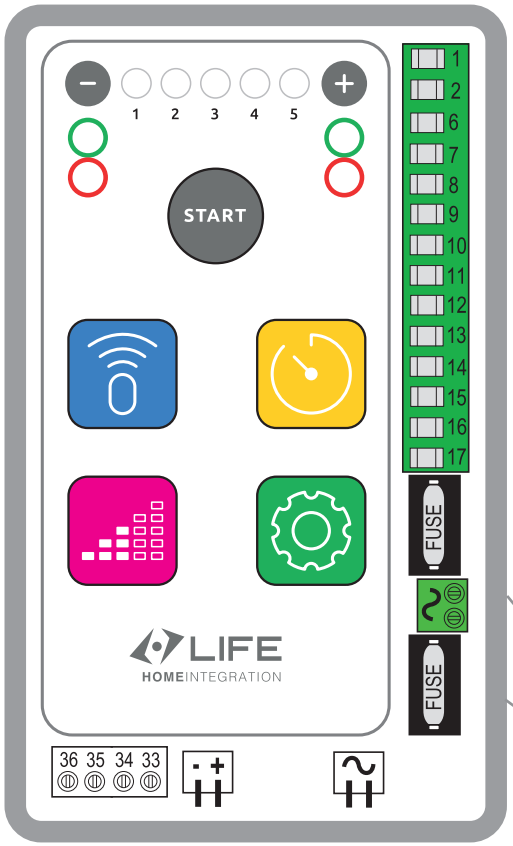
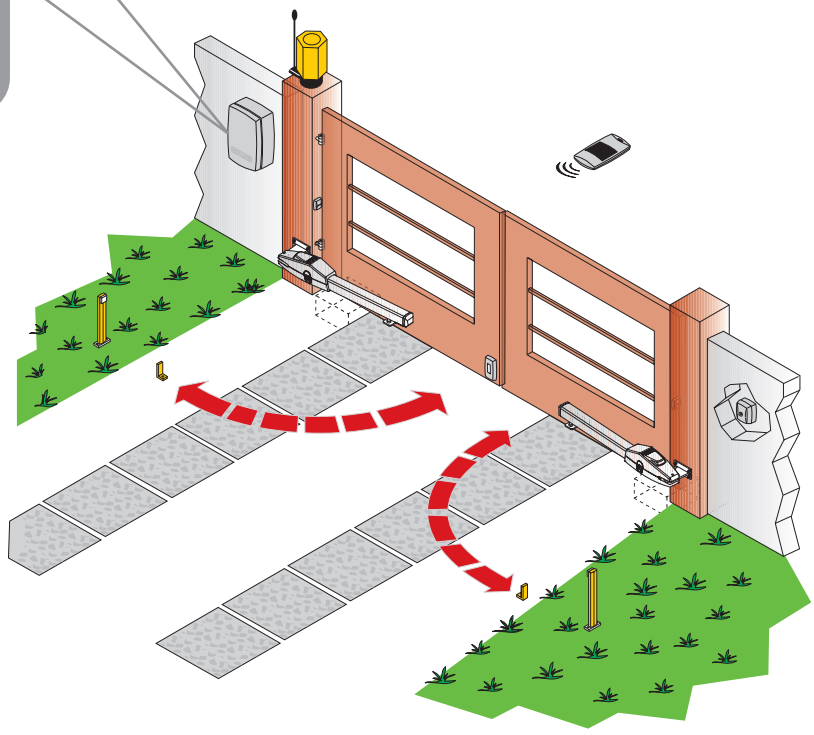
GE UNI 24R DL2

EN

CONTROL UNIT FOR TWO-LEAF GATES

INSTRUCTIONS AND WARNINGS FOR INSTALLATION AND USE





Technical manual

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LIFE HOMEINTEGRATION

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GENERAL INDEX

INSTALLER

FINAL USER

1 - GENERAL SAFETY INSTRUCTIONS

1.1 Important safety instructions

Important safety instructions.
For personal safety it is important to follow these instructions.
Keep these instructions.
The device must be disconnected from the power supply during cleaning and maintenance operations and the replacement of components.
Do not allow children to play with the gate control devices. Keep remote controls away from children.
Monitor the moving gate and keep people away as long as the automation is moving.
Be careful when operating the manual release device as the leaves could move with the windand cause damage to people or things.
Check the system frequently, in particular the hinges and mechanical stops, check for signs of wear or damage.
Do not use, if repair or adjustment is required, as an installation failure can cause injury.
Check monthly that the safety devices are functioning and efficient.
If necessary, adjust or recheck, incorrect adjustment can present a hazard.
If the intervention does not restore the correct functioning of the automation, contact the authorized technical assistance center.
The automation must not be installed at an altitude above 2,000 m above sea level.
In accordance with the installation rules, insert a device that ensures complete disconnection from the power supply with a contact opening distance in overvoltage category III.
If the power cable is damaged, it must be replaced by the manufacturer or its technical assistance service or in any case by a person with a similar qualification, in order to prevent any risk.

1.2 - General safety warnings

Automation for swing gates.
The gate can operate unexpectedly, therefore do not allow
anyone or anything to stop in the gate movement area.
Follow all the instructions as incorrect installation can cause damage to people and things.
Permanently fix the warning labels against entrapment in a very visible point or near any fixed control devices.
Make sure that the entrapment between the gate and the fixed parts due to the opening movement of the gate you avoided. Permanently fix the manual release label adjacent to its control unit.
After installation, make sure that the parts of the gate do not clutter public roads or sidewalks.
After installation, ensure that the protection systems work as expected.
This information must also be included in the instructions.
This appliance can be used by children under 8 years of age and by people with reduced physical abilities, sensory or mental impairments or lack of experience or necessary knowledge, as long as they are under surveillance or after they have received instructions relating to the safe use of the appliance and the understanding of the dangersinherent in it.
Children must not play with the device.
Cleaning and user maintenance operations must not be carried out by children without supervision.
To reduce the chance of impact while the gate is moving, it is possible to install a pair of photocells (recommended height 500mm) in order to detect the presence of any obstacles. Alternatively an EN12978 sensitive edge can be installed on the main impact profile.
The sound pressure level of the A-weighted emission is less than 70 dB(A)
The drive cannot be used with a motorized part incorporating a wicket door, unless this is in the safe position.

1.3 - Warnings and symbols used

DANGER! This symbol with the word “Danger” indicates a high risk threat which, if not avoided, could result in serious injury or death.

ATTENTION! This symbol, together with the word "Caution", indicates the risk of possible material damage.

WARNING! This symbol with the word "Warning" indicates a threat to medium risk which, if not avoided, could result in death or serious injury.

1.4 - General information

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Translation into another language, even partial, is prohibited without prior written authorization e subsequent verification of LIFE home integration.
All rights to this document are reserved. LIFE home integration is not liable for damages or malfunctions caused by incorrect installation or improper use of the products; you are therefore invited to carefully read this manual.
LIFE home integration is not liable for damage or malfunctions caused by the use of the control unit control with devices from other manufacturers; this also entails the invalidity of the guarantee.
LIFE home integration is not liable for damage or injury caused by failure to observe the information on the installation, commissioning, maintenance and use reported in this manual, as well as from failure compliance with the safety instructions given in chap. SAFETY REQUIREMENTS AND WARNINGS.
LIFE home integration, in order to improve its products, reserves the right to modify them in any time and without notice. This document reflects the state of automation alla which is attached at the time of its marketing.

1.5 - Manufacturer's data

LIFE Home Integration is the manufacturer of OPTIMO OP2 + GE UNI 24R DL2 motors and owner of all rights relating to this document.

- Producer: LIFE Home Integration
- Address: Via Sandro Pertini, 3/5 – 31014 Colle Umberto (TV) Italia
- Telephone: + 39 0438 388592
- Fax: + 39 0438 388593
- website: www.homelife.it
- email: info@homelife.it

The identification plate, bearing the manufacturer's data, is applied to the gear motor and inside the electronic control unit.
The plate specifies the type and production date (month/year) of the product.
For technical and/or commercial information, request to send technical personnel, request for parts of replacement, the customer can contact the manufacturer or the area representative where he was purchased the product.

