.
- Do not perform alterations on any control unit element or component. The type of operation may cause malfunctions. The manufacturer declines all responsibility for damage caused by products that have been modified.
- Struck liquid penetrant makes the control unit disconnected the safety supply and contact the Manufacturer's Assistance Service immediately. It should be removed, stored in a dry place and rechecked periodically.
- In the case of faults or problems that cannot be resolved using the information contained in this manual, contact the Manufacturer's assistance service.

### 7.2 Storage instructions and warnings

- The Manufacturer declines all responsibility for damage and faults to control unit functioning caused by non-compliance with the storage instructions given below.
- The control unit must be stored in a secure, dry place, at room temperatures of between -20 and +70°C and away from direct sunlight.
- Keep the control unit away from sources of heat and naked flames, which could damage it and cause malfunctions, fires or hazardous situations.

## 8 INSTALLATION

**ATTENTION:** Incoming safety instructions. Follow all instructions carefully. Incorrect installation may cause serious injury.

### 8.1 Instructions and warnings for installations

- Before commencing installation read the SAFETY INSTRUCTIONS AND WARNINGS chapter carefully.
- The PROFESSIONAL FITTER who installs the control unit is responsible for performing risk analysis and regulating the automation's safety devices consequentially.
- The FITTER must check that the temperature range declared on the control unit is suited to the place in which the device is installed.
- Any permanent operation conditions referred to in the section of the operator must be protected so that they are within view of the gate but distant from moving parts. Unless such commands are clearly visible, they must be protected by a transparent plastic cover.
- During installation, make constant reference to harmonised standards EN 12453 and EN 12446.
- Ensure that the individual devices to be installed are compatible with the RG 1 R control unit. Do not proceed if you use one device incompatible for the intended use.
- Carry out the installation of the control unit in a room that is not prone to flooding, does not contain sources of heat or naked flames, fire or hazard situations in general.
- Wiping materials must be disposed in compliance with local regulations and stored in their original packaging.
- Wear protective goggles when using a power supply according to safety instructions.

In the event of work at heights or over 2m from the ground, for example for the installation of the indicators, lamp or cord, there must be equipped with ladders, safety harness, protective helmet, and all other equipment required by law and the standards governing the kind of work. Refer to directive 89/655/EEC amended by 2001/45/EC.

## 9 TESTING AND TRIAL RUN AND SET UP

- The testing and trial run must be performed by a COMPETENT PERSON supervised and aided by a PROFESSIONAL FITTER. It is the responsibility of the person who tests and sets up the automation of that unit to perform the checks required in accordance with the risks existing and to check, conforming with the relevant legislation and standards, in particular with EN standard 12445, which governs the methods for performing tests on gate automations and EN standard 12452 that specifies the performance requirements concerning safety of lifts.
- The checks and procedures for setting may also be used for routine checks on the automation and the devices.
- The automation may only be tested if a non-hazardous force is applied.
- Adjust the maximum force in line with EN standard 12445.
- Never touch the gate or moving parts when they are in motion.
- In the event of malfunctions (noises, jerky movements, etc.) position the gate in a completely open and immobile state.
- Always remember that the following residual risks exist when the gate is in movement:
  - a) Impact and crushing against the main closure edge (against the single rail or between the two rails).
  - b) Crushing and shearing on the moving parts.
  - c) Crushing between moving and the fixed guides and support during movement.
  - d) mechanical risks caused by movement.

### 9.1 Testing

- During testing, ensure that the measurement of the gate's impact force has been performed in accordance with EN standards 12445 and 12453.
- Check that the indications given in the SAFETY INSTRUCTIONS AND WARNINGS AND INSTRUCTIONS AND INDICATORS FOR INSTALLATION chapters have been carefully observed.
- Ensure that the automation is correctly adjusted and that the protection and release systems are in good working order.
- Using the key, disconnect the gate control perform gate opening and closure tests and ensure that each movement of the gate corresponds to the control unit settings. Perform as many checks as needed to ensure that the automation is in perfect working order.
- Ensure the correct operation of the EBS or the key-board of the control unit (see specific manual).
- In particular, for protocol checks, check that there is no interference with other devices. Pass a cylindrical tube with a diameter of 50 mm and a length of approximately 30 cm through the optic axis that connects the two photo-cells. Perform this check firstly close to the transmitter and then close to the receiver and verify halfway between the two.
- In all three cases, the device must intervene by passing from the safe state to the alarm state and vice versa, thus causing the alarm set on the control unit. For example, during a closure malfunctions, perform the protocol operation test required in compliance with EN standard 12445 p. 4.1.1.6. The results must satisfy EN standard 12453 p. 5.11.6.

