ACER R DL + RG1R DL2

EN

ELECTROMECHANICAL GEARMOTOR FOR SLIDING GATES WITH INTEGRATED ELECTRONIC CONTROL UNIT

INSTRUCTIONS AND WARNINGS FOR INSTALLATION USE AND MAINTENANCE

AC4R-AC4RM	DL2 400 Kg
ACER AC6R-AC6RM	DL2 600 Kg
ACER AC8R-AC8RM	DL2 800 Kg
ACER AC12R-AC12RM	DL2 1200 Kg
ACER AC15RM	DL2 1500 Kg
ACER AC20RM	DL2 2000 Kg

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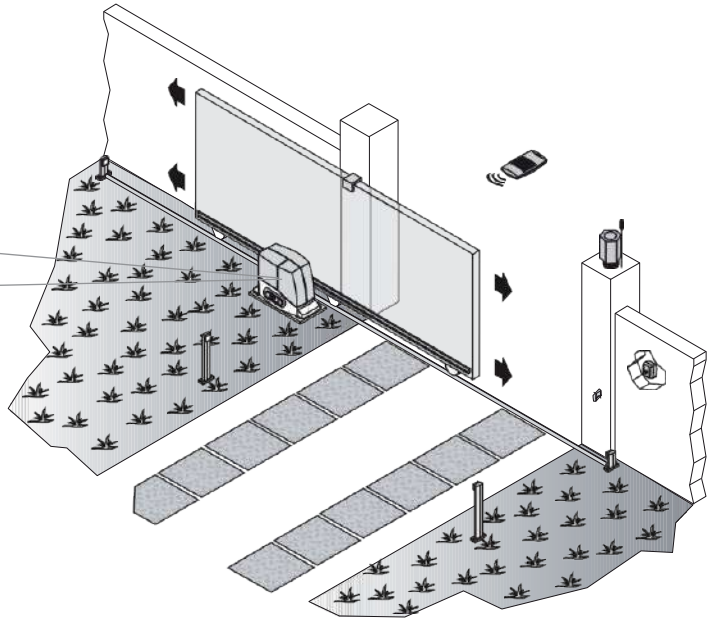

LIFE HOMEINTEGRATION

The image is for the sole purpose of presenting the product.

GENERAL INDEX

INSTALLER

FINAL USER

1 - GENERAL SAFETY INSTRUCTIONS

1.1 Important safety instructions

For your personal safety, it is important to follow these instructions and keep them in a safe place.
The device must be disconnected from the power supply during installation, cleaning, maintenance and replacement of components.
Do not allow children to play with the gate control devices. Keep remote controls out of the reach of children.
Monitor the moving gate and keep people away while the gate is in motion. Be careful when operating the manual release device as there may be uncontrolled gate movement due to mechanical failure or out-of-balance conditions.
Frequently check the system, in particular the hinges and mechanical stops, check the presence of signs of wear or damage.
Do not use if repair or adjustment is necessary, as the movement of the sashes can cause injuries.
Check the safety devices on a monthly basis, they must be functional and efficient.
Adjust or recheck if necessary, incorrect adjustment can be dangerous. If the intervention does not restore the correct operation of the drive, contact the authorised service centre.
The automation must not be installed at an altitude of more than 2,000 m above sea level.
In accordance with the installation regulations, insert a device that ensures complete disconnection from the power supply with contact opening distance in overvoltage category III.
If the power cable is damaged, it must be replaced by the service technician or in any case by a person with similar qualifications, in order to prevent any risk.

1.2 - General Safety Warnings

Automation for sliding gates.
The gate may operate unexpectedly, so do not allow people or things to stand in the gate's movement area.
Follow all instructions as incorrect installation can cause injury to persons and damage to property.
Permanently affix warning labels against entrapment in a highly visible place or near fixed controls.
Ensure that entrapment between the gate and fixed parts due to the opening movement of the gate is avoided.
After installation, ensure that the gate parts do not obstruct public roads or pavements. After installation, ensure that the protective systems function as intended.
This information must also be included in the instructions.
This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they are supervised or instructed in its use by a person responsible for their safety. Children must not play with the device.
Cleaning and maintenance operations for the user must not be carried out by children without supervision.
To reduce the possibility of impact in the gate's movement areas, a pair of photocells (recommended height 500mm) can be installed to detect the presence of any obstacles, or an EN12978-compliant sensitive edge 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 motorised part incorporating a pedestrian door, unless the drive can only be operated with the pedestrian door in a safe position.

1.3 - Warnings and symbols used

DANGER! This 'Danger' symbol indicates a high-risk threat which, if not avoided, may cause serious injury or a fatal outcome.

WARNING! This symbol, together with the word 'Caution', indicates the risk of possible damage materials.

WARNING! This 'Warning' symbol indicates a medium-risk threat which, if not avoided, could result in serious injury or death.

1.4 - General Information

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All rights to this document are reserved. LIFE home integration cannot be held liable for damage or malfunctions caused by incorrect installation or improper use of the products; we therefore invite you to read this manual carefully.
LIFE home integration shall not be liable for damage or malfunctions caused by the use of the control unit with devices from other manufacturers; this will also invalidate the warranty. LIFE home integration shall not be held liable for damage or injury caused by failure to observe the information on installation, commissioning, maintenance and use given in this manual as well as failure to observe the safety instructions given in the chapter entitled SAFETY REQUIREMENTS AND WARNINGS. LIFE home integration, in order to improve its products, reserves the right to modify them at any time and without prior notice. This document reflects the state of the car to which it is attached at the time of its marketing.

1.5 - Manufacturer's data

LIFE Home Integration is the manufacturer of the AC4R-AC4RM / AC6R-AC6RM / AC8R-AC8RM, AC12R-AC12RM / AC15R-AC15RM / AC20R-AC20RM sliding gate motor and RG 1R DL2 control unit and owner of
all rights relating to this document.

- Manufacturer: LIFE Home Integration
- Address: Via Sandro Pertini, 3/5 - 31014 Colle Umberto (TV) Italy
- Telephone: + 39 0438 388592
- Fax: + 39 0438 388593
- Website: www.homelife.it
- E-mail: info@homelife.it

The identification plate, on which the manufacturer's details are stated, is attached to the motor and inside the electronic control unit.
The nameplate specifies the type and production date (month/year) of the product.
For technical and/or commercial information, requests for the dispatch of technical personnel, requests for spare parts, the customer may contact the manufacturer or the local representative where the product was purchased.

1.6 - Intended use

The ACER + RG 1R DL2 electromechanical gearmotor has been designed exclusively for automation. sliding gates. Any other use is considered to be non-compliant with the intended use and is prohibited by the regulations in force.

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

• The manufacturer accepts no liability for damage caused by any other use. The risk shall be borne exclusively by the installer and the guarantee shall become void.

The geared motor and control unit may not be installed and used in explosion hazardous areas.

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

The drive and control unit may only be used in a technically perfect condition and in accordance with their intended purpose, in awareness of the safety and hazard conditions, and in compliance with the installation and operating instructions.

Malfunctions that may impair safety must be rectified immediately.

• The gearmotor and control unit must not be installed in places where there is a risk of flooding.

• Do not use the system in aggressive environmental conditions (e.g. salty air). The actuator is suitable for installation on leaf gates with the dimensions and masses indicated in the chapter: Dimensions and limits of use.

1.7 - Safety instructions and warnings

• This manual is intended exclusively for PROFESSIONAL INSTALLERS.

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

• Once the electromechanical gearmotor has been installed, it is forbidden for users to perform any operations on the control unit, which, as mentioned above, are intended for qualified personnel only.

• Installers must operate in compliance with the legal guidelines.

They must also constantly refer to the harmonised standards EN 12453 and EN 12445.

• The instructions given in this manual must always be observed when installing, connecting, adjusting, testing and setting up the control unit. The manufacturer declines all liability for damage or injury caused by failure to observe the instructions in this manual.

• The manufacturer accepts no liability if the installer does not take care of the above.

• Keep this manual in a safe and easily accessible place for quick reference when needed.

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

• For safety and optimal system function, use only original spare parts, accessories and fasteners.

• Do not make any modifications to any devices or system components. This may cause malfunctions and excludes the manufacturer's product liability.

• If liquids come into contact with the control unit, disconnect the power supply and immediately contact the manufacturer's service department.

• If you experience faults or problems that cannot be solved with the information in this manual, please contact the manufacturer's service department.

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

• The electromechanical gearmotor must be stored indoors, dry, at an ambient temperature of -20 to +70°C and raised off the ground.

• The manufacturer accepts no liability for damage to the functioning of the electromechanical gearmotor caused by failure to comply with the storage regulations given here.

1.8 - Installation requirements and warnings

WARNING: Important safety instructions. Follow all instructions carefully, incorrect installation can cause serious injury. Before starting installation, we strongly recommend that you carefully read the instructions and warnings in this manual (see chapter GENERAL SAFETY INSTRUCTIONS) and observe the instructions contained therein.

• The PROFESSIONAL INSTALLER of the gate motor is responsible for analysing the risks and adjusting the safety devices of the automation.

• The installer must check that the temperature range stated on the electromechanical operator complies with the location where the device is installed.

