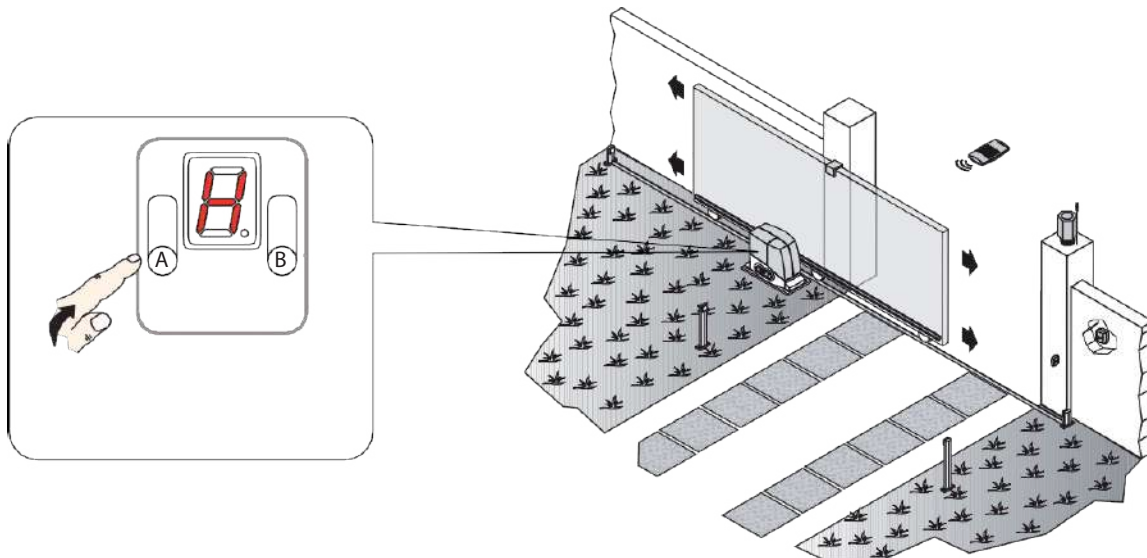
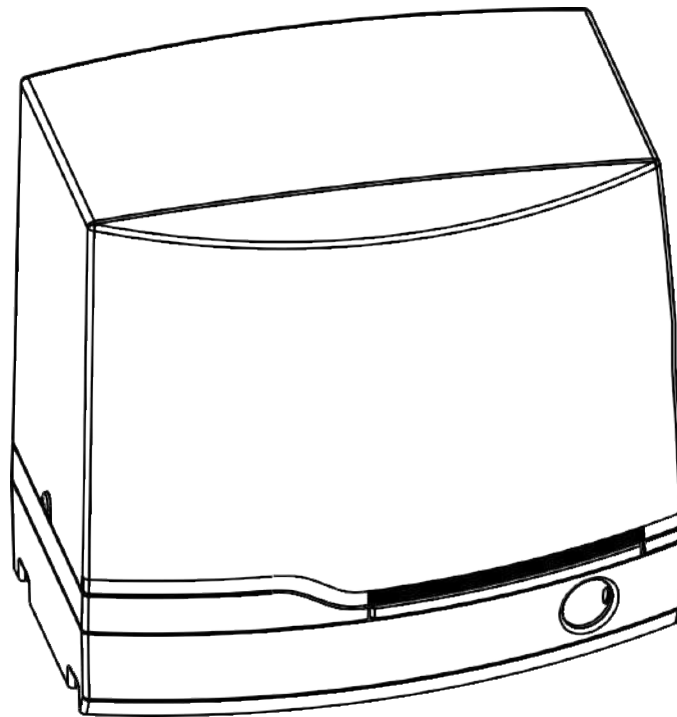


# - DEUS - CT1 24 Display

EN

## ELECTROMECHANICAL GEARMOTOR FOR SLIDING GATES WITH CONTROL UNIT

INSTRUCTIONS AND WARNINGS FOR INSTALLATION USE AND MAINTENANCE



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# 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 **c a u s e** 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 **c e n t r e** .

The automation must not be installed at an altitude of more than 2,000 m above sea level.

In accordance with the installation regulations, fit 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 work 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

Reproduction of this instruction manual is prohibited without prior written authorisation and subsequent verification by LIFE home integration.

Translation into any other language, even partial, is prohibited without prior written authorisation and subsequent verification by LIFE home integration.

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 DEUS 4HP - 4HS - 6HP motors and holder of all rights 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](http://www.homelife.it)
- E-mail: [info@homelife.it](mailto: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 DEUS 4HP - 4HS - 6HP electromechanical gearmotor is designed exclusively for automating swing gates. Any other use is considered 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 contact the manufacturer's service department immediately.
- 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 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 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 7 - SETTING OPTIONS.

- 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 can 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 - ENGINE TECHNICAL DATA

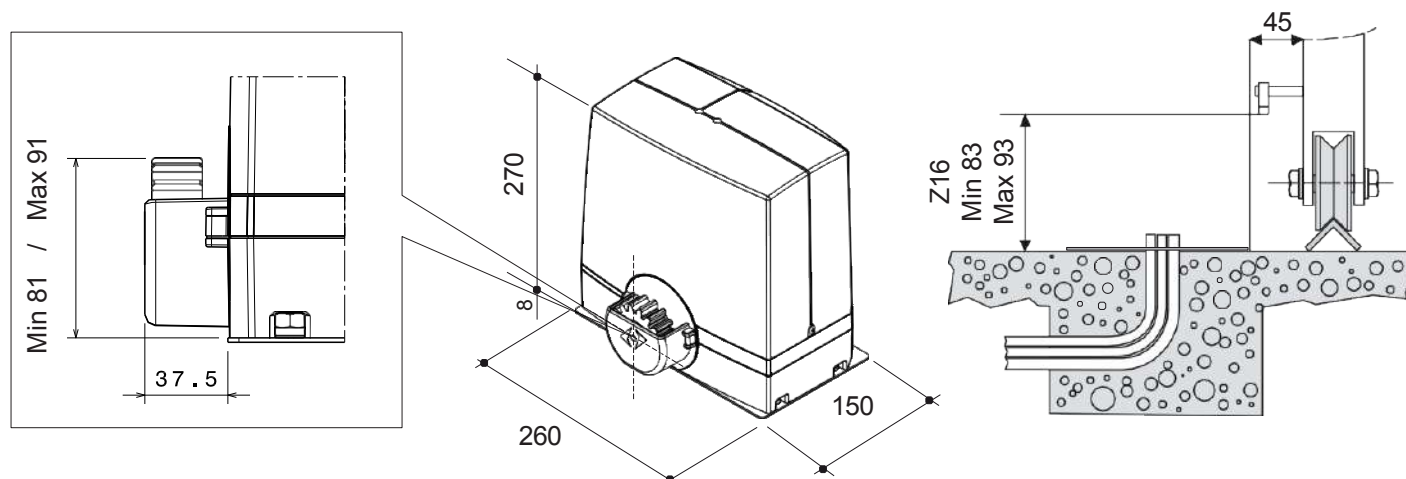
24V irreversible mechanical gearmotor for sliding gates.

|                         |      | DEUS4HP  | DEUS6HP | DEUS4HS |
|-------------------------|------|--|---------|---------|
| Supply voltage          | Vac  | 230 50/60Hz                                    |         |         |
| 230Vac line power       | W    | 230  |         |         |
| Line current 230Vac     | A    | 1  |         |         |
| Engine type             | Vdc  | 24   |         |         |
| Maximum engine power    | W    | 120  | 140     | 120     |
| Maximum motor current   | A    | 5  | 6       | 5       |
| Thrust                  | N    | 300  | 400     | 300     |
| Maximum starting torque | Nm   | 12   | 15      | 10      |
| Maximum speed           | m/S  | 0.23   | 0.23    | 0.34    |
| Work intermittence      | %    | 80   | 80      | 80      |
| Continuous working time | Min  | 20   | 20      | 20      |
| Maximum gate weight     | Kg   | 400  | 600     | 400     |
| Lubrication             | Type | Permanent grease                               |         |         |
| Limit switch            | Type | Without limit switch - Double magnetic encoder |         |         |
| Sound pressure          | dB   | LpA-70   |         |         |
| Motor insulation        |      | D  |         |         |
| Protection level        | IP   | 55   |         |         |
| Operating temperature   | °C   | -20 / +70                                      |         |         |
| Motor dimensions        | mm   | 260 X 150 H 270                                |         |         |
| Weight                  | Kg   | 4  |         |         |
| Electronic control unit |      | CT1 24 Display                                 |         |         |

### 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.

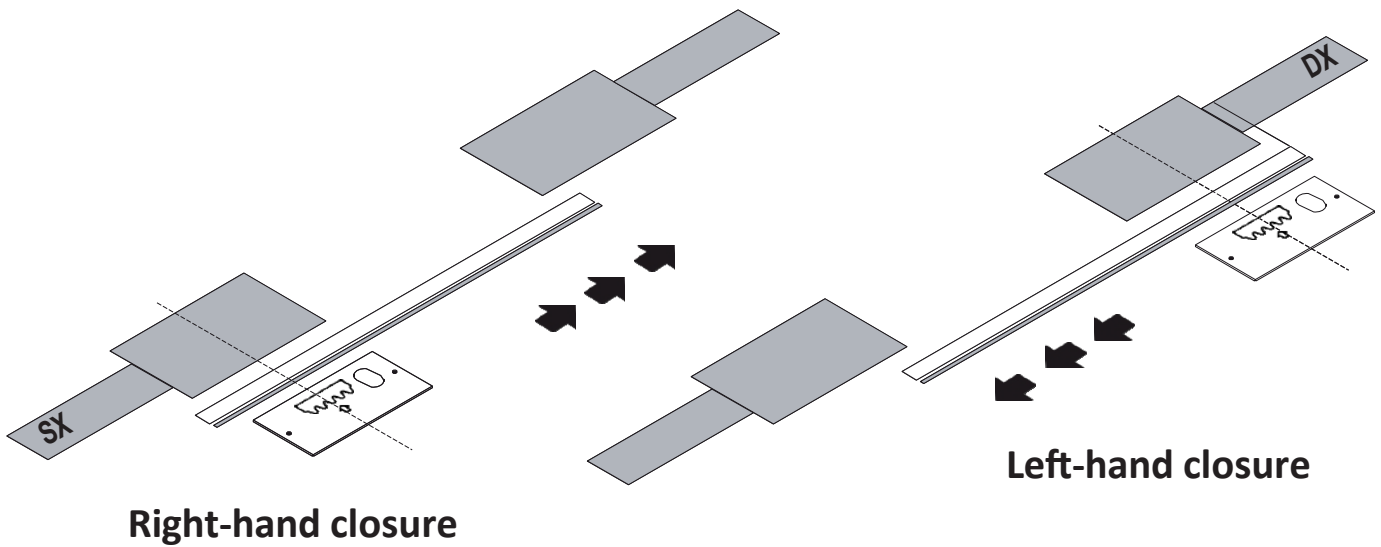
Check the overall dimensions by referring to the image below.



