



SUPPORT CALL



GUARANTEE

OREA550

MOTOR DRIVE KIT

For sliding gates

Ref. 114464

EN



24 V



SLIDING GATES



8 M



500 KG



COMPATIBLE WITH ALL
KINDS OF GATE



SOLAR OPTION



SMARTPHONE
COMPATIBLE OPTION



EASY TO
INSTALL

CONTENTS

A - SAFETY INSTRUCTIONS

1 - OPERATING PRECAUTIONS	04
2 - INSTALLATION PRECAUTIONS	04
3 - MAINTENANCE AND CLEANING	05
4 - RECYCLING	05

B - PRODUCT DESCRIPTION

1 - KIT CONTENTS	06
2 - EQUIPMENT REQUIRED (NOT INCLUDED)	06

C - INSTALLATION

SAFETY RULES	08
1 - ELIMINATING RISKS	08
2 - ATTACHING COMPONENTS	10
2.1 - Attaching the geared motor	11
2.2 - Attaching the rack	13
3 - ATTACHING THE FLASHING LIGHT	14
4 - ATTACHING THE SET OF PHOTOCELLS	15
5 - CONNECTIONS	17
6 - ELECTRONIC CONTROL CARD	18
7 - MOTOR POLARITY	18
8 - FLASHING LIGHT	18
9 - PHOTOCELLS (OPTIONAL)	19
10 - OPTIONAL ACCESSORIES	19

10.1 - Additional photocells	20
10.2 - Additional control parts	21
10.3 - Key selector	22
10.4 - Emergency stop parts	22
10.5 - Solar power kit	23

D - BEGINNING OPERATION

1 - SETTINGS INTERFACE	25
2 - QUICK SETTINGS	25
2.1 - Menu structure	25
2.1.1 - Réglages simples (basic settings)	
menu (MENU 1)	26
2.2 - Photocell alignment procedure	27
2.3 - Self-learning	27
2.4 - Programming remote controls	28
2.4.1 - Programming with the card	28
2.4.2 - Copy programming	28
2.4.3 - Deleting all remote controls	29
2.5 - Motor force	29
2.6 - Operating mode	29
2.7 - Time delay	30
3 - ADVANCED SETTINGS	30
3.1 - Access to advanced settings (MENU 2)	30
3.2 - Réglages avancés (advanced settings)	
menu (MENU 2)	31
3.2.1 - Speed	31
3.2.2 - Acceleration	31
3.2.3 - Photocell self-test (optional)	32
3.2.4 - Pre-flashing time	32

E - USE

1 - WARNING	33
2 - OPENING/CLOSING	33
2.1 - Type of command	33
2.2 - Operating modes	33
2.2.1 - "Semi-automatic closing" mode	33
2.2.2 - "Automatic closing" mode	34
2.2.3 - "Collective" mode	34
2.3 - Emergency stop	34
2.4 - Photocells (if installed)	34
2.5 - Obstacle detection	35
2.6 - Manual movement	35
2.7 - Motor disengagement	35
2.8 - Motor engagement	35

F - MAINTENANCE AND UPKEEP

1 - MAINTENANCE WORK	36
2 - OPERATING INDICATORS	36
3 - BATTERY VOLTAGE (FOR OPTION)	36
4 - ANOMALY GUIDE	37
4.1 - Manual control	39
4.2 - Total reset	39
5 - REPLACING THE REMOTE CONTROL BATTERY	39
6 - REPLACING THE POWER FUSE	39

G - TECHNICAL AND LEGAL INFORMATION

1 - TECHNICAL CHARACTERISTICS	40
2 - WARRANTY	42
3 - HELP AND ADVICE	42
4 - PRODUCT RETURNS/AFTER-SALES SERVICE	42
5 - DECLARATION OF CONFORMITY	43

A - SAFETY INSTRUCTIONS

In our efforts to continually improve our products, we reserve the right to make any changes to the technical, functional or aesthetic characteristics related to their development.

This automatic gate opening mechanism, and its manual, were designed to enable a gate to be motorised in compliance with current European standards.

WARNING

Important safety instructions. A automatic gate opening mechanism is a product that can cause injury to people and animals and damage to property. It is important for people's safety to follow these instructions.

Keep these instructions.

1 - OPERATING PRECAUTIONS

- This apparatus may be used by children over the age of 8 and by persons with reduced physical, sensory or mental abilities or lack of experience or familiarity, if they are correctly supervised or if the instructions relating to the safe use of the apparatus have been given to them and the possible hazards are understood. Children must not play with the device. Cleaning and user maintenance must not be conducted by children without supervision.
- This apparatus should only be used for its intended purpose, that is, to motorise a sliding gate for vehicle access. Any other use will be considered dangerous.
- The opening or closing manoeuvre control must be used with perfect visibility of the gate. Should the gate be outside the user's field of vision, the installation must be protected by a photocell type safety device, and its operation must be checked every six months.
- All potential users must be instructed in the use of the motorised gate by reading this manual. It must be ensured that no persons who have not been instructed in the use of the device may set the gate into motion.
- Before setting the gate into motion, ensure that there is no person in the area in which the gate moves.
- Do not let children play with the gate control devices. Keep the remote controls out of the reach of children.
- Avoid any natural obstacles (branch, stone, high grass, etc.) impeding the gate's movement.

- Do not manually activate the gate when the motor drive is not disengaged from the gate.

Avidsen cannot be held liable for any use that does not comply with the instructions in this manual and causes damage.

2 - INSTALLATION PRECAUTIONS

- Read this manual carefully before installing.
- The electrical installation of the motorised gate must meet current standards (NF C 15-100) and should be undertaken by a qualified person.
- The 230VAC mains supply must be protected against surges with a suitable circuit breaker which meets current standards.
- All electrical connections must be performed with the power switched off (safety switch in the OFF position) and battery disconnected.
- Ensure that crushing and shearing between the mobile parts of the motorised gate and the surrounding fixed parts due to the gate's opening/closing movement are avoided or signalled on the installation.
- The motorised part must be installed on a gate according to the specifications provided in this manual.
- The motorised gate must not be installed in an explosive atmosphere (presence of gas, flammable smoke, etc.).
- The installer must check that the temperature range shown on the motor drive is suitable for the location.
- The wire that acts as an antenna must remain inside the electronic panel.
- It is strictly forbidden to modify any of the components provided in this kit, or to use an additional component not provided for in this manual.
- During installation, but above all during adjustment of the motorised gate, you must ensure that no person, including the installer, is in the area in which the gate moves at the start and throughout the duration of adjustment.
- The flashing light is an essential safety component.
- If installation does not correspond to one of the cases shown in this manual, you must contact us so that we can provide all the components necessary for smooth installation with no risk of damage.
- After installation, ensure that the mechanism

A - SAFETY INSTRUCTIONS

is correctly adjusted and that the protection systems as well as the manual override device work correctly.

- Do not let children play with the fixed control devices. Keep the remote controls out of the reach of children.

The Avidsen company shall not be responsible in case of damage if installation is not conducted as indicated in these instructions.

3 - MAINTENANCE AND CLEANING

- Read all the instructions given in this manual before carrying out maintenance on the motorised gate.
- Disconnect the power supply during cleaning or other maintenance operations if the device is automatically controlled.
- Any technical, electronic or mechanical change to the motorised gate must be made with our technical department's approval; otherwise, the guarantee will be immediately cancelled.
- In the event of breakdown, the damaged part should be replaced by an original part and nothing else.
- Check the installation frequently to reveal any fault on the gate or the motor drive (see the chapter on maintenance).
- Never use abrasive or corrosive substances to clean the products.
- Use a soft, slightly damp cloth.
- Never use an aerosol to spray the product as this may damage the internal workings.

They could be swallowed by children or pets. Risk of death! In the event that a battery is swallowed, contact a doctor or go to A&E immediately. Never short-circuit the batteries, and do not burn or recharge them as they may explode!



This symbol means that devices no longer in use should not be disposed of with household waste. The hazardous substances they may contain can be harmful to health and the environment.

Return the equipment to your local distributor or use the recycling collection service provided by your local council.



4 - RECYCLING

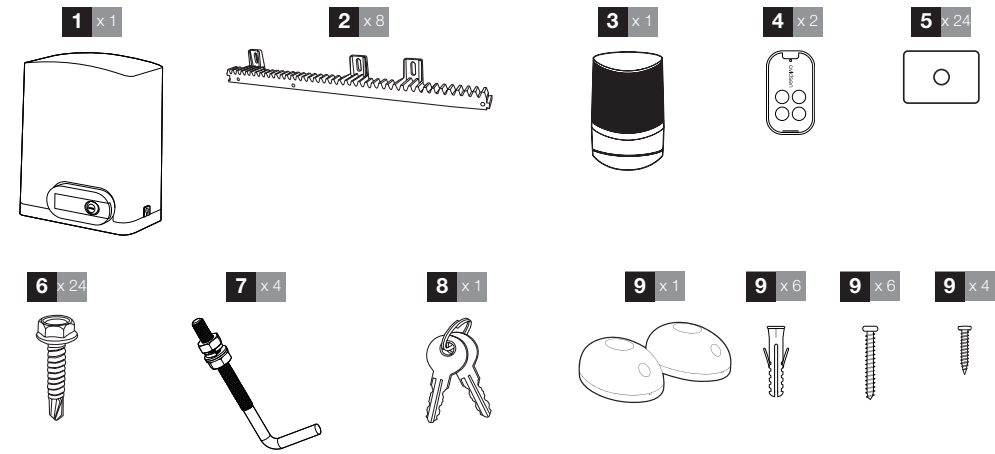


The disposal of used batteries in household waste is strictly forbidden. Batteries/accumulators containing harmful substances are marked with symbols (shown opposite) which indicate that it is forbidden to discard them in the household waste. The corresponding heavy metals are referred to as follows: Cd = cadmium, Hg = mercury, Pb = lead.

You can dispose of these used batteries/accumulators at local waste processing centres (centres for sorting recyclable materials), which are required to accept them. Keep batteries/button cells/accumulators out of reach of children and store them in a safe place not accessible to them.

B - PRODUCT DESCRIPTION

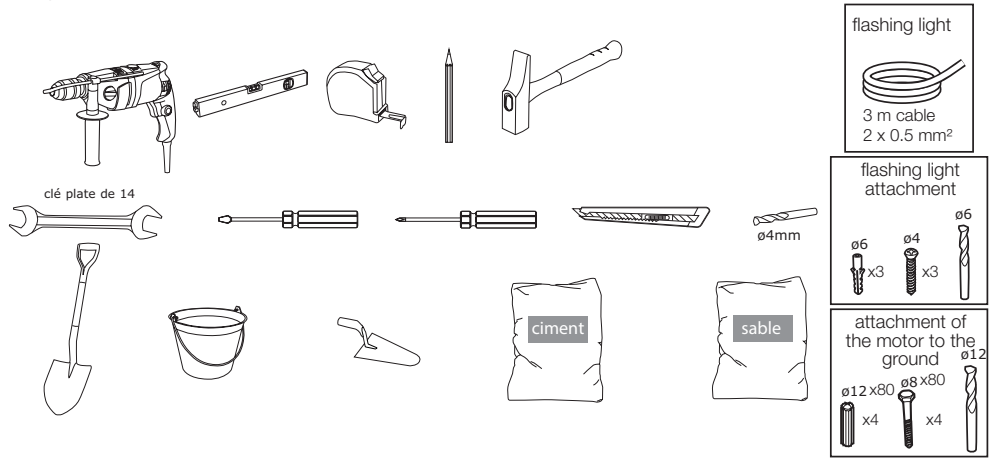
1 - KIT CONTENTS



1	Geared motor	6	Rack mounting screws
2	Rack	7	Floor fastening pin
3	Flashing light	8	Release key
4	Remote control	9	Photocells and their screws
5	Washers		

2 - EQUIPMENT REQUIRED (NOT INCLUDED)

The tools and screws required for the installation must be in good condition and compliant with applicable safety standards.



HAZARD ANALYSIS

REGULATION

Installation of a motorised gate or a motor drive on an existing gate within the framework of "Residential" type use must be compliant with directive 89/106/EEC concerning building products.

The reference standard used to check this compliance is EN 13241-1 which refers to a framework of several standards including EN 12445 and EN 12453 which specify the motorised gate safety methods and components to reduce or completely eliminate hazards to people.

The installer must train the end user on the correct operation of the motorised gate, and the trained user must train the other people likely to use the motorised gate, using this guide.

It is specified in standard EN 12453 that the minimum protection of the gate's primary edge depends on the type of use and the type of control used to set the gate in motion.

The gate motor drive is a press control system, i.e. simply pressing one of the control parts (remote control, key selector, etc.) sets the gate in motion.

This gate motor drive is equipped with a force limiter which complies with appendix A of EN 12453 standard, within the framework of use with a gate that is compliant with the specifications given in this chapter.

The specifications of EN12453 standard therefore enable the 3 following use cases, as well as the minimum levels of protection:

- **Press activation with visible gate**

Minimum level of protection: Force limiter only.

- **Press activation with non-visible gate**

Minimum level of protection: Force limiter and 2 pairs of photocells to protect the gate's opening and closing.