1.6 - Intended use

The GE UNI 24R DL2 electronic control unit has been designed exclusively for automation low voltage swing gates.

Any other use is to be considered non-compliant with the intended use and is prohibited by the regulations in force.

• The control unit must only be used with LIFE products.

• The manufacturer declines all responsibility for damage caused by a different use.

The risk is exclusively borne by the installer and the guarantee is void.

The gearmotor and control unit cannot be installed and used in places at risk of explosion.

Gates that are automated must comply with current European standards and directives, including EN 12604 and EN 12605.

The gearmotor and the control unit must only be used in technically perfect condition and according to the intended use, in awareness of the safety and danger conditions, and in observance of the installation and use instructions. Malfunctions which could endanger safety must be rectified immediately.

• The gearmotor and the control unit must only be installed in places not subject to the risk of flooding.

• Do not use the system in ambient conditions with aggressive atmospheric agents (eg saline air).

The actuator is suitable for installations on gates with leaves with the measurements and masses indicated in chapter 2.1 Dimensions and limits of use Page 8.

1.7 - Safety instructions and warnings

• This manual is intended for PROFESSIONAL INSTALLERS only.

The installation of the automation requires practical and theoretical knowledge of mechanics, electricity and electronics, as well as the legislation and regulations in force in the sector.

• Once the electromechanical gearmotor has been installed, users are prohibited from carrying out any operation on the control unit which, as mentioned above, are intended exclusively for personnel qualified.

• Installers must operate in compliance with the law.

They must also make constant reference to the harmonized standards EN 12453 and EN 12445.

• The indications provided in this manual must always be observed during installation, the connection, adjustment, testing and setting of the control unit. The Builder declines every liability for damage or injury caused by failure to observe the instructions contained in this manual.

• The Manufacturer declines all responsibility if the installer does not take care of the above indications.

• Keep this manual in a safe and easily accessible place so that it can be consulted quickly when needed.

• During installation, connection, test operation and use of the control panel, observe all applicable accident prevention and safety regulations.

• For safety and optimum system operation, use only spare parts, accessories and fixtures from original fixing.

• Do not make changes to any device or system component. This operation can cause malfunctions and exclude the manufacturer's liability for the products.

• In case of contact of liquids with the control unit, disconnect the power supply and contact contact the Manufacturer's Assistance Service immediately, this is very dangerous for the user.

• If you encounter any failures or problems that cannot be solved with the information contained in this manual, contact the Manufacturer's assistance service.

• Keep the electromechanical gearmotor away from sources of heat and flames, which can cause malfunctions, fires or dangerous situations.

• The electromechanical gearmotor must be stored in closed, dry places at a temperature ambient between –20 and +70°C and raised off the ground.

• The Manufacturer declines all responsibility for damage to the operation of the gearmotor electromechanical caused by non-compliance with the storage regulations given here.

1.8 - Instructions and warnings for installation

ATTENTION: Important safety instructions. Carefully follow all instructions, an incorrect installation can cause serious injuries.
Before starting the installation, it is strongly recommended to read the instructions and warnings in this manual carefully (see Chapter GENERAL SAFETY INSTRUCTIONS)
Follow and observe attentively these instructions.

- Before starting installation, carefully read the INSTRUCTIONS AND SAFETY WARNINGS.
- THE PROFESSIONAL INSTALLER of the gate motor is responsible for the risk analysis and the adjustment of automation safety devices.
- The Installer must verify that the temperature range declared on the electromechanical operator is according to the place where the device is installed.
- Before installing the operator, the gate must be in good mechanical condition and properly balanced. The opening and closing operations must work correclty.
- Carefully follow the fixing instructions given in chapter 3-INSTALLATION pag. 9 and 4-ELECTRONIC CONTROL UNIT ASSEMBLY INSTRUCTIONS pag. 15.
- If a "dead man switch" control is installed, this must be in a way in which it is possible to have a direct view of the moving parts, but it has to be on a certain distance from them.
Unless it is key operated, it must be installed at a minimum height of 1.5m and non accessible to the public.
- During installation, make constant reference to the harmonized standards EN 12453 and EN12445.
- Make sure that the single devices which are going to be installed are compatible with the electromechanical operator. Do not proceed if even one single device is non suitable for the intended use.
- Make sure that the installation site of the control unit is not subject to flooding, does not contain sources of heat or flames, fires or dangerous situations in general.
- During installation, protect each components of the control unit in order to prevent liquids (e.g. rain) from and/or foreign bodies (dust, earth, gravel, etc.) to get inside.
- Connect the control unit to a power line made in compliance with current regulations, equipped with earthing and mains switch.
- Only connect the gearmotor to an electrical supply line built in accordance with the standards in force, equipped with a device for complete disconnection of the line in category conditions overvoltage III, according to applicable national standards.
- Packaging materials must be disposed of in accordance with local regulations.
- Wear protective gear and goggles when drilling holes for locking.

If working at 2 m heights or over from the ground level (i.e. installing a warning light or an antenna), installers must be equipped with ladders, safety harnesses, protective helmets and all the necessary equipment required by the law and by the rules that regulate this type of work.

1.9 - Commissioning

- Testing and commissioning must be performed by a supervised QUALIFIED PERSON and assisted by a PROFESSIONAL INSTALLER.

The person who tests and sets up the automation (the control unit is part of the automation itself) has the responsability to carry out all required checks, according to the existing risks. This same person must verify compliance with the reference standards, in particular the EN the 12445 standard, which specifies the test methods to be applied to a power operated door, as well as the EN 12453 standard, which establishes the performance's requirements in terms of safety in use.
For the correct set up of all the controls, see chapter 5 PROGRAMMING THE CONTROL UNIT p. 18 and chapter 8 SPEED AND SENSITIVITY ADJUSTMENT pag. 21

- Testing and testing phases are essential to ensure operational safety.
- Test controls and procedures can also be used for routine checks on automation and its devices.

• The automation can only be tested if a non-dangerous force tolerance has been set.
The force tolerance must be set to a minimum value to avoid the risk of injury during the closing operations.
• Adjust the maximum force in line with the EN 12445 standard.
• Never touch the gate or moving parts while they are in motion.
• Remain at a safe distance when the gate is moving: pass it through when the gate is fully open and stationary only.
• In case of malfunctions (noisiness, jerky movements, etc.) suspend immediately the use of the automation: failure to comply with this rule may lead to a Major Accident Hazard and/or it can damage the gate and the automation.
•Keep always in mind the gate risk assessment while this is moving:
a) impact and crushing against the main closing edge;
b) impact and crushing in the opening area;
c) crushing during movement, between the movable and fixed parts of the rail and the support;
d) mechanical risks caused by movement.

1.10 - Testing and start up

During the testing phase, make sure that the impact force measurement of the gate has been carried out according to EN 12445 and 12453 standards.
• Be sure directions provided have been carefully followed. In particular:
GENERAL SAFETY INSTRUCTIONS chap. 1.1 - 1.2 - 1.6 - 1.7 - 1.8 - 1.9.
• Make sure the automation is correctly adjusted and the protection and release systems are working properly.
ATTENTION: once the automation has been tested, parameters set must not be changed.
If further adjustments are made (changes the sensitivity and force value), all necessary checks for tests and in accordance with the EN 12445 standard must be redone.
The automation can only be used for the first time once all checks have been run successfully, as described in the TESTING chapter.
The automation cannot be used in unstable conditions.
a) Fill a technical form for automation, which must include:
• a mechanical and electrical diagram,
• risk analysis and solutions adopted to eliminate or reduce risks,
• components' manual,
• list of components used,
• instructions and warnings to be used by the owner,
• maintenance manual,
• declaration of conformity.
b) Set a plate on the gate, bearing the following information:
- Name and address of the the individual carrying out the installation and tests
- Type of automation - Model - Registration number
- Year of installation - CE mark.

c) Fill the declaration of conformity and give it to the owner of the automation.
d) Fill the guide with the instruction manual and give it to the owner of the automation.
e) Fill the maintenance and improvement register and give it to the owner of the automation.
f) Fill the maintenance manual which provides instructions for the maintenance of all automation devices and give it to the owner of the automation.
g) Before using the automation for the first time, the owner must have been informed about the hazards and risks.
h) Leave the manual release label, next to the actuation system.

