



## Garage door operator

FA01321-EN



## V6000P - V1000P

INSTALLATION MANUAL

## GENERAL PRECAUTIONS FOR INSTALLERS

### **CAUTION! Important safety instructions.**

***Follow all of these instructions. Improper installation can cause serious bodily harm.***

***Before continuing, also read the general precautions for users.***

#### **Introduction**

• This product should only be used for the purpose for which it was explicitly designed. Any other use is dangerous. Came S.p.A. is not liable for any damage caused by improper, wrongful and unreasonable use • keep these warnings together with the installation and use manuals of the operator system components.

#### **Before installing**

*(checking what's there: if something is missing, do not continue until you have complied with all safety provisions)*

• Check that the automated parts are in proper mechanical order, that the operator is level and aligned, and that it opens and closes properly. Check that there are adequate mechanical stops • if the operator has to be installed at a height less than 2.5 m from the floor or from another access level, check for the need of protections and/or warnings • before starting any operation it is mandatory to read all instructions carefully; an incorrect installation can be a source of danger and cause damage to people or property. • if there are pedestrian openings in the leaves to be operated, there must be a system for blocking their opening during the movement • make sure that the opening of the door automated does not cause situations of entrapment with the surrounding fixed parts • do not install the operator inverted or on elements that could bend. If necessary, add suitable reinforcements to the anchoring points • do not install door or gate leaves on tilted surfaces • check that lawn watering devices, if any, do not spray the operator with water from the bottom up • check that the temperature of the installation location is within the value indicated in the manual • follow all instructions as incorrect installation can cause serious bodily harm.

#### **Installation**

• Suitably section off and demarcate the entire installation site to prevent unauthorized persons from entering the area, especially minors and children • be careful when handling operators weighing more than 20 kg. If necessary, use tools for safe handling • all opening commands (buttons, key switches, magnetic readers, etc.) must be installed at least 1.85 m from the perimeter of the gate's working area, or where they cannot be reached from outside the gate. Furthermore the direct controls (push-button, touch-sensitive, etc.) must be installed at a minimum height of 1.5 m and must not be accessible to the public • all the controls in hold-to-run mode must be placed in locations from which the doors in movement and the relative transit or manoeuvring areas are visible • apply, if missing, a permanent label indicating the position of the release device • before delivery to the user, check the system compliance with the EN 12453 standard (impact tests), make sure that the operator has been adjusted properly and that the safety, protection and manual release devices operate correctly • apply where necessary and in a clearly visible position the warning symbols (e.g. Gate plate) • after installation, make sure that the movement motor prevents or blocks the opening movement when the door is loaded with a mass of 20 kg, fixed to the center of the lower edge of the door • after the installation make sure that the door parts do not hinder public roads or sidewalks.

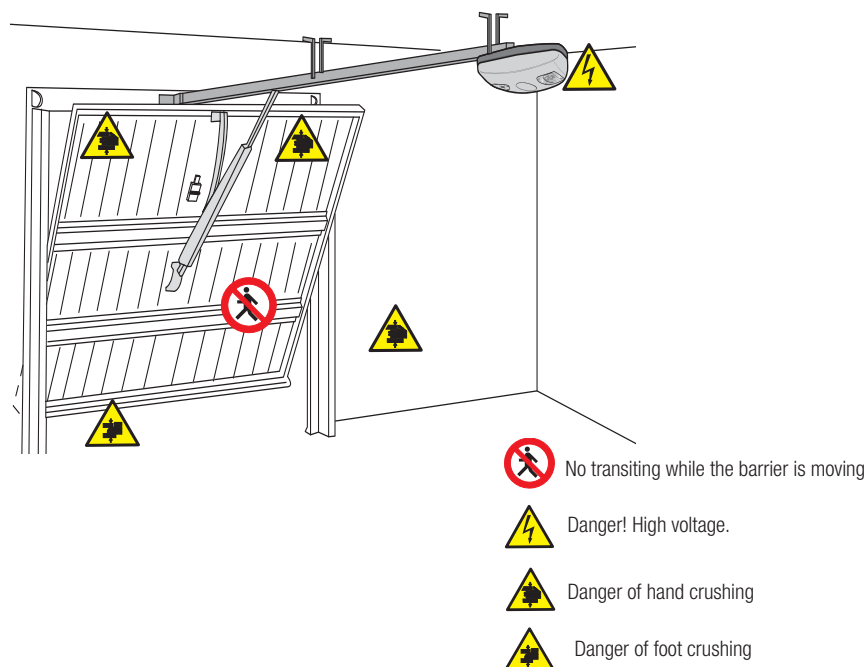
#### **Special instructions and recommendations for users**

