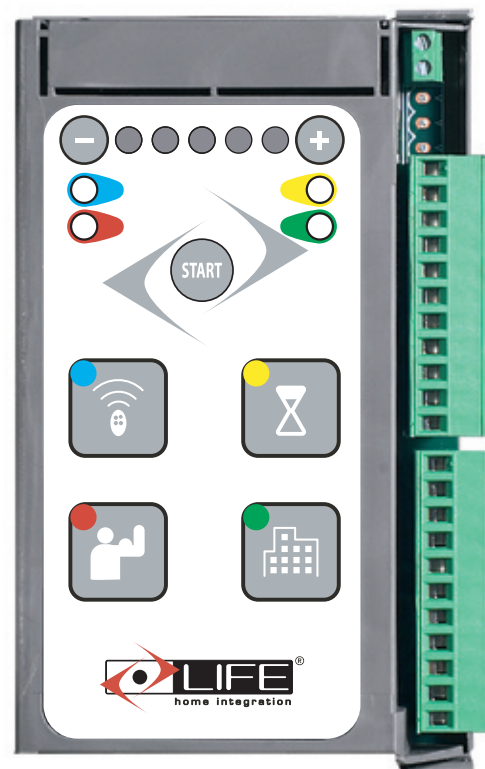
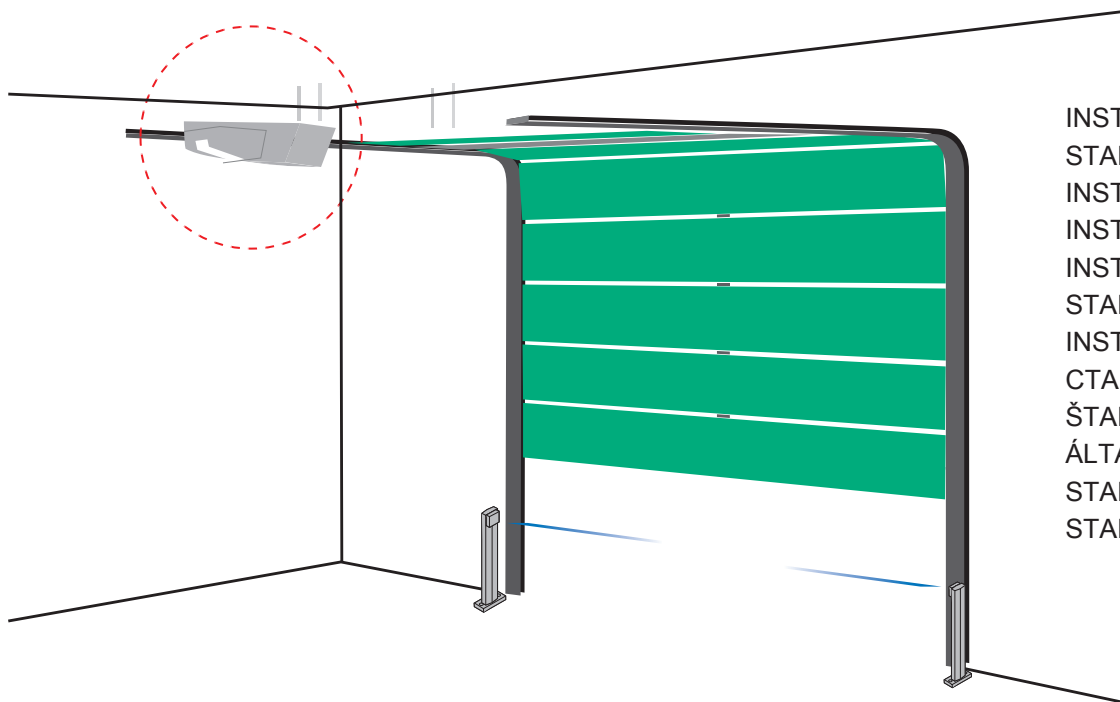


RG1 24DL

- I** CENTRALE DI COMANDO PER AUTOMAZIONI AD UN MOTORE A 24V
ISTRUZIONI E AVVERTENZE PER L'INSTALLAZIONE, L'USO E LA MANUTENZIONE.
- GB** CONTROL UNIT FOR AUTOMATIONS FITTED WITH 24V MOTORS
INSTRUCTIONS AND WARNINGS FOR INSTALLATION, USE AND MAINTENANCE.
- F** CENTRALE DE COMMANDE POUR AUTOMATISMES A UN MOTEUR A 24 V
INSTRUCTIONS ET CONSEILS POUR L'INSTALLATION, L'UTILISATION ET L'ENTRETIEN.
- ESP** CENTRALITA PARA PUERTAS SECCIONALES Y BASCULANTES RG1 24 DL
INSTRUCCIONES Y ADVERTENCIAS PARA LA INSTALACIÓN, EL USO Y EL MANTENIMIENTO.
- P** CENTRAIS DE COMANDO PARA PORTÕES DE BATENTE
INSTRUÇÕES E ADVERTÊNCIAS PARA A INSTALAÇÃO, USO E MANUTENÇÃO.
- D** STEUERUNG FÜR 24V-ANTRIEBE
ANLEITUNGEN UND HINWEISE FÜR INSTALLATION, GEBRAUCH UND WARTUNG.
- PL** CENTRALA STERUJĄCA DO AUTOMATYKI Z SIŁOWNIKIEM 24V
INSTRUKCJE I WSKAZÓWKI DOTYCZĄCE MONTAŻU, UŻYTKOWANIA I KONSERWACJI.
- RUS** ПУЛЬТ УПРАВЛЕНИЯ ДЛЯ ВОРОТ С ДВУМЯ СТВОРКАМИ.
ИНСТРУКЦИИ, ЗАМЕЧАНИЯ ПО МОНТАЖУ, ЭКСПЛУАТАЦИИ И ТЕХНИЧЕСКОМУ ОБСЛУЖИВАНИЮ.
- SK** ŘADIACA JEDNOTKA POHONU PRE AUTOMATIZÁCIU VYBAVENÚ 24 V MOTORMI
POKYNY A VAROVANIA PRE INŠTALÁCIU, POUŽITIE A ÚDRŽBU.
- HU** VEZÉRLŐEGYSÉG 24 V-OS MOTOROKHOZ
SZERELÉSI UTASÍTÁSOK ÉS FIGYELMEZTETÉSEK, HASZNÁLAT ÉS KARBANTARTÁS.
- CZ** ŘÍDÍCÍ JEDNOTKA POHONU PRO AUTOMATIZACI VYBAVENOU 24 V MOTORY
POKYNY A VAROVÁNÍ PRO INSTALACI, POUŽITÍ A ÚDRŽBU.
- RO** CONTROL UNIT FOR AUTOMATIONS FITTED WITH 24V MOTORS
INSTRUCTIONS AND WARNINGS FOR INSTALLATION, USE AND MAINTENANCE.