- **Automatic control (automatic closure)**

Minimum level of protection: Force limiter and 1 pair of photocells to protect the gate's automatic closing.

The flashing light is an essential safety component. The photocell type safety devices and their correct operation must be checked every six months.

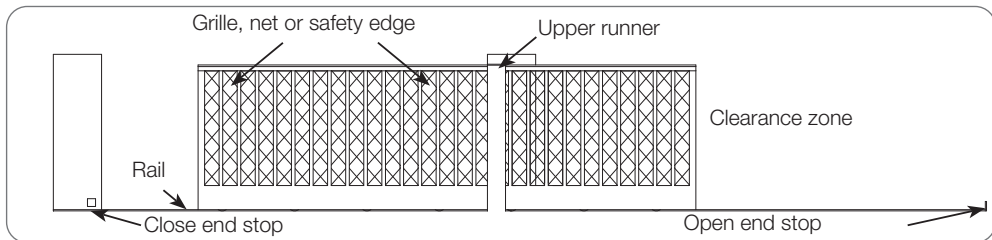
SPECIFICATIONS OF THE GATE TO MOTORISE

This motor drive can automate sliding gates up to **8 m** long and **2.20 m** high and weighing **500 kg**.

SAFETY CHECKS ON THE GATE

- The guide rail must be perfectly straight, horizontal and fastened correctly to the ground.
- The gate rail and wheels must be of compatible shape and dimensions to ensure that the gate's movement is smooth and to remove any risk of the gate becoming derailed.
- The gate must be stopped open and closed by stops fastened solidly to the ground so that its movement is limited and above all to remove any risk of the gate becoming derailed.
- The zone in which the geared motor will be fastened must not be at risk of flooding. If it is, raise the geared motor.
- The motorised gate is strictly for residential use for vehicle passage.
- The gate must not be installed in an explosive or corrosive atmosphere (presence of gas, flammable smoke, vapour or dust).
- The gate must not have locking systems (latch, lock, bolt, etc.).
- Without the motor drive, the gate must be in good mechanical conditions, correctly balanced and open and close without resistance. We recommended lubricating the guide rollers and the supporting wheels.
- Check that the fastening points of the different components are in locations that are sheltered from shock and that the surfaces are solid enough.
- Check that the gate does not have any part protruding from its structure.
- If the gate is openwork type, you must place a protective grille or net so that no component can pass through the gate's bars when it is moving, or place a safety edge on the shear zone.
- The installation must be equipped with at least two upper runners which must be perfectly aligned to ensure the stability of the gate and avoid any risk of the gate tipping over.
- The gate installed without the motor drive must be compliant with the requirements given in EN 13241-1 standard.
- The motor drive cannot be used with a driven part that has a door.

C - INSTALLATION



SAFETY RULES

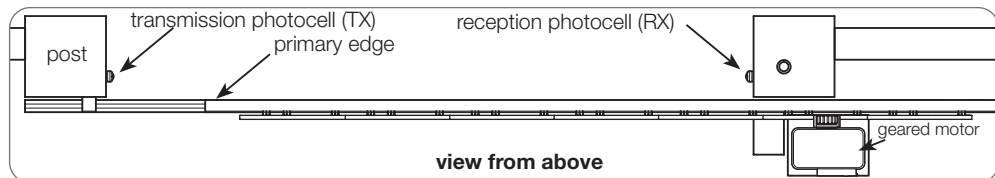
The actual opening of a gate may create dangerous situations for people, goods and vehicles in the vicinity that by nature, cannot always be avoided by design.

The possible hazards depend on the state of the gate, the manner in which it is used and the installation site. After having checked that the gate to be motorised complies with the requirements given in this chapter and before beginning the installation, a hazard analysis of the installation must be conducted in order to eliminate all dangerous situations or to indicate them if they cannot be eliminated.

1 - ELIMINATING HAZARDS

On the primary edge

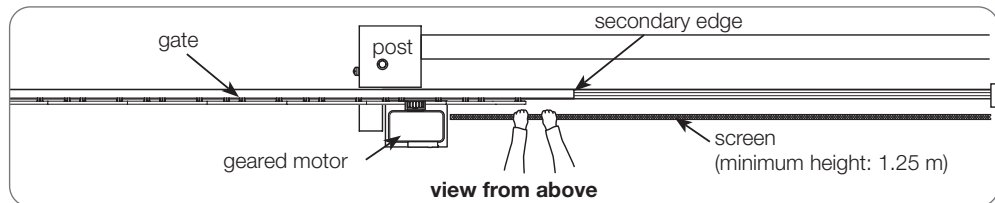
There is a risk of crushing between the gate's post and primary edge when it closes. To reduce this risk, the motor drive has an obstacle detector. If the motor needs to force more than it is authorised (by adjusting a threshold of sensitivity to effort), the motor drive will stop of its own accord and release the pressure against the obstacle (person or vehicle). It is also possible to install the photocells to detect a person or vehicle moving when the gate is closing.



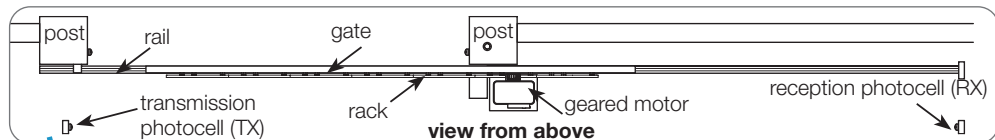
On the secondary edge

Depending on your installation, there may be risks of impact or crushing in the gate's clearance zone. In this case, you must remove these risks, by screening off the clearance zone, or by using photocells.

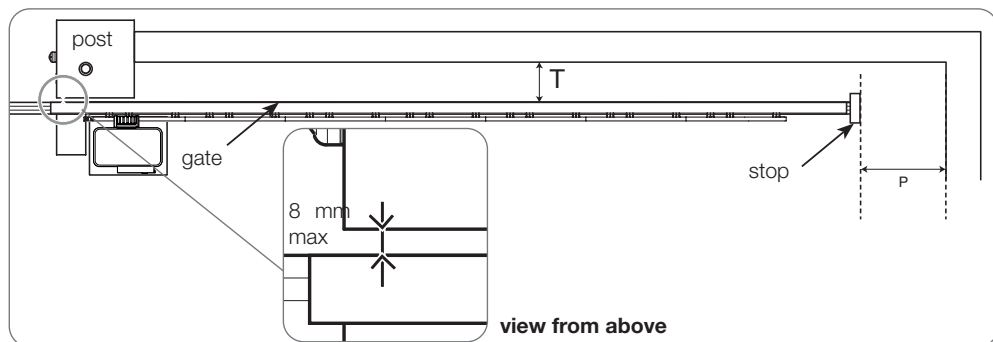
Solution with screen (20 x 20 mm mesh maximum):



Solution with photocells:



To avoid any risk of confinement in the gate clearance zone, the safety distances given in the diagram below must be observed.

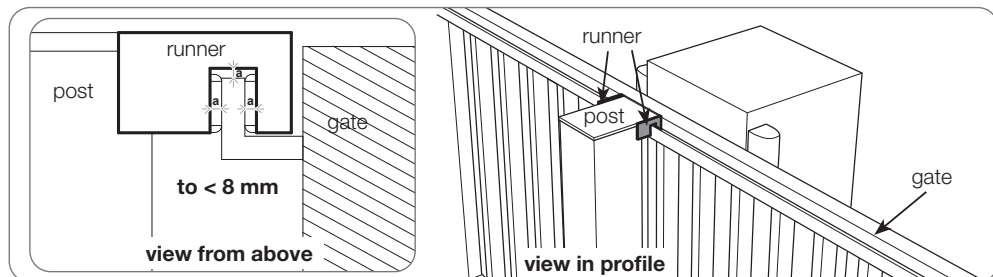


P = 500 mm minimum if T is greater than 100 mm

P = 200 mm minimum if T is less than 100 mm

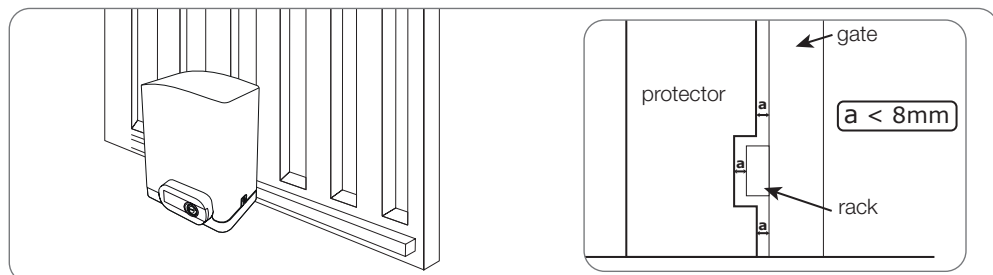
On the upper runners

There is a risk of hands getting caught between the upper runners and the gate. To avoid this risk, the safety distances given in the diagram below must be observed.



Between the cog and the rack

There is a risk of hands getting caught between the cog and the rack. To avoid this risk, a protector (screen, cover, etc.) must be placed on the geared motor. The safety distances given in the diagram below must be observed.



Between the bars of an openwork gate and the post

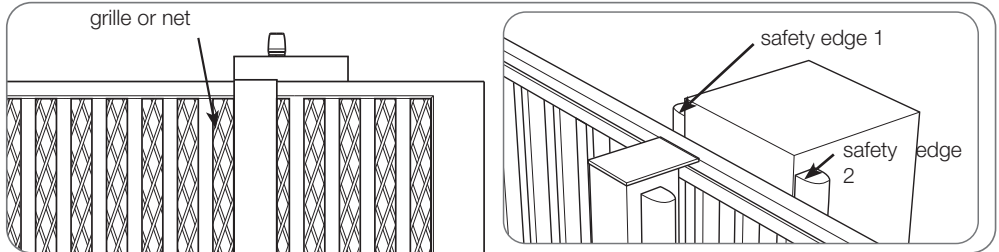
If the gate is openwork type, there is a risk of shearing between the gate bars and the post when the gate is

C - INSTALLATION

opening.

There are two solutions to remove this hazard:

- Install a screen or net on the gate. The mesh must be no larger than 20 x 20 mm.
- Install one or two safety edges on the post.



Safety edge 2 is necessary if the post and the low wall (or fence) are not aligned (as shown in the diagram), thereby creating a crush zone between the edge of the post and a gate bar. The safety edges used must have sufficient deformation between trigger and the position where the gate actually stops (6 cm) (residual travel according to figure 3 of EN 12978).

PREVENTING OTHER HAZARDS

The body of a switch with no lock must be located in direct view of the driven part but away from moving parts. Unless it operates with a key, it must be installed at a minimum height of 1.5 m and must not be accessible to the public.

After installation, ensure that the components of the gate do not hang above a footpath or public access road.

2 - ATTACHING COMPONENTS

The motor drive must be installed by qualified personnel, in compliance with all the indications provided in the “General warnings.”

Before starting installation, ensure that:

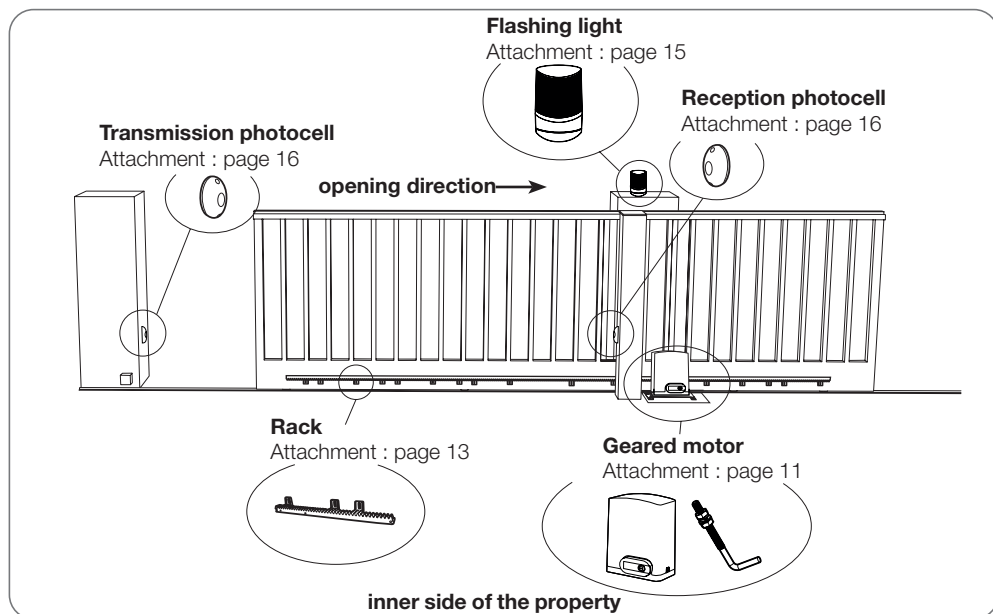
- Hazards can be minimised by following the recommendations under the “Hazard analysis” Chapter.
- The desired use has been correctly defined.
- The gate complies with the specifications given in the Chapter “Specifications of the gate to motorise”.

The different stages of installation must be followed in order and in compliance with the indications given.