• Before installing the actuator, check that the gate is in good mechanical condition, properly balanced, and opens and closes correctly.

• Carefully follow the fastening instructions in Chapter 3: INSTALLATION and 4: ELECTRONIC CONTROL BOX INSTALLATION INSTRUCTIONS.

• If a 'dead man' control is installed, it must be installed in a position with a direct view of the moving parts, but at a distance from them.

Unless it is operated with a key, it must be installed at a minimum height of 1.5 metres and not accessible to the public.

• During installation, always refer to the harmonised standards EN 12453 and EN12445.

• Ensure that the individual devices to be installed are compatible with the electromechanical operator. Do not proceed if even one device is unsuitable for the intended use.

• Ensure 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 the components of the control unit to prevent liquids (e.g. rain) and/or foreign bodies (dust, earth, gravel, etc.) from getting inside.

• Connect the control unit to a power supply line built in accordance with current regulations, equipped with a grounding and power disconnect switch.

• Only connect the geared motor to a power supply line constructed in accordance with the applicable national standards, equipped with a device for complete disconnection of the line under overvoltage category III conditions.

• Packaging materials must be disposed of in accordance with local regulations.

• Wear protective equipment and goggles when drilling the holes for clamping.

In the case of work at heights above 2m from the ground, for example when installing a pilot light or antenna, installers must be equipped with ladders, safety harnesses, protective helmets and all other equipment required by law and the regulations governing this type of work.

1.9 - Commissioning

Testing and commissioning must be carried out by a COMPETENT PERSONNEL supervised and assisted by a PROFESSIONAL INSTALLER.

It is the responsibility of the person who tests and prepares the automation (of which the control unit is a part) to carry out the required checks according to the existing risks and to verify compliance with the reference standards, in particular EN 12445, which regulates the way in which tests are carried out on gate automations, and EN 12453, which specifies the performance requirements for safety in use.

To set the controls correctly, please refer to chapters 5 - CENTRAL CONFIGURATION and 8 - FORCE AND SENSITIVITY ADJUSTMENT.

• The acceptance and testing phases are crucial to ensure maximum operational safety.

• The checks and test procedures can also be used for routine checks on the car and its devices.

• Never touch the gate or moving parts when they are in motion.

• The drive can only be tested if a non-hazardous force tolerance has been set. The force tolerance must be set to a minimum value so that there is no danger of injury during closing.
• Adjust the maximum force in line with EN 12445.
• Remain at a safe distance when the gate is in motion: only pass through when the gate is fully open and stationary.
• In the event of malfunctions (noise, jerky movements, etc.) immediately stop using the automation: failure to comply with this rule can lead to serious hazards, risk of accidents and/or serious damage to the gate and automation.
• Please note that the following residual risks exist when the gate is in motion:
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 support;
d) mechanical risks caused by movement.

1.10 - Testing

When testing, please ensure that the measurement of the gate's impact force has been carried out in accordance with EN 12445 and 12453 and that the instructions in the chapters GENERAL INSTRUCTIONS ON SAFETY chapter 1.1 - 1.2 - 1.6 - 1.7 - 1.8 - 1.9 have been carefully observed.
Also ensure that the automation is correctly adjusted and that the protection and unlocking systems function correctly.
ATTENTION: Once the drive has been tested, the set parameters must not be changed. If any further adjustments are made (changes to sensitivity and force values), all the checks necessary for testing and compliance with EN 12445 must be repeated.
The automation may only be used for the first time after all the checks described in the TESTING chapter have been successfully carried out.
Automation cannot be used in precarious or temporary conditions.
a) Compile a technical file for automation, which must include at least:
• a general mechanical and electrical diagram,
• risk analysis and solutions adopted to eliminate or reduce risks,
• manuals of individual components,
• list of components used,
• instructions for use and warnings regarding use by the owner,
• maintenance booklet,
• declaration of conformity of the system.
b) Attach 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 hand it over to the owner of the automation.
d) Complete the guide with the instruction manual and hand it over to the owner of the automation.
e) Fill in the maintenance log and hand it over to the owner of the automation.
f) Fill out the maintenance instruction guide that provides instructions for the maintenance of all automation devices and give it to the owner of the automation.
g) Before the first use of the automation, the owner must have been adequately informed of the residual dangers and risks.
h) Permanently affix the manual release label adjacent to the actuating system.

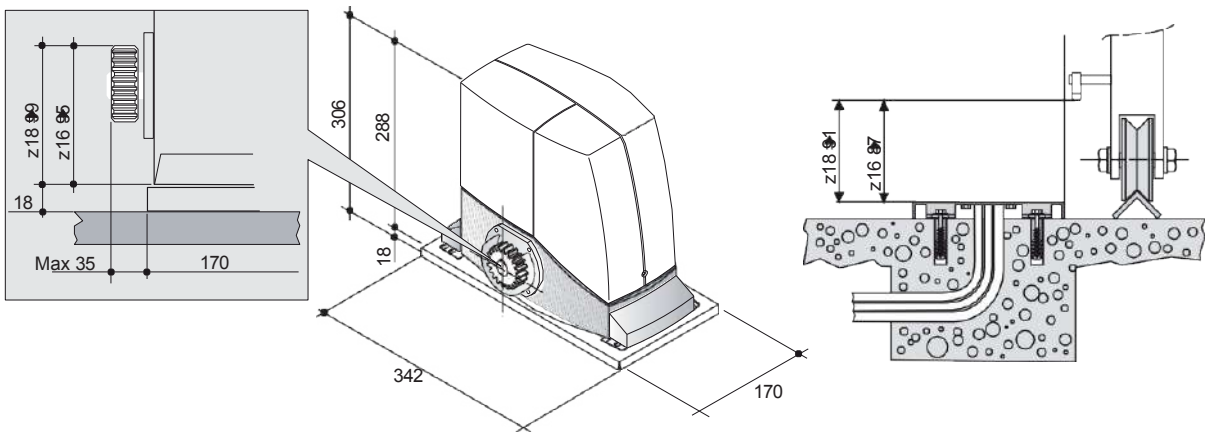
2 - TECHNICAL DATA

2.1 230Vac irreversible gearmotor for sliding gates, with electromechanical or magnetic limit switches.

		AC4 R / RM	AC6 R / RM	AC8 R / RM	AC12 R / RM	AC15 RM	AC20 RM
Line Voltage	Vac	230 50/60Hz	230 50/60Hz	230 50/60Hz	230 50/60Hz	230 50/60Hz	230 50/60Hz
230Vac line power	W	230	230	230	230	230	230
Line current 230Vac	A	1	1,2	1,4	1,5	1,6	1,8
Engine type	Vac	230	230	230	230	230	230
Max. motor power	W	250	280	300	350	400	450
Max. motor current	A	1	1.2	1.4	1.5	1.6	1.8
Thrust	N	500	700	900	1.200	1.500	1.800
Max. starting torque	Nm	30	40	50	60	70	80
Maximum speed	m/min	10	8	8	8	8	8
Intermittent work	%	35	35	35	35	50	40
Max. working time	Min	15	15	10	10	20	15
Max. gate weight	Kg	400	600	800	1.200	1.500	2.000
Lubrication	Type	Grease	Grease	Oil	Oil	Oil	Oil
Capacitor	uF	14	14	16	16	16	18
Stop switch	Type	2 Electromechanical (R version) or magnetic (RM version) limit switches.					
Sound pressure	dB	LpA-70					
Motor insulation		D					
Level of protection	IP	44 Electromechanical (R version) or 55 Magnetic (RM version)					
Working temperature	°C	-20 / +70					
Motor size	mm	342x183x288					
Weight	Kg	12	12	14	14	15	15
Electronic control unit		RG1R DL2 (integrated)					

2.2 - Dimensions and limits of use

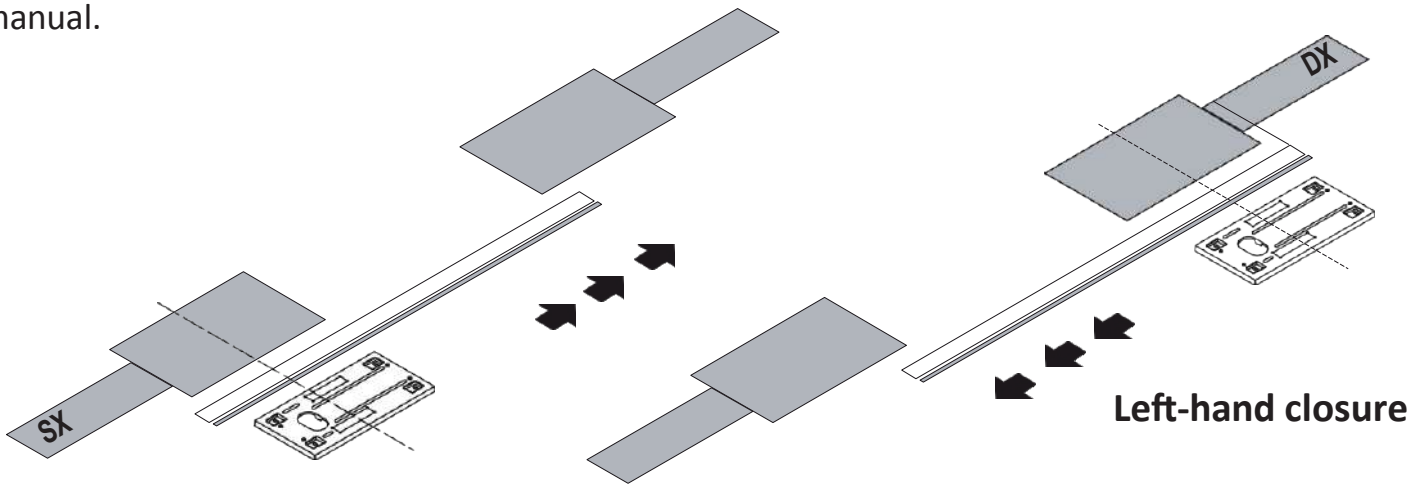
The installation area of the geared motor must provide the necessary space for maintenance and manual release operations. Check the overall dimensions using the image below.