**ATTENTION:** once the automation has been tested, the parameters set must not be altered. If further adjustments (e.g. alterations to the voltage value) are made, all the checks required for testing and compliance with EN standard 12445 must be repeated.

### 9.2 First usage

The automation may only be used for the first time once all the checks described in the TESTING chapter have been performed successfully. The automation may not be used in precarious or emergency conditions.

- a) Compile a technical file for the automation, which must include at least:
  - a general mechanical and electrical diagram.
  - risk analysis and solutions adopted for eliminating or reducing risks.
  - list of the components used.
  - instructions for use and warnings concerning use by the owner.
  - system maintenance record.
  - declaration of the system's CE conformity.
  - Name and address of the party responsible for installation and testing.
  - Type of automation.
  - CE mark registration.
  - CE mark registration number.
- b) Fill in the declaration of conformity and give it to the owner of the automation.
- c) Complete the guide with the instruction manual (EN 12453 p. 5.3 and 5.4) and give it to the owner of the automation.
- d) Compile the maintenance and intervention manual (EN 12453 p. 5.3 and 5.4) and give it to the owner of the automation.
- e) Read the instructions for maintenance that provide instructions concerning the maintenance of all automation devices (EN 12453 p. 5.3 and 5.5) and give it to the owner of the automation.
- f) Before the first use of the automation, the owner must have been given adequate information concerning hazards and residual risks.

## 10 PRESCRIPTION & SAFETY WARNING

### 10.1 Prescription & warning for use

- It is the fitter's duty to perform risk analysis and inform the user/owner of any existing residual risks. Any residual risk detected must be recorded in writing in the operator manual.
- The following residual risks are equally present in moving gates, insect and opening systems (main closure safety of the single rail or between the two rails), manual and automatic in the opening and closing of the automation:
  - a) Impact and crushing against the main closure edge (against the single rail or between the two rails).
  - b) Crushing and shearing on the moving parts.
  - c) Crushing between moving and the fixed guides and support during movement.
  - d) mechanical risks caused by movement.
- The Manufacturer will not accept responsibility for damage or injury caused by the non-observance of the information on use contained in this manual, and the failure to observe the safety indications given below.
- The Manufacturer declines responsibility for damage and malfunctions caused by non-compliance with the instructions for use.
  - a) Keep the manual in a safe and easily accessible place so that it can be consulted at any time necessary.
  - b) Never touch the gate or moving parts when they are in motion.
  - c) Remain at a safe distance when the gate is in motion, only pass when the gate is completely open and immobile.
  - d) Do not allow children to play with gate controls, do not leave radio controls or other control devices within children's reach.
  - e) Prevent children from playing or standing in the vicinity of the gate or other control devices (radio controls). The same precautions should be adopted for disabled persons and animals.
  - f) Do not touch the gate or the automation. Contact a PROFESSIONAL FITTER and in the meantime use the gate manually by disconnecting the operator (see the OPERATOR/ACTUATOR RELEASE chapter) OPERATOR/ACTUATOR RELEASE chapter of the operator manual.
  - g) Ensure the residual risk measure in order to cover that there are no signs of mechanical interference, wear and damage to the wires and assembled parts, do not use the operator until the necessary ground safety measures have been taken.
  - h) Ground safety measures must be taken in the event of a fault, disconnect the electricity supply and contact the Manufacturer's Assistance Service immediately. Use of the control unit in such conditions may cause hazardous situations. The automation may not be used in these conditions, even with buffer batteries (optional).
  - i) If a problem arises that cannot be resolved using the information contained in this manual, contact the Manufacturer's assistance service.