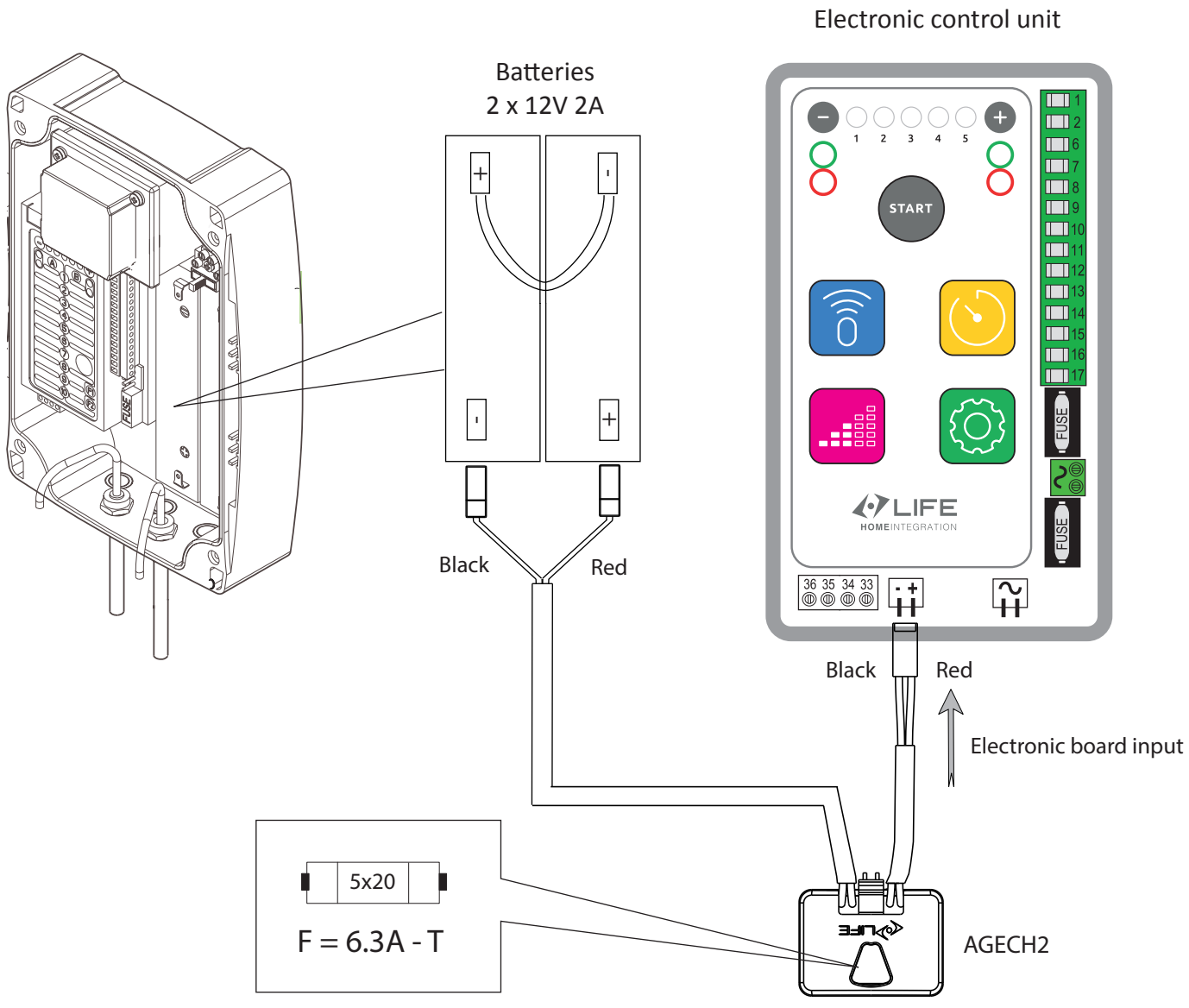
2 - TECHNICAL DATA

CT2 24 UNI control unit for LIFE 24V gearmotors.

		GE UNI 24R DL2
Nominal tension	V	230
Frequency	Hz	50 - 60
Nominal power	W	240
Protection class	IP	44
Operating temperature range	°C	-10 ÷ +50
Dimensions of the control unit	mm	300 X 200 H90
Weight of the control unit	Kg	2.6

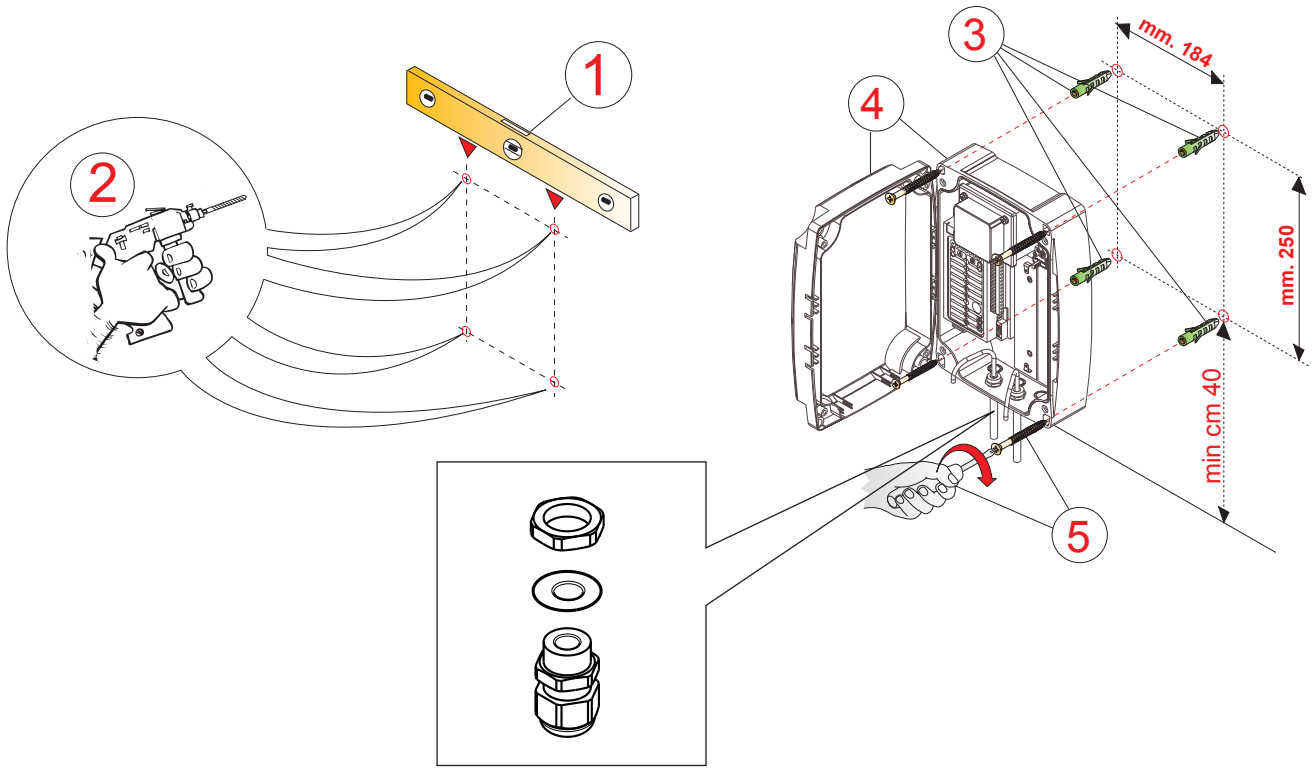
2.1 - Connecting an emergency Battery (Optional AGEX KIT)

An emergency power system is an independent source of electrical power that supports important electrical systems on loss of normal power supply.
Its autonomy is about 8 hours for about ten manoeuvres.
The following diagram shows the way to connect it.



4 - GE UNI 24R DL2 ELECTRONIC CONTROL UNIT ASSEMBLY INSTRUCTIONS

Fasten the plastic container containing the control unit with the suitable dowels supplied for the masonry structures or screws of suitable size and shape for fixing on metal structures.