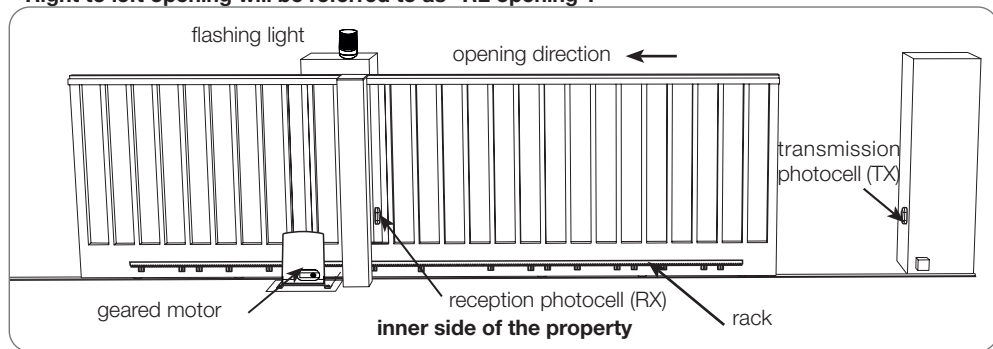
Installation of different components

Note: from now until the end of this guide:

- **Left to right opening will be referred to as “LR opening”.**



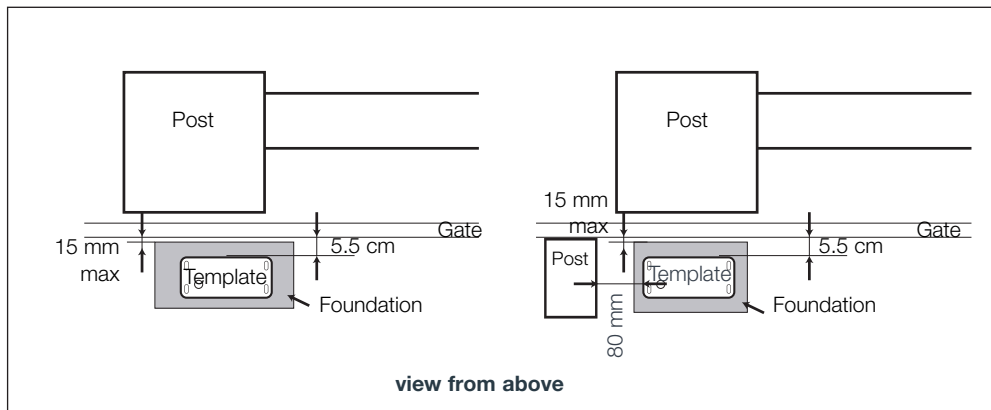
- Right to left opening will be referred to as “RL opening”.



2.1 - ATTACHING THE GEARED MOTOR

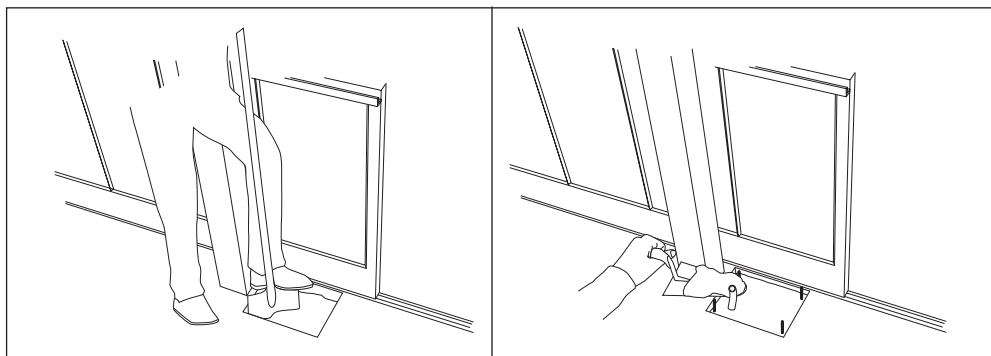
There must be a foundation where the motor will be attached. The foundation type and dimensions depend on the nature of the ground. Plan one or more cable runs depending on the applicable electrical standards. The foundation must be placed 15 mm maximum from the gate. An installation template is provided in the kit to facilitate installation. Position it on the base 5.5 cm from the gate.

C - INSTALLATION

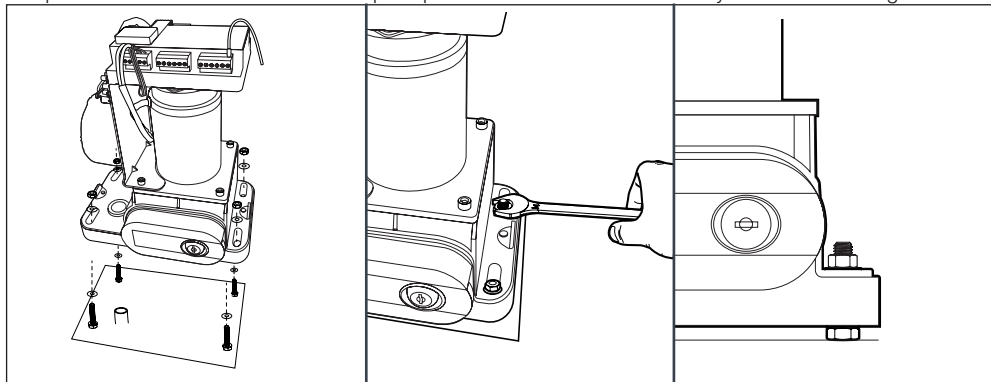


The cable run between must comply with applicable standards (NFC 15-100). Either the cable is 80 cm deep with red warning mesh, or the cable is run through a sheath.

Place the cable run sheath as well as the floor fastening pins as shown in the diagram below before pouring the concrete:



The pins must match the installation template provided. Wait until the seal is dry before assembling the motor.

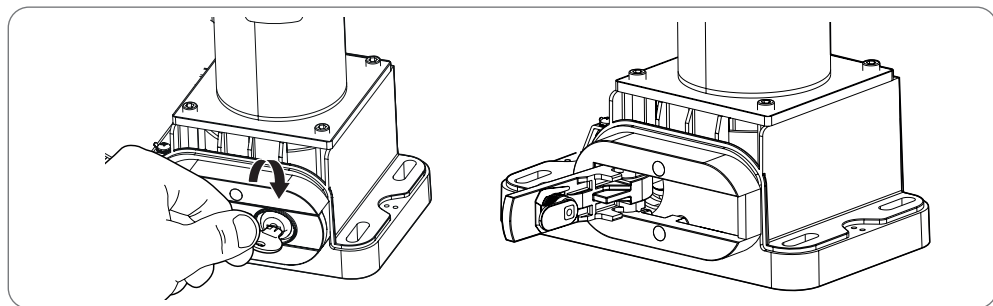


When the motor is horizontal (adjust horizontality using the nuts under the motor), tighten the locknuts to block the clamp nut, then tighten the clamp nuts to keep the motor in position. Leave an air gap under the motor to prevent water from stagnating under the motor.

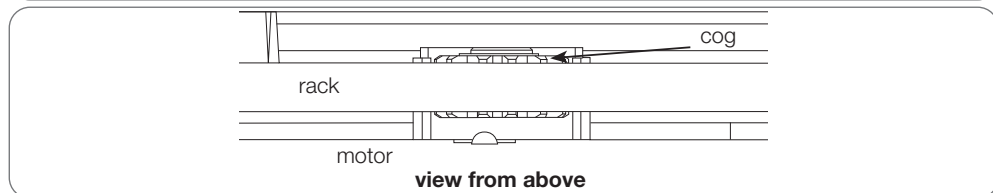
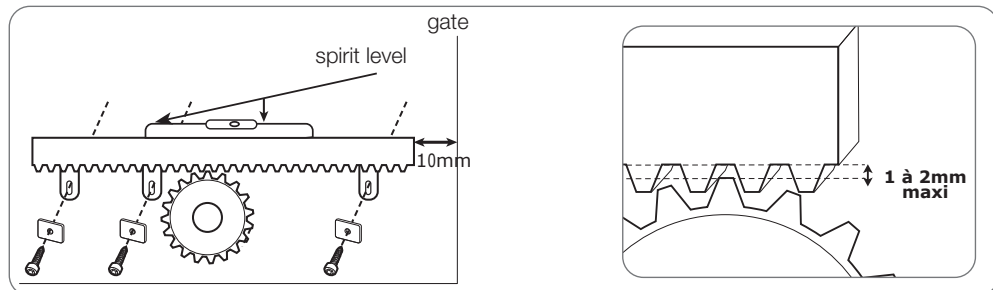
2.2 - ATTACHING THE RACK

In order to manually manoeuvre the gate during rack installation, the geared motor must be disengaged as follows:

- Insert the key provided for this purpose into the slot of the unlocking device.
- Turn clockwise to unlock the lever.
- Then remove the lever as shown in the diagram.

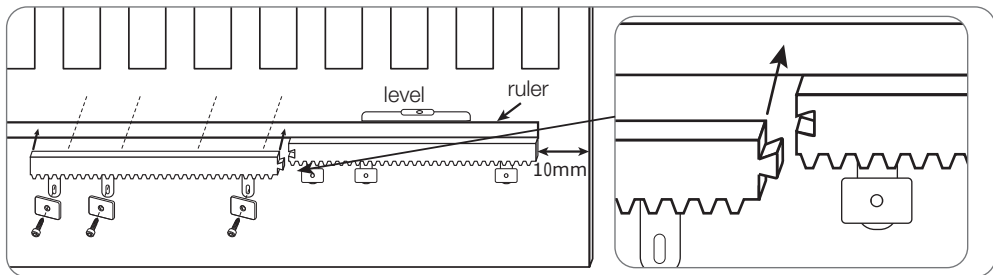


- Open the gate completely.
- Attach the first rack component (Item 2) to a rigid part of the gate. Start at one end; this component must be perfectly level and centred on the geared motor. The end of the component must be 10 mm from the edge of the gate. Leave a distance of 1 to 2 mm maximum between the rack and the geared motor's cog.



C - INSTALLATION

- Using a ruler and spirit level, assemble and attach the remaining rack components to the gate. Once attached, all components must be perfectly aligned and level.

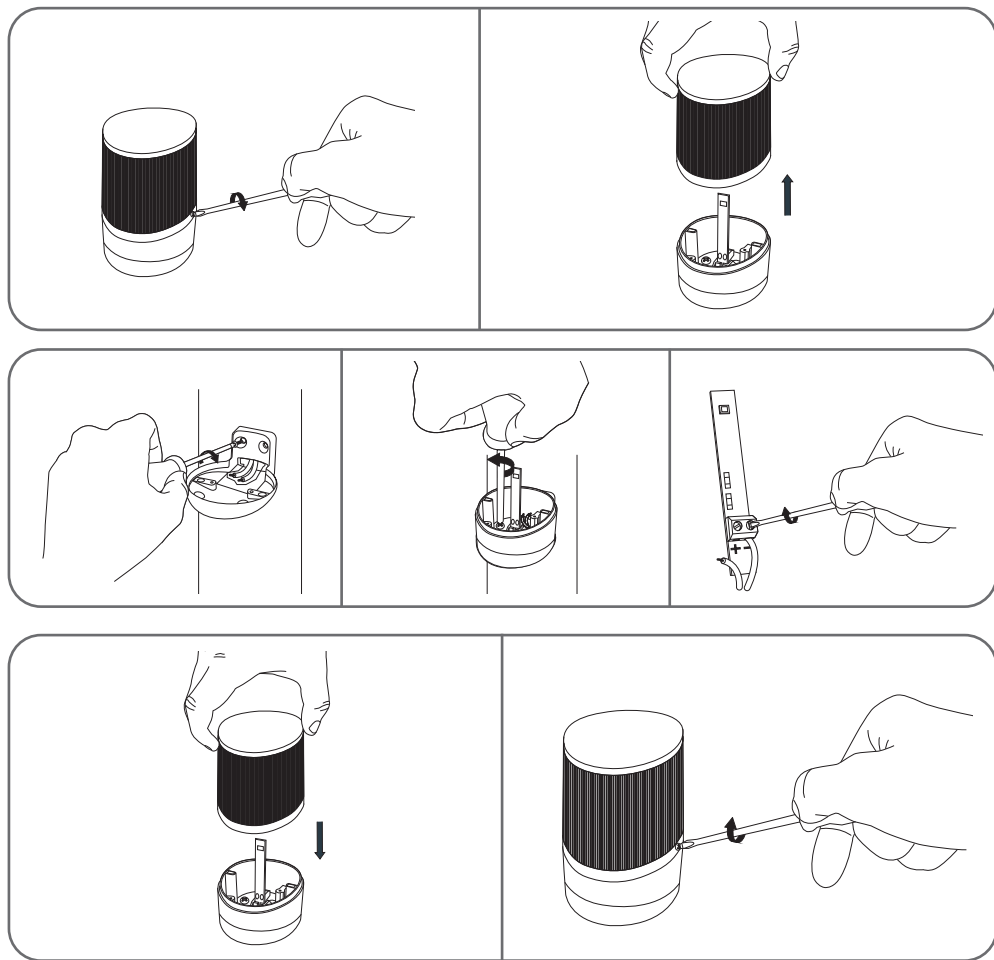


3 - INSTALLING THE FLASHING LIGHT

The flashing light must be fastened at the top of the post on which the switchgear is attached and must be visible both inside and outside. Only use the light provided in the kit (24 V - 2 W).