3 - INSTALLATION

3.1 - Installation of gearmotor components

The installation area of the geared motor must provide the necessary space for maintenance and release operations
manual.

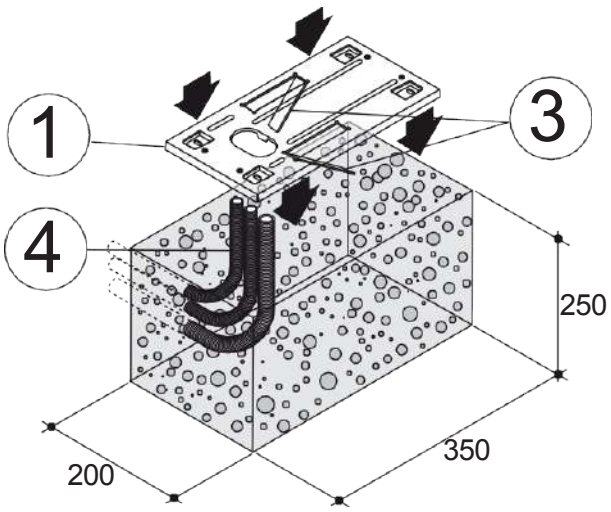


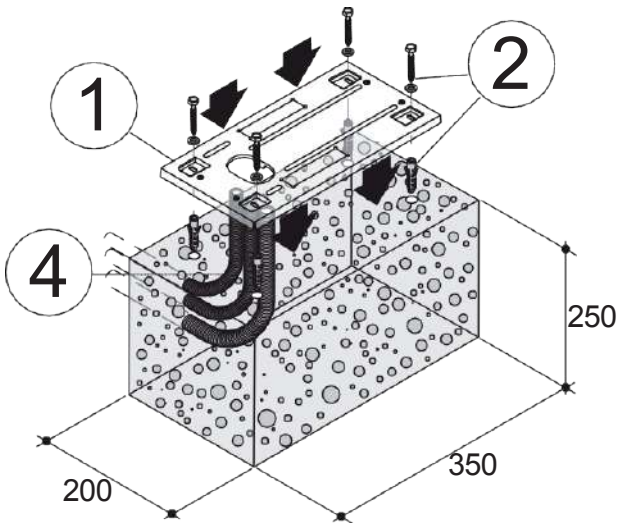
Left-hand closure

Right-hand closure

3.2 - Installing and securing the anchor plate

a) Respect the dimensions specified in the image below.
b) To position the anchor plate correctly, respect its orientation (SINI - RIGHT) as shown in the image above.
c) Observe the height dimensions as shown in the image on the previous page, depending on whether the sprocket has 16 or 18 teeth.
d) Position the electrical cable tubes (4) leaving them protruding and plug them to prevent them from filling with debris.
Fix the anchor plate (1) to the concrete base with 4 expansion plugs (2) or immerse it in fresh concrete (3) by bending the two 'Ls'.

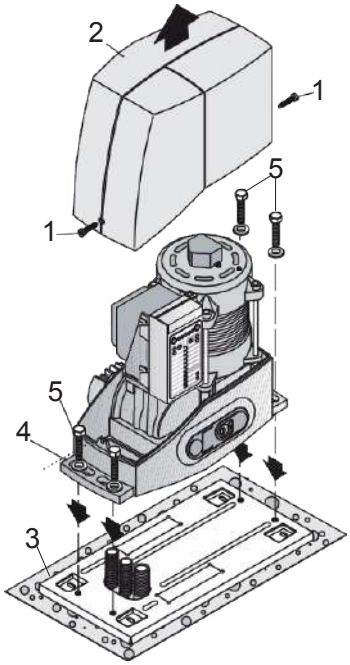




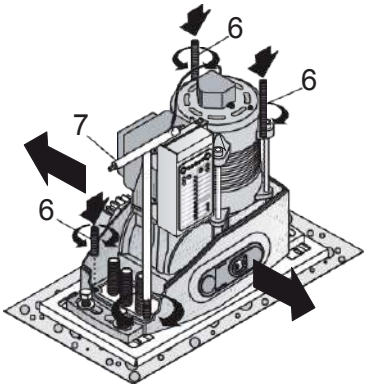
ATTENTION: If the gearmotor is subjected to severe working conditions or if the weight of the gate exceeds 300 kg, the anchor plate (1) must necessarily be fixed "an- negatively" in concrete.

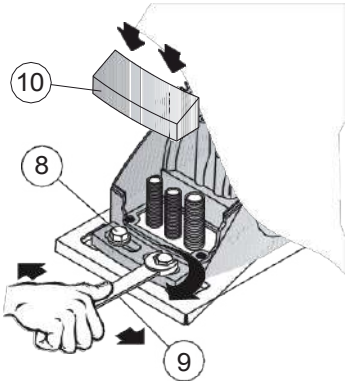
3.3 - Installing and securing the geared motor

a) Remove the geared motor cover (2) by unscrewing the screws (1); position the geared motor on the anchor plate and hand-tighten the 4 M10 screws (5) with their washers (see first picture).
b) Carry out any vertical adjustment of the geared motor by turning the 4 grub screws (6) using the key (7); adjust the geared motor so that it is parallel to the gate (see second picture).



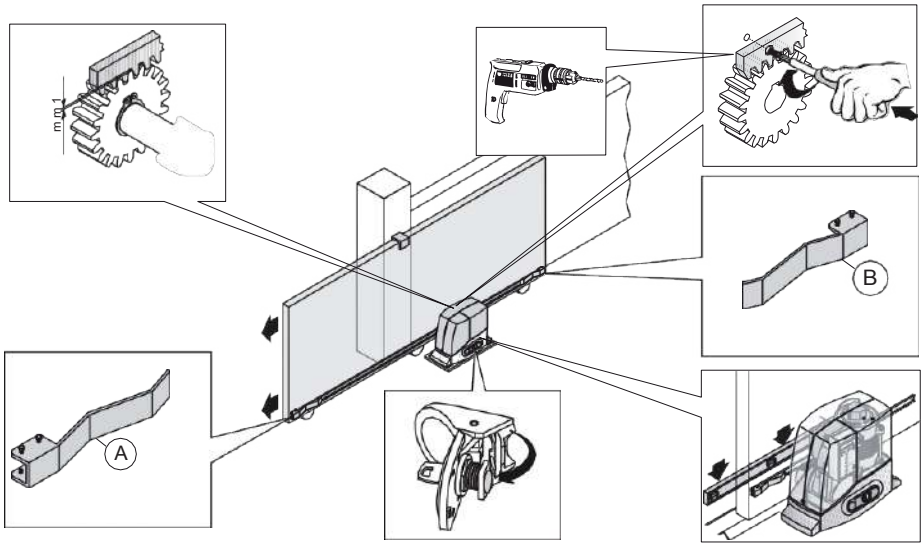
c) Fasten the geared motor definitively by locking the 4 M10 screws (8) and their washers with a spanner or socket spanner (9). Mount the covers on the locking feet (10) (see third picture). Mount the covers on the locking feet.





3.4 - Assembly of the rack

Unlock the gearmotor, secure the rack to the gate using the screws provided, leaving 1 mm of play between the pinion and the teeth of the rack. Mount the "gate open" (A) and "gate closed" (B) limit switch brackets at the ends of the rack, securing them with the supplied screws as shown in the figure. Bear in mind that the gate will end its travel approximately 2-3 cm after the limit switch has operated, so adjust the position of the brackets so that the gate does not hit the mechanical stops.



3.5 - Manual release

WARNING!

WARNING:

• Disconnect the power supply before proceeding.

• Manual release can cause uncontrolled gate movements due to mechanical damage or unbalanced mechanical conditions.

• This control unlocks the gearmotor transmission and moves the door manually; it can be used in the event of a blackout or system failure.