4.1 - Electronic control unit electrical connections

The cables must enter the control unit on the underside via suitable cable gland, compliant with the IP degree of the elements to be wired. For correct operation, respect the dimensions indicated in table, the greater the distance between the engine and the electronic control unit, the greater the section of the conductor copper must be.

ATTENTION!

N.B. The use of the control unit beyond 15 meters from the engines is not recommended.

Description of electric cables.

Pos.	Connection	Cable Type and Length
1	Control unit power supply	Cavo 2x1,5 mm2
2	Photocell power supply	Cavo 4x0,5 mm2
3	Flashing power supply	Cavo 2x0,5 mm2
4	Command button connections	Cavo 5x0,5 mm2
5	Motor power supply **OP2**	Cavo 2x1,5 mm2 Max 6mt / 2x2.5 da 6mt a max 15mt
6	Motor power supply **ARMOR**	Cavo 2x1,5 mm2 Max 6mt / 2x2.5 da 6mt a max 15mt
7	Motor power supply **OP3/OP5 24**	Cavo 2x1,5 mm2 Max 6mt / 2x2.5 da 6mt a max 15mt
8	Motor power supply **ERGO 24**	Cavo 2x2,5 mm2 Max 6mt / 2x4 da 6mt a max 15mt

The flexible cables that are connected inside the control unit must be in polyvinyl chloride (60227 IEC 57) resistant to at least 90°C.
The flexible cable connected to the actuator must be in polychloropropene (60245 IEC 57).

3.2 - Links and connections

- Before proceeding with the wiring and connections read carefully the chapter PRESCRIPTIONS AND WARNINGS FOR SECURITY and PRESCRIPTIONS AND WARNINGS FOR THE INSTALLATION.
- All of the wiring and connecting operations must be performed with the power source disconnected. If the device is not visible, a warning plate must be placed “ATTENTION: UNDER MAINTENANCE”.

3.3 - Electronic control unit connections

Clamps	Description (see electrical picture, page 11)
1	**ANTENNA:** Stocking antenna input , use RG58-50 Ohm cable.
2	**ANTENNA:** Antenna cable input.
6	**COMMON COMMANDS:** For the inputs: STOP - OPEN - CLOSE - STEP BY STEP - PH.OTO.
6 - 7	**STOP:** N.C. Input . The command causes the gate to stop. Safety devices, such as the emergency stop button, can be connected to it. When the command is released, automatic closing is never carried out. A new movement command must be given. If no device is provided, then leave the jumper.
6 - 8	**OPEN:** N.O. Input. The command causes the gate to open.
6 - 9	**CLOSE:** N.O. Input. The command causes the gate gate to close. PHOTO1: To connect a photocell which activates or stops the gate opening and closing, with OPTION 1 Led 4, the input is N.C.
6 - 10	**STEP-BY-STEP:** N.O. Input. It manages the gate’s movement as per below: FOUR STEPS MODE: Open, Pause, Close, Pause. SEMI-AUTOMATIC MODE: Open, Stop, Close, Stop. CONDOMINIUM MODE: Opens (automatic closure with active pause time).
6 - 11	**PHOTO1:** N.C.Input for photocells or safety devices. It does not interfere with the opening cycle; During gate closing, it causes inversion of movement until the gate is fully open. If no device is provided, then leave the jumper.
12 - 13	**RELAY CONTACT:** Contact output Multifunction relay, with OPTION 2: Radio contact NO Contact or Step-by step output.
14 - 16	**ELECTRIC LOCK:** 12Vdc output for connecting the 12Vdc 15VA electric lock. To activate it, select the function from the Options menu 1 Led 3.
15 - 16	**FLASHING:** 230 Vac 25W max output for connection of the flashing lamp.
16	+
17	-
~	**24 Vac OUTPUT:** To power several devices, max 200mA.

30 VDC OUTPUT: To power several devices, max 200mA.

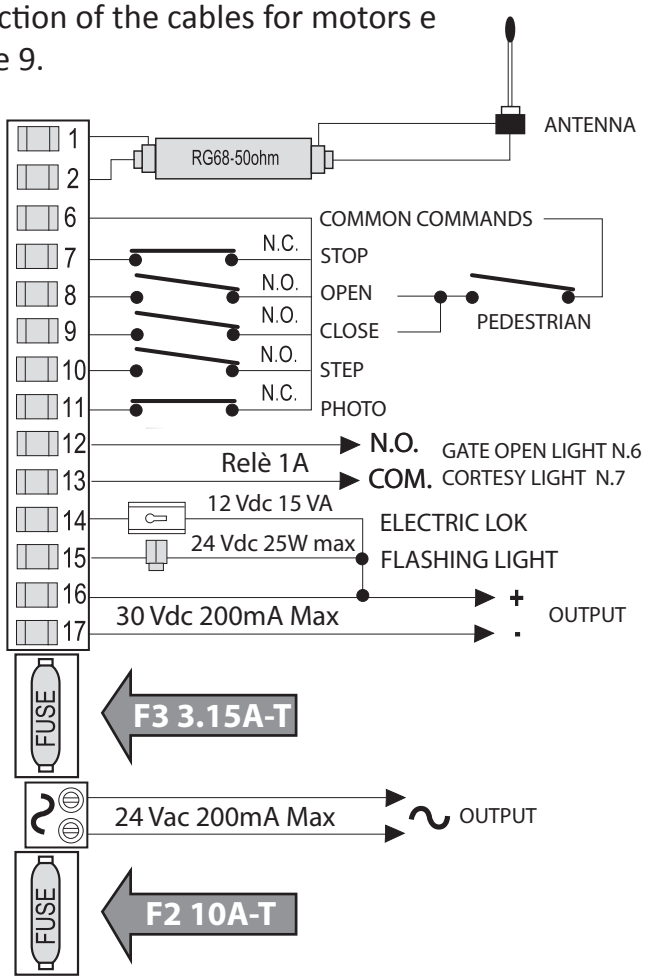
PEDESTRIAN: The command determines a partial opening. It can be given with a remote control or with the terminal board. This terminal block is obtained by bridging terminal 8 OPEN with terminal 9 CLOSE. This jumper then connects through a switch to terminal 6 COMMON. The PARTIAL command from the terminal board excludes the OPEN and CLOSE commands.

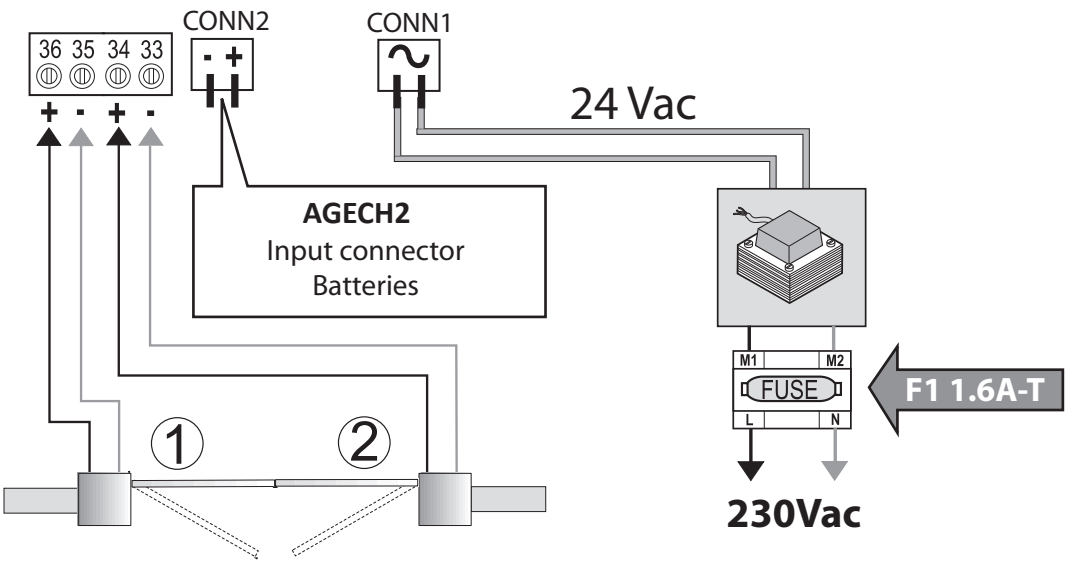
N.C. = Contact normally closed - N.O = Contact normally open