The flashing light may be fastened on the wall with or without support.

- With a screwdriver, remove the transparent part of the flashing light by unscrewing the 2 screws that hold the upper part of the flashing light.
- Still with a screwdriver, remove the flashing light bracket by unscrewing the 2 screws inside the light.
- Fasten the flashing light bracket to the wall (ignore this step if you are fastening the light directly to the wall).
- Run the wires into the flashing light and connect them to the LED lightbulb (maintaining the “+” and “-” polarity).
- Screw the flashing light to its bracket and screw in the transparent part



4 - ATTACHING THE SET OF PHOTOCELLS

Important notes:

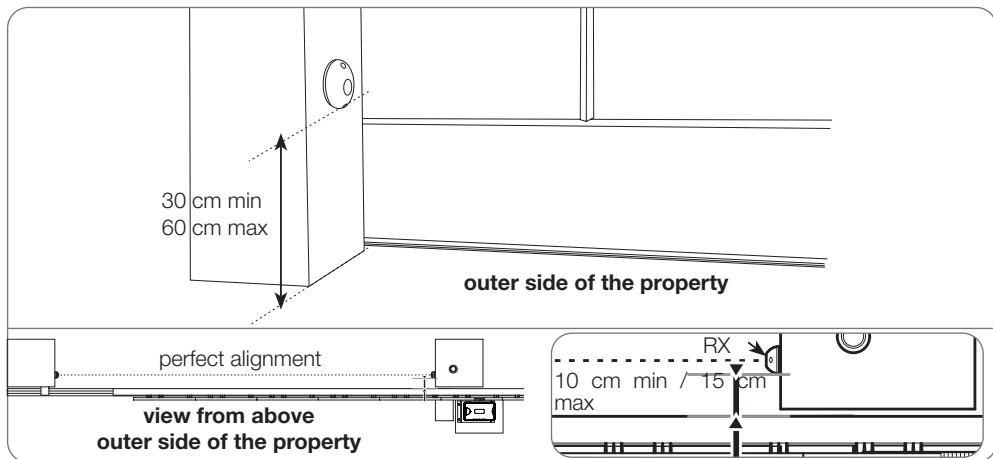
- The photocells must be perfectly aligned and parallel to each other.
- The reception photocells (RX is indicated at the back) must be installed at the same side of the gate as the geared motor.

For the exterior photocells:

The surface of the posts where the photocells will be attached must be perfectly flat in order to properly align the infrared beam of the photocells.

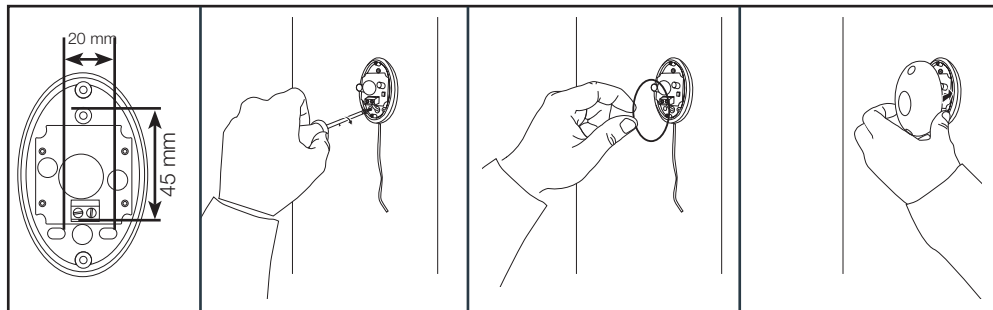
The photocells must be placed at a height of between 30 and 60 cm from the ground.

C - INSTALLATION



Mounting:

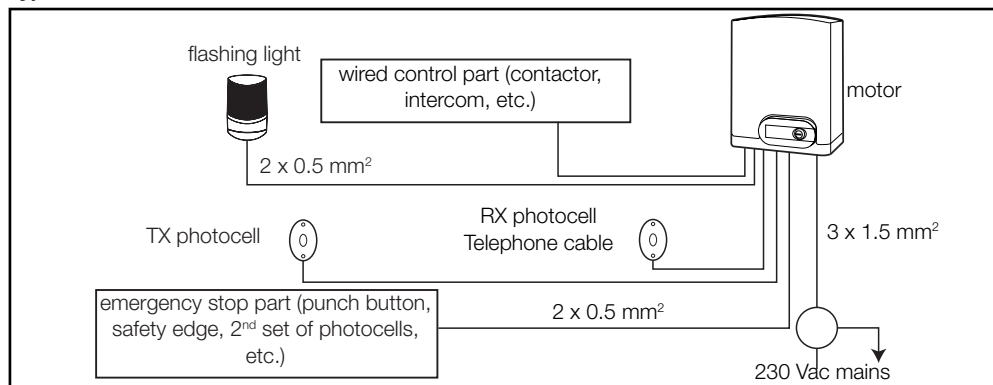
- Mount the photocells on the posts.
- Open the photocells by removing the 2 screw covers and the 2 screws.
- Position the photocell in a vertical position in the location defined.
- Mark the position of the two fastening holes and the position of the hole for the cable to run through.



5 - CONNECTIONS

Safety instructions:

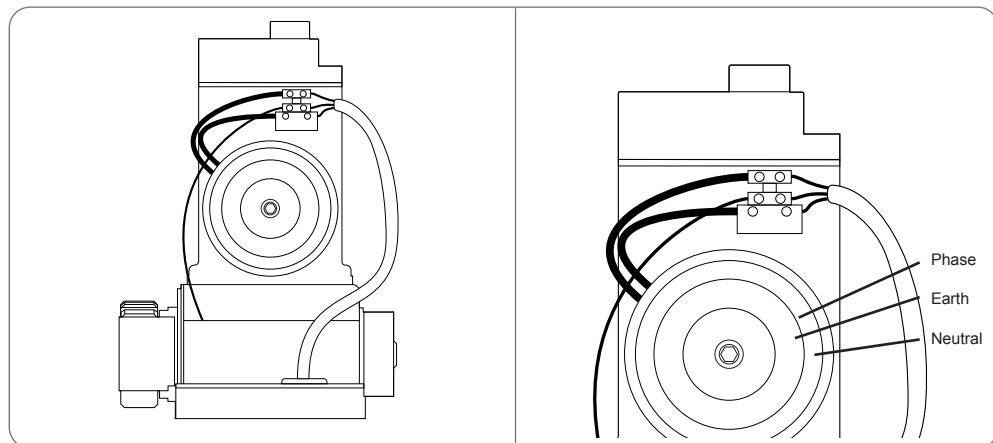
All electrical connections must be performed with the power switched off (safety switch in OFF position). These connections must be made by a qualified electrician.

Typical connection

Mains connection

- Make the connections to the terminal block located at the back of the electronic card using at least a 2 x 1.5 mm² cable.

Important notes:

The electrical line must solely be used to power the gate motor drive and protected by a fuse or circuit breaker (6A min, 16A max) and a differential device (30mA). It must be compliant with the applicable electrical safety standards.

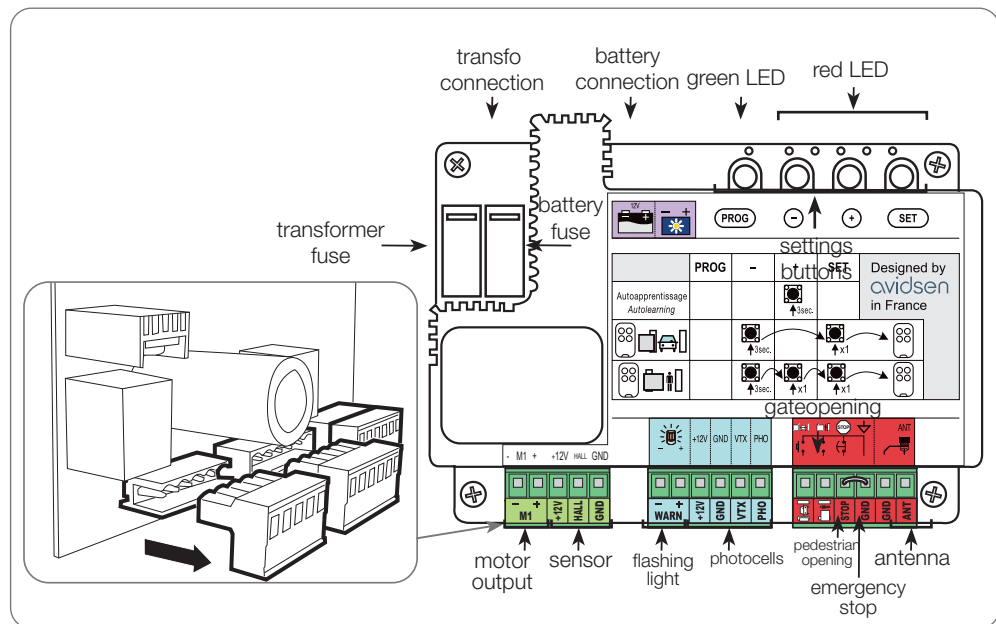


- The 230V power cable must be HO5RN-F type.

C - INSTALLATION

6 - ELECTRONIC CONTROL CARD

For ease of connection, all terminal blocks are removable.



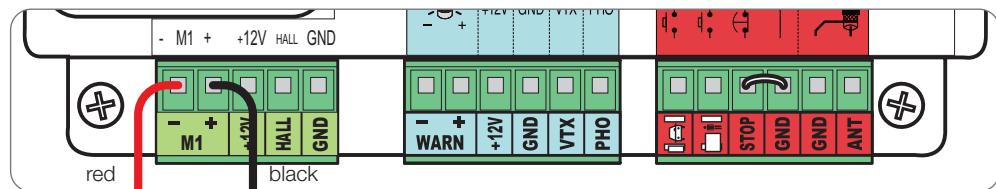
7 - MOTOR POLARITY

The motor is already connected to the electronic card, but its connection direction depends on the direction in which the gate opens ("**LR opening**", "**RL opening**")

If the opening is only from left to right ("**LR opening**") = there is nothing to be done.

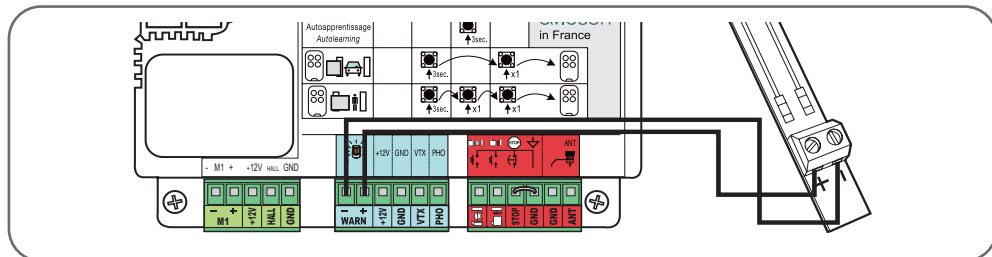
(The motor's red wire connects to the + and the black wire connects to the -).

If the opening is only from right to left ("**RL opening**", reverse the motor connection polarity as shown below:



8 - FLASHING LIGHT

- Connect the flashing light wires to the terminal block as shown in the diagram below and reconnect the terminal block.
- Maintain the polarity.
- Use 2 x 0.5 mm² section cable at least.

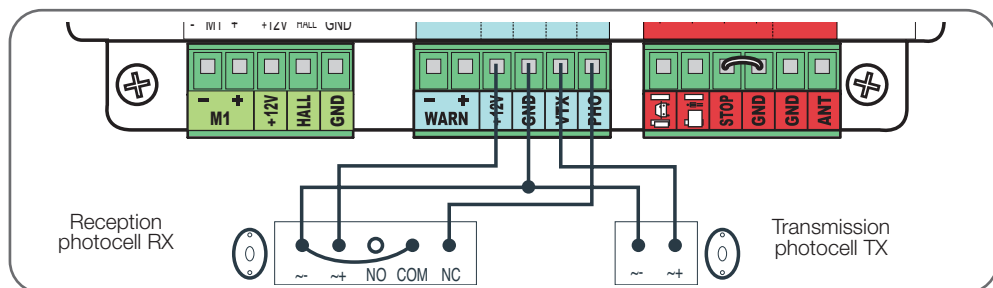


9 - PHOTOCELLS

Warning: Make the photocell connections when the actuator power is switched off.

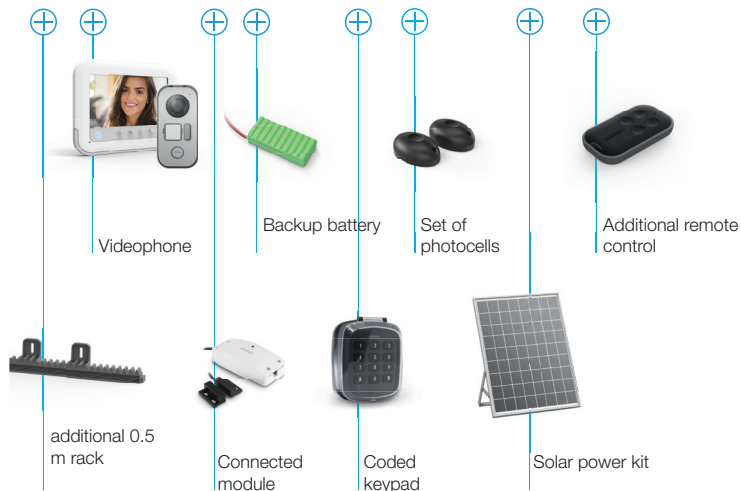
- Disconnect the removable terminal block, connect the photocell wires to the terminal block as shown in the diagram below and then reconnect the terminal block.