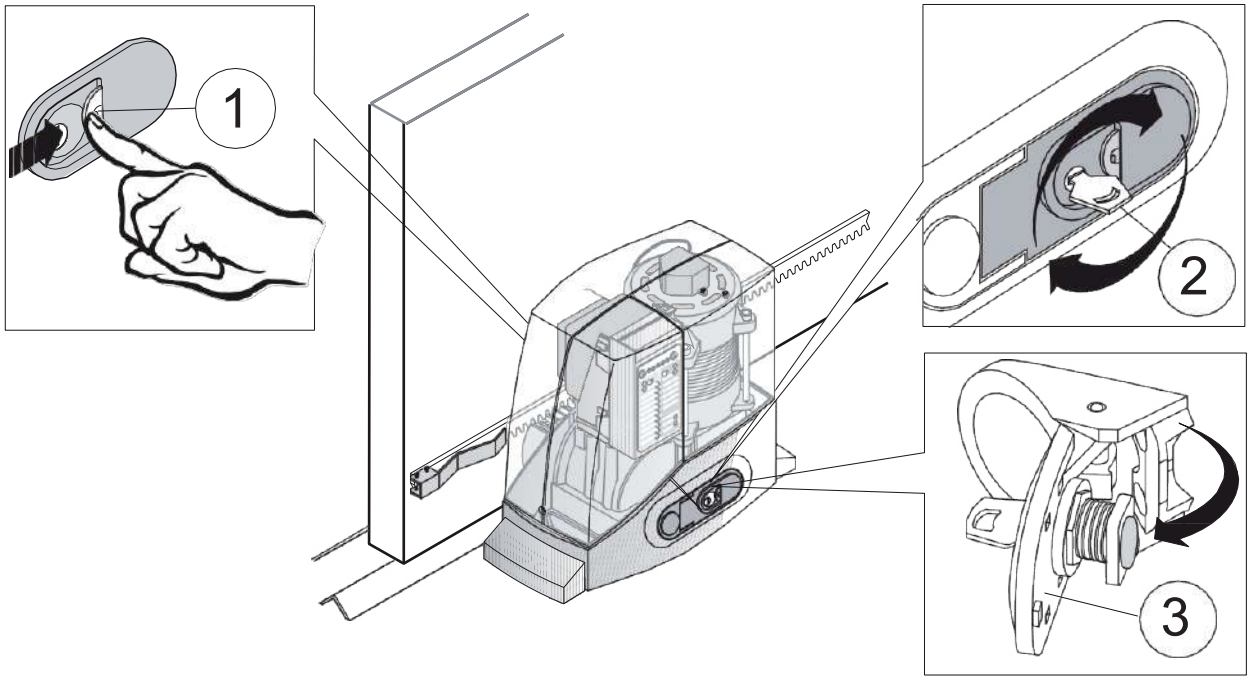
Manual release is by means of a key, which must be kept in a safe place.

a) Slide the lock protection (1) to the right.

b) Insert the key (2) into the lock and turn it 180° anticlockwise.

c) open the cover by pulling it slightly (3).

d) the geared motor is now unlocked.



3.6 - Wiring and connections

Before proceeding with connections, carefully read the sections on SAFETY. All wiring and connection operations must be carried out with the control board disconnected from the power supply; if the disconnecting device is not in sight, affix a warning plate: "CAUTION: MAINTENANCE IN PROGRESS".

The internal wiring of the electromechanical motor, which has been made by the manufacturer, must not be modified in any way.

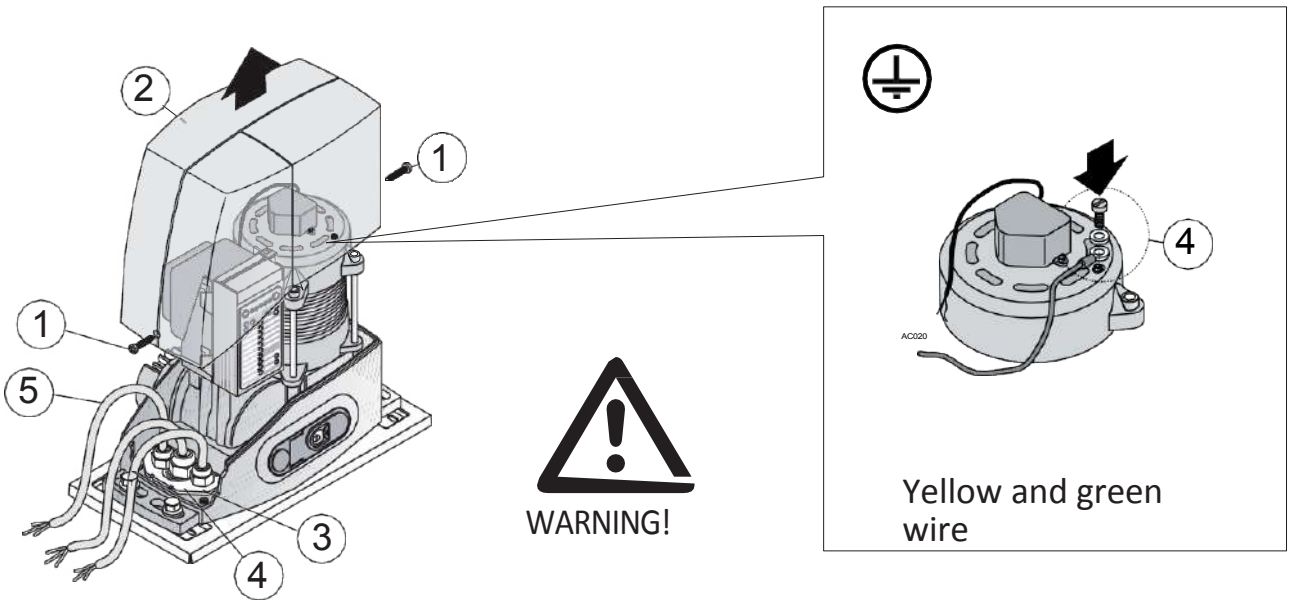
Connection	Cable type
Power supply line	3x1.5 mm2 cable

CAUTION: the cables used must be suitable for the type of installation; this assessment is the responsibility of the installer.

- The power cable must not be lighter than 60245 IEC 57 (HO5RN-F).
- Inside the power cable, one wire must be yellow and green for earthing.
- The power cable must be sheathed in polychloroprene;
- All cables should be stripped the minimum necessary, maximum 6 mm, as close to the connection terminals as possible, to avoid accidental contact with live parts if the cable is disconnected from the terminal.
- Do not pre-tin the cables that are to be screwed to the terminals.
- Mount the power cable in such a way that if it comes out of its fastener, the phase and neutral conductors are stretched before the earth conductor.

3.7 - Wiring the geared motor

a) Remove the gearmotor cover (2) by removing the two side fixing screws (1).
b) Open the pre-cut holes in the cable entry flap (3), insert the cable glands (4), then insert the cables (5) required for the connections (keep 230V and extra-low voltage cables separate). Leave the cables about 40 cm longer.
c) Insert the cable gland support and make it well adhere to the edges of the housing in the gearmotor base to prevent access to insects and dirt.



4 - ELECTRONIC CONTROL UNIT CONNECTIONS

The installer must connect the 230 Vac 50 Hz power supply and the various devices provided for the automation. The connections between the control unit, motor, encoder and transformer are already made by the manufacturer.

ATTENTION: For safety reasons, it is essential to earth the motor: crimp the yellow-green wire of the power cable into the eyelet on the upper shell, at the point marked simbo-
grounding as shown on the previous page.

WARNING!

To facilitate connection and programming of the control unit, it is possible to remove it from its housing. Operation is simple and no tools are required:

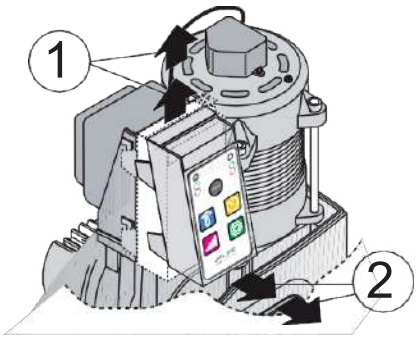
a) Pull the control unit upwards and, subject to cable length, place it on the edge of the geared motor base or hold it in your hand.

b) Once the connections and/or programming have been completed, reinsert the control unit on the bracket by simply applying light pressure until the 4 hooks click into place.

4.1 - Cables used for electrical connections

The cables required may vary depending on the type of installation and the amount of devices installed. The cables used in the installation must comply with IEC 60335.

Pos.	ConnessIon	Cable type
1	Power line	cable 3x1.5 mm
2	Power supply	cable 3x1.5 mm
3	Flashing light	2x1 mm cable
4	Radio antenna	RG58 50 Ω shielded cable
5	Photos Tx	2x1 mm cable
6	Rx Photos	4x1 mm cable
7	Selector switch	cable 3x1 mm
8	Internal control panel	cable 3x1 mm
9	Constant safety signal	2x1 mm cable



WARNING:

The cables used must be suitable for the type of installation.
It is the responsibility of the installer to choose the appropriate material.

WARNING!

- The supplied power cables cannot be lengthened or shortened.
- All cables should be stripped the minimum necessary, maximum 6 mm, as close to the connection terminals as possible, to avoid accidental contact with live parts if the cable comes loose from the terminal.
- Do not pre-tin the cables that are to be screwed to the terminals.
- If there is a risk of contact between cables subject to a voltage higher than 50 volts RMS and low-voltage safety cables, they must be insulated with a sheath at least 1 mm thick.
- The double-stranded flat cable must not be used for external connections.