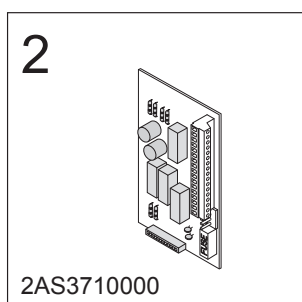
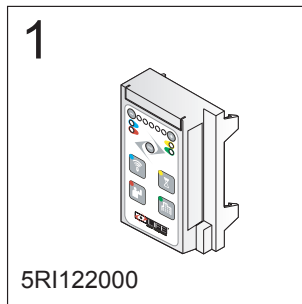
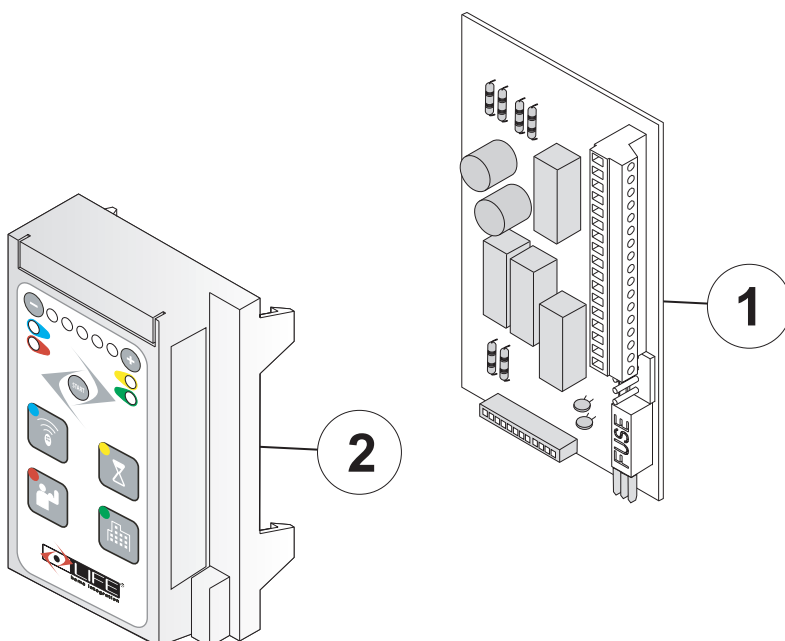


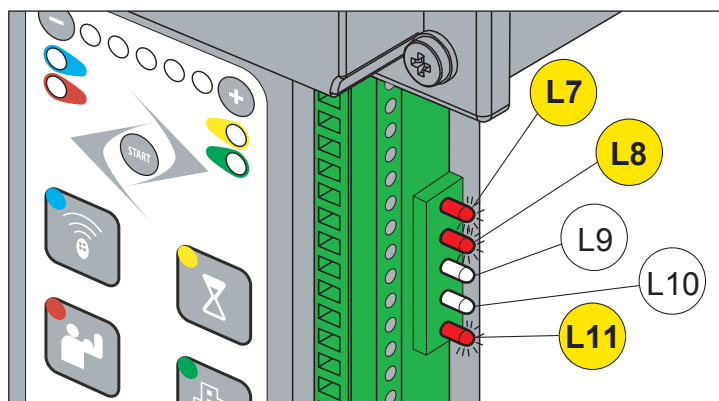
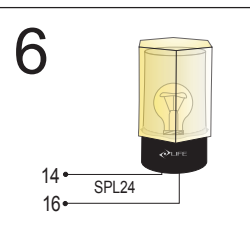
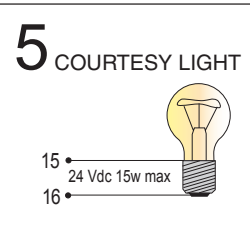
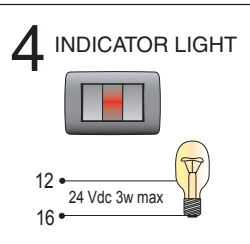
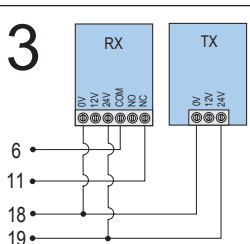
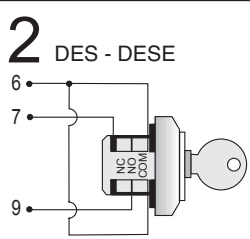
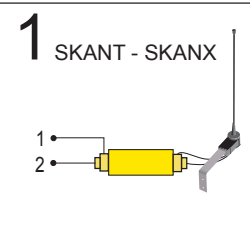
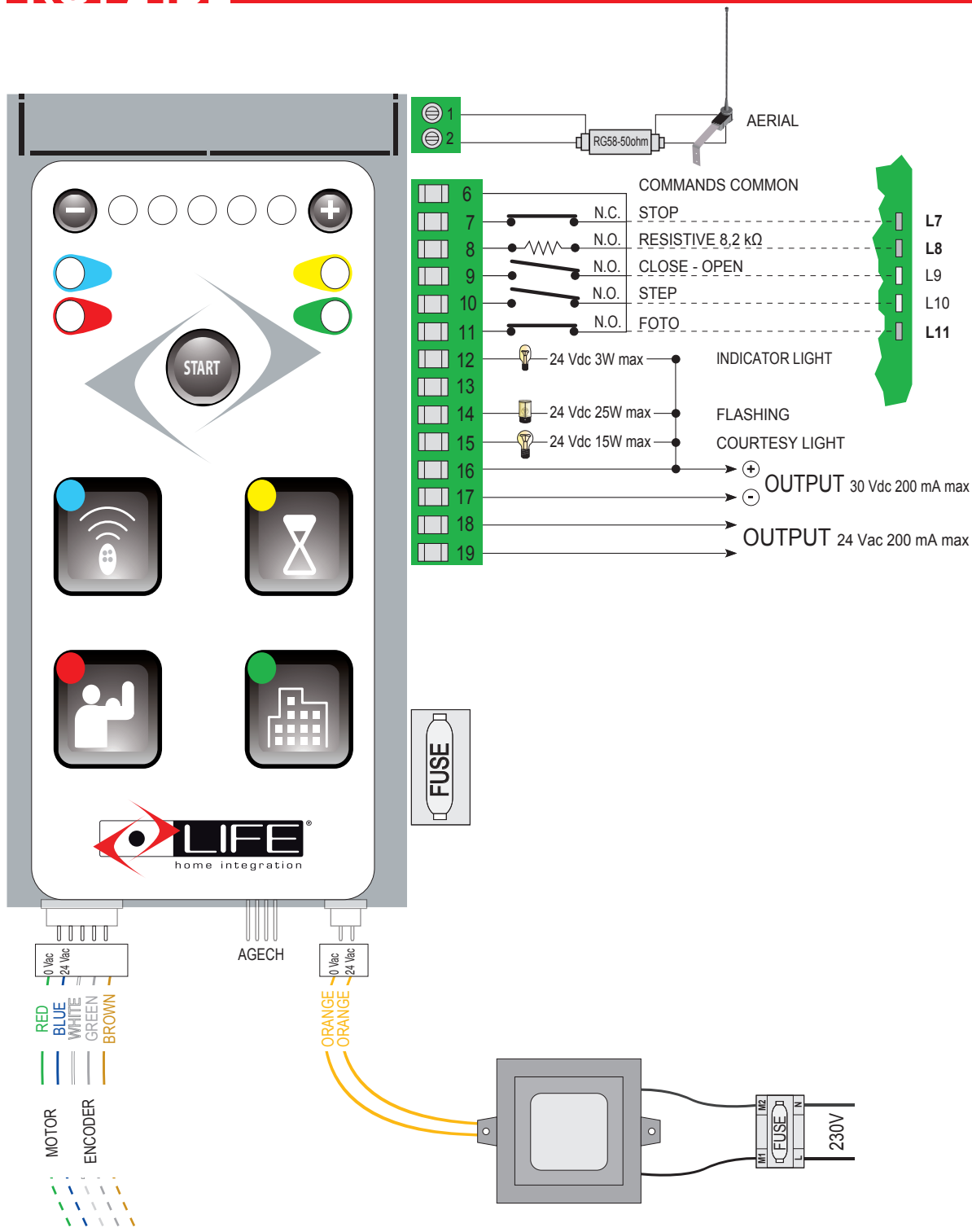