By connecting the photocells in this way, the system reacts to the infrared beam being cut only during closing.



C - INSTALLATION

10 - OPTIONAL ACCESSORIES



10.1 - ADDITIONAL PHOTOCELLS

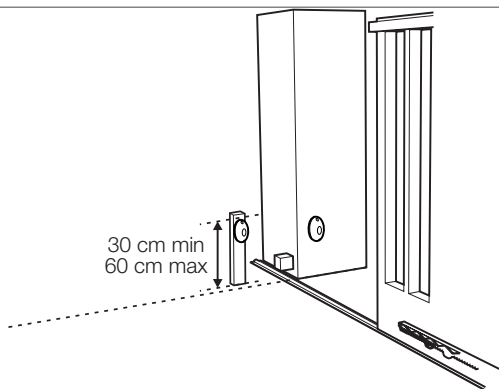
For use when the gate is not visible. You must install a second set of photocells to prevent the gate from opening when an item (car, person, etc.) is behind the gate.

Installation

The photocells must be perfectly aligned and parallel to each other.

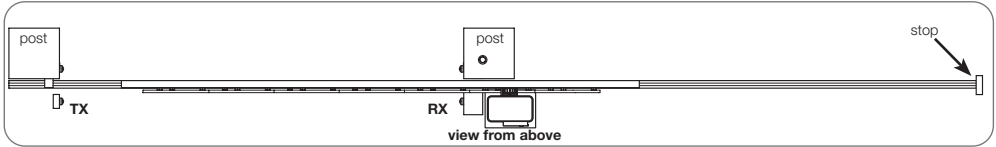
The mounts used to secure the photocells must be correctly secured to the ground and precisely aligned.

The photocells must be placed exactly at the same height from the ground, and the height must be between 30 cm and 60 cm.



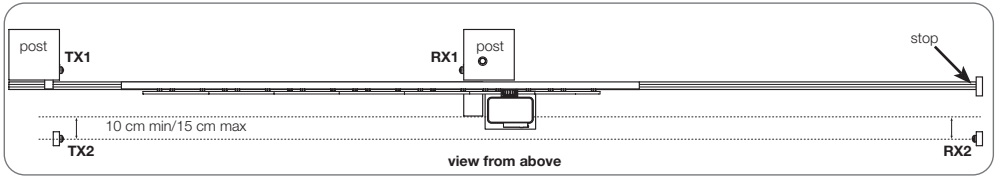
Primary edge protection

By connecting the photocells in this way, the system reacts to a break of one or the other infrared beams only during closing.

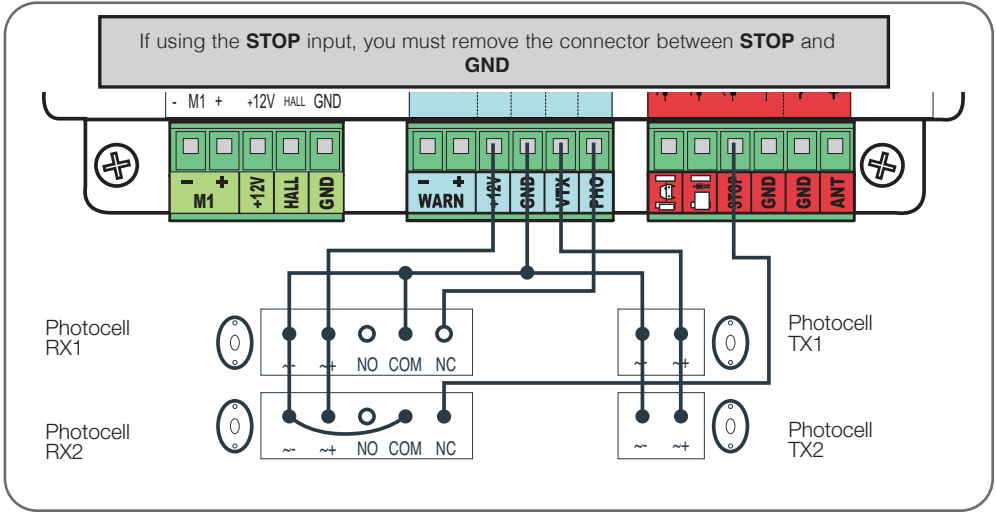


Primary and secondary edge protection

In the previous case, the second set cannot be mounted to protect the secondary edge of the gate during opening. In this type of set up, the second set of photocells is to be connected at the “**emergency stop**” inlet, as shown below:

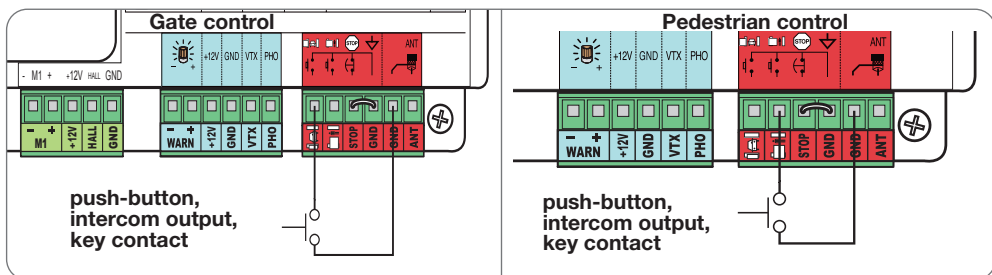


By attaching the photocells in this way, the system reacts to either of the infrared beams being cut during closing, and the secondary edge beam during opening.



C - INSTALLATION

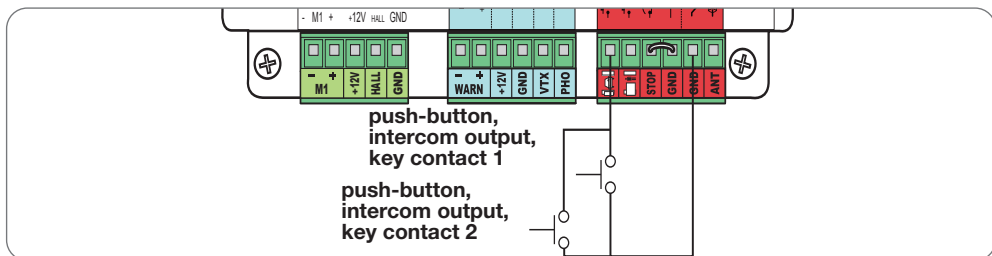
10.2 - ADDITIONAL CONTROL PARTS



Note:

These control parts must be normally **open dry contacts**.

It is possible to use several wired control parts on the same input, but for this they must be connected in parallel:

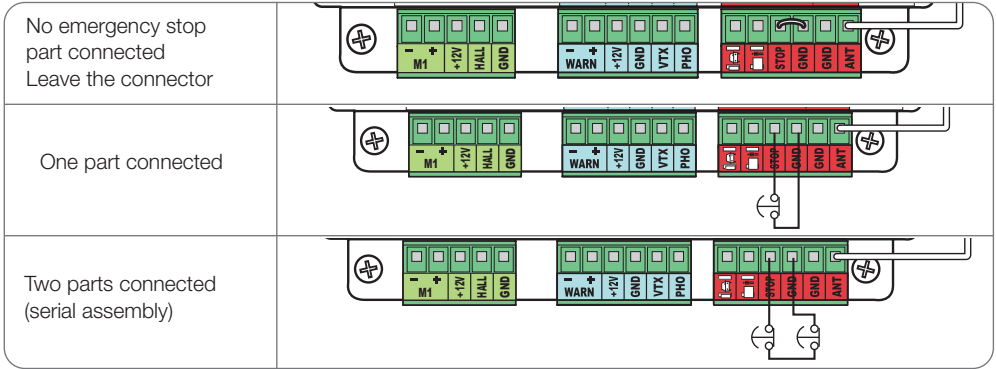


10.3 - EMERGENCY STOP PARTS

The input for emergency stop parts is normally closed dry contact type. **If no emergency stop part is installed, you must leave the connector closing the contact between STOP and GND.**

Examples of emergency stop parts:

- Emergency stop punch button
- Safety edge
- Gate secondary edge protection photocells



10.4 - SOLAR POWER KIT

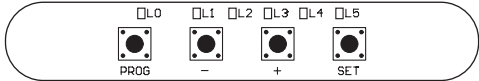
This motor drive may be completely powered by solar energy.
To do this, there is a battery and solar panel kit that can be connected instead of the 230V power supply.
N.B. it is essential to disconnect the 230 V power supply when the solar power supply kit is connected.

Installing the solar panel and the battery: refer to the solar power kit instructions.

D - BEGINNING OPERATION

1 - SETTINGS INTERFACE

Indicators



L0 = Green LED switched off when the card is on standby.

L1 to L5 = Red LEDs to display information concerning settings, events (or errors) or battery status.

Buttons

PROG = Enter or exit settings menus.

“-” / “+” = Select an item, set a value, navigate the event log.

SET = Enter sub-menus, confirm a setting, view the battery voltage or history of events, enter manual control.

Important notes:

- You can do a short press on a button (hold the button down for less than 1 second) or long press (hold the button down for 3 seconds). When the instructions below indicate **“press the PROG button”**, the button must be pressed and released. When the instructions indicate **“press the PROG button for 3s”** or **“PROG 3s”**, the button must be pressed and held.
- In the instructions below, the operations to be performed with the buttons will be described from **MENU 0**.

It's the display menu that appears just after the power has been switched on for example, just after the gate has moved (before standby) or even when the card is on standby (in this case, the green LED L0 is switched off).

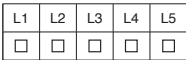
- To make sure you are at **MENU 0** of the display, press PROG 2 or 3 times and only the green LED should be switched on.

When the user performs no action on a button for 15 seconds, the system automatically goes back to MENU 0.

2 - QUICK SETTINGS

2.1 - MENU STRUCTURE

After it is switched on, the display should appear as follows (MENU 0)



All LEDs are turned off except the green LED

- If the green LED is not lit, press **PROG**.
- Lit up green LEDs are an error code (see paragraph “Event history and error code”). (Typically, an error code is displayed if the card did not detect any photocells at the time of power-up. This does not affect the operation of the card, it is only for informational purposes).

From here, pressing PROG for 3 seconds will open the basic settings menu (MENU 1)

- This menu has 5 items represented by the 5 red LEDs. When this menu is entered, the red LED L1 is lit because item 1 is selected by default.
- Pressing and releasing the “-” and “+” buttons moves the lighted LED, thus to select 1 item among the following 5 items:



- L1** = Self-learning
- L2** = Programming/deleting remote control
- L3** = Force setting
- L4** = Operating mode setting (semi-automatic closing, automatic closing, collective mode)
- L5** = Delay time before automatic closing

When 1 item is selected (the corresponding red LED is lit), press SET to:

- Start an action (self-learning).
- “Enter” a setting (Force setting, operating mode, time delay).
- “Enter” a sub-menu (Programming/deleting remote controls).

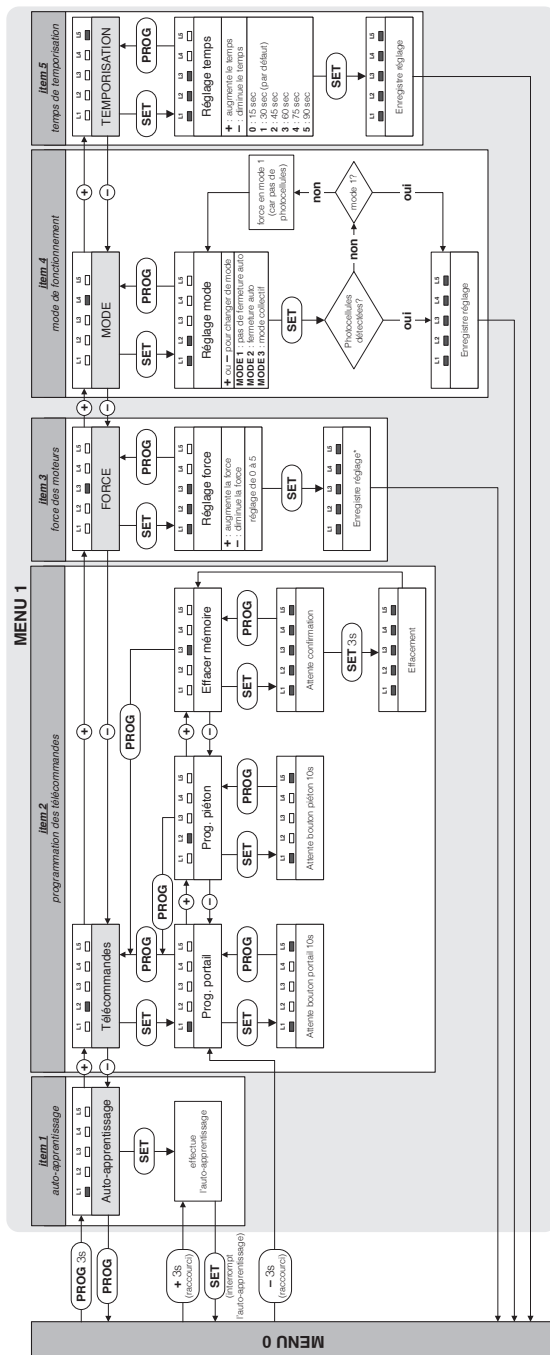
This last item is called a sub-menu, because it contains 3 items (gate command programming, pedestrian command programming, deletion).