### 3 - INSTALLATION INSTRUCTIONS

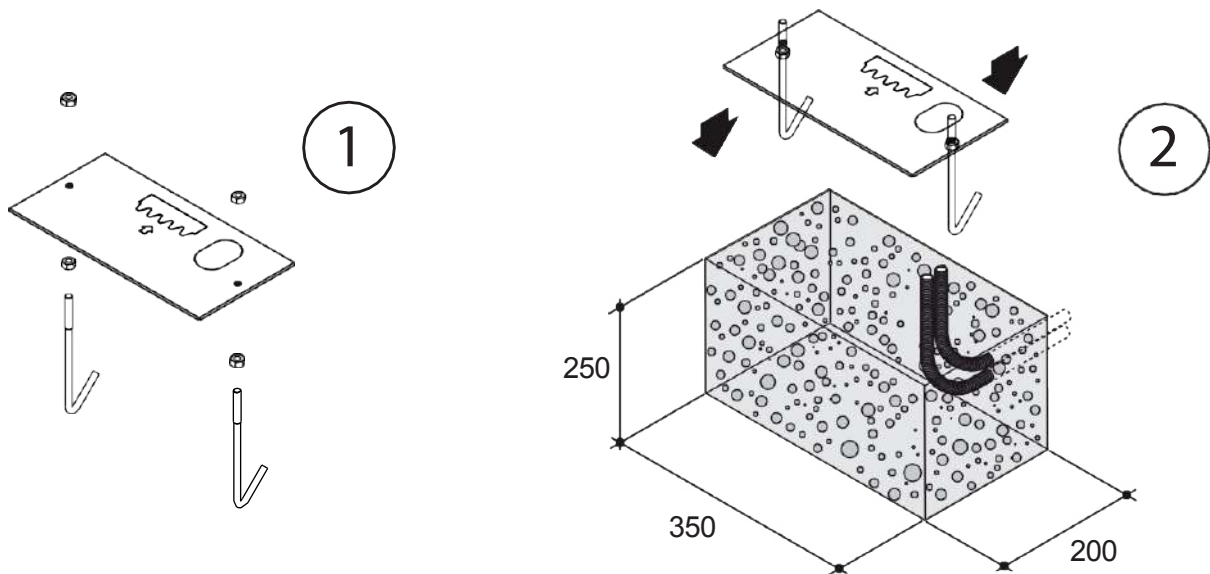
#### 3.1 - Installation of the gearmotor components.

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



#### 3.2 - Installation and fixing of the anchor plate.

- To position the anchor plate correctly, respect its orientation (LEFT - RIGHT) as shown in the picture.
- Observe the height dimensions as shown in the picture with Z16 sprocket.
- Position the electrical cable pipes, leaving them protruding and plugging them, to prevent them from filling with debris.
- Fix the anchor plate to the concrete base with 2 expansion plugs or immerse the supplied anchor bolts in fresh concrete.

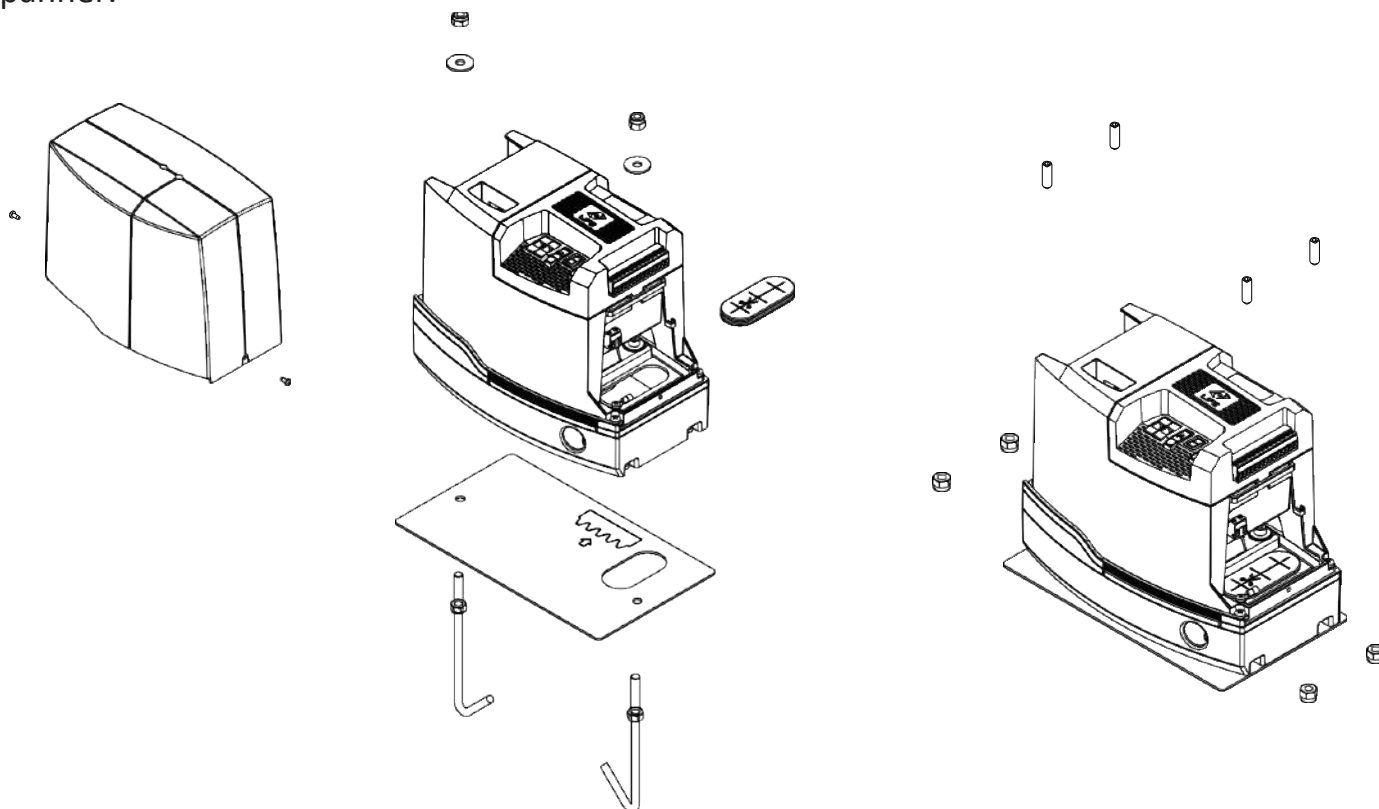


#### WARNING:

If the gearmotor is subjected to harsh working conditions or if the weight of the gate exceeds 300 kg, the anchor plate must necessarily be fixed by 'drowning' it in concrete.

### 3.3 - Installing and securing the geared motor

- a) Remove the geared motor cover by unscrewing the screws; position the geared motor on the anchor plate and screw in the two M10 bolts with washers.
  - b) If necessary, adjust the gearmotor vertically by turning the 4 adjusting screws and levelling it. Adjust the geared motor so that it is parallel to the gate.
- Secure the geared motor permanently by locking the two M10 bolts and their washers with a spanner.

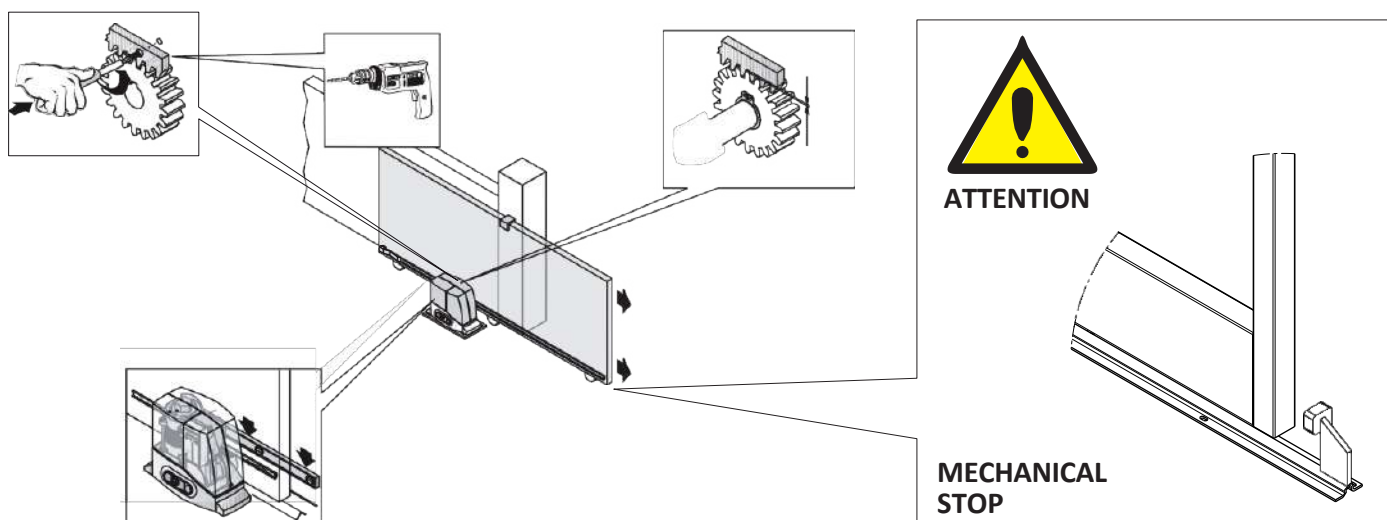


### 3.4 - Assembly of the rack

Unlock the gear motor, secure the rack to the gate with the screws provided. Leave 1 mm between the pinion and the teeth of the rack.