INSTALLAZIONE STANDARD
STANDARD INSTALLATION
INSTALLATION STANDARD
INSTALACIÓN ESTÁNDAR
INSTALAÇÃO STANDARD
STANDARDINSTALLATION
INSTALACJA STANDARDOWA
СТАНДАРТНАЯ УСТАНОВКА
ŠTANDARDNÁ INŠTALÁCIA
ÁLTALÁNOS TELEPÍTÉS
STANDARDNÍ INSTALACE
STANDARD INSTALLATION

- I** Componenti e dispositivi di un'automazione tipo.
- GB** Components and devices of a typical automation.
- F** Composants et dispositifs d'un automatisme type.
- ESP** Componentes y dispositivos de un automatismo tipo.
- P** Componentes e dispositivos de uma automatização tipo.
- D** Bestandteile und Vorrichtungen eines Musterantriebs.
- PL** Części składowe i urządzenia automatyki.
- RUS** Элементы и приспособления для оборудования в стандартной комплектации.
- SK** Komponenty a zariadenia pre typické automatizácie.
- HU** Tartozékok és részegységek általános telepítéshez.
- CZ** Komponenty a zařízení pro typické automatizace.
- RO** Componente și dispozitive de automatizare tipice.

RICAMBI
SPARE PARTS
RECHANGE
RECAMBIOS
SOBRESSALENTES
ERSATZTEILE
CZĘŚCI ZAMIENNE
ЗАПАСНЫЕ ЧАСТИ
NÁHRADNÉ DIELY
PÓTKATRÉSZEK
NÁHRADNÍ DÍLY
SPARE PARTS



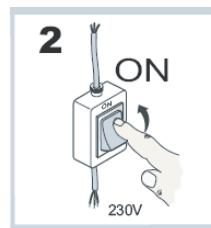
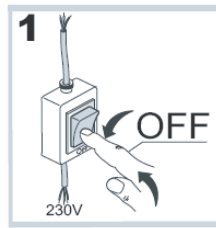


IMPIANTO ELETTRICO
 ELECTRIQUE
 EQUIPO ELÉCTRICO
 INSTALAÇÃO ELÉCTRICA
 INSTALACJA ELEKTRYCZNA
 INSTALAÇÃO ELÉCTRICA
 ELECTRICAL SYSTEM
 INSTALACJA ELEKTRYCZNA
 ЭЛЕКТРИЧЕСКАЯ СХЕМА
 ELEKTRICKÝ SYSTÉM
 ELEKTROMOS RENDSZER
 ELEKTRICKÝ SYSTÉM
 ELECTRICAL SYSTEM

Energy Saving

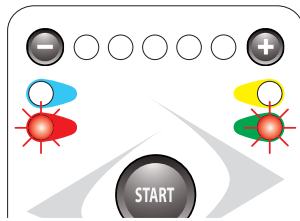
In order to save energy, we have introduced the function

Energy Saving. 10 minutes after the end of programming of the control board, the LED of the keyboard go out and it is no more possible to use the control board. To get the control board working again, switch it off and on.