- To go back, for example from the remote control sub-menu to **MENU 1**, press **PROG**.
- If you press **PROG** while in **MENU 1**, you exit completely and return to **MENU 0**.

The complete structure of the Level 1 menu is represented by the diagram below. The arrows indicated by one of the 4 buttons represent a press on the button (short or long if it indicates 3s).

2.1.1.1 - BASIC SETTINGS MENU (MENU 1)



D - BEGINNING OPERATION

2.2 - PHOTOCELL ALIGNMENT PROCEDURE

The electronic card of this motorised gate is on standby after 1 minute with no action.

On standby, the photocells no longer have power.

- To prolong the “activation” time, press and release one of the buttons.

When the photocells have power, a red indicator is lit inside each one.

When the photocells are not aligned, a second indicator light turns on in the RX photocells.

When the photocells are aligned, only one red indicator light turns on inside the RX photocell.

- Move your hand in front of it to hide the infrared beam. The second indicator light turns on and off. A relay click can be heard when the status changes.

2.3 - SELF-LEARNING

The role of self-learning:

In order for the card to learn which motors are connected and the path of the door, self-learning must be launched.

In addition, if certain settings are changed (force, obstacle reaction time), self-learning must be repeated.

IMPORTANT:

• Before starting the self-learning procedure, you can check that the gate opens in the correct direction (manual control)

- Press **SET** for 3 seconds and then,
- Press and hold “+” › the gate should open › release the button.
- Press and hold “-” › the gate should close › release the button.

If the gate opens instead of closing, the motor is connected backwards.

- Disconnect the power supply and fix the problem (see “**motor polarity**” in the “**connections**” chapter).

- If the gate opens in the correct direction › press **PROG** to exit manual control.

SAFETY

Make sure that there is no one in the gate movement area during the entire commissioning period and the entire test period.

Starting self-learning

- Press “+” for 3 seconds.

The self-learning procedure may be interrupted at any time by pressing **SET**.

Self-learning procedure

- The flashing light starts (1 flash per second).
- **Phase 0:** detection of closing stop
The gate closes up to the closing stop.
- **Phase 1:** measurement of opening length
The gate opens up to the opening stop.
- **Phase 2:** measurement of closing length
The gate closes up to the closing stop.

Error during self-learning

If self-learning does not work as described above and stops earlier than expected (the motors and the flashing light stop), some of the red LEDs will be on, and others will be off. The configuration of the red LEDs that are on provides an error code allowing the installer to determine the source of the incident that has occurred.

Below is a table indicating the self-learning error codes:

□: LED **off**

■: LED **on**

Make sure not to confuse the self-learning error codes with events that may occur during normal operation and which are indicated in the same way by a combination of red LEDs that are on/off.



To find out more, please check out our tutorials at www.avidsen.com/fr/assistance/tutorial-sav

L1	L2	L3	L4	L5	Meaning
□	□	□	□	□	All the LEDs are off. Self-learning has been successful.
□	□	□	□	■	The motor is not connected to the electronic card.
□	□	□	■	□	The motor has run for 60 seconds on opening without the gate finding a stop; this is not normal.

L1	L2	L3	L4	L5	Meaning
☐	☐	☐	☒	☒	The motor has run for 60 seconds on closing without the gate finding a stop; this is not normal.
☐	☐	☒	☐	☐	The motor has run for less than 3 seconds to open the gate; this is not normal. Can the gate open and close freely?
☐	☐	☒	☐	☒	The motor has run for less than 3 seconds to close the gate; this is not normal. Can the gate open and close freely?
☐	☐	☒	☒	☐	The motor is idling - check that the motor is engaged.
☐	☐	☒	☒	☒	The gate has not covered the same distance in opening and closing (at least 12 mm difference).
☐	☒	☐	☐	☐	Self-learning was interrupted by the user.

2.4 - PROGRAMMING REMOTE CONTROLS

You can control the complete or partial (pedestrian) opening of the gate.

On a remote control, it is possible to decide which button will be used as the gate command and which button will be used as the pedestrian command.

2.4.1 - PROGRAMMING WITH THE CARD

Note:

It is possible to programme a remote control once, then use the “copy” function that allows you to programme additional remote controls without using the electronic card, via a remote control that has already been programmed. (This is useful when additional remote controls are available for programming without having to open the geared motor).

Programming a button for the COMPLETE OPENING command

- Press “-” for 3 seconds and L1 will switch on.
- Press **SET** and L1 and L5 will switch on alternately.
- Within the next 10 seconds, press the remote control button for memorisation.
 - If the red LEDs all turn on for 1 second, this means that memorisation is successful.
 - If the red LEDs all flash 3 times, this means that the system has waited for more than 10 seconds without receiving valid information. Restart the programming.

Programming a button for the PARTIAL OPENING command

- Press “-” for 3 seconds and L1 will switch on.
- Press “+” and L1 will switch off and L2 will switch on.
- Press **SET** and L1 and L5 will switch on alternately.
- Within the next 10 seconds, press the remote control button for memorisation.
 - If the red LEDs all turn on for 1 second, this means that memorisation is successful.
 - If the red LEDs all flash 3 times, this means that the system has waited for more than 10 seconds without receiving valid information. Restart the programming.

2.4.2 - COPY PROGRAMMING

From a remote control that has already been memorised, you can memorise other remote controls (“copy” function). This is done by standing directly next to the gate motor drive.

For each new remote control to be memorised, follow the procedure below

- Stand near the gate motor drive.
- Press simultaneously on both buttons at the bottom of the remote control already in the memory until the flashing light switches on (around 6 seconds).
- Press any button on the new remote control. The flashing light will flash 3 times and then turn off. The new remote control is now memorised (the buttons will have the same function as the original remote control).

2.4.3 - DELETING ALL REMOTE CONTROLS

To deprogram all the remote control buttons

D - BEGINNING OPERATION

learnrt, follow the procedure below

- Press “-” for 3 seconds and L1 will switch on.
- Press “+” twice and L1 will turn off and L3 will turn on.
- Press **SET** and the 5 red LEDs will switch on.
- Press **SET** for 3 seconds and all the LEDs will switch off and switch on to confirm the operation.

2.5 - MOTOR FORCE

This system controls the force of the motor by limiting the maximum power it can absorb. In most cases, it is not necessary to change this setting.

The force is adjustable from 0 to 5 and is set to 3 by default.

However, if the gate is very heavy, or there is too much friction due to the guide rails, the force may be insufficient.

In this case, it is necessary to increase the level of force.

After having completed the self-learning and programmed a button on the remote control, initiate the gate to open completely, to see if it opens fully, without appearing to struggle.

If it is struggling, increase the force.

Note:

To meet the requirements of Standard EN 12453, it may be necessary to change the force of the motors.

To adjust the force, follow the procedure below

- Press “**PROG**” for 3 seconds. L0 will flash once and L1 will switch on.
- Press “+” twice and L3 will switch on instead of L1.
- Press “**SET**”, and the number of LEDs lit will then show the value of the force set.
- Use the “+” and “-” buttons to change the force

and confirm with the SET button. All the LEDs will switch on and off to confirm the operation.

NOTE: if the force setting is changed, self-learning must be repeated.

2.6 - OPERATING MODE

This automatic gate opening mechanism has 3 operating modes.

Semi-automatic mode (mode 1) (default)

- Closed gate -> to open the gate, press and release the gate command.
- Open gate -> to close the gate, press and release the gate command.

While the gate is in motion, you can stop it by pressing a command (complete or partial).

By pressing on the gate command again, the gate swings in the opposite direction.

Automatic closing mode (mode 2)

- Closed gate: one press on the command (complete or partial) opens the gate, which remains open for a certain time (adjustable time, see “Time delay”), then closes automatically.

During the time delay, you can cancel the automatic closure by pressing a command (complete or partial). The gate stays open and you must press the gate command to close the gate.

While the gate is in motion, you can stop it by pressing a command (complete or partial).

By pressing on a command again, the gate starts in the opposite direction.

Collective mode (mode 3)

This mode is used for a collective access gate.

- Closed gate -> one press on the gate command opens the gate, which remains open for a certain time (adjustable time, see “Time delay”), then closes automatically.

Unlike the automatic closing mode:

- If you press a command during opening, it will not be acknowledged.
- If you press a command during the time delay, instead of cancelling the automatic closure, the time delay starts again at 0.
- If you press a command during closure, the gate stops, opens back up and starts the automatic closure time delay.

You can only control the complete opening. The partial command does not work.

To choose the operating mode, set a value from 1 to 3. Follow the procedure below

- Press “**PROG**” for 3 seconds. L0 will flash once and L1 will switch on.
- Press “+” 3 times and L4 will switch on instead of L1.
- Press **SET** and the number of LEDs switched on will then indicate the operating mode that has already been set (mode 1 by default).

D - BEGINNING OPERATION

- PTo change the operating mode, use the “+” and “-” buttons, then confirm with the **SET** button.

At the time of this confirmation, the system will detect whether there are photocells.

Modes 2 and 3 require the presence of photocells to protect the gate’s passage when closing automatically (5.5.1 of NF EN 12453 standard).

If photocells have not been detected when you have set mode 2 or 3, the system reverts to mode 1 by switching only LED L1 on.

- If no photocells are connected, confirm mode 1 by pressing **SET**.
- If photocells are connected, but not detected, check that they are connected correctly and correctly aligned.
- If photocells have been detected, irrespective of the mode set, all the LEDs switch on and off to confirm the operation.

Note:

Irrespective of the mode, the system registers or does not register the fact that the photocells are connected to the electronic card.

The presence of photocells protects the passage when the gate is closing and to ensure that they are in working order, each time the gate starts to close, the system performs the photocell detection procedure. (photocell self-test).

If mode 1 (which is set by default) is the one desired by the user, the user does not need to go to this setting menu to re-enable mode 1, because the photocells were already detected since they were connected before the card was powered up.

2.7 - TIME DELAY

The time delay is the time during which the gate remains open before closing automatically (if automatic closing is activated).

To adjust this value, follow the procedure below

- Press “**PROG**” for 3 seconds. L0 will flash once and L1 will switch on.
- Press “+” 4 times and L5 will switch on instead of L1.
- Press “**SET**”, and the number of LEDs lit will then show the value set.

- Use the “-” and “+” buttons to change this value (see table below).

- **Press SET** to confirm this value. All the LEDs will turn on and off to confirm the operation.

This time is adjustable from 15 seconds to 90 seconds by 15 second intervals and is 30 seconds by default.

LED on	L0	L1	L2	L3	L4	L5
Real time	15 sec	30 sec	45 sec	60 sec	75 sec	90 sec

3 - ADVANCED SETTINGS

Certain adjustments may be necessary in the event of a problem or for specific use of the electronic card.

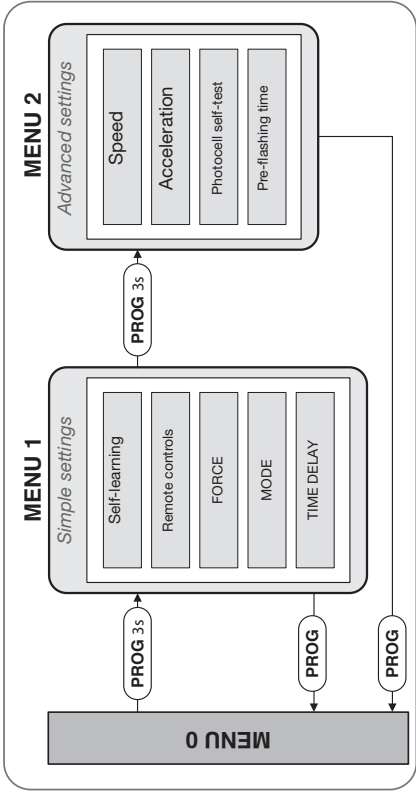
There are two additional menus with basic settings.