Check that the complete movement takes place without obstacles and obstructions.

Ensure that the mechanical opening and closing stops are present.



### 3.5 - Manual release

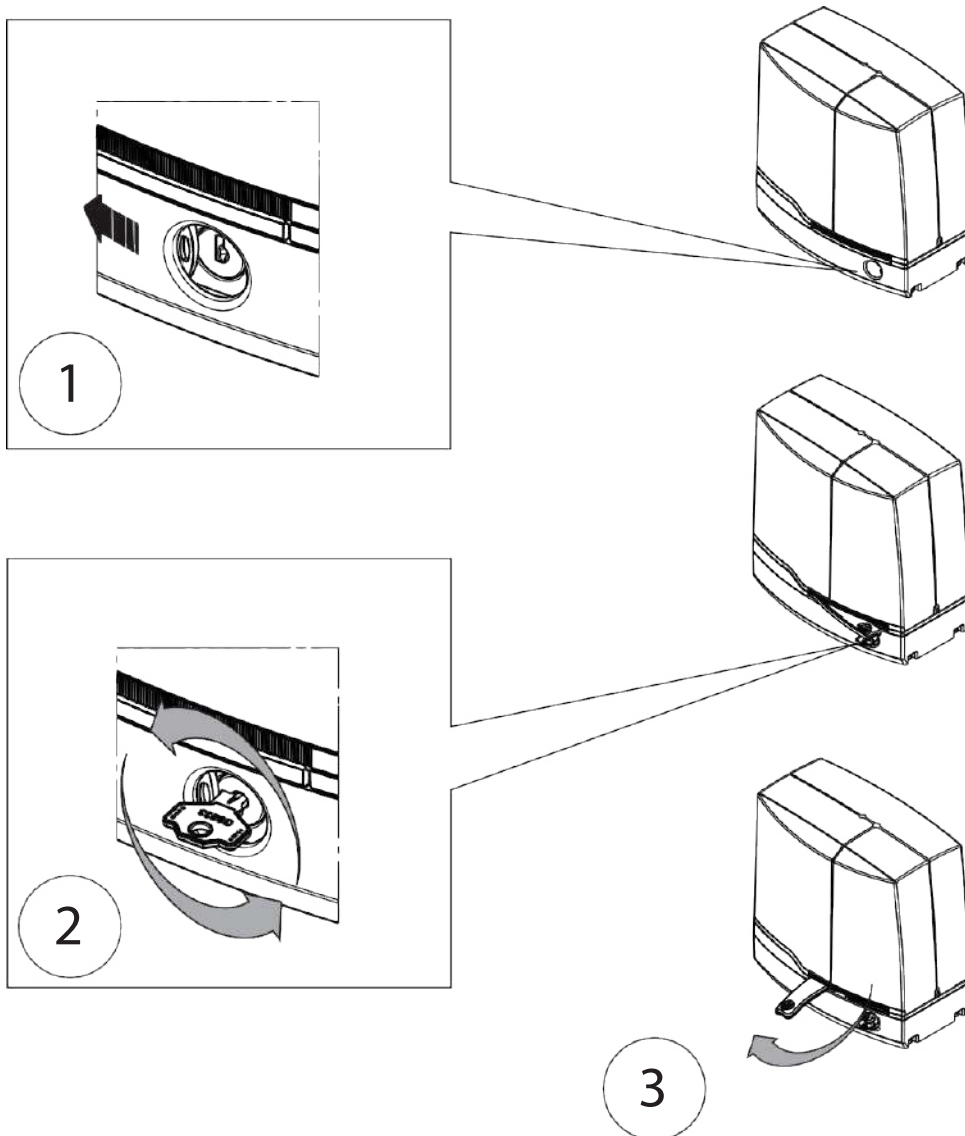
#### WARNING:

- Switch off the power supply before proceeding.
- Manual release can cause uncontrolled gate movement, due to mechanical damage, or mechanical imbalance conditions.
- This control unlocks the gearmotor drive and moves the sash manually; it can be used in the event of a power failure or system fault.



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

- a) Slide the lock protection to the left.
- b) insert the key into the lock and turn it 90° anticlockwise.
- c) Rotate the lever 90°.
- d) the geared motor is now unlocked.



### 3.6 - Wiring the geared motor

Before proceeding with connections, please read the SAFETY sections carefully. All wiring and connection work must be carried out with the control board disconnected.

Power supply; if the disconnecting device is not visible, affix a warning sign: 'CAUTION: MAINTENANCE IN PROGRESS'.

The internal wiring of the electromechanical actuator must not be changed.

**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 covering of the power cable must be a polychloroprene sheath.
- All cables should be stripped to the minimum necessary, maximum 6 mm, as close to the connecting terminal 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.
- Use the power cable fastener.

#### Inserting electrical cables into the gearmotor

a) Remove the cover from the geared motor.

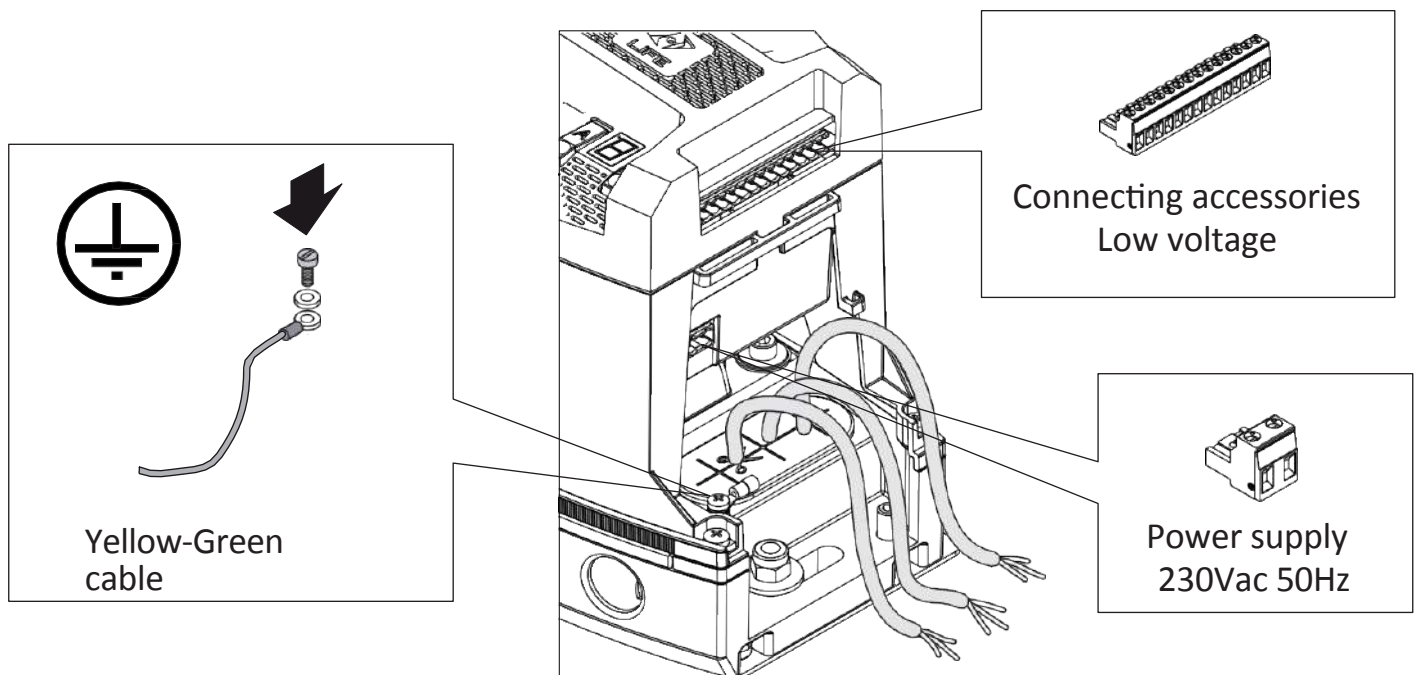
b) Open the holes provided in the cable gland, then insert the cables required for the connections (keep 230V and extra-low voltage cables separate).

Leave the longer cables about 40 cm.

c) Insert and firmly adhere the cable gland membrane in the base of the gearmotor to prevent insects and dirt from entering.

For safety reasons, it is mandatory to earth the motor.