• Keep garage-door operation areas clean and free of any obstructions. Check that there is no vegetation in the range of action of the photocells and that there are no obstacles on the operator working range • do not allow children to play with the fixed control devices, or to stay in the operator maneuvering area. Keep remote control devices (transmitters) or any other control device out of their reach, to prevent the automation from being activated unintentionally • the appliance is not intended for use by persons (including children) whose physical, sensory or mental capabilities are reduced, or with lack of experience or knowledge, unless they have been able to benefit, through the intermediation of a person responsible for their safety, of surveillance or instructions concerning the use of the appliance • check the system frequently, to check for any anomalies and signs of wear or damage to




the mobile structures, to the automation components, to all the fastening points and devices, to the cables and accessible connections. Keep any hinges, moving joints and slide rails properly lubricated • perform functional checks on the photocells and sensitive safety edges, every six months. To check that the photocells operate correctly, pass an object in front of them during closing; if the operator reverses the direction of travel or stops, the photocells work correctly. This is the only maintenance operation to do with the power on. Constantly clean the photocells' glass covers using a slightly water-moistened cloth; do not use solvents or chemicals that could damage the devices • if repairs or modifications are required to the system, release the operator and do not use it until safety conditions have been restored • cut off the power supply before releasing the operator for manual openings and before any other operation, to prevent potentially hazardous situations. read the instructions • if the power supply cable is damaged, it must be replaced by the manufacturer or authorized technical assistance service, or in any case, by similarly qualified persons, to prevent any risk • it is forbidden for users to perform any operations that are not expressly required of them and which are not listed in the manuals. for any repairs, modifications and adjustments and for extra-ordinary maintenance, call technical assistance • log the job and checks into the periodic maintenance log.

### Further recommendations for all

- Keep away from hinges and mechanical moving parts
- Do not enter the operator's area of operation when it is moving
- Do not counter the operator's movement as this could result in dangerous situations
- Always pay special attention to any dangerous points, which have to be labelled with specific pictograms and/or black and yellow stripes
- While using a selector switch or a command in maintained actions, keep checking that there are no persons within the operating range of any moving parts, until the command is released
- The operator may move at any time and without warning
- Always cut off the power supply before performing any maintenance or cleaning
- Monitor moving doors and keep people away until the door is fully open or closed.



## KEY

-  This symbol shows which parts to read carefully.
-  This symbol shows which parts describe safety issues.
-  This symbol shows which parts to tell users about.

**UNLESS OTHERWISE STATED, THESE OPERATIONS APPLY TO ALL MODELS.**

**THE MEASUREMENTS, UNLESS OTHERWISE STATED, ARE IN MILLIMETERS.**

## DESCRIPTION

The operator is made up of a gearmotor, a control board with transformer, a slide guide with either a belt or chain transmission system, a transmission arm and an ABS casing with display for keypad programming and an LED courtesy light.

### Intended use

The V6000P and V1000P operators are designed to power overhead garage and sectional doors for homes and apartment blocks.

-  Any installation and/or use other than that specified in this manual is forbidden.

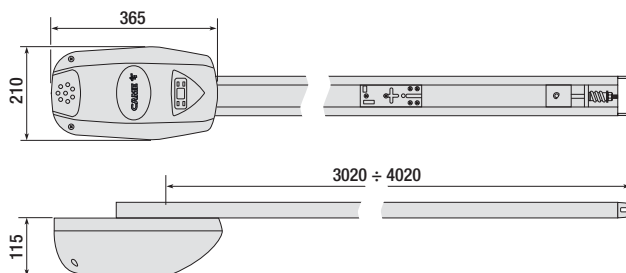
Type	V1000P	V6000P
Door surface area (m <sup>2</sup> )	14	9
Maximum height of counterbalanced overhead doors (m)	2.4	
Maximum height of spring-balanced overhead doors (m)	3.25	
Maximum height of door (m)	3.20	