PR70 – 80: PROGRAMMING THE CONTROL UNIT

PHASE 1

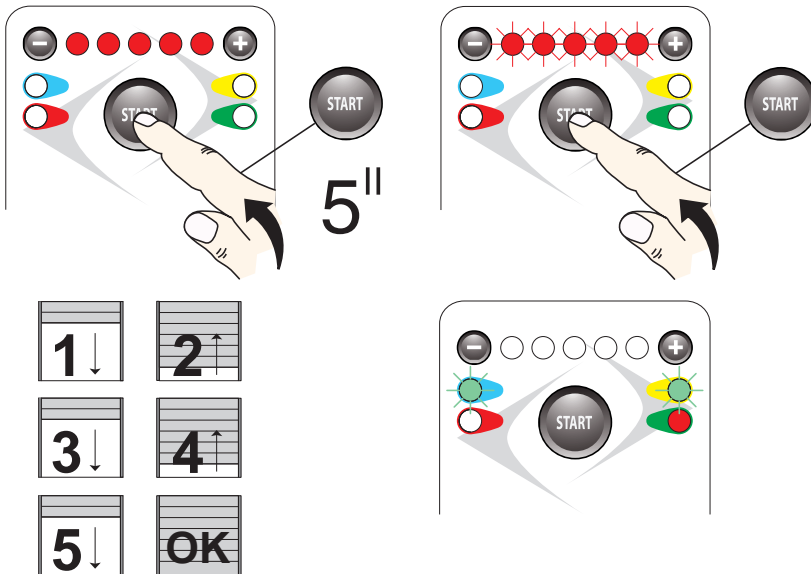


DEFINING THE STOP PLATES

Ensure that the automation's opening and closure stop plates have been fixed.

Switch on power to the system and check that the two red LEDs flash.

PHASE 2



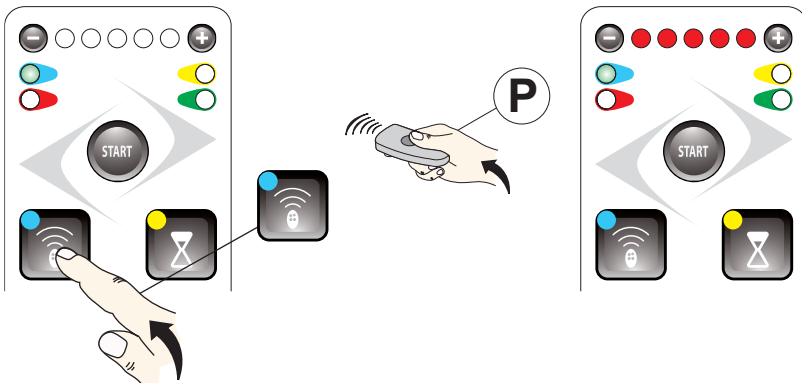
PROGRAMMING THE TRAVEL

- Press for 5 seconds, the 5 LEDs will light and then start flashing.
- Press : the automation will perform, in sequence, a closure (1), an opening (2), a closure (3), an opening (4) and another closure (5).

Once programming is complete, the two green LEDs will flash and the red led (DX) will light.

Should the result obtained not be satisfactory, repeat the whole process.

PHASE 3



RADIO CONTROL INITIALISATION ON THE STEP COMMAND (P)

- Press , the green led (SX) will light.
- Hold down the key (P) on the radio control until all five LEDs light .
- Wait 25 seconds or press again to quit.

The automation is now programmed.

SEMI-AUTOMATIC mode is enabled: by giving the 'STEP' command, the automation changes movement following the sequence 1 – OPEN 2 – STOP 3 – CLOSE 4 – STOP. Automatic re-closure is not enabled. Once programming is complete, the key acts as a STEP command.



1 WIRING AND CONNECTIONS

- Before commencing wiring and connection work, read the **SAFETY INSTRUCTIONS AND WARNINGS** and **INSTALLATION INSTRUCTIONS AND WARNINGS** chaps carefully.
- All wiring and connection operations must be carried out with the control unit disconnected from the electricity supply. If the disconnection device is not in view, display a sign reading: "ATTENTION: MAINTENANCE WORK IN PROGRESS".

1.1 Control unit connections

L	230 Vac 50 Hz TRANSFORMER POWER SUPPLY
N	

DIAGRAM OF THE RIGHT SIDE OF THE RG1 24DL		
Terminals	Description	
1	AERIAL: aerial sheath input	Use a RG58- 50ohm cable
2	AERIAL: aerial cable input	
6	COMMAND AND PHOTOCELL COMMON: for stop, resistive strip, close, step, photo and +12V inputs.	
6 - 7	STOP: programmable NC input, commands automation stoppage. Can be connected to safety devices such as an emergency stop button. When the command is released automatic closure never occurs and a new movement command must be given. Leave jumpered if no device is envisaged	
6 - 8	RESISTIVE: resistive input Leave jumpered, with 8.2kΩ resistance if no device is envisaged.	
6 - 9	CLOSE-OPEN: NO input commands automation closure if in any opening position or commands opening if the automation is closed.	
6 - 10	STEP: NO input, commands automation movement according to the following cycles: SEMI-AUTOMATIC MODE: Open, stop, close, stop. 4-STEP MODE: Open, pause, close, pause. CONDOMINIUM MODE: Open.	
11	PHOTO: N.C. input for photocells or safety devices. Does not intervene during automation opening, during closure causes reversal of motion until complete opening. Leave jumpered if no device is envisaged.	
12 - 16	INDICATOR LIGHT: 24Vdc 3W max output, for connecting an indicator light that copies the function of the flashing light during movement and that remains on when the gate is open.	
14 - 16	FLASHING LIGHT: 24 Vdc 25 W max output for connecting a Splendor SPL24 flashing light characterised by three flashing modes: 1) slow during door opening; 2) fast (flashing times halved) during closure. 3) three flashes and a pause to indicate a fault state or travel identification.	
15 - 16	COURTESY LIGHT: 24 Vdc 15W max. output for connecting a courtesy light that switches on at the start of each movement (opening or closure) and switches off after 30 seconds.	
16	+	FLASHING OR COURTESY LIGHT POWER SUPPLY COMMON.
16	+	30 Vdc OUTPUT: power supply for various devices, 200 mA max
17	-	
18	24 V ac OUTLET: power supply for various devices, 200 mA max	
19		
N.C. = normally closed contact – N.O. = normally open contact		

DIAGRAM OF THE LOWER SIDE OF THE RG1 24 DL (see wiring diagram on page 2A)			
Terminals	Description		
20	24	ORANGE CABLE	24Vac OPERATOR POWER SUPPLY
21	0	ORANGE CABLE	
24	AGECH (battery charger for 2 12V 2Ah batteries)		
28	+	BROWN CABLE	ENCODER
29	SIGNAL	GREEN CABLE	
30	-	WHITE	
31	-	BLUE CABLE	MOTOR POWER SUPPLY: 24 Vdc
32	+	RED CABLE	



Fitters must make the connections of the 50 Hz 230 Vac electricity supply, and the various automation devices. Connections between the control unit, motor, encoder and transformer have already been performed by the Manufacturer.