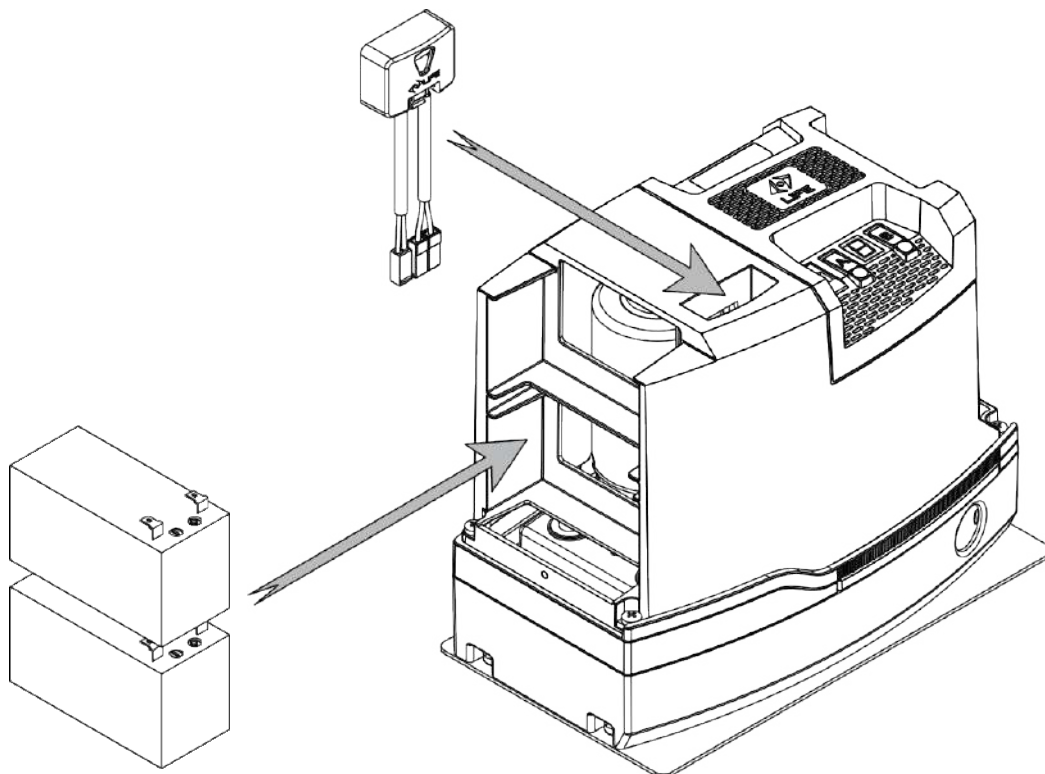
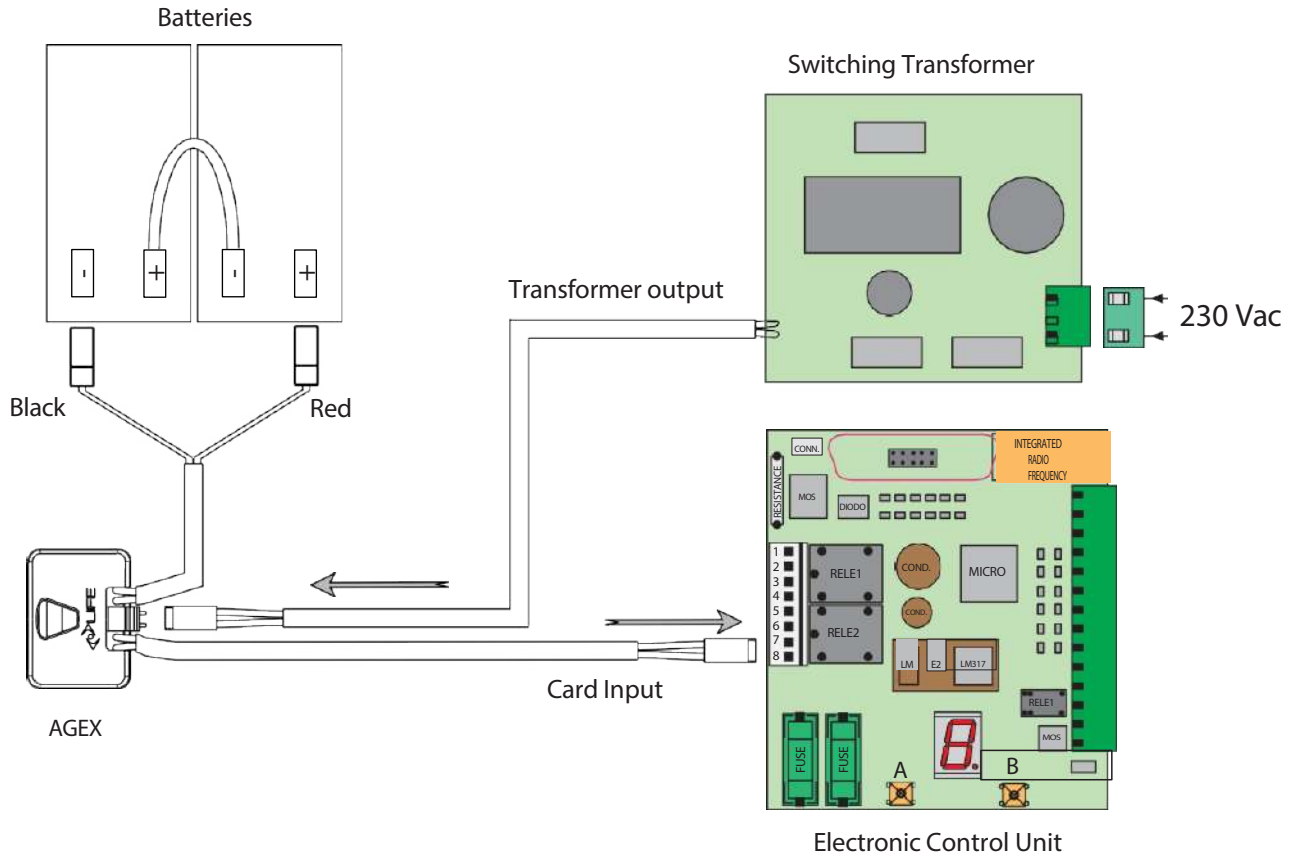
Crimp the yellow-green wire of the power cable into the eyelet in the aluminium base.



### 3.7 - Buffer battery connection (AGEX optional kit)

Battery operation allows emergency operation in the absence of mains power; autonomy is about 8 hours for about ten manoeuvres.

For connections, follow the diagram shown here.



#### 4 - ELECTRONIC CONTROL UNIT CONNECTIONS

- Before wiring, please read carefully what is written in the SAFETY PRECAUTIONS AND WARNINGS and INSTALLATION PRECAUTIONS AND WARNINGS.

- All wiring and connection work must be carried out with the power supply disconnected. If the device is not visible, a warning sign must be affixed: 'WARNING: IN MAINTENANCE'.

The installer must connect the 230 Vac 50 Hz power supply and the various devices provided for self-sufficiency.

The connections between controller, motor, encoder and transformer are already made by the manufacturer, they must not be changed in any way.

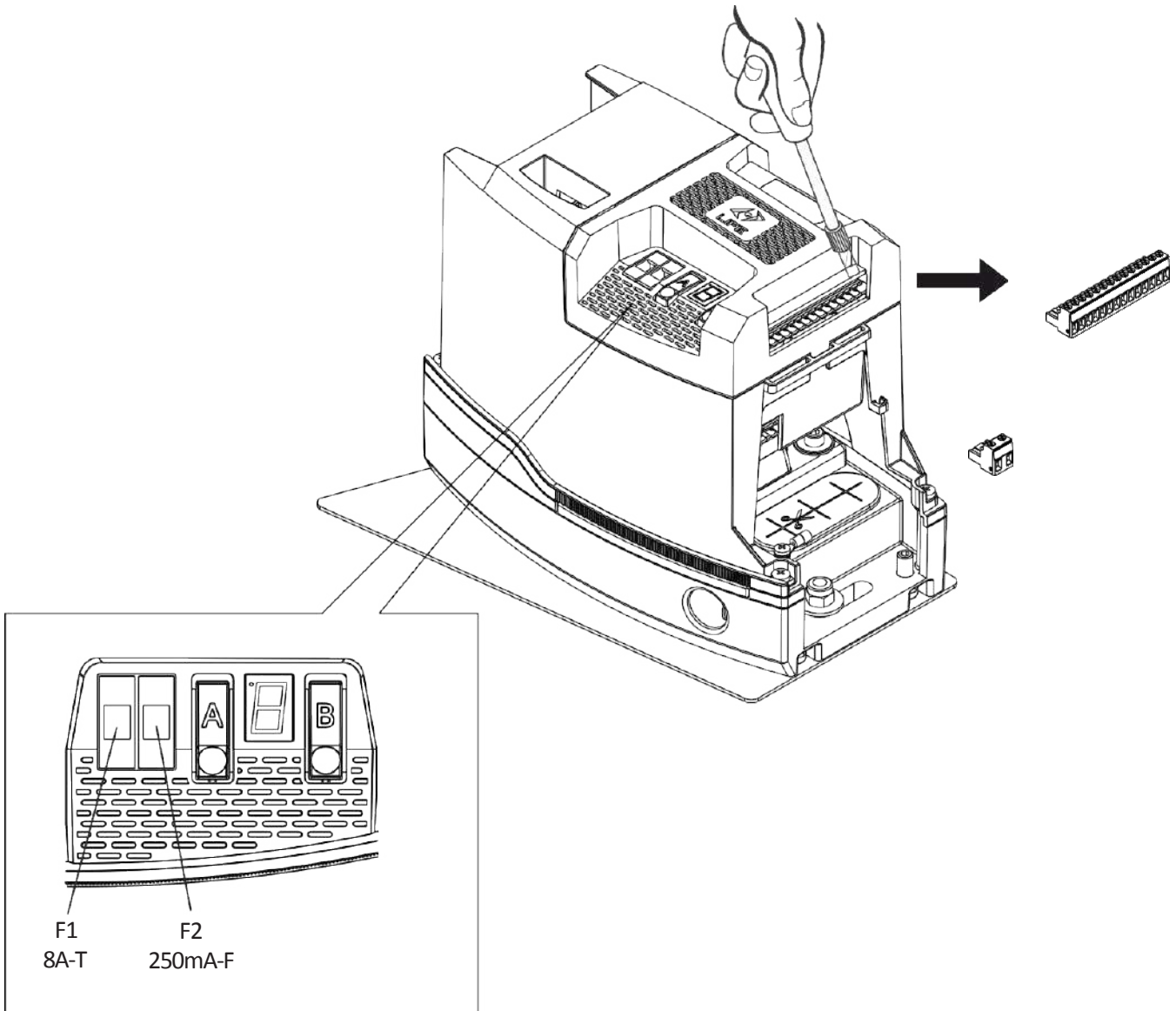
#### WARNING:

To facilitate connection to the control unit, remove the connector with the help of a screwdriver.