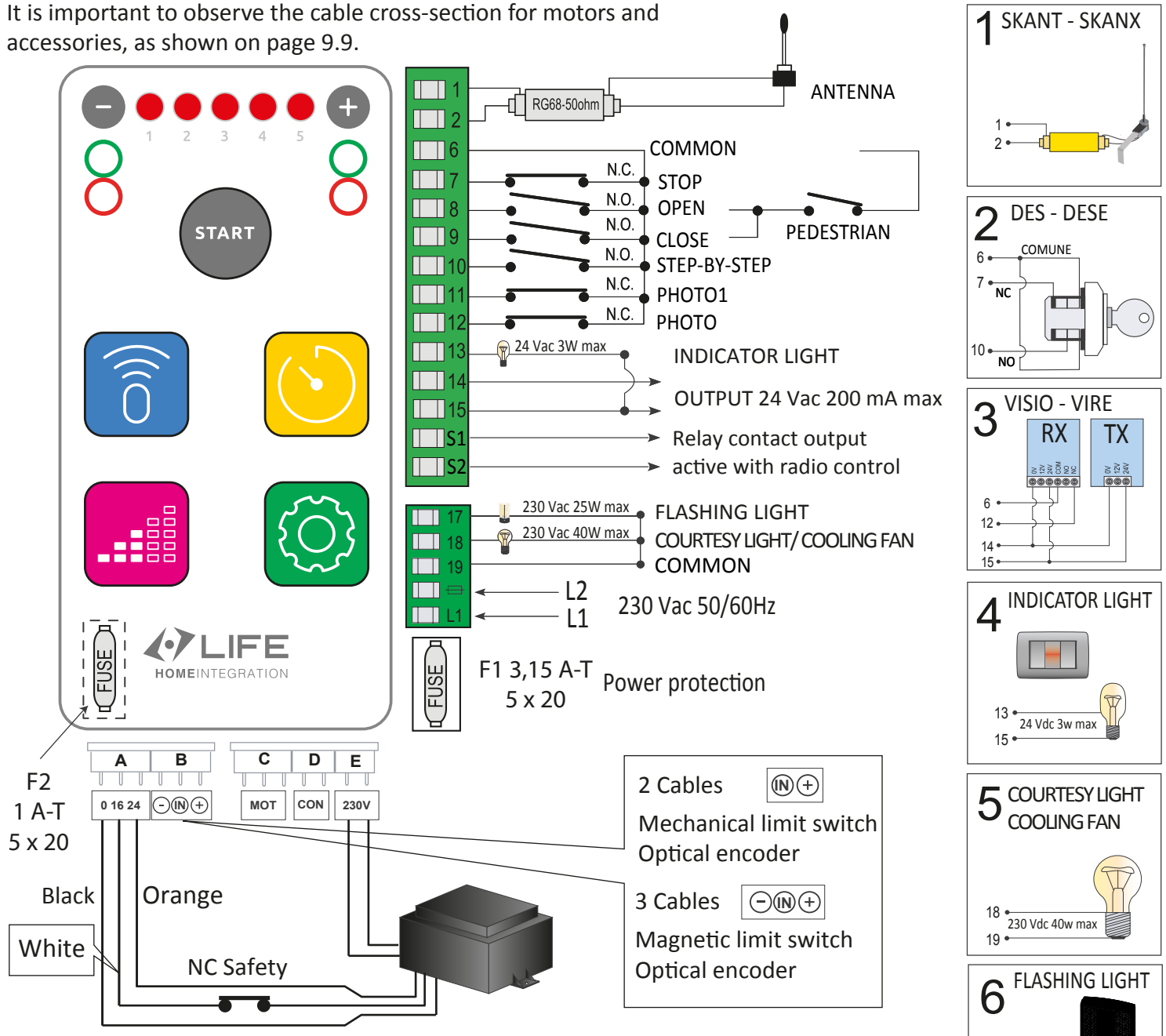
4.2 - Electrical connections of the control unit

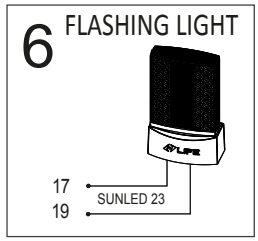
- Before proceeding with wiring, carefully read the PRESCRIPTIONS AND SAFETY PRECAUTIONS AND INSTALLATION WARNINGS.
- All wiring and connection work must be carried out with the power switched off; if the device is not visible, a label must be affixed: 'CAUTION: IN MAINTENANCE'.

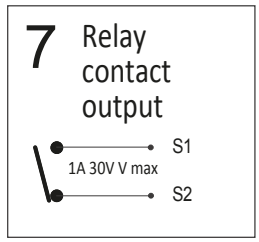
Clamps	Description (see circuit diagram, page 11)
1	**ANTENNA:** Antenna sock input, use RG58-50 Ohm cable.
2	ANTENNA**:** Antenna input.
6	**COMMON COMMANDS:** For inputs: STOP - OPEN - CLOSE - STEP - PHOTO.
6 - 7	**STOP**: NC input Causes the gate to stop. Safety devices such as an emergency stop button can be connected to it. When the control is released, automatic closing is never performed; only a new control resumes movement. Leave the gate if no device is fitted.
6 - 8	**OPEN:** Input NO Determines whether the gate is open.
6 - 9	**CLOSE:** Input NO Determines the closing of the gate.
6 - 10	**STEP TO STEP:** Input NO Determines gate movement according to the following cycles: AUTOMATIC MODE: Open, Pause, Close, Pause. SEMI-AUTOMATIC MODE: Open, Stop, Close. CONDOMINIUM MODE: Open (automatic closing with pause time).
6 - 11	**PHOTO1:** N.C. input for photocells or safety devices. Determines whether the gate stops both when opening and when closing. The opening movement is resumed when the photo-cell or the safety device is disengaged. Leave the jumper if no device is provided. **With OPTION 1 - Menu 3 active PHOTO1 becomes PHOTO2, the intervention of the safety devices during opening causes a brief inversion of the gate.
6 - 12	**PHOTO:** NC input for photocells or safety devices. During the gate opening cycle it does not intervene; when closing it reverses the movement until the gate is fully open. Leave the jumper in place if no device is fitted.
15 - 13	**INDICATOR:** 24Vac 3W max. output, for connecting an indicator light that copies the flashing function during movement and remains lit when the gate is open.
15 - 14	**OUTPUT 24 Vac :** For power supply of various devices, max 200mA
S1 - S2	**RELAY CONTACT:** Dry contact Multifunction relay, active with impulsive radio control. With OPTION 2 Led 5 becomes Radio Step Contact.
17 - 19	FLASHER**:** 230 Vac 25W max. output for connection of the flasher**.**
18 - 19	**COURTESY LIGHT / COOLING FAN:** 230Vac 40W max. output for courtesy light connection. With OPTION 3 Led 2 ON connection for cooling fan.
F - N	**ELECTRICAL LINE CONNECTION:** 230Vac 50/60Hz.

PEDESTRIAN: The command results in partial opening. It can be given from a remote control or from the terminal board. From the terminal board it is obtained by jumpering terminal 8 OPEN with terminal 9 CLOSE, this jumper is then connected with a switch to terminal 6 COMMON. The PEDESTRIAN command from the terminal block excludes the commands OPEN and CLOSE.
NC = Normally closed contact - NO = Normally open contact

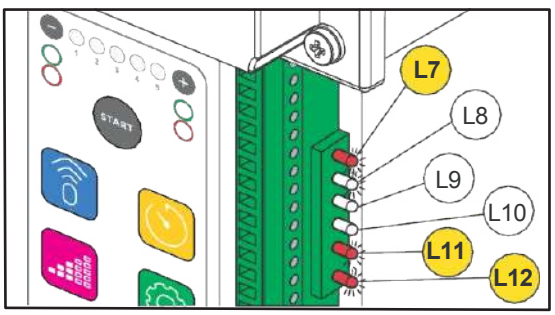
It is important to observe the cable cross-section for motors and accessories, as shown on page 9.9.







Terminals	Cables	
A	Black/White/Orange	Transformer output 0V-16V-24V
B	Blue / Black / Red	End of stroke - Encoder
C	Green / Blue / Black	Engine power supply
D	White / White	Capacitor
E	Blue / Blue	230Vac transformer power input



LED INDICATORS

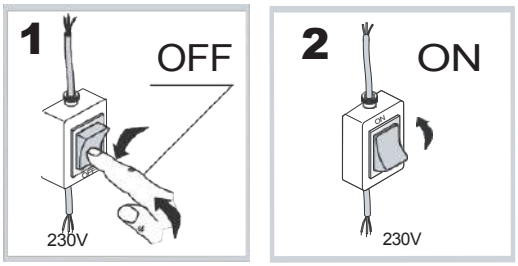
The LEDs below the terminal block indicate the input status. L7 - L11 - L12 are N.C. inputs and must be on, they turn off when the corresponding input is activated. L8 - L9 - L10 are N.O. inputs and must be switched off and switch on when the corresponding input is activated. These LEDs therefore indicate a possible malfunction of the connected devices.