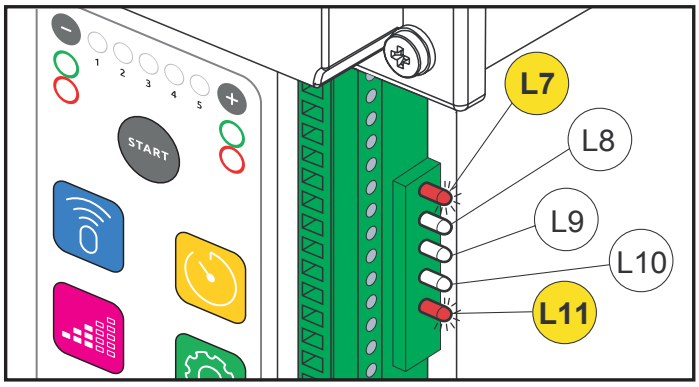
	Connections on the lower side of the control unit	
CONN-1	**24Vac:** Transformer power input	
CONN-2	AGECH-2 battery charger connection	
33 - 34	**- / +**	Motor 2, from closed Opens second.
35 - 36	**- / +**	Motor 1, from closed Opens first.

4.4 - Electrical connections

It is important to respect the section of the cables for motors e accessories as indicated on page 9.

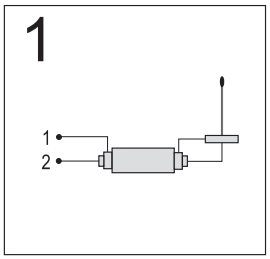


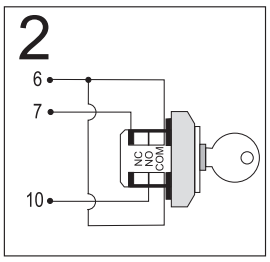


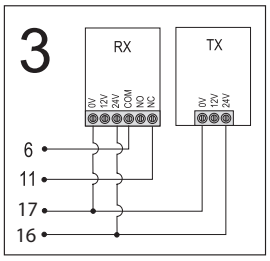


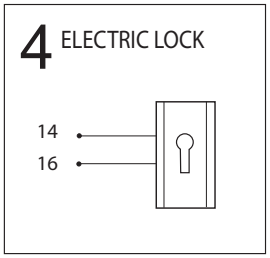
LED INDICATOR LIGHTS

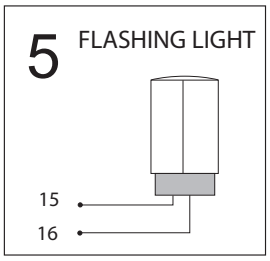
There is a row of 5 LEDs on the right side of the board, under the terminals. These LEDs are lit when the corresponding signal is present. For N.C. inputs STOP and PHOTO, the corresponding LED L7, L11 are normally ON. For the N.O. inputs OPEN, CLOSE and STEP -BY-STEP, the corresponding LED L8, L9 and L10 will be switched off. These LED therefore indicate any malfunction of the connected devices.

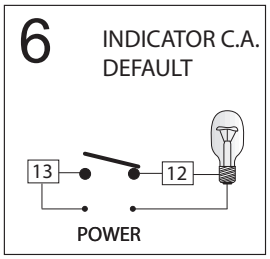


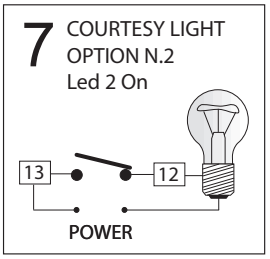






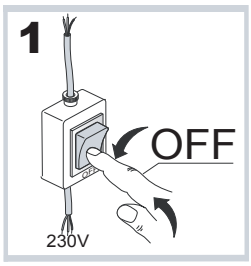


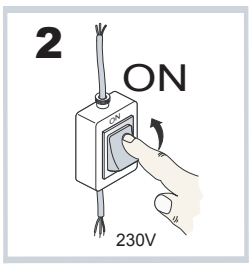




4 - CONTROL UNIT SETUP

AVVERTENZA

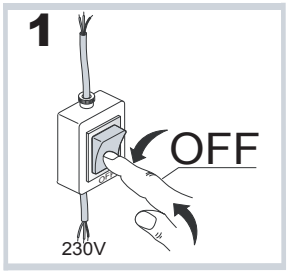


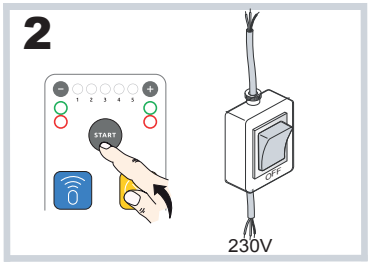


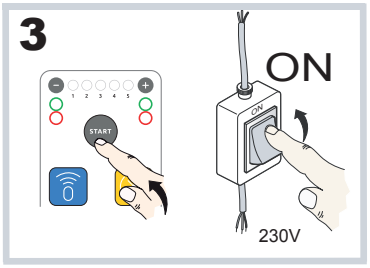
Energy Saving

To optimize energy consumption, we have introduced the Energy Saving function. After 10 minutes from the control unitsetup, the front panel LEDs turn off and the use of the keyboard is inhibited. To reactivate it, it is necessary to switch the control unit off and on again

4.1 - Total reset



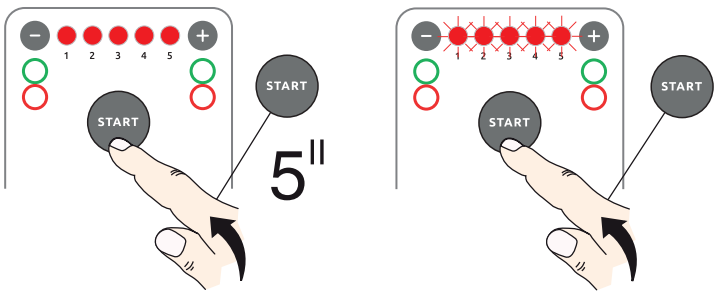


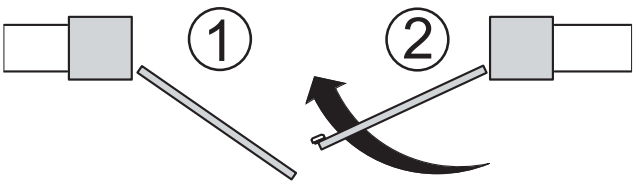


Power off the system, hold the start button, power on again and release the start button once the red LEDs come on.

4.2 - – Run the initial setup and phase lag

N.B. If only one motor is used, connect it to terminals 35 - 36.
Make sure you have fixed the mechanical opening and closing limit switches of the automation.





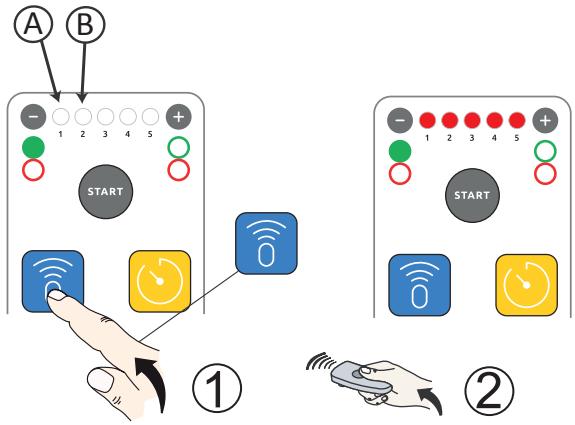
a) Place the leaves at 45°.
b) Press and hold down the START button for 5 seconds until all 5 red LEDs blink.
c) Press START, the automation performsin sequence:
- close leaf 2;
- close leaf 1;
- open leaf 1;
- open leaf 2 with phase shift.
- close leaf 2.
- close leaf 1 with phase shift.