The maximum heights depend on the guide selected

### Technical data

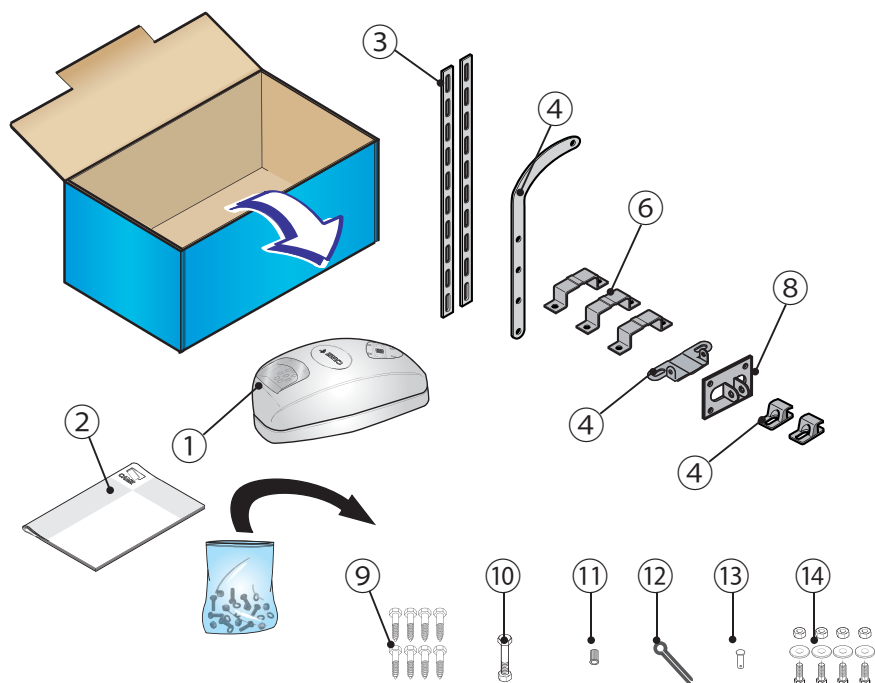
Type	V1000P	V6000P
Protection rating (IP)	20	
Power supply (V - 50/60 Hz)	230 AC	
Motor power supply (V)	24 DC	
Stand-by absorption (W)	6.5	4.5
Maximum power of the accessories (W)	20	
Nominal power (W)	150	90
Opening speed (m/min)	8	6.5
Traction force (N)	1000	600
Operating temperature (°C)	-20 to +55	
Apparatus class	II	
Weight (kg)	5.1	4.9

## Dimensions



## Packing list

- |                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| ① one Operator                    | ⑧ One door fitting brace                            |
| ② one Installation Manual         | ⑨ Eight self-drilling hexagonal head M6x15 screws   |
| ③ two anchoring perforated-plates | ⑩ One hexagonal M6x80 nut and bolt                  |
| ④ one Curved lever                | ⑪ One (Ø8x25) drive-shaft adapter                   |
| ⑤ Two support braces              | ⑫ One 3x20 linchpin                                 |
| ⑥ Three U-shaped braces           | ⑬ One pin                                           |
| ⑦ One guide-fitting brace         | ⑭ Four M8X20 hexagonal screws with washers and nuts |