5 - CONTROL UNIT CONFIGURATION

Energy saving

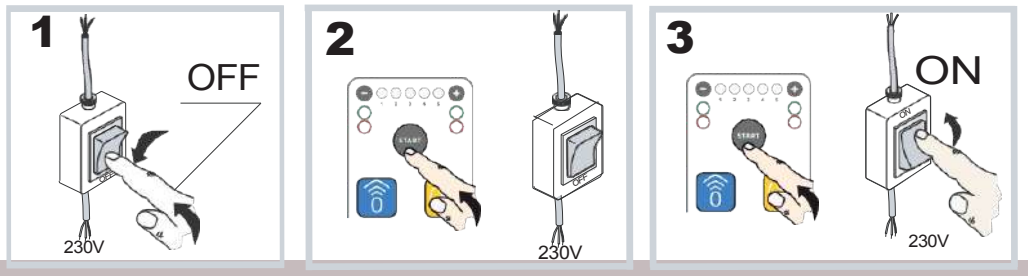
To optimise power consumption, a power-saving function was introduced: if the control unit is idle for 10 minutes, the LEDs on the front panel go out and the keypad is switched off.
To reactivate it, switch the control unit off and on again.

ATTENTION

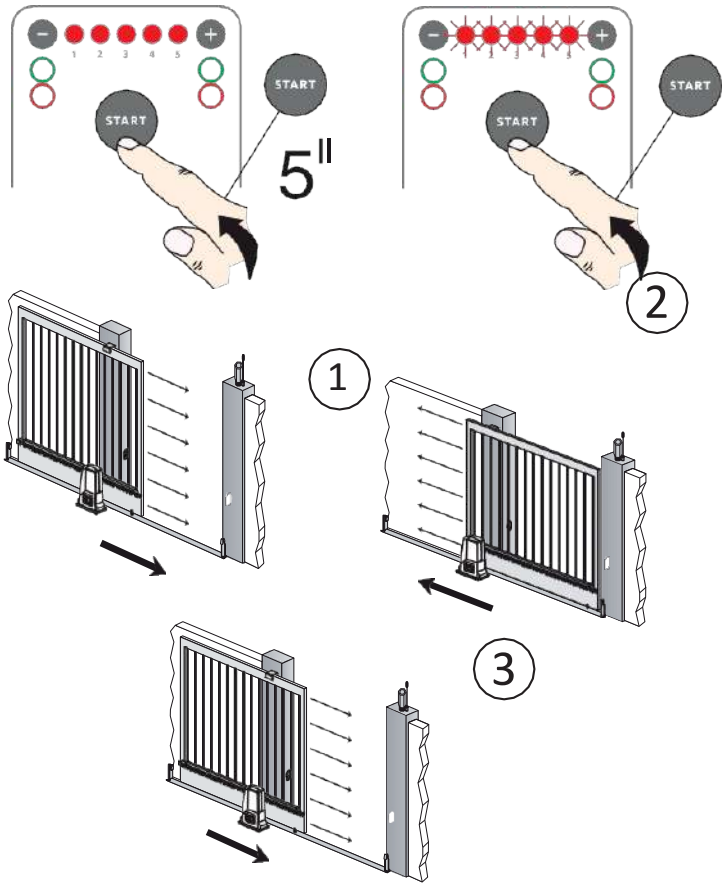


5.1 - Total reset

Switch off the power, hold down the START button, switch on again and release the START button only when the red LEDs light up.



5.2 - Automatic initial programming



- Position the gate at mid-travel
- Press and hold the START button for 5 seconds until all 5 red LEDs light up.
- Press the START button again to begin automatic programming of the stroke.

The first limit switch activated must be the closing limit switch: if the gate starts to open, press START again to reverse the movement.

The automation performs one closing, one opening, one closing (1,2,3) in sequence.
Once the initial configuration is complete, the two green LEDs will flash and the red LED will light up.
If the result is not satisfactory, start again from the beginning.

With very heavy gates or cantilever gates, it is possible to carry out the first programming without the slowdowns, Page 14, Chapter 6.1, NO SLOWDOWNS

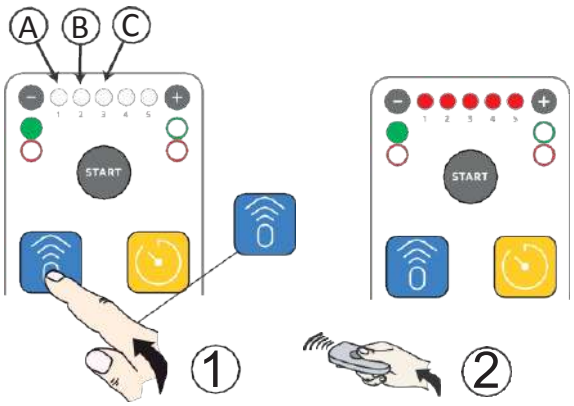
6 - REMOTE CONTROLS

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

6.1 - Learning a remote control

A - Total Opening

- Press the blue remote control setting button: the green LED below the '-' symbol and the first red LED (A) to the right of the '-' symbol light up.
-Press and hold the button of the transmitter you wish to associate for full opening until all five LEDs light up.



B - Partial Opening

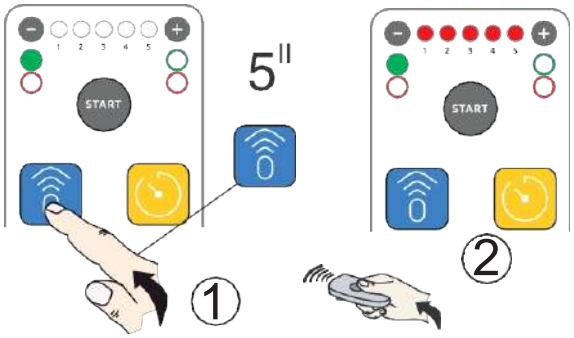
- Press the blue remote control setting button twice; the green LED below the '-' symbol and the second red LED (B) to the right of the '-' symbol light up.
- Press and hold the button of the transmitter you wish to associate with the partial opening until all five LEDs light up.

C - Auxiliary relay command

- Press the setting button three times remote controls (top left); the green LED below the '-' symbol and the 3rd red LED light up
(C) to the right of the symbol.
- Press and hold the button on the remote control with which you want to activate the relay until all five LEDs light up.

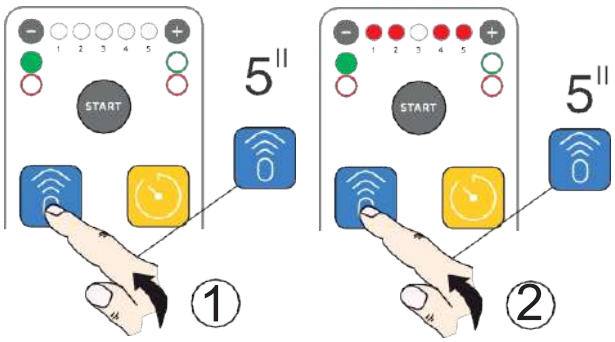
Wait 20" or press the remote control setting button to exit configuration mode.

6.2 - Deleting a remote control



- Press and hold the remote control settings button (blue, top left) for 5 seconds until the green LED on the left below the '-' button lights up and starts flashing.
- Press the button of the transmitter you wish to delete until all five LEDs light up.

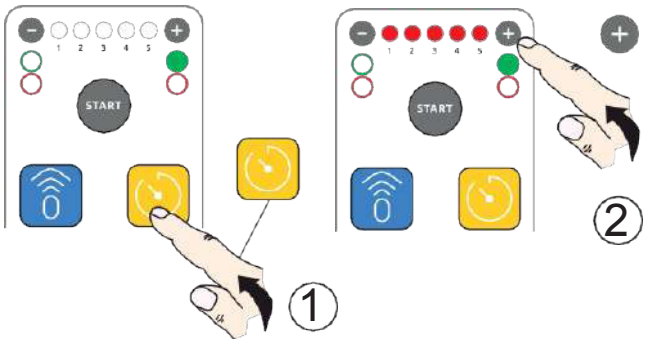
6.3 - Deleting all remote controls



- Press the remote control adjustment button (blue, top left) until the green LED on the left below the '-' button lights up and starts flashing.
- Press the blue selection button again and hold it down for 5".
All LEDs flash alternately.
- As soon as the flashing stops, all remote controls have been successfully deleted.

7 - SETTINGS

7.1 - Automatic reclosure



The automatic reclosure is activated after a preset PAUSE TIME.
a) Press the TIMER button. The green LED on the right lights up.
- If none of the 5 red LEDs are lit, the automatic reclosure indicator is not activated. Press the '+' button to activate it.
- If at least one of the five red LEDs is lit, automatic reclosure is activated. To deactivate it, press the '-' button until all LEDs are off.

DANGER!

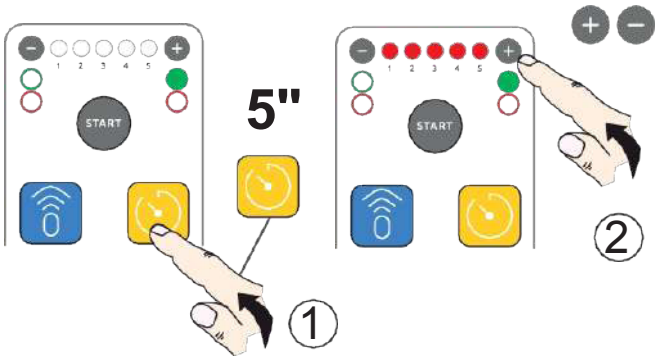
The activation of the automatic reclosure generates an uncontrolled gate movement.