Once programming is complete, the two green LEDs flash, while the two red LEDs turn on with steady light.
Once programming is complete, The START key can be used as a STEP command for 10 minutes.
If the result is not satisfactory, it is possible to carry out manual programming to define different phase lags. See chapter N. 10 Page 18.

5 - REMOTE CONTROL

The control unit is fitted with a built-in radio receiver with a 750 codes memory and 2 channels with a 433.92 MHz frequency with LIFE Rolling Code and Auto code encoding.

5.1 - Remote learning



A - Total Opening

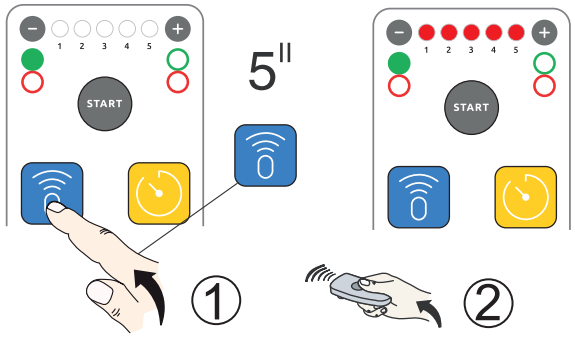
- Press the key fob selection button (top left); the left green LED under "–" symbol and the first red dot (A) beside "– "symbol, will light up.
- Hold down the P1 button on the transmitter that you want to program to determine a total opening until all five LEDS light up.

B - Pedestrian Opening Leaf N.1

- Press the key fob selection button (top left) twice; the left green LED under "–" symbol and the second red dot (B) beside "– "symbol, will light up.
- Hold down the button on the transmitter that you want to program to determine a partial opening until all five LEDS light up

Wait 20 "or press again the key fob selection button to quit the setup mode.

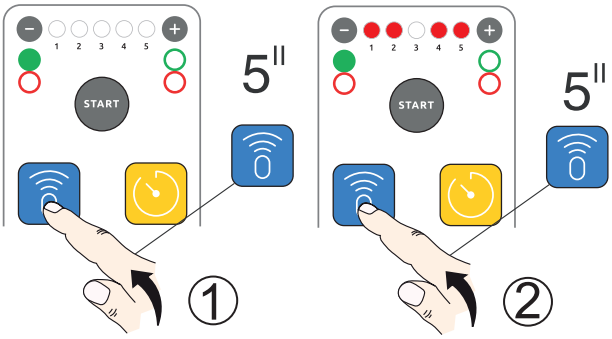
5.2 - Remove an existing remote transmitter



- Press and hold the key fob selection button for 5 seconds until the left green light under "–" symbol turnes on and then starts blinking.

- Hold down the button on the transmitter that you want to remove until all five LED's light up.

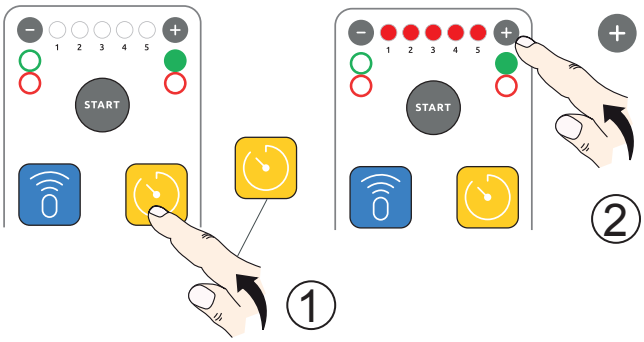
5.3 - Remove all existing remote transmitters



- Press and hold the key fob selection button for 5 seconds until the left green light under "–" symbol turnes on and starts blinking.
- Press and hold the key fob selection button down again for 5 seconds and the LED's will blink alternately.
- As soon as the flashing stops, all remotes will be successfully deleted.

6 - OPTIONS SETTING

6.1 - Automatic re-closure



Automatic re-closure is activated after a preset PAUSE TIME.

a) Press the TIMER BUTTON. The green right Led turns on.
- If none of the leds "-" "+" is turned on, the automatic re-closure is not actived. Press the "+" button to activate it.
- If at least one of the leds "1" is on, the automatic re-closure is activated. In order to deactivate it press the "-" button until all of the Leds are off.

DANGER!

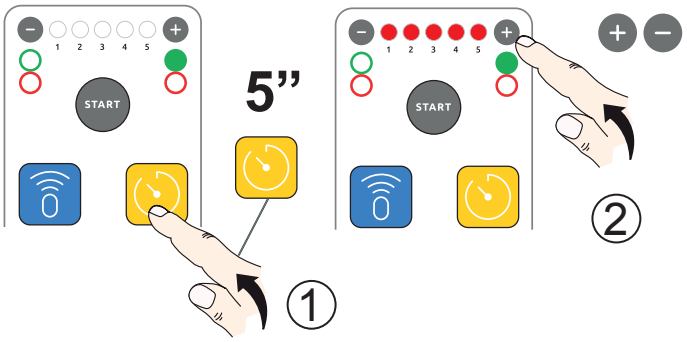
The activation of the RE-CLOSURE AUTO generates a uncontrolled movement of the gate.

By pressing "-" and "+", you can set the PAUSE TIME settings.
Work cycle: OPEN - PAUSE - CLOSE - PAUSE

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

Wait 20" or press the TIMER BUTTON again to quit the setup mode.

6.2 - Slowdown time adjustment



Press the TIMER button (top right), for 5''.
The green and red LEDs (on the right) light up.
- With one LED on, minimum slowdown.
- With five leds on, maximum deceleration.
- To eliminate slowdowns, switch off all the LEDs.

With the "-" and "+" buttons it is possible to change the parameters.

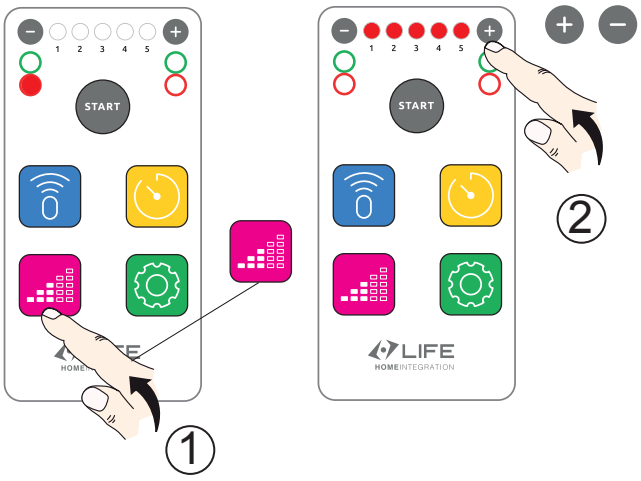
ATTENTION:
The slowdown can NOT be completely eliminated. In this phase the thrust in the limit switch determines the stop of the motor stroke

LEDS ON	DECELERATION TIME
⊖○○○○○⊕	MINIMUM
⊖●○○○○⊕	
⊖●●○○○⊕	DEFAULT
⊖●●●○○⊕	
⊖●●●●○⊕	
⊖●●●●●⊕	MAXIMUM

Wait 20" or press the TIMER BUTTON again to quit the setup mode.

7 - SPEED AND SENSITIVITY

7.1 - Speed adjustement



- Press the SPEED button (bottom left). The left red LED lights up:
By pressing "-" or "+" the speed can be adjusted.

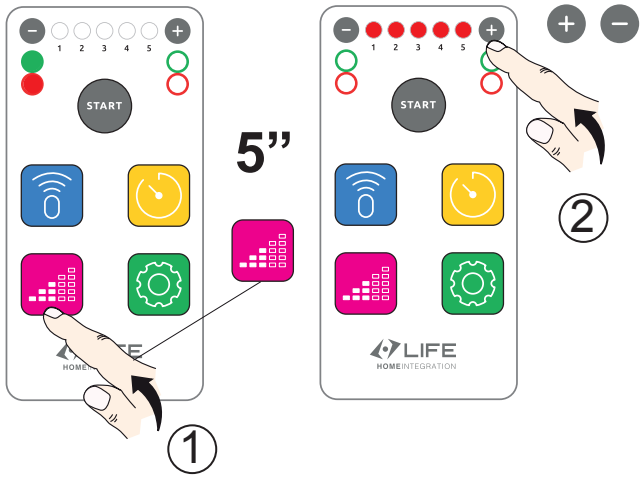
LED ON	SPEED
⊖○○○○○⊕	MINIMUM 75%
⊖●○○○○⊕	85%
⊖●●○○○⊕	80%
⊖●●●○○⊕	DEFAULT 90%
⊖●●●●○⊕	95%
⊖●●●●●⊕	MAXIMUM 100%

DANGER!