## 11 MAINTENANCE

### 11.1 Prescription & warning for maintenance

- Once the automation has been used, the parameters set must not be altered. If further adjustments (e.g. alterations to the voltage value) are made, ALL THE CHECKS REQUIRED FOR TESTING AND COMPLIANCE WITH STANDARDS MUST BE REPEATED.
  - The Manufacturer declines responsibility for damage or injury caused by non-compliance with the information provided in this manual and the safety instructions provided below.
  - The Manufacturer declines all responsibility for damage and malfunctions deriving from non-compliance with the maintenance instructions.
  - In order to keep the operator efficient and safe, follow the cleaning, checking and routine maintenance procedures as described in this manual. This is the owner's duty.
  - Always disconnect the electricity supply in the event of malfunctions, breakdowns and before any other operations in order to avoid the gas from being activated.
  - Always disconnect the operator's power supply before performing any maintenance or cleaning operation.
  - The owner is NOT authorised to remove the control unit cover as it contains live parts.
  - If the power cable is damaged, it must be replaced by the Manufacturer or its technical Assistance service or in any case a person with a similar qualification in order to avoid risks.
  - Do not perform electrical or programming modifications on the control unit. Operations of this type may cause malfunctions and/or risk of accidents. The manufacturer declines all responsibility for damage caused by products that have been modified.
  - The disconnection and replacement of fuse switches, before restoring function conditions, identify and eliminate the fault. Request the intervention of a PROFESSIONAL FITTER.
  - Do not perform technical or programming modifications on the control unit. Operations of this type may cause malfunctions and/or risk of accidents. The manufacturer declines all responsibility for damage caused by products that have been modified.
  - The electrical and replacement of the pair of roller batteries (optional) may be performed by a PROFESSIONAL FITTER only.
  - Do not touch the control panel (during the procedure) as the presence of live parts is possible.
  - All malfunctions (repair or replacement of parts) must be recorded in the maintenance log, which is SUPPLIED AND INITIALLY FILLED IN BY THE FITTER.
- Every 6 months a PROFESSIONAL FITTER should repair the series of tests described for automation testing (see INSTALLATION MANUAL – TESTING AND TRIAL RUN Chap. 1) – TESTING AND TRIAL RUN Chap. 1)

### 12 DEMOLITION AND DISPOSAL

- The control unit is constructed using various materials, which require the adoption of different disposal procedures. Refer to regulations in force in the country in which the automation is installed, especially with regard to the battery batteries (if present).
  - If present the batteries must be removed from the control unit prior to disposal. Disconnect the control unit from the electricity supply before removing batteries.
  - Contact qualified firms for disposal.
- ATTENTION: operator disconnection from the mains supply must be performed by a qualified electrician using suitable tools.**

## Declaration of conformity



under Directive 98/37/EC, appendix II, part B (Manufacturer's Declaration of CE Conformity)

LIFE Home Integration  
Via S. Pertini 3/5  
31014 Colle Umberto (TV)

declares that the following product:

RG1 A 24 control unit

satisfies the essential requisites established in the following directives:

- Low voltage directive 73/23/EEC and subsequent amendments.
- Electromagnetic compatibility directive 89/336/EEC and subsequent amendments.
- Radio and telecommunications equipment directive 1999/5/EC and subsequent amendments

and satisfies the following standards:

- EN 12445:2000 Industrial, commercial and garage doors and gates – Safety in the usage of motorised doors – testing methods
- EN 12453: Industrial, commercial and garage doors and gates – Safety in the usage of motorised doors – Requisites
- EN 60204-1:1997 Machinery safety – Electric equipment of the machine – Part 1: general rules.
- EN 60950 Information technology equipment - Safety - Part 1: General requisites
- ETSI EN 301489-3:2001 Electromagnetic compatibility for radio equipment and appliances.
- EN 300220-3:2000 Radio equipment and systems – short band devices – Technical characteristics and testing methods for radio apparatus with a frequency of 25 to 1000 MHz and powers of up to 500mW.

The Manufacturer also declares that it is not permitted for the abovementioned components to be used until such time as the system in which they are incorporated is declared conform to directive 98/37/EC.

Colle Umberto \_\_\_\_\_

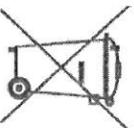
Name of Signor: \_\_\_\_\_

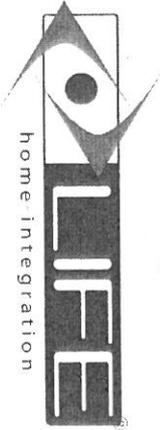
Michele Rui

Position: \_\_\_\_\_

President

Signature: \_\_\_\_\_





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