Once the wiring is complete, insert it in the correct position.

Use cable ties to secure the wires in the slots adjacent to the connector.

Use cables of a suitable cross-section and type.

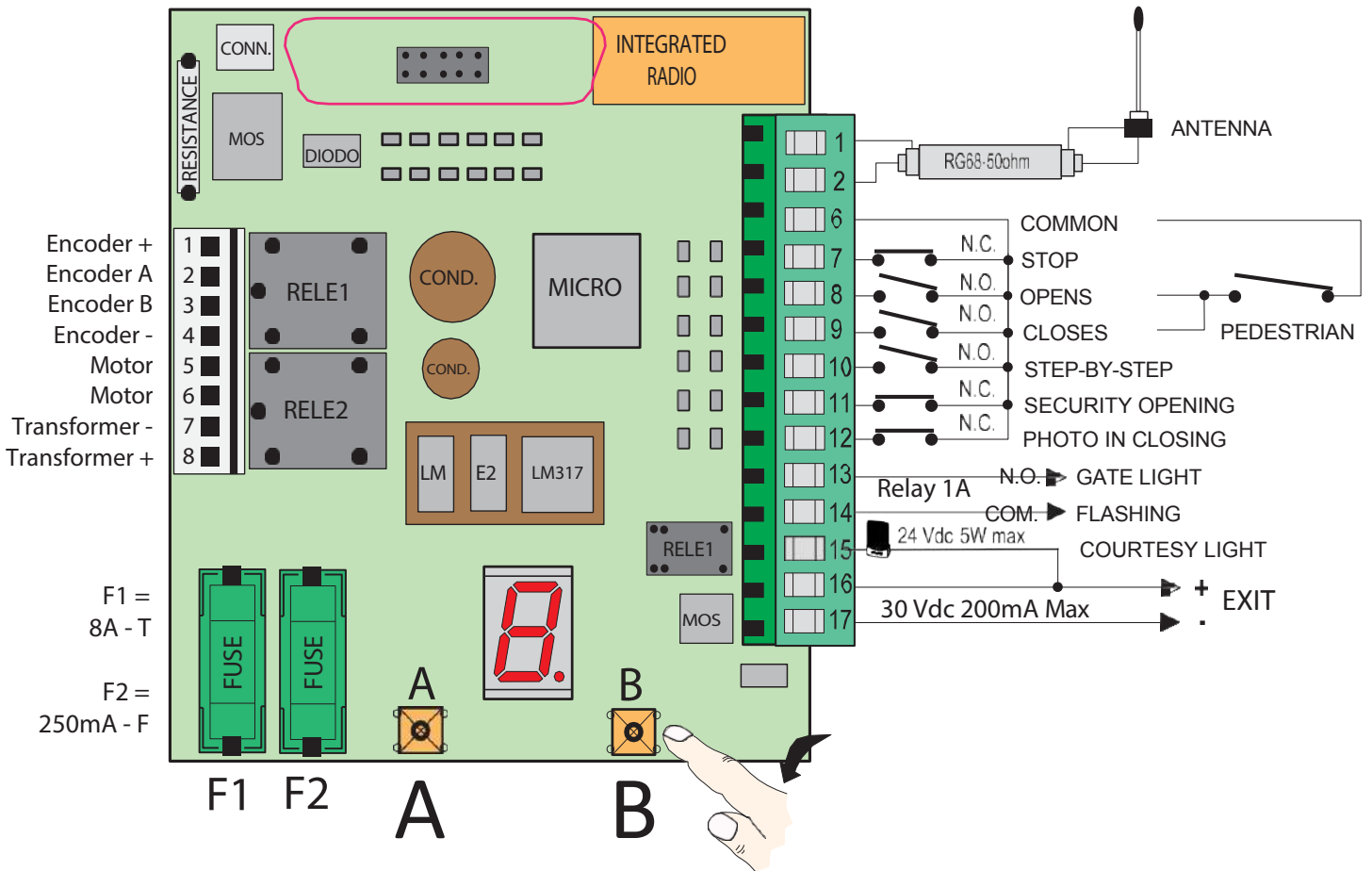


## 4.1 - List of links and connections

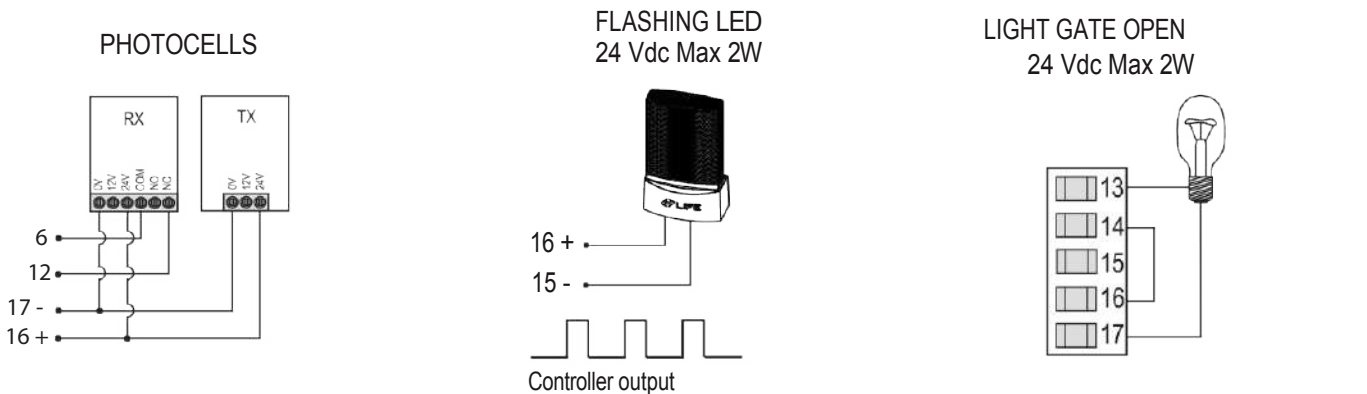
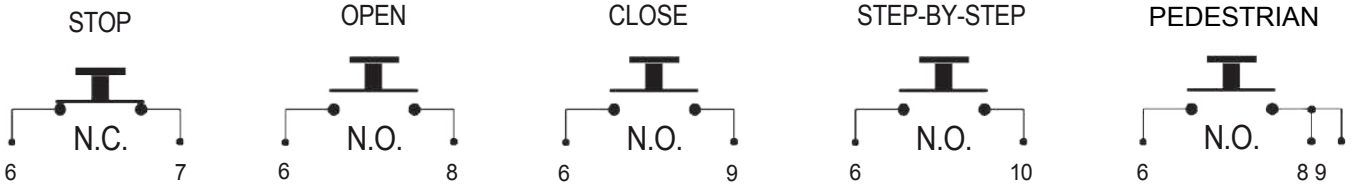
| Clamps  | Description   |
|---|---|
| 1   | <b>ANTENNA:</b> Antenna sock input, use RG58-50 Ohm cable.  |
| 2   | ANTENNA: Antenna input.   |
| 6   | <b>COMMON</b> for STOP, OPEN, CLOSE, STEP-by-Step, SECURITY, PHOTO inputs   |
| 6 - 7   | <b>STOP:</b> Input N.C. Determines the stop of the gate. Safety devices such as an emergency stop button can be connected to it. When the command is released, automatic closing is never performed. Only a new command resumes movement.   |
| 6 - 8   | <b>OPENING:</b> Input N.O. Determines the opening of the gate.  |
| 6 - 9   | <b>CLOSING:</b> Input N.O. Determines the closing of the gate.  |
| 6 - 8/9   | <b>PEDESTRIAN:</b> With simultaneous activation of the two inputs 8 and 9, the gate opens in pedestrian mode following the settings in the OPTIONS menu [6].  |
| 6 - 10  | <b>STEP BY STEP:</b><br>N.O. Input Determines the movement of the gate according to the following cycles:<br>SEMIAUTOMATIC: Open, Pause, Close, Pause.<br>CONDOMINIUM: Opens (with automatic closing active). SEMIAUTOMATIC:<br>Opens, Stops, Closes.<br>SEMIAUTOMATIC: Opens, closes.<br>SEMIAUTOMATIC: Man present. |
| 6 - 11  | <b>SAFETY ON OPENING:</b> N.C. input for safety on opening. During the opening cycle of the gate, the intervention of the safety device causes a brief reversal.  |
| 6 - 12  | <b>PHOTOCELL:</b> N.C. input for photocells or safety devices. During the gate opening cycle it does not intervene. During the gate closing cycle it reverses the movement until the gate is fully open.  |
| 13 - 14   | <b>RELE' CONTACT:</b> Multi-function relay contact output, with OPTION [8]: A.C. warning light - Courtesy light - Radio contact.  |
| 15 - 16   | FLASHER: 24 Vdc 5 W max. output, for connection of the flashing light.  |
| 16  | <b>OUTPUT 30 Vdc :</b> To power auxiliary devices, max. 200mA.  |
| 17  |   |
| <b>N.C. = Contact normally Closed                      -N.O = Contact normally Open</b> |   |

| Terminals | Colour of Cables | Function                      |
|-----------|------------------|-------------------------------|
| 1         | Brown            | + Encoder                     |
| 2 - 3     | Green / Yellow   | Encoder A - B                 |
| 4         | White            | - Encoder                     |
| 5 - 6     | Blue / Red       | Motor                         |
| 7 - 8     | Black / Red      | Transformer - / Transformer + |