3.1 - ACCESS TO ADVANCED SETTINGS (MENU 2)

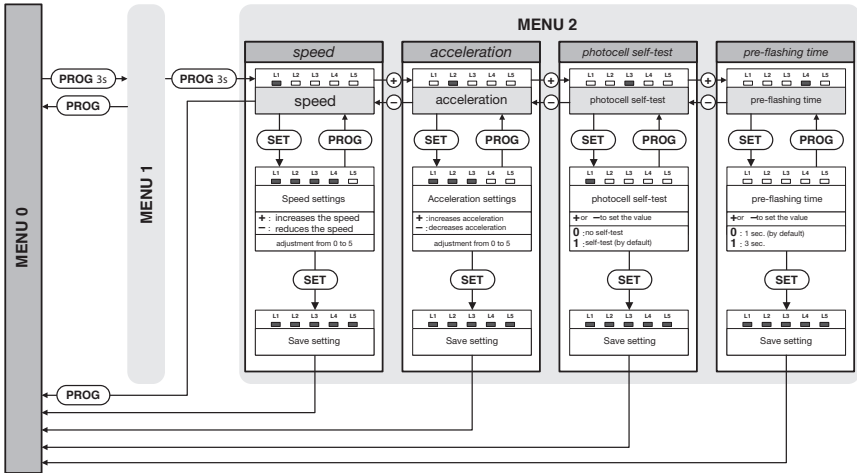
To access the menus, follow the procedure below

- Press **PROG** for 3 seconds. L0 will flash once, L1 will turn on and you will be in **menu (basic settings)**.
- Press **PROG** again for 3 seconds. L0 will flash twice, L1 will turn on and you will be in **menu (advanced settings)**.

D - BEGINNING OPERATION



3.2 - ADVANCED SETTINGS MENU (MENU 2)



3.2.1 - SPEED

You can adjust the speed by a value of 0 to 5.

To adjust this value, follow this procedure

- Press **PROG** for 3 seconds › L0 will flash once and L1 will turn on.
- Press **PROG**, for 3 seconds › L0 will flash twice.
- Press **SET** › the number of LEDs that turn on will indicate the set value.
- Use the “-” and “+” buttons to change this value.
- Press **SET** to confirm this value › All the LEDs will turn on and off to confirm the operation.

Note:

To meet the requirements of EN 12453 standards, the motor speed must be adjusted to the gate’s weight:

3.2.2 - ACCELERATION

The acceleration at the start of the process and when approaching the stop can be adjusted from a level of 0 to 5. The higher this value, the more time the gate will be “strained”. This value corresponds with the distance of the gate’s journey in the acceleration or deceleration phase. The default value is 3, which gives a distance of 31 cm approximately. It may be useful to increase this distance for a softer start.

To adjust this value, follow this procedure

- Press **PROG** for 3 seconds › L0 will flash once

and L1 will turn on.

- Press **PROG**, for 3 seconds › L0 will flash twice.
- Press “+” once › L2 will switch on instead of L1.
- Press **SET** › the number of LEDs that turn on will indicate the set value.
- Use the “-” and “+” buttons to change this value (see table below)
- Press **SET** to confirm this value › All the LEDs will turn on and off to confirm the operation.

LED on	L0	L1	L2	L3	L4	L5
Time	78 cm	63 cm	47 cm	31 cm	23 cm	16 cm

3.2.3 - PHOTOCELL SELF-TEST (OPTIONAL)

The system will perform a self-test on the photocells

(connected to “PHO”) several times:

- To detect photocells when the power is switched on.
- To detect photocells when the operating mode setting is confirmed.
- Before the gate is set into motion if they are active for the time of movement requested.
- The reception and transmission photocells have a separate power supply.

This test is performed in 3 steps:

1. Power up the transmission and reception photocells, and check if the “PHO” input is earthed (which happens if the receiving photocell receives an infrared beam).
2. Cut off the power supply to the transmission photocell, and check whether the “PHO” input is no longer earthed (absence of the infrared beam).
3. Restore power to the transmission photocell, and check whether the “PHO” input is earthed again.

The photocell self-test is activated by default (Value 1). Most photocells on the market have a separate power supply. If you wish to connect photocells with a shared power supply, the self-test will not detect these photocells. You can then deactivate it (Value 0).

To activate or deactivate this function, follow the procedure below

- Press **PROG** for 3 seconds › L0 will flash once and L1 will turn on.
- Press **PROG**, for 3 seconds › L0 will flash twice.

- Press “+” twice › L3 will switch on instead of L1.
- Press **SET**.
- If L1 is switched on, the function is activated. Press “-” to deactivate it, then **SET** to confirm.
- If L1 is switched off, the function is deactivated › press “+” to activate it, then **SET** to confirm.

If 2 sets of photocells are connected in a series, this function does not enable you to detect a potential fault in one of the sets.

It is still necessary to perform a manual test of all the safety parts at least once every 6 months.

3.2.4 - PRE-FLASHING TIME

The flashing light is an essential safety component.

It starts when a command to set the gate in motion is received by the electronic card.

The gate is set in motion around one second after a command is received.

In certain use cases, it is better that the time between receiving a motion command and the start of the manoeuvre is longer. It is possible to increase this time to 3 seconds.

To set the pre-flashing time, follow the procedure below

- Press “**PROG**” for 3 seconds. L0 will flash once and L1 will switch on.
- Press “**PROG**” for 3 seconds. L0 will flash twice.
- Press “+” 3 times and L4 will switch on instead of L1.
- Press **SET**.
- If L1 is switched off, the time is 1 second. Press “+” to increase it to 3 seconds, then **SET** to confirm.
- If L1 is switched on, the time is 3 seconds. Press “-” to reduce it to 1 second, then **SET** to confirm.

1 - WARNINGS

A automatic gate opening mechanism is a product that can cause injury to people and animals and damage to property. Our motorised gate as well as its installation and user guides were designed to remove all hazardous situations.

Avidsen cannot be held liable for any installation or use that does not comply with the instructions and causes damage.

It is essential to read the instructions carefully before using your motorised gate and to keep

E - USE

these instructions for any later use.

General Safety Obligations

- This device is not intended for use by children or persons with reduced physical, sensory or mental abilities or lack of experience or familiarity, unless they are supervised by someone responsible for their safety or have been provided prior instructions concerning the use of the device. Children should be supervised to make sure that they do not play with the device.
- All potential users must be instructed in the use of the motorised gate by reading this user guide.
- No untrained person (child) must set the gate in motion using the fixed (key selector) or portable (remote control) devices.
- Prevent children from playing near or with the motorised gate.
- Do not deliberately stop the moving gate, except, of course, with a control device or for an emergency stop.
- Prevent any natural obstacles (branches, stones, high grass, etc.) from hindering the gate's movement.
- Do not manually operate the gate when the motors are not disassembled.
- Before setting the gate into motion, ensure that there is no person in the area in which the gate moves (children, vehicles, etc.).
- In the event of a malfunction, disassemble the motors to allow passage and contact your installer.
Do not attempt to fix the product yourself.
- Do not alter or add components to the system without discussing it with the installer.

2 - OPENING/CLOSING

The gate can be controlled from a programmed remote control, a programmed wireless code keypad or a wired control device.

2.1 - TYPE OF COMMAND

There are two types of command to manoeuvre the gate:

Full opening command



Partial opening command (opening 1.20 m)



2.2 - OPERATING MODES

The operating mode is set by following the instructions in the "[operating mode](#)" section.

2.2.1 - "SEMI-AUTOMATIC CLOSING" MODE

Description of operation from the closed gate position:

To open the gate

- Activate the complete (or partial) opening command.
- The flashing light will flash (1 flash per second). 1 second later, the gate will start and open fully (1.20 m for partial opening).
- The flashing light will stop flashing and the manoeuvre is complete.

To close the gate

- Activate the complete or partial opening command.
- The flashing light will flash (1 flash per second). 1 second later, the gate will start and close fully.
- The flashing light will stop flashing and the manoeuvre is complete.

At any time, you can stop the gate's movement by activating a command (total or partial).
If you activate the gate control again, the gate will start in the opposite direction.

2.2.2 - "AUTOMATIC CLOSING" MODE

Description of operation from the closed gate position:

- Activate the complete (or partial) opening command.
- The flashing light will flash (1 flash per second). 1 second later, the gate will start and open fully (1.20 m for partial opening).
- When the gate has reached its opening stop, the flashing light will change how it flashes (1 short flash every 1.25s): the time delay before closing will start.
- When the time delay is over, the flashing light will resume its normal pace (1 flash per second). 1 second later, the gate will start and close fully.
- The flashing light will stop flashing and the

manoeuvre is complete.

At any time, you can stop the gate's movement by activating a command (total or partial).

If you activate the gate control again, the gate will start in the opposite direction.

If you activate a command during the time delay, it will be stopped and automatic closing will be cancelled.

2.2.3 - "COLLECTIVE" MODE

Operation is identical to "automatic closure" mode, except:

- You cannot stop the gate from opening, either with the gate or pedestrian opening command. However, you can still stop the movement by activating an emergency stop part connected to the **"STOP"** input (see "emergency stop" explanations).
- If you activate the gate command during the time delay, it is reloaded with the initial time to extend the time before automatic closure.
- If you activate the gate command during closure, the gate will stop and open again and the time delay before automatic closure will start.
- The pedestrian control is inoperative.

2.3 - EMERGENCY STOP

- Should an emergency stop part (e.g. punch button) be connected to the **"STOP"** input, you can stop the gate's movement by activating this emergency stop part.
- In this case, the flashing light will emit double flashes to signal the anomaly.
- If, after 30 seconds, the emergency stop part is still activated, the flashing light will stop and the electronic card will go on standby.
- To start the gate again, you must deactivate the emergency stop part (unlock the push button), then activate the command that had set the gate in motion to restart the gate's manoeuvre (no reverse in direction in this case).

2.4 - PHOTOCELLS (IF INSTALLED)

- During closure, if an object or a person obstructs the infrared beam between the two photocells, the gate will stop and start opening again. If automatic closing is activated, the time delay will start.
- If, at the end of the time delay, the photocell beam

is cut, the gate will wait for the beam to be cleared before closing again. If, after 3 minutes, the beam has still not been cleared, automatic closing will be cancelled and the system will go on standby.

- Photocells can also be active at the beginning of the opening process (this is useful if a second set of photocells is installed – see "Advanced settings").
 - If this is the case and the beam is obstructed when the gate should start to open, the flashing light will emit double flashes for 30 seconds unless a command is activated.
- For the gate to be able to open, the beam must be unobstructed and a command must be activated.

2.5 - OBSTACLE DETECTION

During their movement, the panels may encounter an obstacle.

- For safety purposes, if the motors are under too much strain (the force is adjustable; see "Motor Force" in the settings), the gate stops and releases the pressure and the flashing light emits double flashes for 30 seconds unless a command is activated.
- On activating a command (the same one that was used to start the movement), the gate starts to move in the opposite direction.
- If an obstacle is detected during closure and the operating mode is "automatic closure" or "collective", the gate will open again and the time delay will start over.

2.6 - MANUAL MOVEMENT

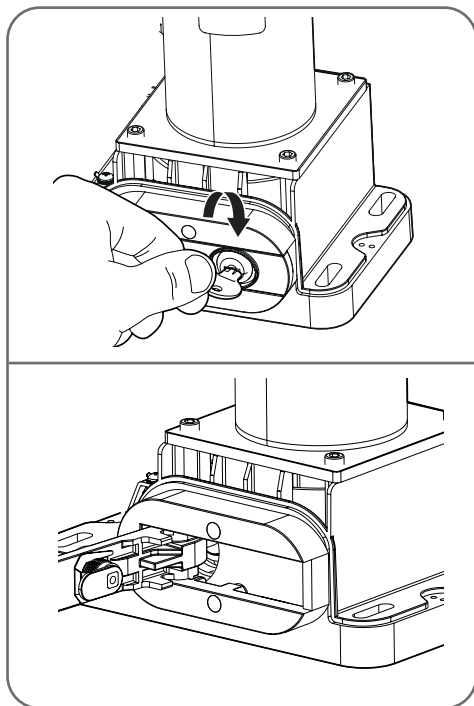
To be able to manoeuvre the gate manually, you must disengage the geared motor.

Warning:

When the geared motor is disengaged, the gate may be set in motion by the wind or an external push. It is therefore important to be careful or block the gate to avoid any risk of injury.

2.7 - MOTOR DISENGAGEMENT

- Turn off the motor before disengaging it.
- Insert the key into the lock.
- Turn the key clockwise to release the override lever.
- Lower the override lever completely by first pressing on its right side.



2.8 - MOTOR ENGAGEMENT

- Return the override lever to the initial position.
- Turn the key anticlockwise.
- After the power is restored, on the first command, the gate will perform a full opening movement at slow speed in order to align itself with the opening stop.

1 - MAINTENANCE WORK

Maintenance work must be carried out by the installer or a qualified individual to guarantee the installation's operation and safety.

The number of maintenance and upkeep operations must be proportional to the frequency the motorised gate is used.

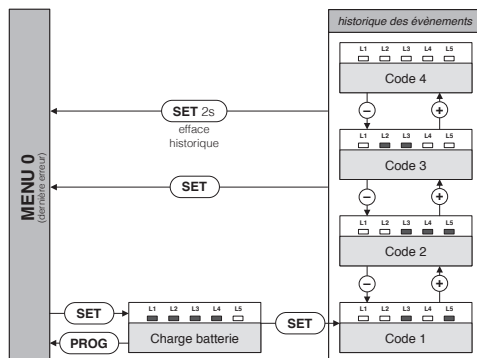
For use of about 10 cycles per day, it is necessary to provide:

- Maintenance of the mechanical parts every 12 months: tightening screws, lubrication, checking the rail, guides and gate balance, etc.
- Maintenance of the electronic parts every 6

months: motor operation, photocells, control devices, etc.