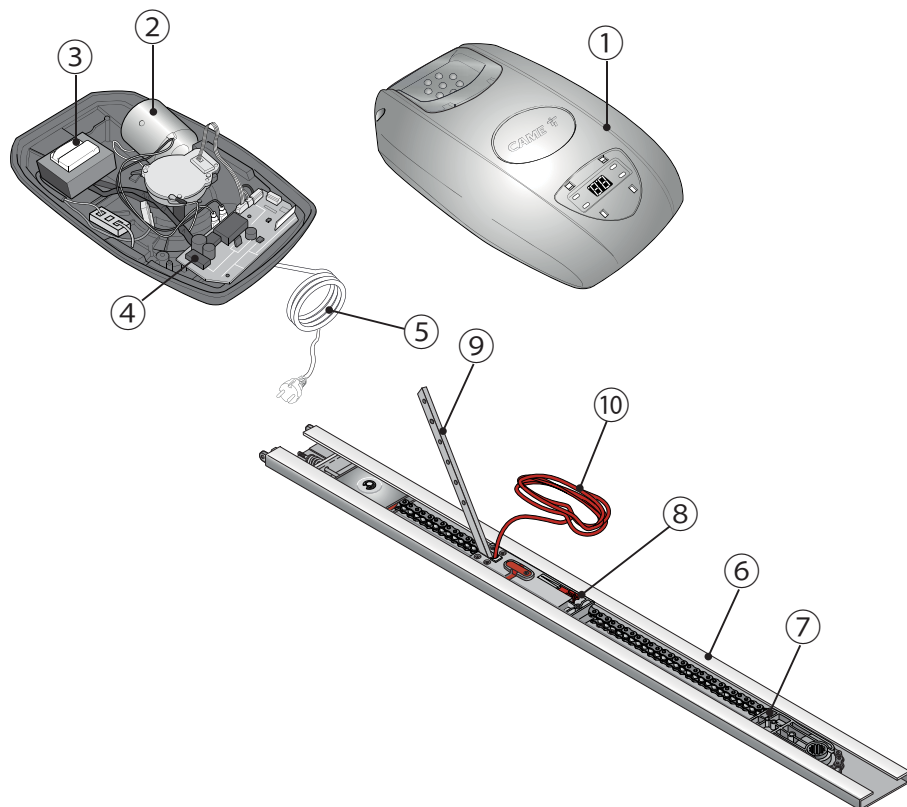
## Description of parts

### Operator

- ① Cover
- ② Gearmotor
- ③ Transformer
- ④ Control board
- ⑤ Power supply cable

### Pre-assembled guide package

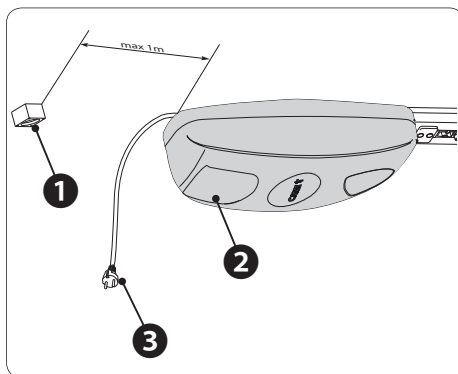
- ⑥ Guide
- ⑦ Chain or belt
- ⑧ Slide
- ⑨ Transmission arm
- ⑩ Release cord



## Installation of the wall socket

⚠ The wall socket must be installed exclusively by a skilled electrician. Protect the wall socket with a fuse (16A delayed). Comply with current regulations (e.g. safety of electrical systems).

1. Install the wall socket ① on the ceiling at a maximum distance of 1 m from the control unit box ②.
2. Install and connect the wall socket power supply cable ③ to the power grid.



## Slide guides

001V06001	Chain guide L = 3.02 m. Counter-balanced overhead doors up to 2.4 m in height - Counter-balanced overhead doors up to 2.25 m in height - Sectional* doors up to 2.20 m in height.
001V06002	Chain guide L = 3.52 m. - Counter-balanced overhead doors up to 2.75 m in height. - Sectional* doors up to 2.70 m in height.
001V06003	Chain guide L = 4.02 m. - Spring-balanced overhead doors up to 3.25 m in height. - Sectional* doors up to 3.20 m in height.
001V06005	Belt guide L = 3.02 m. Counter-balanced overhead doors up to 2.4 m in height - Counter-balanced overhead doors up to 2.25 m in height - Sectional* doors up to 2.20 m in height.
001V06006	Belt guide L = 3.52 m. - Counter-balanced overhead doors up to 2.75 m in height. - Sectional* doors up to 2.70 m in height.
001V06007	Belt guide L = 4.02 m. - Spring-balanced overhead doors up to 3.25 m in height - Sectional* doors up to 3.20 m in height.

## GENERAL INSTRUCTIONS FOR INSTALLING

- ⚠ Only skilled, qualified staff must install this product in full compliance with the law in force.
- ⚠ If the door is fitted with a pedestrian door, you must also fit a safety switch at the entrance, to stop the operator from working when the pedestrian door is open.

### Preliminary checks

- ⚠ Before beginning the installation, do the following:
  - make sure you have set up a suitable dual pole cut off device along the power supply that is compliant with the installation rules. It should completely cut off the power supply according to category III surcharge conditions (that is, with minimum contact openings of 3 mm);
  - Set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage;
  - ⚡ make sure that any connections inside the container (ones that ensure continuity to the protection circuit) are fitted with additional insulation with respect to those of other electrical parts inside;
  - make sure that the door is properly balanced. When stopped at any point, it must maintain its position.