## 4.2 - Wiring diagram and connections



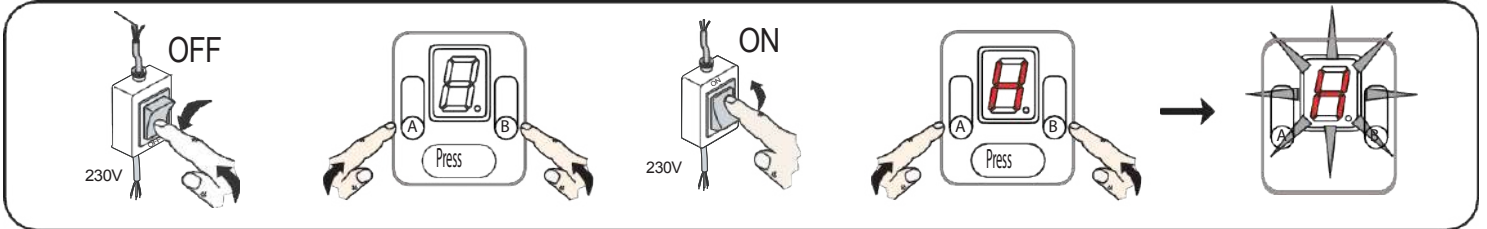
Any safeties (Photocells or Stops) must be connected before programming, otherwise they will NOT be active. It is possible to activate them later by following Chapter 7 Option 9. Before proceeding with programming, ensure the presence of the mechanical opening and closing beats.



## 5 - CONTROL UNIT CONFIGURATION

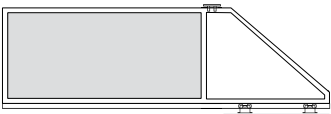
### 5.1 - Total reset

Switch off power, press and hold buttons **A** and **B** simultaneously, switch on power and hold until [ **H** ] flashes on the display. Release the buttons. All parameters are now reset to factory default.



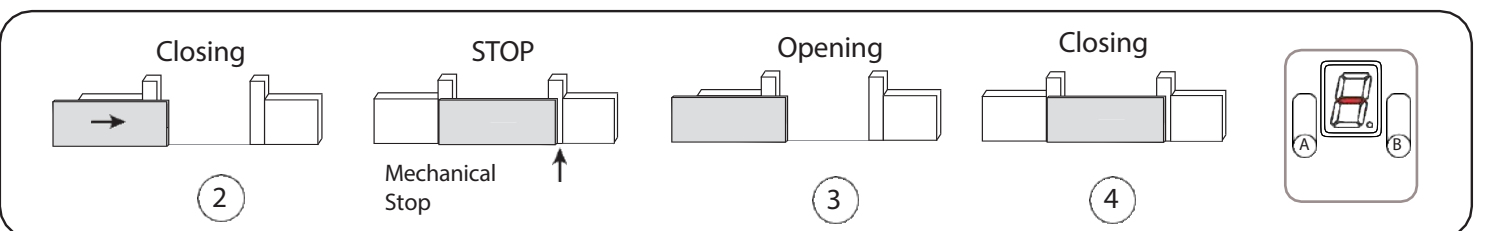
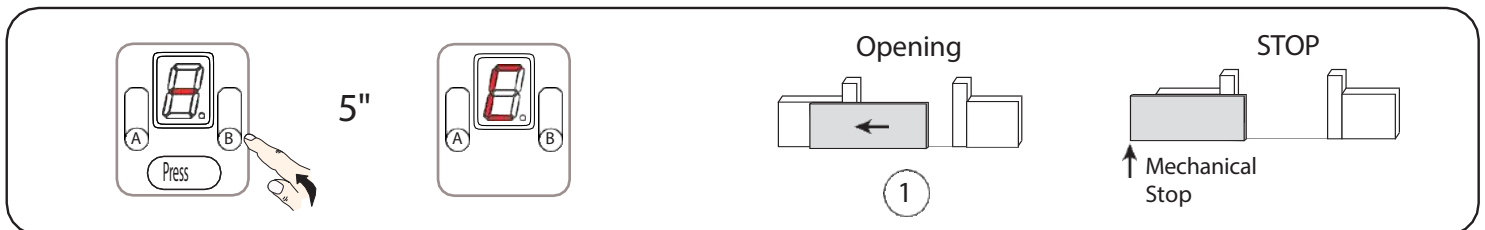
### 5.2 - Automatic initial programming

Unlock the gearmotor, position the gate halfway along the stroke, lock the gearmotor again. Press and hold button **B** for 5". Release the button when the display flashes [ **[ ]** ] release the button, the gate moves slowly to the left in search of the first mechanical stop which must be the Opening stop, if this is not the case, to reverse the movement to the right, press and release button **B**, the direction of rotation changes and the display shows [ **] ]**.



At this point, the profile for cantilever gates can be activated. Simply press button **A** at this stage of programming. A dot [ **.** ] will appear at the bottom right of the screen to indicate successful setting.

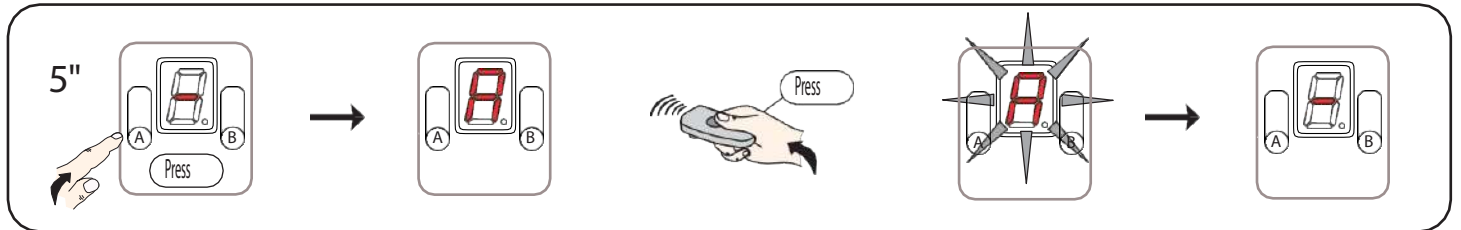
The control unit performs a first automatic manoeuvre at low speed, Opening and Closing, with a short push in the mechanical limit switches to memorise the full stroke. It then performs a further two manoeuvres to memorise the opening and closing positions with the default operating parameters. At the end of the cycle the [ **-** ] lights up to indicate automation ready for operation. Once programming is complete, push-button **B** becomes a STEPPING command pressed in impulsive mode.



## 6 - REMOTE CONTROL MANAGEMENT

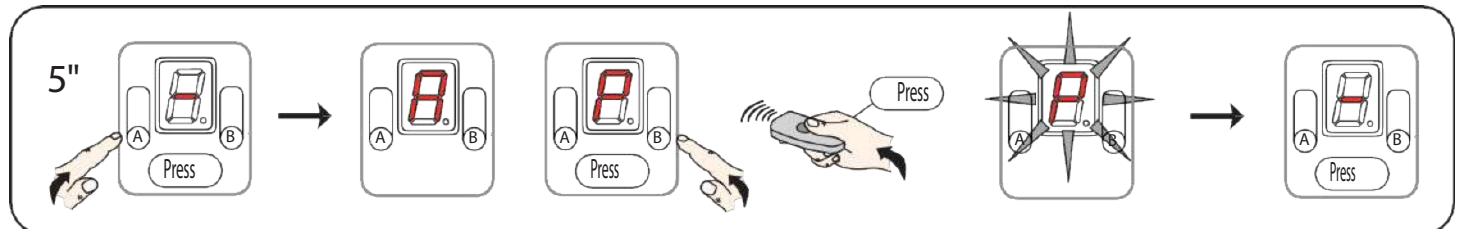
### 6.1 - Programming remote control full opening

Press and hold button **A**. After 5", [ **A** ] lights up on the display. Release the button and transmit with the button on the remote control that you want to memorise within 5". Successful memorisation is indicated by a brief flashing of the display. To store further remote controls, press the buttons on the transmitters in sequence. If no signal is transmitted after a few seconds, [ - ] lights up to indicate automation ready for operation.



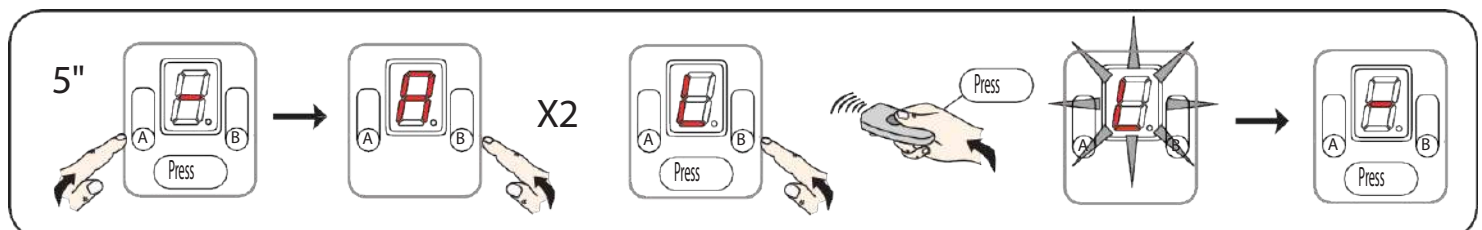
### 6.2 - Programming remote control partial opening

Press and hold button **A**. After 5" [ **A** ] lights up on the display. Release the button, press and release button **B**, [ **P** ] lights up on the display. Transmit with the button on the remote control you want to store within 5". Correct storage is indicated by a brief flashing of the display. To store further remote controls, press the buttons on the transmitters in sequence. If no signal is transmitted after a few seconds, the [ - ] to indicate automation ready for operation.