2 - OPERATING INDICATORS

This system has two operating indicators: the battery charge level (optional) and the event log.



3 - BATTERY VOLTAGE (FOR OPTIONAL SOLAR POWER KIT)

You can display the battery charge level.

- From **MENU 0**, press **"SET"**, and the battery charge level is then shown by the number of red LEDs lit.
- If the battery voltage level is too low (no LED on), the gate will not close in order to avoid closing off access.

4 - ANOMALY GUIDE



To find out more, please check out our tutorials on our website
www.avidsen.com/fr/assistance/tutoriel-sav

TYPE OF FAULT	PROBABLE CAUSE	WHAT YOU SHOULD DO
When activating the opening command, the gate does not move and the motor does not start	No 230-volt power supply	Switch the power back on
	Emergency stop pressed and/or the optional safety edge has failed	Connect the STOP terminals to the earth Check the safety edge
	Fuse(s) blown	Replace the fuse(s) with (a) fuse(s) of identical value
When activating the opening command, the motor starts but the gate does not move	There is not enough closing and opening force	Adjust the force setting according to the instructions (page 31)
	Check that the rollers are lubricated or are not impeded by an obstacle on the ground	Lubricate the rollers and let the gate move freely
	Check that the engine is engaged	Lock with the key lever
The gate closes instead of opening	The motor is connected the wrong way round	Check the wiring according to the instructions provided (see " motor polarity ")
The gate opens but does not close	Photocells not aligned	Check the alignment and wiring
	Obstacle in front of the photocells or other	Verify the clearance
When activating the closing command, the gate partially closes	The motor is connected the wrong way round	Check the wiring according to the instructions provided (see " motor polarity ")

In operation, there may be events that are malfunctions of the motor drive, or consequences of the user's action.

Each event has a different code.

This code is displayed by a combination of red LEDs that are on or off on the **MENU 0** display.

When you press **"SET"** or **"PROG"**, this code is deleted. However, the last 4 codes generated are memorised and can be viewed in a log.

To access them, press **SET** twice, then use the **"+"** and **"-"** buttons to scroll through the memorised codes.

To diagnose any problems, here is the list of codes and their meaning:

□: LED **off**

■: LED **on**

There are two types of code: Error (**E**) or Information (**I**). N.B. an error requires action from the installer to correct the motor drive problem.

F - MAINTENANCE AND UPKEEP

L1	L2	L3	L4	L5	Meaning	Type
☐	☐	☐	☒	☒	The emergency stop input has been activated	I
☐	☐	☒	☐	☐	A card power supply fault has been detected. It may be a short-circuit on the +12V output. check the connections.	E
☐	☐	☒	☐	☒	An obstacle has been detected in the gate when opening.	I
☐	☐	☒	☒	☒	The photocell beam has been cut	I
☐	☒	☐	☐	☐	Photocell self-test failure. The PHO input has remained earthed check the connections.	E
☐	☒	☐	☐	☒	Photocell self-test failure. The PHO is never earthed (this is normal if no photocells are connected). Check the connections.	E
☐	☒	☐	☒	☐	Photocell self-test failure. The TX photocell power supply has caused a short-circuit. Check the connections.	E
☐	☒	☐	☒	☒	The main power supply has been cut during a movement phase OR the battery is too weak for proper operation.	E
☐	☒	☒	☐	☐	The battery voltage is really too low for the card to work	E
☐	☒	☒	☐	☒	Self-learning is not valid because it has never been done. Run self-learning	E
☐	☒	☒	☒	☐	Automatic closing has been cancelled. Generated if the gate re-opens 3 times (10 in collective mode) after a photocell beam has been obstructed during automatic closure OR if the photocell beam was obstructed for more than 3 minutes. check photocell operation.	E
☐	☒	☒	☒	☒	The complete opening command input () is permanently earthed. Check the connections.	E
☒	☐	☐	☐	☐	The partial opening command input () is permanently earthed. Check the connections.	E
☒	☐	☐	☐	☒	An obstacle has been detected in the gate when closing	I
☒	☐	☐	☒	☒	The maximum operating time has been reached (the motor is idle and the stop has not been reached?). Check the installation and make sure the motor is engaged.	E
☒	☐	☒	☐	☐	Battery voltage too low when attempting to close the gate	E
☒	☐	☒	☒	☐	Three obstacles detected in a row during opening	I
☒	☐	☒	☒	☒	Three obstacles detected in a row during closing	I
☒	☒	☐	☐	☐	No battery detected check the connections.	E

4.1 - MANUAL CONTROL

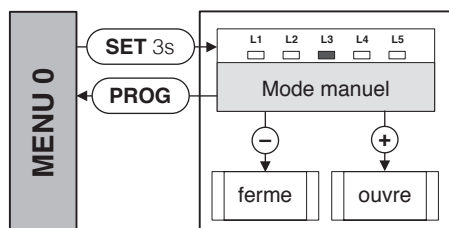
You can manoeuvre the gate with no programming, for example during installation, to check the opening direction is correct.

- To enter manual mode, press **"SET"** for 3 seconds and LED L3 will flash.

- Press and hold** the appropriate button ("**-**" to close, "**+**" to open) for the desired movement.

- To finish, press the **"PROG"** button.

- Otherwise, after a minute with no action on a button, the system will automatically exit manual control.



4.2 - TOTAL RESET

You can reset to factory settings.

- To do so, press **SET**, "**-**" and "**+**" at the same time for 8 seconds until an LED display appears.

All the settings now have their default value and you must redo the self-learning.

However, this procedure does not delete the remote controls from the memory.

5 - REPLACING THE REMOTE CONTROL BATTERY

When the remote control range is very reduced and the red indicator is weak, this means that the remote control battery will soon run out.

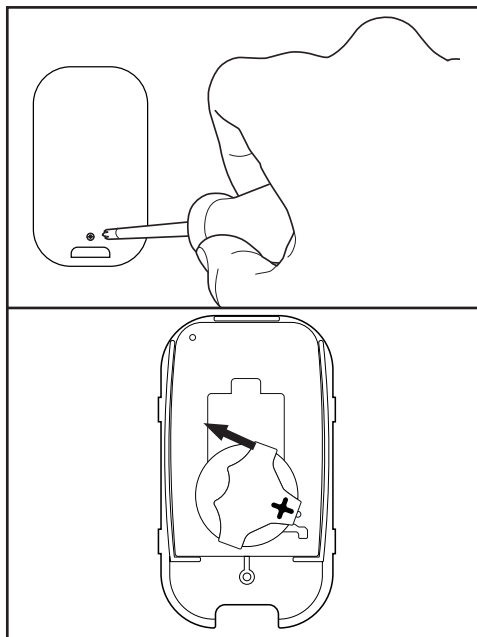
The remote control takes CR2032 batteries. Replace the battery with a battery of the same type as originally used.

- With a Philips screwdriver, remove the 3 screws behind the remote control.

- Open the remote control and remove the batteries.

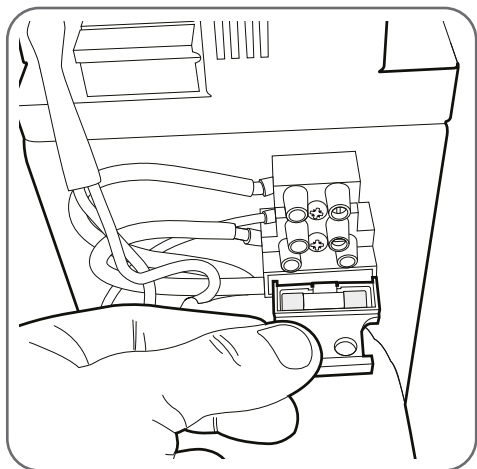
- Insert the new batteries, respecting the polarity.

- Close the remote control and screw in the fastening screws.



6 - REPLACING THE POWER FUSE

- Switch the motor drive off.
- Use a 250V 5A time-delay fuse.



G - TECHNICAL AND LEGAL INFORMATION

1 - TECHNICAL CHARACTERISTICS

The technical characteristics are provided as an indication only and for a temperature of +20°C. The company Avidsen reserves the right to modify these characteristics at any time, while under all circumstances guaranteeing these products' smooth operation and the type of use intended, in an aim to improve these products.

Geared motor	
Type	Motor drive + in-built electronic control
Contents	24 V motor, mechanical reducer, control electronics
Power supply	230 VAC or 24 VDC
Max. power	250 W
Max. force	14N.m
Assigned operating duration	10 minutes
Maximum number of cycles/hour	10
Flashing light output	24 V for LED light
Photocell output	3 pairs max in 24 V
Photocell input	Input for dry contact that is normally closed
Gate command input	Input for dry contact that is normally open
Partial command input (pedestrian)	Input for dry contact that is normally open
Emergency stop input	Input for dry contact that is normally closed
Operating temperature	-20°C / +60°C
Protection rating	IP44
Number of remote controls that can be memorised	20 with 1 gate command button and 1 pedestrian command button

Flashing light	
Type	4W LED lighting Flashing controlled by the electronic card
Power supply	Max supply voltage: 24 VDC
Operating temperature	-20°C / +60°C
Protection rating	IP44

G - TECHNICAL AND LEGAL INFORMATION

Remote control	
Type	Type: AM On/Off Keying (OOK) modulation. 16-bit Rolling code encoder (i.e. 65,536 possible combinations)
Frequency	433.92 MHz
Power supply	3V, CR2032 battery
Keys	4 keys
Radiated power	< 10 mW
Battery life	2 years at a rate of 10 x 2s uses per day
Operating temperature	-20°C / +60°C

Photocells	
Type	Modular infrared beam presence detector. D type safety system according to EN 12453
Contents	1 TX transmitter and 1 RX receiver
Power supply	12 VDC, 12 VAC, 24 VDC, 24 VAC
Maximum assigned power	0.7 W for the pair
Output	- 1 output with normally closed dry contact (COM/NC) - 1 output with normally open dry contact (COM/NO)
Transmission angle/Reception angle	10° approx. / 10° approx.
Range	15 m maximum (range may be reduced due to weather disruption)
Operating temperature	-20°C / +60°C
Protection rating	IP44

G - TECHNICAL AND LEGAL INFORMATION

2 - WARRANTY

- This product is guaranteed for parts and labour for 3 years from the date of purchase. Proof of purchase must be retained for the duration of the warranty period.
- The warranty does not cover damage caused by negligence, knocks or accidents.
- The parts of this product must not be opened or repaired by any persons not employed by Avidsen.
- The warranty will be void if the device is tampered with.

3 - HELP AND ADVICE

- If, in spite of the care we have taken in designing our products and preparing these instructions, you encounter difficulties when installing your product or you have any questions, we recommend you contact one of our specialists who will be glad to help.
- If you have any operating problems during or shortly after the installation, please ensure you are next to your installation when contacting us, so that one of our technicians can diagnose the source of the problem, as this is often caused by an incorrect setting or an installation that is not to specification.

Please contact our after-sales service team technicians:

0 892 701 369

Service 0,35 € / min
+ prix appel

Monday to Friday, 9am to 12pm, and 2pm to 6pm.

4 - PRODUCT RETURNS - AFTER SALES SERVICE

Avidsen undertakes to keep a stock of spare parts for this product throughout the contractual warranty

period.

5 - EU DECLARATION OF CONFORMITY

DECLARATION OF EC CONFORMITY

(RED 2014/53/EU DIRECTIVE, RoHS 2011/65/EU, LOW VOLTAGE 2014/35/EU)

COMPANY (manufacturer, representative, or person responsible for equipment commercialisation)

Name: AVIDSEN

Address: 19 avenue Marcel Dassault - 37200 Tours - France

Telephone: +33 (0)2 47 34 30 60

Fax: +33 (0)2 47 34 30 61

EQUIPMENT IDENTIFICATION

Brand: AVIDSEN

Trade description: Motorisation kit for sliding gates

Trade reference: 114464

Kit consists of: An integrated electronic geared motor + 1 flashing light + 2 remote controls + 1 set of photocells

NAME AND POSITION OF SIGNATORY: Alexandre Chaverot, CEO

Declares with full responsibility that:

The product complies with the RED 2014/53/EU directive. Its compliance has been assessed pursuant to the applicable standards in force:

- EN 62233:2008
- EN 60335-2-103:2015
- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019
- EN 62479:2010
- EN 301489-1 V223
- EN 301489-3 V211
- EN 300220-1 V311
- EN 300220-2 V321

The remote control included with the abovementioned product complies with the RED 2014/53/EU directive. Its conformity has been assessed pursuant to the applicable standards in force:

- EN 62368-1:2014 + A11:2017
- ETSI EN 301 489-1 V2.2.3:2019
- ETSI EN 301 489-3 V2.1.1:2019
- ETSI EN 300 220-1 V3.1.1:2017
- ETSI EN 300 220-2 V3.2.1:2018
- EN 62479:2010

The abovementioned product complies with the RoHS 2011/65/EU directive.

In Tours, 03/01/2025

Alexandre Chaverot, CEO

AVIDSEN

19 avenue Marcel Dassault

37200 Tours

France






avidsen

Avidsen
19 avenue Marcel Dassault
37200 Tours - France