Press the '-' and '+' buttons to set the PAUSE TIME. Duty cycle: OPENING - PAUSE - CLOSING - PAUSE

LEDS ON	PAUSE TIME
⊖○○○○○⊕	AUTOMATIC CLOSING DISABLED
⊖●○○○○⊕	5 s
⊖●●○○○⊕	10 s
⊖●●●○○⊕	30 s
⊖●●●●○⊕	60 s
⊖●●●●●⊕	120 s

Wait 20" or press the TIMER button again to exit the configuration mode.

7.2 - Setting slowdowns



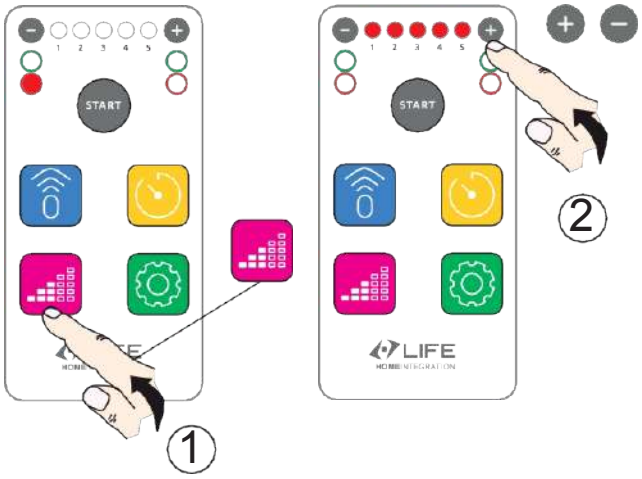
Press the TIMER button (top right) for 5". The green and red LEDs (right) light up.
- 1 LED lit: minimum slowdown.
- 5 LEDs lit: maximum slowdown.
- No LED illuminated: slowdown deactivated. Use the '-' and '+' buttons to change the para-metres.

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

Wait 20" or press the TIMER button again to exit configuration mode.

8 - FORCE AND OBSTACLE DETECTION SENSITIVITY

8.1 - Force setting



Press the FORCE button (bottom left). The red LED on the left lights up: you can adjust the force by pressing '-' or '+'.

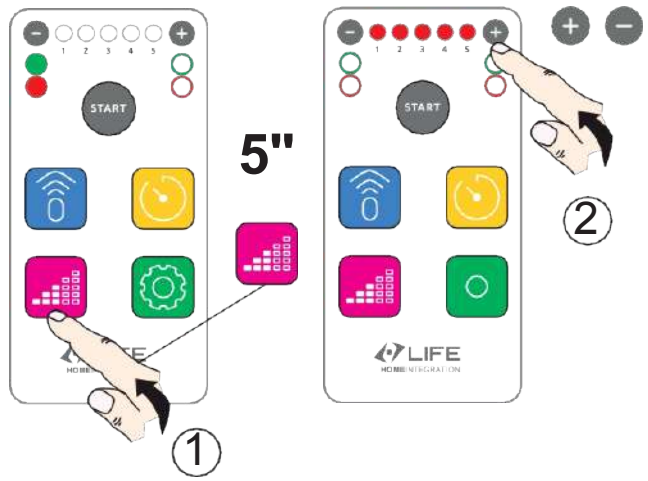
LEDS ON	FORZA
⊖○○○○○⊕	MINIMUM 75%
⊖●○○○○⊕	85%
⊖●●○○○⊕	80%
⊖●●●○○⊕	DEFAULT 90%
⊖●●●●○⊕	95%
⊖●●●●●⊕	MAXIMUM 100%

DANGER !

Parameters such as force and obstacle sensitivity must be set according to the type of gate and its use, in accordance with the laws of the country in which the gate is installed.

Wait 20" or press the FORCE button to exit programming.

8.2 - Obstacle detection sensitivity adjustment



Press the FORCE button (bottom left) for 5". The green and red LEDs on the left light up. Press '-' or '+' to adjust sensitivity.

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

DANGER !

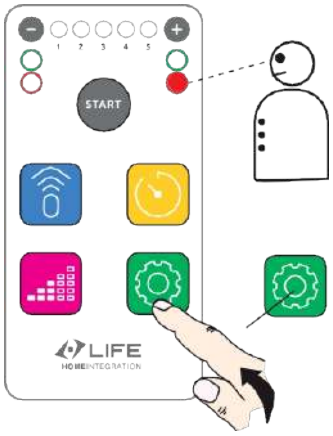
Parameters such as force and obstacle sensitivity must be set according to the type of gate and its use, in accordance with the laws of the country in which the gate is installed.

Wait 20" or press the FORCE button to exit programming.

9 - OPTIONS MENU

9.1 - Options Menu 1

Press the OPTIONS button (bottom right) to access the OPTIONS 1 menu. Press this button again in sequence to scroll through the available options.
Every LED is associatated to an option, which is described in the table below.
By pressing button “+” the function is activated (red LED on), by pressing button “-” the function is deactivated (LED off).

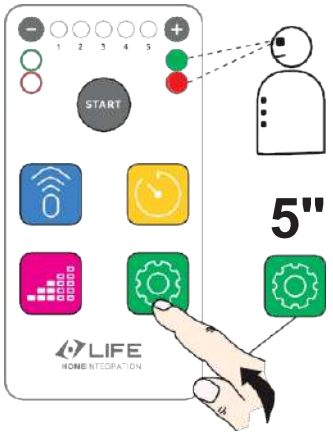


LED ON	MENU OPTIONS 1
⊖○○○○○⊕	No active function
⊖●○○○○⊕	Condominium mode: step-by-step opening only
⊖○●○○○⊕	OPEN-STOP-CLOSE -STOP mode
⊖○○●○○⊕	OPEN-CLOSE mode
⊖○○○●○⊕	The FOTO1 entrance becomes FOTO2
⊖○○○○●⊕	Activation of FOTO anticipates closure

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

9.2 - Options Menu 2

Press the OPTIONS BUTTON for 5" to access the OPTIONS MENU 2. Press this button again in sequence to scroll through the available options.
Every LED is associatated to an option, which is described in the table below.
By pressing button “+” the function is activated (red LED on), by pressing button “-” the function is deactivated (LED off).



LED ON	MENU OPTIONS 2
⊖○○○○○⊕	No active function
⊖●○○○○⊕	Soft start
⊖○●○○○⊕	Pre-flashing
⊖○○●○○⊕	Flashing in pause
⊖○○○●○⊕	* Dead man’s switch
⊖○○○○●⊕	Step-by-step relay output

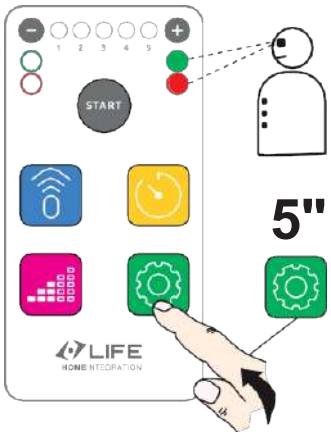
* N.B. . The man-present command operates exclusively from the terminal board input: Opening - Closing - Step-by-step.

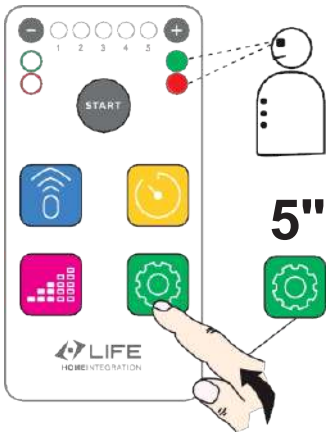
Wait 20" or press the OPTIONS button again to exit programming mode.

9.3 - Options 3

Press the OPTIONS button for 5", then for another 5" enter OPTIONS MENU 3, then press it again in sequence to scroll through the available options.

Every LED is associatated to an option, which is described in the table below.
By pressing button “+” the function is activated (red LED on), by pressing button “-” the function is deactivated (LED off).





LEDS ON	OPTIONS 3
⊖○○○○○⊕	No active function.
⊖●○○○○⊕	Automatic heater
⊖○●○○○⊕	Cooling fan

Wait 20" or press the OPTIONS BUTTON in sequence to exit programming mode.

10 - RADIO REMOTE CONTROL PROGRAMMING

The gate must be open and one of the safeties enabled: STOP and/or PHOTO.

A - Total Opening

Press and hold for 10" in a row the key of a previously programmed remote transmitter: the total opening setup is launched: the memory is ready for storage, the flashing light flashes once briefly. Now press the key that you want to program on the new remote transmitter.
The correct storage is confirmed with steady light for a few seconds; you can program only one radio control at once.

B - Partial Opening

Press again the same radio control button for 3" in a row: you enter the partial opening setup, the memory is ready for storage, the flashing light performs two short flashes.
Now press the key that you want to program on the new remote transmitter, the correct storage is confirmed with steady light for a few seconds; you can program only one radio control at once.