### 6.3 - Programming Remote Control on Relay Contact

Press and hold button **A**. After 5" [ **A** ] lights up on the display. Release the button, press button **B** twice, [ **L** ] lights up on the display. Transmit with the button of the remote control you want to store within 5". Successful storage is indicated by a brief flashing of the display. To store further remote controls, press the buttons on the transmitters in sequence. If no signal is transmitted after a few seconds the [ - ] lights up to indicate automation ready. N.B. The function is only available if Option 4 or 5 in Option Menu 8 is active.



## 6.4 - Radio remote control programming

From an open gate with a safety enabled: STOP and/or PHOTO.

1 - Press a previously memorised remote control for 10" in succession: full opening remote control programming is entered, the memory opens, the flashing light performs 1 short blink.

Transmit now with the new remote control, the correct memorisation is displayed with a steady light for a few seconds. Only one remote control can be memorised at a time.

2 - Press the same remote control again for 3" consecutively :

you enter the pedestrian opening remote control programming, the memory opens, the flashing light performs 2 short flashes.

Now transmit with the new remote control, the correct memorisation is displayed with a steady light for a few seconds, only one remote control can be memorised at a time.

3 - Press the same remote control again for 3" consecutively :

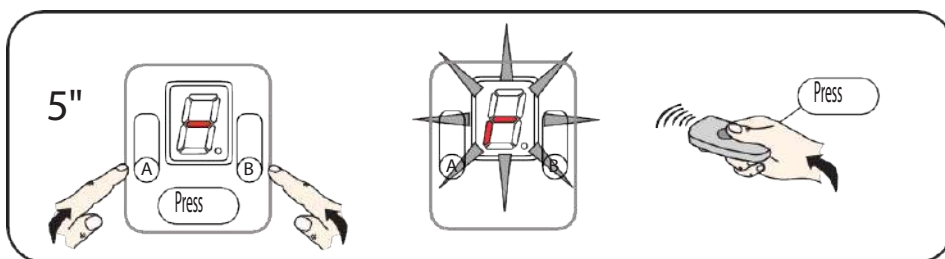
you enter multifunctional relay remote control programming, the memory opens, the flashing light performs 3 short flashes.

Now transmit with the new remote control, the correct memorisation is displayed with a steady light for a few seconds, only one remote control can be memorised at a time.

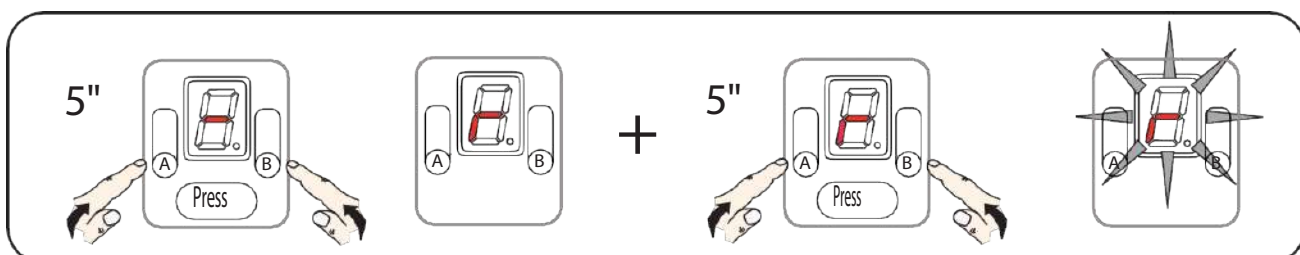
## 6.5 - Deleting one or all remote controls

Press and hold the **A** and **B** buttons simultaneously for 5". A [ r ] flashes in the display. Release the buttons, transmit the remote control for single deletion or press **A** and **B** at the same time to confirm the deletion of all remote controls.

Cancellation of individual remote control



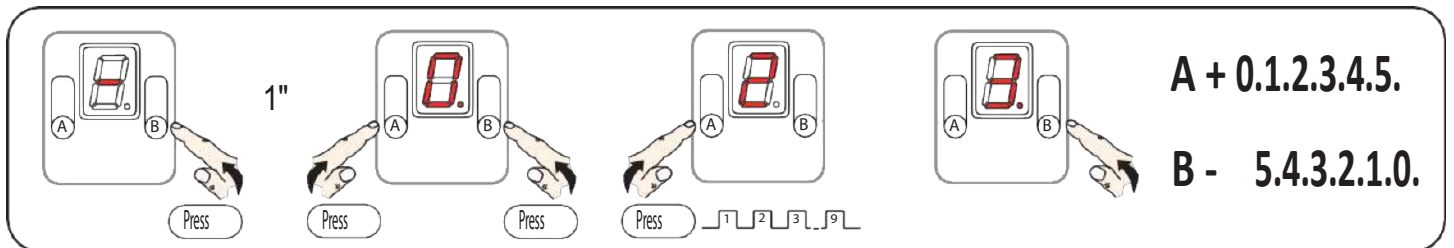
Deletion of all remote controls



## 7 - SETTING OPTIONS

Press and hold button **B** immediately afterwards press button **A**, now release both buttons. Now each time button **A** is pressed the display indicates the menu number [ 0 ] - [ 1 ] ..... [ 9 ] for 5", to confirm the desired menu press **B**.

Now the display indicates with [ . ] the set adjustment level ranging from 0 to 5, with buttons **A** and **B** you can change the parameters according to the table shown here, after 5" the display exits automatically and the last setting is stored.

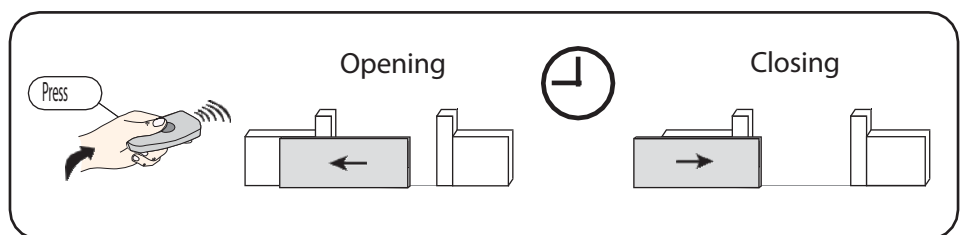


### [0] - Operating options

- [0] Semi-automatic (Default)
- [1] Condominium
- [2] Open - Stop - Close - Stop
- [3] Opening - Closing
- [4] Dead man's switch
- [5] .....

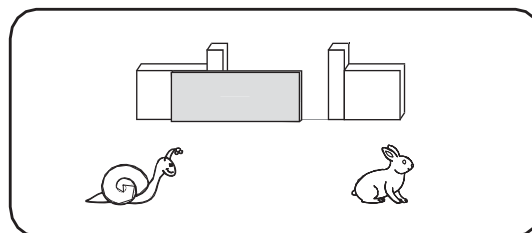
### [1] - Automatic Closure

- [0] No (Default)
- [1] 5"
- [2] 10"
- [3] 30"
- [4] 60"
- [5] 120"



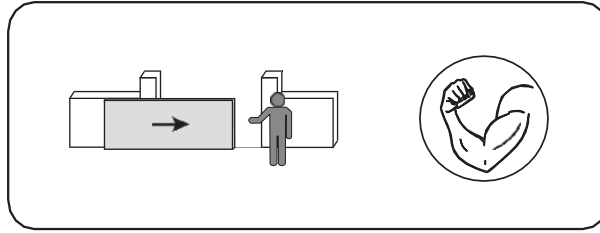
### [2] - Speed Adjustment

- [0] Minimum
- [1] ----
- [2] ----
- [3] (Default)
- [4] ----
- [5] Maximum



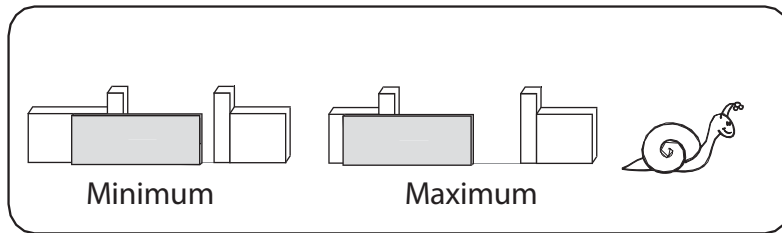
### [3] - Obstacle Sensitivity Adjustment

- [0] Minimum
- [1] (Default)
- [2] ----
- [3] ----
- [4] ----
- [5] Maximum



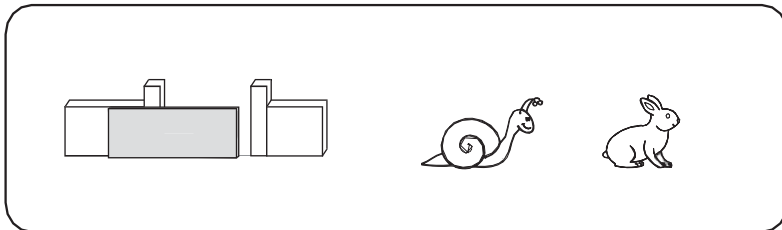
### [4] - Slowdown Space Adjustment

- [0] Minimum
- [1] ----
- [2] (Default)
- [3] ----
- [4] ----
- [5] Massimo



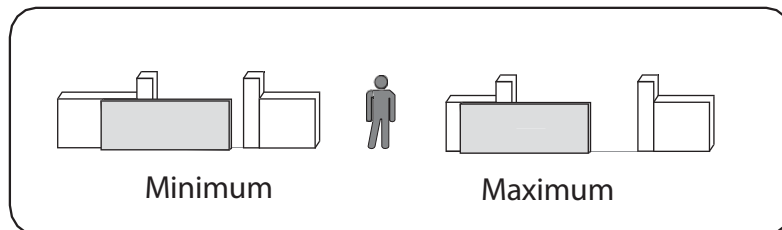
### [5] - Slowdown Speed Adjustment

- [0] Minimum
- [1] ----
- [2] (Default)
- [3] ----
- [4] ----
- [5] Maximum



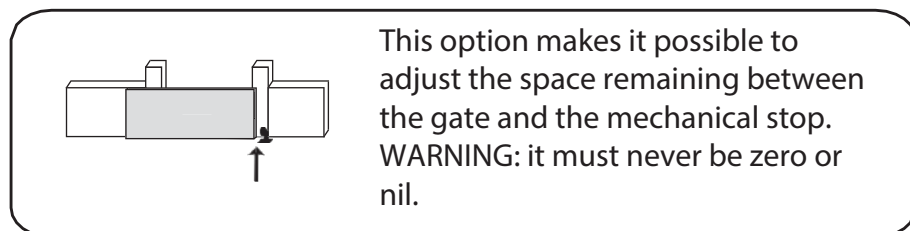
### [6] - Pedestrian Opening

- [0] 10% Of the run Total
- [1] 20%
- [2] 30% (Default)
- [3] 40%
- [4] 50%
- [5] 60%