Parameters such as speed and obstacle sensitivity must be adjusted accordingly to the type of gate and its use in compliance with the laws of the country in which the gate is installed.

Wait 20” or press the SPEED button to exit from the programming mode.

7.2 - Motor sensitivity asjustement



- Press the SPEED button (bottom left) for 5”. The green and red LEDs on the left turn on.
Pressing "-" or "+" , the sensitivity can be adjusted.

LED ON	SENSITIVITY
⊖○○○○○⊕	MINIMUM
⊖●○○○○⊕	
⊖●●○○○⊕	DEFAULT
⊖●●●○○⊕	
⊖●●●●○⊕	
⊖●●●●●⊕	MAXIMUM

DANGER!

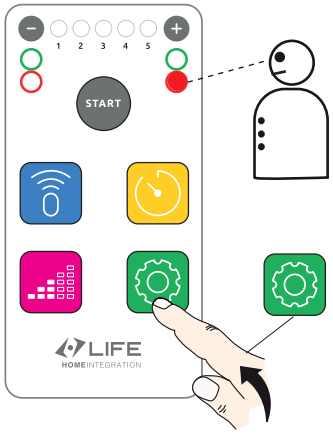
Parameters such as speed and obstacle sensitivity must be adjusted accordingly to the type of gate and its use in compliance with the laws of the country in which the gate is installed.

Wait 20” or press the SPEED button to exit from the programming mode.

8 - OPTIONS MENU

8.1 - Option 1

Press the OPTIONS button (bottom right) to enter the OPTIONS MENU 1. Press it again in sequence to scroll through the available options.
The flashing LEDsindicate the position and the corresponding option.
By pressing button “+” the function is activated (red LED on). By pressing button “-” the function is deactivated (LED off).

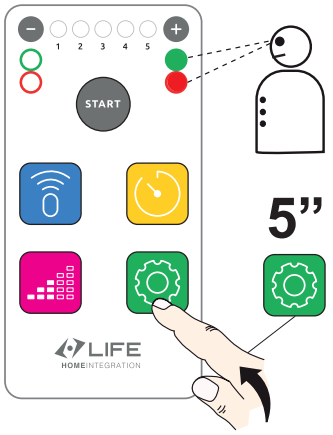


LED ON	OPTION 1
⊖○○○○○⊕	No active functions.
⊖●○○○○⊕	Condo options: step command only opening
⊖○●○○○⊕	Change operating mode: OPEN-STOP-CLOSE-STOP
⊖○○●○○⊕	Electric lock activation.
⊖○○○●○⊕	The CLOSE input becomes PHOTO1.
⊖○○○○●⊕	Activating PHOTO anticipates re-closure.

Wait for 20” or press the OPTIONS BUTTON again to exit programming mode.

8.2 - Option 2

Press the OPTIONS BUTTON for 5” to enter the OPTION MENU 1. Press it again in sequence to scroll through the available options.
The flashing LEDS indicate the position and the corresponding option.
By pressing button “+” the function is activated (red LED on). By pressing button “-” the function is deactivated (LED off).



LED ON	OPTION 2
⊖○○○○○⊕	No active functions.
⊖●○○○○⊕	Increase the speed during slowdown.
⊖○●○○○⊕	The output Relay 12 - 13 becomes COURTESY LIGHT.
⊖○○●○○⊕	Safety intervention delay during movement.
⊖○○○●○⊕	* Operation in MAN'S SWITCH.
⊖○○○○●⊕	** Enable parameters for **ERGO 24V** motor.

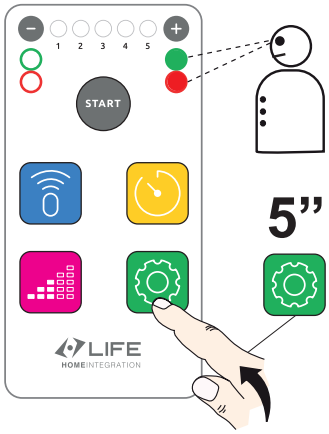
* N.B. The command in man present works exclusively from the terminal board input:
Open - Close - Step by Step.

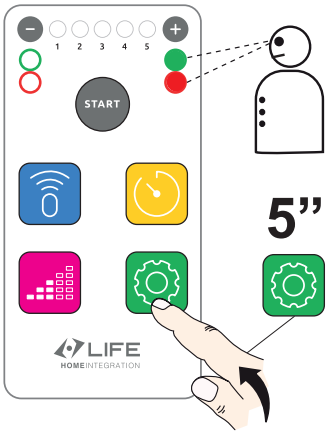
** N.B. After enabling the ERGO option, reset the control unit chap. 5.1 page 12.

Wait for 20” or press the OPTIONS BUTTON again to exit programming mode.

8.3 - Option 3

Press the OPTIONS button for 5” and again for another 5” to enter the OPTION MENU 3.
Press it again in sequence to scroll through the available options.
The flashing LEDS indicate the position and the corresponding option.
By pressing button “+” the function is activated (red LED on). By pressing button “-” the function is deactivated (LED off).

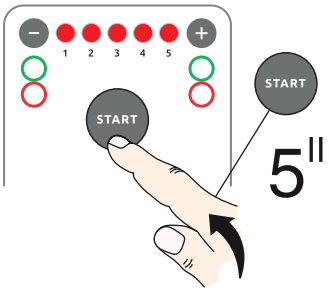




LED ON	OPTIONS 3
⊖○○○○○⊕	No active functions.
⊖●○○○○⊕	Brief inversion to STOP
⊖○●○○○⊕	Eliminate short inversion ERGO
⊖○○○○○⊕	----------
⊖○○○○○⊕	----------
⊖○○○○○⊕	----------

Wait 20” or press the OPTIONS BUTTON to exit the programming mode.

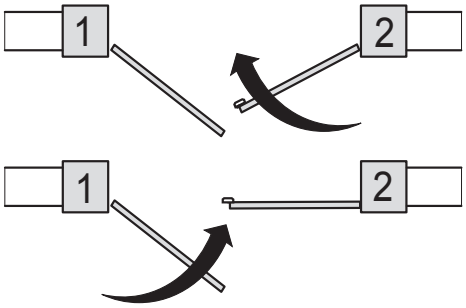
9 - MANUAL SETUP



Manual setup can be done with a button connected to terminals 6 - 10 (Step-by-Step) or with the previously programmed fob transmitter.

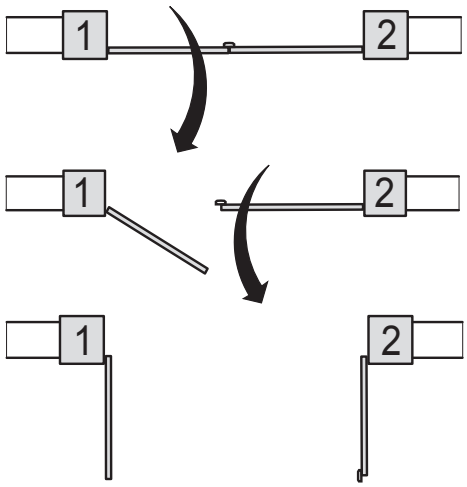
Place the motors (leaves) at 45 °.
Hold the START button for 5 seconds. The 5 LEDs first light up and then flash.

9.1 - Limit switch learning in closing phase



While the 5 LEDs are flashing, give a Step-by-Step command. The leaf [2] must move performing a closure. Once the mechanical stop has been reached, it must stop and the Right LED lights up with a red steady light.
Give a second step-by-step command. The leaf [1] must perform a closure. Once the mechanical stop has been reached, it must stop and the Left LED lights up with a red steady light..