- Once the connections to the control unit have been made, the Fitter must use bands to join adjacent wires into groups of 2, 3 or 4 in order to prevent them coming away from the terminal board: bands must be attached as close as possible to the terminals, no more than 10mm away, taking care not to damage wire insulation. No cable may remain unpaired.
- The bands are only for unsheathed cables (sheathed cables are held in place by the sheath).
- Pay careful attention not to pair wires with voltages higher than 50 Volt RMS with lower voltage wires.
- The wiring performed internally by the manufacturer is already equipped with clamping bands.

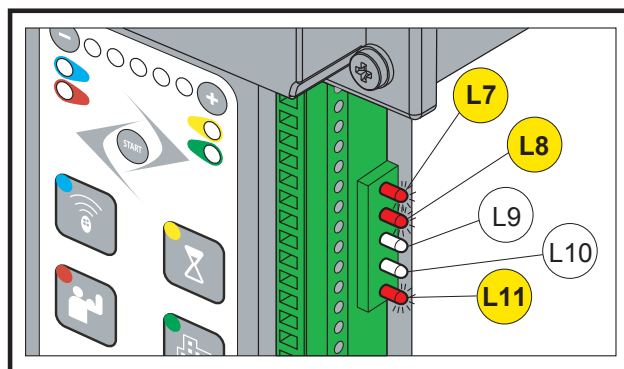
ATTENTION: the connections pre-wired by the manufacturer may not be altered under any circumstances.

1.1.1 Indicator LEDs

There is a row of 5 LEDs on the right hand side of the board, under the terminals. These LEDs are lit when the corresponding signal is present.

For **N.C.** inputs **STOP** and **PHOTO**, the corresponding LEDs **L7** and **L11** are normally on, for the **RESISTIVE** input corresponding LED **L8** is normally on if jumpered with 8.2k Ω resistance.

For the **N.O.** inputs **CLOSE** and **STEP**, the corresponding LEDs **L9** and **L10** will be switched off. These LEDs therefore indicate any malfunction of the connected devices.



1.2 List of electric cables

The cables needed may vary depending on the installation and type and quantity of devices installed. The cables used in the installation must be IEC 60335 compliant.

ATTENTION: the cables used must be suited to the type of installation. It is the Fitter's responsibility to choose appropriate material.

- **Use the power supply cable provided with the operator only.**
- **The power cable provided may not be extended or shortened.**
- All wires must be unsheathed as little as possible (6mm at the most), as close as possible to the connection terminals, in order to prevent accidental contact with live parts should the cables disconnect from the terminals.
- Do not pre-seal cables to be fastened to the terminals using screws.
- If it is possible that wires subject to voltage higher than 50 Volt RMS and very low voltage safety wires may come into contact with one another, wires with voltage higher than 50 volt RMS must be insulated with a sheath; or the very low voltage safety wire must have an insulating sheath at least 1mm thick.
- No external connection cables must be of the flat twin tinsel cord type.

Pos.	Connection	Type of cable
1	Electricity supply line	3x1.5 mm ² cable
2	Power supply	Cable supplied with Schuko socket
3	Flashing light	2x1 mm ² cable
4	Radio aerial	Screened RG58 50 Ω cable
5	Foto Tx	2x1 mm ² cable
6	Foto Rx	4x1 mm ² cable
7	Selector	3x1 mm ² cable
8	Internal button panel.	3x1 mm ² cable
9	Sensitive strip (signal)	2x1 mm ² cable
10	Digital LifeTechnology photocells	3x1 mm ² cable

1.3 Setting up the electric system and connection to the mains supply

This manual does not describe how the electrics system should be prepared for connection to the mains. It does, however, give the following warnings:

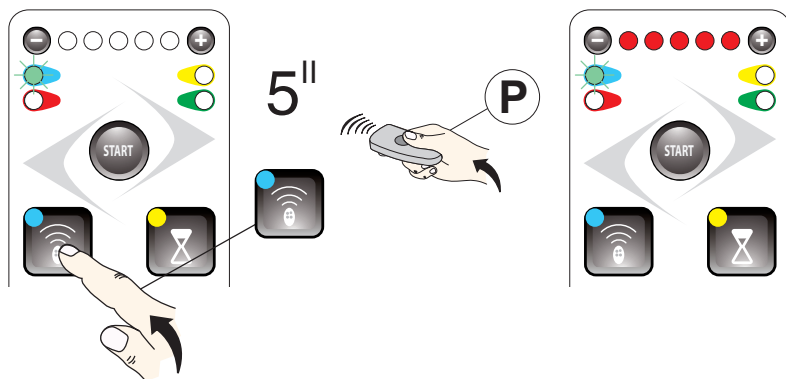
- The electricity supply line must be installed and connected by an authorised electrician or professional fitter.
- The electricity supply must be adequately protected against short circuits and static discharge.
- The power supply network must contain an omnipolar circuit breaker with a contact opening distance equal to or greater than 3.5 mm that assures the complete disconnection of the power supply.






2 RADIO CONTROL MANAGEMENT

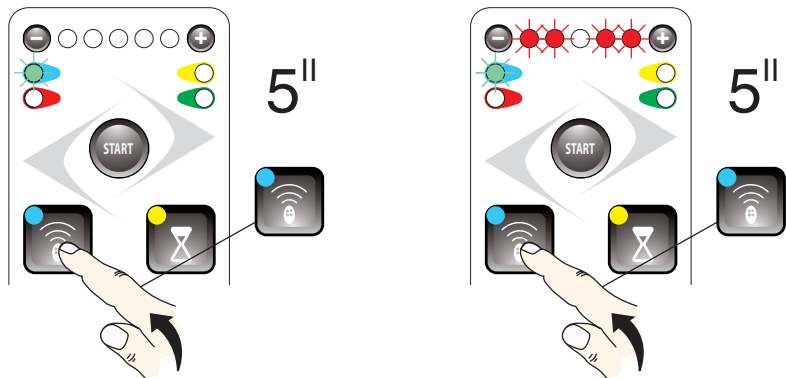
The control unit is fitted with a built-in radio receiver with a 1 channel 1000-code memory, with a 433.92 MHz frequency with LIFE Rolling Code and Auto code encoding.