C - Multifunction Relays

Press again the same remote transmitter button for 3" in a row: you enter the multifunction relay radio control setup, the memory is ready for storage, the flashing light preforms 3 short flashes. Now press the key that you want to program on the new remote transmitter, the correct storage is confirmed

11 - TROUBLESHOOTING GUIDE

DIAGNOSTICS	REPAIRS
The control unit does not switch on.	- Check that the main switch is on. - Check that the gate release system is closed - Check the fuses on the circuit board
Motor does not respond to remote control commands	- Remote control not memorised. - Check the remote control battery. - Check the wiring and antenna position - Check that there are no external elements interfering with the radio signal: electricity pylons, reinforced metal walls, etc. If so, provide an external antenna.
Safety photocells intervene on opening but not on closing	- Repeat the programming, paying attention to the first manoeuvre, which must be a closure. Page 12 Ch. 4.2
Fault indication: 5 LEDs lit	-Checks for obstacles in the gate's path. - Check that the limit switches are not blocked.
Fault indication: LED 1,2 lit Fault indication: LED 1,3 lit	- Check that the limit switches are not blocked. - Remove any obstacles above the rack: snow, ice, etc.
The gate performs the slowdown but fails to close.	- Check the sensitivity and force values. - Check that the capacitor is still efficient, otherwise replace it.
The gate does not close.	- Check the correct functioning of the photocells. - Check that the safety inputs are active Page 11 led indicators
The beacon makes a continuous slow flash.	- Probable power failure, give a command with a transmitter or button.
The gate only moves with persistent command	- Probable malfunction of the limit switch. Carry out a complete manoeuvre with control always active.

WARNING!

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

NOTES

12 - INSTRUCTIONS AND WARNINGS FOR THE USER

• It is the installer's responsibility to carry out a risk analysis and to inform the user/owner of any residual risks that may exist. Any residual risks detected must be recorded and reported.
• In moving gates, the following residual risks are usually present: impact and crushing against the main closing surface (of the single leaf or between the two leaves); impact and crushing in the opening area; crushing between moving and fixed guiding and supporting parts during movement.
• The manufacturer accepts no liability for damage or injury caused by failure to observe the operating information in this manual and failure to observe the safety instructions below.
• The manufacturer accepts no liability for damage and malfunctions caused by failure to observe the operating instructions.
• Keep this manual in a safe and easily accessible place for quick reference when needed.
• 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 through when the gate is fully open and stationary.
• Do not allow children to play with the gate controls; do not leave radio controls or other control devices within reach of children.
• Prevent children from playing and standing near the gate or control devices (radio controls) the same precautions should be taken for the disabled and animals.
• In the event of malfunctions (noise, jerky movements, etc.) immediately suspend use of the automation: failure to comply with this rule may result in serious danger, risk of accident and/or serious damage to the gate and the automation. Contact a PROFESSIONAL INSTALLER and in the meantime use the gate manually by disengaging the operator (see chap. UNLOCK OPERATOR/ACTUATOR) of this manual.
• To keep the automation in efficient condition, ensure that the operations indicated in the MAINTENANCE chapter are carried out at the intervals indicated by a PROFESSIONAL INSTALLER.
• Examine the installation frequently for signs of mechanical imbalance, wear and tear and damage to cables and assembled parts: do not use the operator until the necessary repairs or adjustments have been made.
• In the event of liquids penetrating inside the control unit, disconnect the power supply and immediately contact the Manufacturer's Service Department.
• If a problem occurs that cannot be solved using the information in this manual, contact the manufacturer's service department.

12.1 - Indications for use

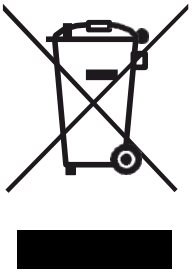
After having read and understood all the instructions given in the chapter entitled INSTRUCTIONS AND SAFETY WARNINGS FOR THE USER, the gate can be activated automatically, remotely with the radio remote control, with a key-operated control positioned close to the gate or any push-buttons from inside the house. Follow all safety instructions scrupulously during movement.

12.2 - Maintenance Requirements and Warnings

• Once the automation has been tested, the set parameters must not be changed.
If further adjustments are made (e.g. alterations to the voltage value), ALL REQUIRED CHECKS MUST BE REPEATED FOR TESTING AND COMPLIANCE WITH THE STANDARDS.
• The manufacturer accepts no liability for damage or injury caused by failure to observe the information provided in this manual and the safety instructions below.
• The manufacturer accepts no liability for damage and malfunctions resulting from failure to comply with maintenance instructions.
• To keep the operator efficient and safe, follow the cleaning, inspection and routine maintenance procedures described in this manual. This is the duty of the owner.

• Any checks, maintenance or repairs must be carried out by a PROFESSIONAL INSTALLER.
• Always switch off the power supply in the event of malfunctions, faults and before any other maintenance or cleaning work in order to prevent the gate from being operated.
• Always disconnect the operator's power supply before performing any operation.
• The owner is NOT authorised to remove the cover of the control unit as it contains live parts.
• If the power cable is damaged, it must be replaced by the Technical Service Department or a similarly qualified person in order to avoid risks.
• Do not make technical or programming changes to the control unit.
Such operations may cause malfunctions and/or risk of accidents. The manufacturer accepts no liability for damage caused by modified products.
• In the event of a circuit breaker or fuse tripping, the fault must be detected and rectified before operating conditions are restored.
Request the services of a PROFESSIONAL INSTALLER.
• The disconnection and replacement of the buffer battery pair (optional if provided) may only be carried out by a PROFESSIONAL INSTALLER.
• If a fault occurs that cannot be solved by following the information in this manual, contact the manufacturer's service department.
• Any maintenance, repair or replacement of parts must be recorded in the maintenance logbook, PROVIDED AND FILLED INITIALLY BY THE INSTALLER.
Every 6 months a PROFESSIONAL INSTALLER must repeat the series of tests described for testing the automation (see INSTALLATION MANUAL - TESTING AND TESTING).

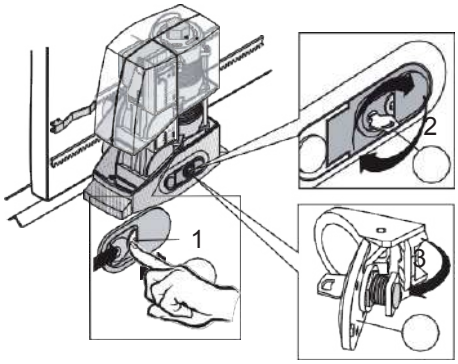
12.3 - Demolition and disposal



• The electromechanical operator is constructed using various materials, which implies the adoption of different disposal procedures. Please refer to the regulations in force in the country in which the automation is installed, especially regarding buffer batteries (if any).
• Batteries must be removed from the control unit before disposal. Disconnect the control unit from the mains before removing the batteries.
• Contact qualified companies for disposal.
CAUTION: Operator disconnection from the mains supply must be carried out by a qualified electrician using suitable tools.
The symbol to the right indicates that the product may not be disposed of with household waste, in accordance with the WEEE Directive (2012/19/EU), and/or applicable national laws. The product must be handed over to a designated collection point, e.g. the seller in case of purchase of a new similar product or an authorised collection point for recycling of waste electrical and electronic equipment (WEEE). Improper handling of this type of waste may have negative consequences for the environment and human health due to the potentially harmful substances usually contained in such waste.
The user's cooperation in the proper disposal of this product will contribute to the efficient use of natural resources and avoid incurring administrative sanctions under Art. 255 et seq. of Legislative Decree no. 152106.
For more information on recycling this product, contact your local authority, waste collection agency, authorised dealer or household waste collection service.

12.4 - Emergency manual release

Unlocking is implemented by means of a key that must be kept in a safe place.
a) Slide the lock protection (1) to the right.
b) Insert the key (2) into the lock and turn it 180° anticlockwise.
c) Open the cover by pulling it slightly (3).
d) the geared motor is now unlocked.



EU DECLARATION OF CONFORMITY

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

Declares that the following product:

ACER AC4R-AC4RM / AC6R-AC6RM / AC8R-AC8RM
AC12R-AC12RM / AC15R-AC15RM / AC20R-AC20RM

Electromechanical operator for sliding gate.

It complies with the essential requirements of the following directives:

DIRETTIVA MACCHINE (MD) 2006/42/CE
DIRETTIVA BASSA TENSIONE (LVD) 2014/35/UE
DIRETTIVA COMPATIBILTA' ELETTROMAGNETICA (EMC) 2014/30/UE
DIRETTIVA RADIO E TERMINALI DI TELECOMUNICAZIONE RED 2014/53/UE

It satisfies the essential requirements of the following standards UE laws:

EN 55014-1:2006 + A1:2009 + A2:2011;
EN 55014-2:2015;
EN 61000-3-2:2014;
EN 61000-3-3:2014;
EN 61000-4-2:2009;
EN 61000-4-3:2006;
EN 61000-4-4:2012;
EN 61000-4-5:2014;
EN 61000-4-6:2014;
EN 61000-4-8:2010;
EN 61000-4-11:2004;
EN 61000-4-13:2002/FprA2:2015;
EN 61000-6-1: 2007;
EN 61000-6-3: 2007;
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The responsability for the techical documentsis in charge of the signatory.

COLLE UMBERTO

04/03/2024

Name of signatory: Rui Michele

Position: CEO

Signature: .....

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