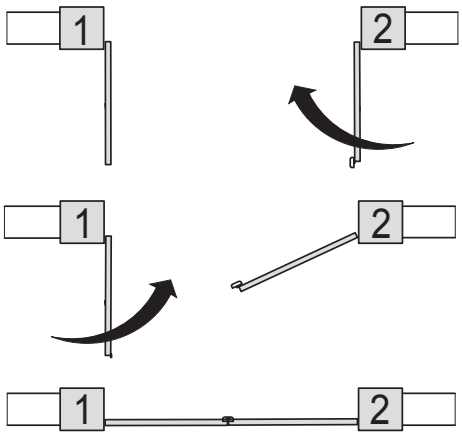
9.2 - Limit switch learning in opening phase and phase lag



Give a Step-by-Step command. The leaf [1] starts opening. As soon as it reaches the point where you want to start opening leaf [2], give a further Step-by-Step command.

The two leaves now open until they reach their respective mechanical stops. The two red LEDs on the left and on the right remain with a steady red light.

9.3 - Learning of closing phase lag



Give a Step-by-Step command. The leaf [2] starts closing. As soon as it reaches the point where you want to start closing leaf [1], give a further Step-by-Step command. The two leaves now close until they reach their respective mechanical stops. The two red LEDs on the left and on the right remain with a steady red light.

Automation is now programmed in semi-automatic mode. If the result obtained is not satisfactory, reset the control unit and start again from point 7.

10 - INSTRUCTIONS AND WARNINGS FOR THE USER

• It is the installer's duty to perform risk analysis and inform the user/owner of any existing residual risks. Any residual ri sk detected must be recorded.
• 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.
• 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 instructionsfor 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 isin 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'sreach.
• Prevent children from playing orstanding 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 INSTALLER and in the meantime use the gate manually by disconnecting the gearmotor (see the GEARMOTOR/MANUAL RELEASE chapter) GEARMOTOR/MANUAL RELEASE chapter) of the gearmotor manual.
• In order to maintain the automation in efficient conditions, ensure that the operationsindicated in the MAINTENANCE chapter are performed at the frequency indicated by a PROFESSIONAL INSTALLER.
• 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 gearmotor 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. Uuse 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.

10.1 - Indications for use

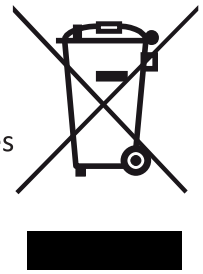
• It is possible to use the gate automatically, remotely with a fob, with a key placed close to the gate or any other buttons even inside the house, ONLY once the instruction in chapter INSTRUCTIONS AND WARNINGS OF SAFETY FOR THE USER have been well noted.

10.2 - Instructions and warnings for maintenance

• Once the automation has been tested, the set parameters must not be changed.
If further adjustments are made (e.g. alterations of the voltage value), all NECESSARY CHECKS AND TESTS MUST BE REDONE IN ACCORDANCE WITH STANDARDS.
• The Manufacturer declines any responsibilities for damages or injuries caused by failure to follow ALL the information provided in this manual and the safety instructions below.
• The Manufacturer declines any responsibilities for damage and malfunctions from non-observance of the maintenance instructions.
• To keep the operator efficient and safe, follow the cleaning, inspection and maintenance procedures routine described in this manual. This is the owner's duty.
• Any check, maintenance or repair must be carried out by a PROFESSIONAL INSTALLER.

• Always disconnect the power supply in the event of malfunctions, failures and before any other maintenance or cleaning operation in order to prevent the gate from being activated.
• Always disconnect operator power supply before performing any operation.
• The owner is NOT authorized to remove the control unit cover as it contains live parts.
• If the power cable is damaged, it must be replaced by the Technical Assistance service in any case by a person with similar qualifications in order to avoid risks.
• Do not make technical or programming modifications to the control unit.
Operations of this type can cause malfunctions and/or risk of accidents.
The manufacturer declines all responsibility for damage caused by modified products.
• In case of intervention of circuit breakers or fuse, before restoring the conditions of operation identify and eliminate the anomaly.
Request the intervention of a PROFESSIONAL INSTALLER.
• The disconnection and replacement of the backup battery (optional if provided) can be carried out only by a PROFESSIONAL INSTALLER.
• If a fault occurs that cannot be solved by following the information contained in this manual. Contact the manufacturer's assistance service.
• Any maintenance, repair or replacement of parts must be recorded in the register of maintenance, PROVIDED AND INITIALLY FILLED IN BY THE INSTALLER.
Every 6 months a PROFESSIONAL INSTALLER has to repeat the all the checks described to test the automation (see INSTALLATION MANUAL - TESTING AND TESTING).

10.3 - Demolition and disposal



• • The electromechanical gearmotor is constructed using various materials, which impliesthe 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).
• Batteries must be removed from the Control Unit before disposal.
Disconnect the control unit from the electricity supply before removing batteries.
• Contact qualified companies for disposal.
CAUTION: gearmotor disconnection from the mainssupply must be performed by a qualified electrician using suitable tools.
This symbol indicates that the product cannot be disposed of with domestic waste, in accordance with the WEEE Directive (2012/19 / EU), and / or national laws in force.
The product must be delivered to a designated collection point, for example the seller in case purchase of a new similar product or an authorized collection center for waste recycling electrical and electronic equipment (WEEE). Improper treatment of this type of waste can have negative consequences on the environment and human health due to the potentially harmful substances usually contained in such waste.
The user's cooperation forthe correct disposal of this product will contribute to an effective use of natural resources and will avoid incurring administrative penalties pursuant to Article 255 and subsequent of Legislative Decree n. 152106.
For more information on the recycling of this product, contact the local authorities, the waste collection agency, an authorized retailer or the household waste collection service.

10.4 - Emergency manual release

Unlocking is performed using a key which must be kept in a safe place.
For the manual release procedure, refer to the technical manual of the gearmotor.
a) Open the lock protection flap.
b) Insert the key in the lock and turn it; the transmission is now unlocked.
c) Repeat the operation in the reverse order to relock the gearmotor.

11 - TROUBLESHOOTING GUIDE

DIAGNOSTICS	REPAIRS
The control unit does not turn on.	- Check that the main switch is on. - Check the fuses on the electronic board.
Motors do not respond to commands of the remote control.	- Remote control is not stored. - Check the remote control battery. - Check the wiring and the position of the antenna - Be sure there are no external elements which can interfere with the radio signal: electricity pylons, reinforced metal walls, etc. If so, provide an external antenna.
The safety photocells interfere with opening but not with closing.	- Repeat the programming. Make sure the first maneuver is a close.
Fault indication: 5 LEDs on.	- Make sure there are no obstacles which can block the gate movement.
Fault indication: Led 1,2 on Fault indication: Led 1,3 on	- Make sure the limit switches are in the correct position.
The gate slows down but can't close.	- Check sensitivity and strength parameters.
The gate doesn't close.	- Check the correct functioning of the photocells. - Check that the safety inputs are active Pag.11 LED light indicators.

ATTENTION!

Checks and repairs must be carried out only and exclusively by qualified and experienced personnel.

NOTE

EU DECLARATION OF CONFORMITY

Number: 08A/8-23

LIFE home integration
31014 COLLE UMBERTO (TV) Italia
Via Sandro Pertini 3/5

Declares that the following product:

GE UNI 24R DL2

Electronic control unit for swing gates.

It complies with the essential requirements of the following directives:

- 2014/53/UE – Radio Equipment Directive (RED).
- 2011/65/UE – Directive on the restriction of the use of certain dangerous substances (ROHS)

It meets the essential requirements of the following EU regulations:

- EN IEC 61000-6-1:2019
- EN IEC 61000-6-3:2021
- EN IEC 61000-3-2:2019 + A1:2021
- EN 61000-3-3:2013 + A1:2019 + A2:2021 + A2/AC:2022
- ETSI EN 301 489-1 (V2.2.3 – 2019)
- ETSI EN 301 489-3 (V2.1.1 – 2019)
- EN 60335-2-103:2015
- EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019 +A15:2021
- EN 62233: 2008

The responsibility for the technical acts lies with the signatory.

COLLE UMBERTO

24/02/2023

Signer's name: Rui Michele

Position CEO

Signature: .....

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