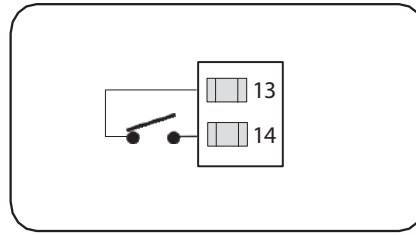
### [7] - Limit switch approach adjustment

- [0] Minimum
- [1] ----
- [2] ----
- [3] (Default)
- [4] ----
- [5] Massimo



## [8] - Setting Relay Output

- [0] Gate Open Indicator Light (Default)
- [1] Courtesy light 30"
- [2] Courtesy light 1'
- [3] Courtesy light 3'
- [4] Pulsed radio contact
- [5] Radio contact Step-by-Step

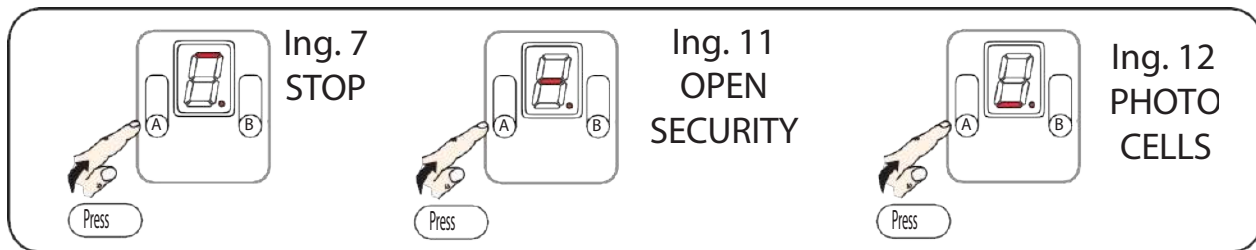


## [9] - Enable safety inputs N.C. 7 - 11 - 12

With Menu 9, the safety inputs can be manually enabled according to the indications given here.

With Red LED ON, the corresponding N.C. input is enabled. With LED OFF, the input is deactivated.

Press **A** to advance the sequence, if the segment is on, the contact is active.



### ATTENTION

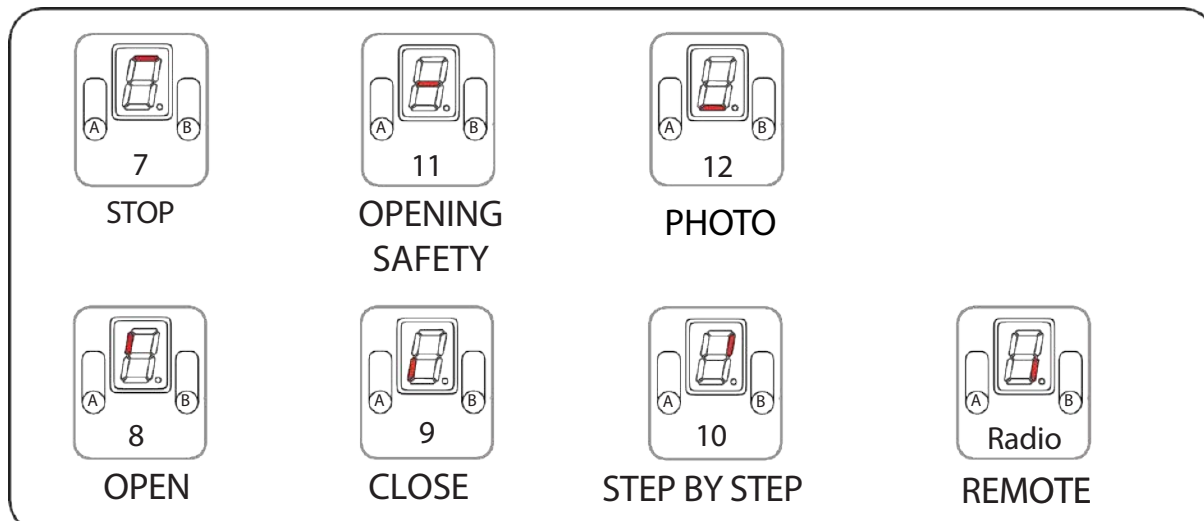
After enabling the safety inputs, check that they function correctly.

## 8 - VISUALISATION OF INPUT STATUS VIA DISPLAY

Press and release button **A**. The status of the inputs can now be displayed for 30" according to these rules:

Led On = Contact closed Led Off = Contact open

Press **A** again to anticipate exiting the display.



## 9 - 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 completely 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 the 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.

### 9.1 - 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.

### 9.2 - 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 REGULATIONS.
- 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).

### 9.3 - 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 where 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.

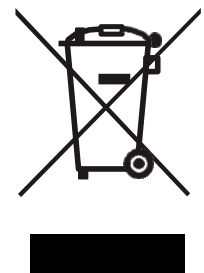
CAUTION: Operator disconnection from the mains supply must be carried out by a qualified electrician using suitable tools.

This symbol 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 shall 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.

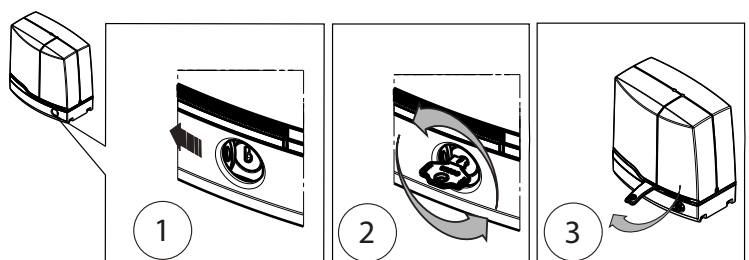


### 9.4 - Emergency manual release

The release is implemented by means of a key which must be kept in a safe place. Proceed as follows:

- 1) slide the lock protection to the left.
- 2) insert the key and turn it 90° anticlockwise.
- 3) turn the lever 90°.

The gear motor is now unlocked.



## TROUBLESHOOTING GUIDE

| PROBLEM ENCOUNTERED                                       | RESOLUTION  |
|---|---|
| The control unit does not switch on.                      | <ul style="list-style-type: none"> <li>- Check that the main switch is on.</li> <li>- Check Fuses</li> </ul>  |
| Motor does not respond to remote control commands         | <ul style="list-style-type: none"> <li>- Check that the remote control is memorised.</li> <li>- Check the remote control battery.</li> <li>- Check the wiring and antenna position.</li> <li>- Check that there are no external elements interfering with the radio signal: electric pylons, reinforced metal walls, etc. If this is the case, provide an external door.</li> </ul> |
| The safety photocells come on opening but not on closing. | <ul style="list-style-type: none"> <li>- Repeat the programming, paying attention to the first manoeuvre, which must be an opening.</li> </ul>  |
| Photocells do not intervene                               | <ul style="list-style-type: none"> <li>- Press button A to check that the photocells are correctly wired (see page 22 chapter 8);</li> <li>- Check whether the photocells are activated (see page 22 chapter 8) and if so, activate them.</li> </ul>  |
| The gate does not close.                                  | <ul style="list-style-type: none"> <li>- Check the correct functioning of the photocells.</li> </ul>  |
| The gate performs the slowdown but fails to close         | <ul style="list-style-type: none"> <li>- Check the sensitivity and force values.</li> </ul>   |
|   |   |
|   |   |
|   |   |



WARNING !

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



# EU DECLARATION OF CONFORMITY

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



Declares that the following product:

DEUS4HP - DEUS6HP - DEUS4HS

Electronic control unit for sliding gates.



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' ELETTRROMAGNETICA (EMC) 2014/30/UE  
DIRETTIVA RADIO E TERMINALI DI TELECOMUNICAZIONE RED 2014/53/UE



Serial number - Production lot

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

|                                      |                                 |
|--------------------------------------|---------------------------------|
| EN 55014-1:2006 + A1:2009 + A2:2011; | EN 60335-1:2013+A1:2014         |
| EN 55014-2:2015;                     | EN 60335-2-95:2015;             |
| EN 61000-3-2:2014;                   | EN 62233:2008;                  |
| EN 61000-3-3:2014;                   |                                 |
| EN 61000-4-2:2009;                   | EN 300 220 - 1 V2.4.1(2012-01); |
| EN 61000-4-3:2006;                   | EN 300 220 - 2 V2.3.1(2009-12); |
| 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;                  |                                 |
| EN 301 489-1 V1.9.2(2011-09);        |                                 |
| EN 301 489-3 V1.6.1(2013-06);        |                                 |

The responsibility for the technical documents is in charge of the signatory.

COLLE UMBERTO

26/04/2016

Name of signatory:

Rui Michele

Qualification:

Presidente

Signature:

A handwritten signature in black ink, appearing to read "Rui Michele", written over a horizontal line.



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**LIFE**  
**HOMEINTEGRATION**



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