2.1 Resetting an initialised radio control



- Press , for 5 seconds, the green LED will light and then start flashing.
- Hold down the key on the radio control until all five LEDs light , the remote control has been.
- Wait 25 seconds or press  again to quit.

2.2 Resetting all identified radio controls



- Press , for 5 seconds, the green LED will light and then start flashing.
- Press for 5 more seconds , the first two and the last two LEDs will flash alternatively . After alternate flashing all initialised remote controls are reset.
- Wait 25 seconds or press  again to quit.

3 ADJUSTMENTS

3.1 Function modes

There are 3 different operation modes that can be selected, **SEMI-AUTOMATIC**, **AUTOMATIC RECLOSURE** and **CONDOMINIUM**. The selection of one mode excludes the others.

3.1.1 Semi-automatic

Present by default after control unit programming.

In this mode, by pressing the 'STEP' command, the automation changes its motion according to the sequence 1 – OPEN 2 – STOP 3 – CLOSE 4 - STOP; for example, if the automation is opening and one selects the step command on the remote control, the automation stops; conversely, if the automation is closed, when the step command is given it opens.

Automatic re-closure is not enabled.

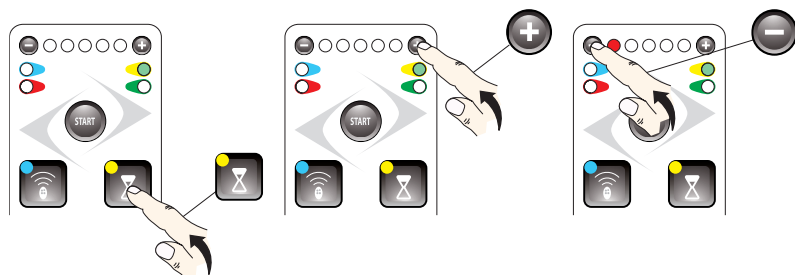
OPEN » STOP » CLOSE » STOP







3.1.2 Automatic reclosure







Automatic reclosure is activated after a preset PAUSE TIME.



In this mode, by pressing the 'STEP' key, the automation changes its motion according to the sequence 1 – OPEN 2 – PAUSE 3 – CLOSE 4 - PAUSE; for example, if the automation is opening and one selects the step command on the remote control, the automation stops in pause; conversely, if the automation is closed, when the step command is given it opens. **PAUSE TIME** is intended as the pause time before automatic re-closure.



Press  the green LED (DX) switches on:

- if none of the LEDs  is switched on, automatic reclosure is not enabled, to enable it press ;
- if at least one of the LEDs  is switched on, automatic reclosure is enabled, to deactivate it press  until all the LEDs switch off.



LEDS ON	PAUSE TIME
	AUTOMATIC RE-CLOSURE IS NOT ENABLED
	5 s
	10 s
	30 s
	60 s
	120 s

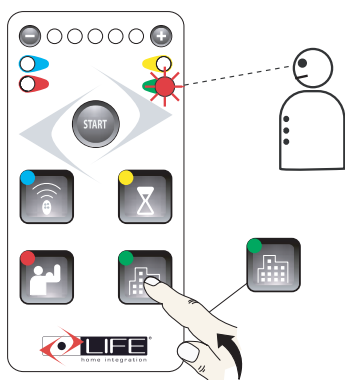
Press  and  to set the various **PAUSE TIME** values.







Wait 25 seconds or press  again to quit.

OPEN » PAUSE » CLOSE » PAUSE

3.1.3 OPTION MENU 1

Press  to enter OPTION menu, press repeatedly  to select further options, the flashing led shows the position, by pressing button + the function is activated (red led on), by pressing button – the function is deactivated.



LEDS ON	OPTIONS 1
	NO FUNCTIONS ACTIVATED
	Block of apartment: Step-by-step in opening
	Modifies the function in: OPENING-STOP-CLOSING-STOP
	Elimination small reversal
	Clock Option - 6 -9 for connexion use
	Profile Overhead door recomended use with APRB

3.2 Functions

3.2.1 Courtesy light

The courtesy light function switches a light on during any automation movement. The light remains on after the last manoeuvre for a 30-second period.

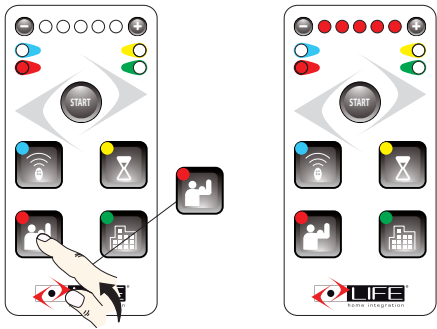
3.2.2 Deceleration in opening and closure

The automation decelerates in the final stretches of opening and closure.



3.2.3 Force

The force function regulates the thrust and the speed of the automation.



Press the red LED (SX) switches on.
Press and to set the various force values.

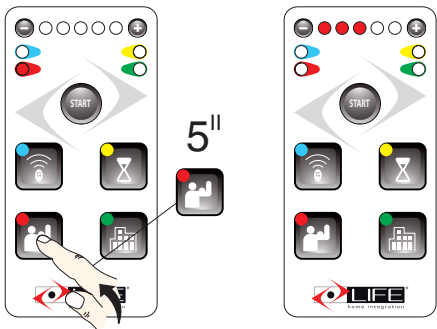
LEDS ON	FORCE VALUE
	Minimum
	Default slowdowns activated
	Slowdowns disabled

N.B. After any variation to the force value set we recommend performing an opening and a closure to update the control unit with the new value.

3.2.4 Obstacle detection

The automation is fitted with an obstacle detection system: the automation inverts its movement when it strikes an obstacle during the opening and closure phases. Sensitivity regulation consists in greater or lesser rapidity in response to the obstacle.

- 1) During the closure phase, if the control unit identifies an obstacle, the automation inverts motion and performs complete opening. If the obstacle is detected 3 times consecutively, the automation stops in a completely open position awaiting a command.
- 2) If the control unit identifies an obstacle, the automation performs a short reversal of motion, before stopping awaiting a command.



Press for 5 seconds, the red LED (SX) will light and then switch off.
Press and to set the various obstacle detection values.

LEDS ON	OBSTACLE DETECTION
	MINIMUM
	MAXIMUM

Wait 25 seconds or press again to quit.

3.3 Fuses

The external **fuse** is located on the main 24V volt power supply, protecting against transformer secondary overload.
Technical features: miniature fuse 5x20 T1,6A, IEC 60127 or EN 60127 certified.

The **internal** fuse is located on the secondary 24V volt power supply, protecting against transformer secondary overload.
Technical features: miniature fuse 5x20 T6,3A, IEC 60127 or EN 60127 certified.





4 TROUBLESHOOTING

This chapter describes the most frequently encountered problems with the solutions for resolving them. In certain cases, it is explicitly envisaged that operations be performed by a professional fitter: these indications must be followed in order to avoid exposure to serious risks.

4.1 Malfunctions indicated on the control unit

The malfunctions detected by the control unit are indicated through the lighting of the 5 LEDs on the display.

The control unit also indicates the presence of a fault on the exterior through the flashing lamp: three flashes and a pause, if the motor is in motion.

SIGNAL	MALFUNCTION	ACTION	POSSIBLE SOLUTION
	Obstacle	The check intervenes inverting motion, i.e. performing an opening, and when it reaches the end of the stroke, it awaits a new signal (even in condominium mode); however, if the system is opening, it intervenes inverting the motion for a short stretch (3/4 cm) and then stopping until such time as new commands are given.	N.B. Obstacle detection sensitivity regulation is described in the ADJUSTMENTS CHAP.
	This class includes various incorrect and unsafe operation situations	The control intervenes by passing the system to the operation condition with dead man command and reduced speeds.	N.B. In this situation release the automation and call for technical assistance.

N.B. if the problems persist it is absolutely necessary to call the assistance service.

5 BUFFER BATTERIES (OPTIONAL)


- a) The **RG1 24DL** control unit can be fitted with a pair of 2Ah 12V buffer batteries (AGE 12) (optional), which allows emergency operation in the event of a power failure.
- b) The batteries must be installed and replaced at the end of their service life by a PROFESSIONAL FITTER and not by the user, as there are live parts close by.
- c) The control unit is designed to house an AGECH battery charger, which automatically charges the connected pair of batteries.

In the event of power failure, the automation operates in a partial way for a certain number of actions.

The gate switches into "DEAD MAN" mode (persistent commands) automatically.

The photocells, flashing light, courtesy light, indicator light and other devices connected to the auxiliaries power supply do not work.

The electric lock only works manually.

Battery function is indicated on the control unit by the alternate flashing of the green LEDs: .



6 GENERAL INFORMATION

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With the aim of improving its products, 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.

6.1 INFORMATION ON THE MANUFACTURER

LIFE home integration is the manufacturer of the **RG1 24DL** control unit (referred to for short as "control unit") and the owner of all rights concerning this document. The Manufacturer's information as required by Machinery Directive 98/37/EC is given below:

• Manufacturer:	LIFE home integration
• Address:	Via I Maggio, 37 – 31043 FONTANELLE (TV) Włochy
• Telephone:	+ 39 0422 809 254
• Fax:	+ 39 0422 809 250
• http:	www.homelife.it
• e-mail:	info@homelife.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.

For further information on technical and/or commercial issues and technician call-out and spares requests, Clients may contact the Manufacturer or area representative from which the product was purchased.

6.2 INTENDED USE

- The **RG1 24DL** control unit has been exclusively designed to command 1 electromechanical operator with 230 Vac power supply destined to motorising 'residential' type leafs. 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 fitter's responsibility and the warranty shall be rendered void.
- The control unit may not be installed or used in potentially explosive environments.
- Motorised gates must conform to current European standards and Directives, including EN 12604 and EN 12605.
- The control unit may only be used when in perfect working order and in compliance with the intended use, in the awareness of safety and hazard conditions and in compliance with the instructions for installation and use.
- Any dysfunctions 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 characterised 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, electrics and electronics as well as current sector legislation and regulations.
- 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 46/90, directive 98/37/EC, 73/23/EEC, 89/336/EEC and subsequent amendments. He/she must also make constant reference to harmonised standards EN 12453 and EN 12445.
- The indications given in this manual 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 this manual in a safe and easily accessible place so that it can be consulted rapidly when necessary.
- During installation, connection, trial run and usage of the control unit, observe all applicable accident prevention and safety regulations.
- In the interests of safety and optimal functioning of the control unit, only use original spares, accessories, devices and fastening apparatus.
- Do not perform alterations on any control unit device or component. This type of operation may cause malfunctions. The manufacturer declines all responsibility for damage caused by products that have been modified.
- Should liquids penetrate inside the control unit, disconnect the electricity supply and contact the Manufacturer's Assistance Service immediately; use of the control unit in such conditions may cause hazard situations.
- In the event of long periods of inactivity, in order to prevent the leakage of harmful substances from the battery (optional), it should be removed, stored in a dry place and recharged 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 closed, dry places, at room temperatures of between -20 and +70°C and raised off the ground.
- Keep the control unit away from sources of heat and naked flames, which could damage it and cause malfunctions, fires or hazard situations.

8 INSTALLATION

ATTENTION: Important safety instructions. Follow all instructions carefully, incorrect installation may cause serious injury.

Before commencing installation we highly recommend reading the instructions and warnings contained in this manual carefully (see the **SAFETY INSTRUCTIONS AND WARNINGS** Chap) and observing the instructions it contains.

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 normally open/off buttons installed for the activation of the operator must be positioned so that they are within view of the gate but distant from moving parts. Unless said commands operate using keys, they must be positioned at a minimum height of 1.5m and not accessible to unauthorised persons.
- During installation, make constant reference to harmonised standards EN 12453 and EN12445.
- Ensure that the individual devices to be installed are compatible with the **RG1 24DL** control unit. Do not proceed if even just one device is unsuitable for the intended use.
- Ensure that the place of installation of the central unit is not prone to flooding, does not contain sources of heat or naked flames, fires or hazard situations in general.
- During installation, protect control unit components in order to prevent liquids (e.g. rain) and/or foreign bodies (earth, gravel, etc) penetrating inside.
- Connect the control unit to a power supply line created in compliance with current regulations and earthed and fitted with a power supply sectioning switch.
- Wrapping materials must be disposed of in compliance with local regulations.
- Wear protective goggles when making holes for clamping.

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

9 TESTING AND TRIAL RUN

- **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 which the control unit is a part) to perform the checks required in accordance with the risks existing and to check conformity with the relevant legislation and standards, in particular with EN standard 12445, which governs the methods for performing trials on gate automations and EN standard 12453 that specifies the performance requisites concerning safety of use.**
- The testing and trial run are the most essential phases of installation for guaranteeing maximum operating safety.
- The checks and procedures for testing may also be used for routine checks on the automation and its devices.
- The automation may only be tested if a non-hazardous force tolerance has been set. Force tolerance must be adjusted to a minimum value so as to exclude the danger of injury during closure.
- Adjust the maximum force in line with EN standard 12445.
- Never touch the gate or moving parts when they are in motion.
- Remain at a safe distance when the gate is in motion: only pass when the gate is completely open and immobile.
- In the event of malfunctions (noisiness, jerky movements, etc.) suspend the use of the automation immediately: failure to observe this rule may entail serious hazards, risks of accidents and/or serious damage to the gate and the automation.
- 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 leaf or between the two leaves);
 - b) impact and crushing in the opening area;
 - c) shearing between the 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 INDICATIONS 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 selector or the radio 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 necessary to be certain of perfect operation.
- Ensure the correct operation of the LEDs on the keyboard of the control unit (see specific manual).
- In particular, for photocell checks, check that there is no interference with other devices. Pass a cylindrical tube with a diameter of 5cm and a length of approximately 30 cm through the optic axis that connects the two photocells. Perform this check firstly close to the transmitter and then close to the receiver and lastly halfway between the two.
- In all three cases, the device must intervene by passing from the active state to the alarm state and vice versa, thus causing the action set on the control unit: for example, during a closure manoeuvre it must cause inversion of movement.
- Perform the photocell operation test required in compliance with EN standard 12445 p. 4.1.1.6. The results must satisfy EN standard 12453 p. 5.1.1.6.

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 temporary 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,
 - manuals of the individual components,
 - 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
- b) Fix a CE marking plate to the gate, bearing at least the following information:
 - Name and address of the party responsible for installation and testing;
 - Type of automation,
 - model,
 - registration number,
 - year of installation,
 - CE mark.
- c) Fill in the declaration of conformity and give it to the owner of the automation.
- d) Compile the guide with the instruction manual (EN 12635 p. 5.3 and 5.4) and give it to the owner of the automation.
- e) Compile the maintenance and improvement log (EN 12635 p. 5.3) and give it to the owner of the automation.
- f) Compile the guide containing the instructions for maintenance that provides instructions concerning the maintenance of all automation devices (EN 12635 p. 5.3 and 5.5) and give it to the owner of the automation.
- g) Before the first use of the automation, the owner must have been given adequate information concerning hazards and residual risks.

10 SAFETY INSTRUCTIONS AND WARNINGS

10.1 Instructions and warnings 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 usually present in moving gates: impact and crushing against the main closure surface (of the single leaf or between the two leaves); impact and crushing in the opening area; crushing between the mobile and fixed guide and support parts during movement; 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.
- Keep this manual in a safe and easily accessible place so that it can be consulted rapidly when necessary.
- Before activating the gate ensure that all persons are at a safe distance.
- Never touch the gate or moving parts when they are in motion.
- Remain at a safe distance when the gate is in motion: only pass when the gate is completely open and immobile.
- Do not allow children to play with gate controls; do not leave radio controls or other control devices within children's reach.
- Prevent children from playing or standing in the vicinity of the gate or the control organs (radio controls). The same precautions should be adopted for disabled persons and animals.
- In the event of malfunctions (noisiness, jerky movements, etc.) suspend the use of the automation immediately: failure to observe this rule may entail serious hazards, risks of accidents and/or serious damage to the gate and the automation. Contact a PROFESSIONAL FITTER and in the meantime use the gate manually by disconnecting the operator (see the OPERATOR/ACTUATOR RELEASE chapter) of the operator manual.
- In order to maintain the automation in efficient conditions, ensure that the operations indicated in the **MAINTENANCE** chapter are performed at the frequency indicated by a PROFESSIONAL FITTER.
- Examine the installation frequently in order to check that there are no signs of mechanical unbalance, wear and damage to the wires and assembled parts: do not use the operator until the necessary repairs or adjustments have been made.
- Should liquids penetrate inside the control unit, disconnect the electricity supply and contact the Manufacturer's Assistance Service immediately; use of the control unit in such conditions may cause hazard situations. The automation may not be used in these conditions, even with buffer batteries (optional).
- 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 Maintenance instructions and warnings

- 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 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.
- Any checking, maintenance or repair work must be conducted by a **PROFESSIONAL FITTER**
- Always switch off the electricity supply in the event of malfunctions, breakdowns and before any other operations in order to avoid the gate 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.
- 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 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.
- In the event of intervention of automatic or fuse switches, before restoring function conditions identify and eliminate the fault. Request the intervention of a **PROFESSIONAL FITTER**.
- The disconnection and replacement of the pair of buffer batteries (optional) may be performed by a **PROFESSIONAL FITTER** only.
- If a fault that cannot be solved following the information contained in the present manual arises, contact the manufacturer's assistance service.
- All maintenance, repair or replacement of parts must be recorded in the maintenance log, which is **SUPPLIED AND INITIALLY FILLED IN BY THE FITTER.**

11.2 Routine maintenance

Every 6 months a **PROFESSIONAL FITTER** should repeat the series of tests described for automation testing (see **INSTALLATION MANUAL – TESTING AND TRIAL RUN** Chap.). – **TESTING AND TRIAL RUN** Chap.).

12 DEMOLITION AND DISPOSAL

- The control unit is constructed using various materials, which implies 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 buffer 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 1 Maggio, 37
31043 FONTANELLE (TV) – Italy

declares that the following product:

RG1 24DL 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.

Fontanelle _____

Name of Signor:

Faustino Lucchetta

Position:

Managing Director

Signature:





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