## Cable types and minimum thicknesses

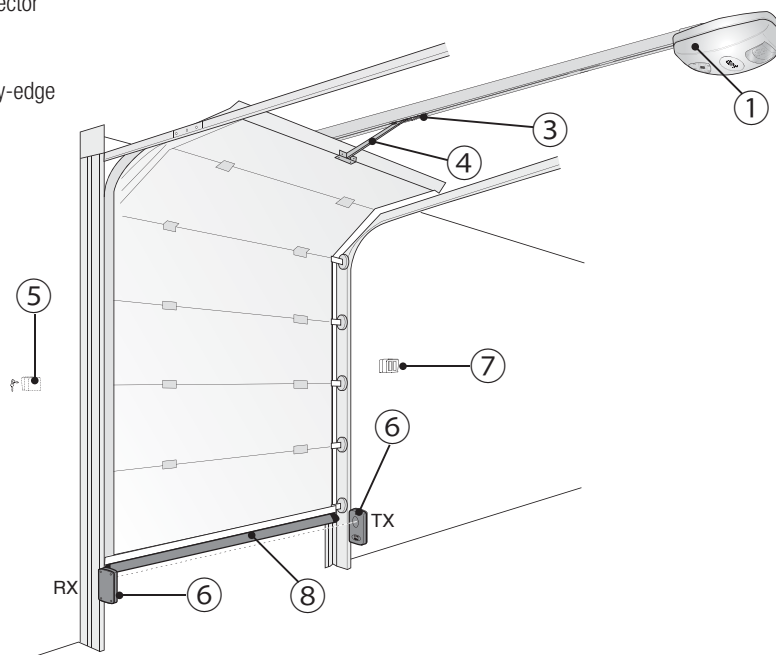
Connection	Cable type	Cable length 1 < 15 m	Cable length 15 < 30 m
Control panel power supply 230 V AC	H05VV-F	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Flashing light	FROR CEI 20-22 CEI EN 50267-2-1	2 x 0.5 mm <sup>2</sup>	
Photocell transmitters		2 x 0.5 mm <sup>2</sup>	
Photocell receivers		4 x 0.5 mm <sup>2</sup>	
Command and safety device		2 x 0.5 mm <sup>2</sup>	
Antenna	RG58	max 10 m	

📖 If cable lengths differ from those specified in the table, establish the cable sections depending on the actual power draw of the connected devices and according to the provisions of regulation CEI EN 60204-1.

For multiple, sequential loads along the same line, the dimensions on the table need to be recalculated according to the actual power draw and distances. For connecting products that are not contemplated in this manual, see the literature accompanying said products

### Standard installation

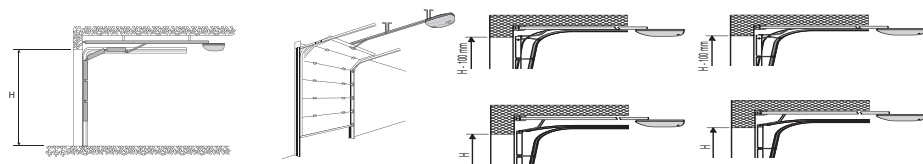
- ① Operator with receiver
- ② Slide guide
- ③ Release device
- ④ Transmission arm
- ⑤ Key-switch selector
- ⑥ Photocells
- ⑦ Keypad
- ⑧ Sensitive safety-edge





## Applicative examples

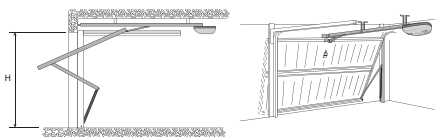
### SECTIONAL DOOR



### COUNTERBALANCED OVERHEAD, partially retracting and protruding



### SPRING-BALANCED OVERHEAD DOOR, fully retracting and protruding

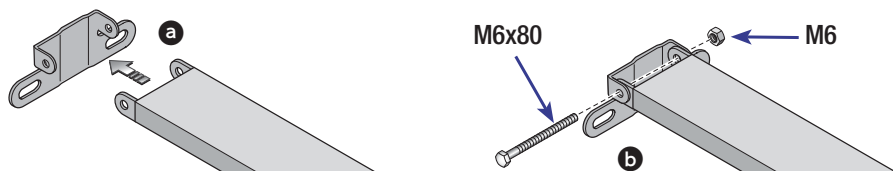


## INSTALLING

△ The following illustrations are just examples, in that the space available for fitting the operator and accessories varies depending on the overall dimensions. It is up to the installer to find the most suitable solution.

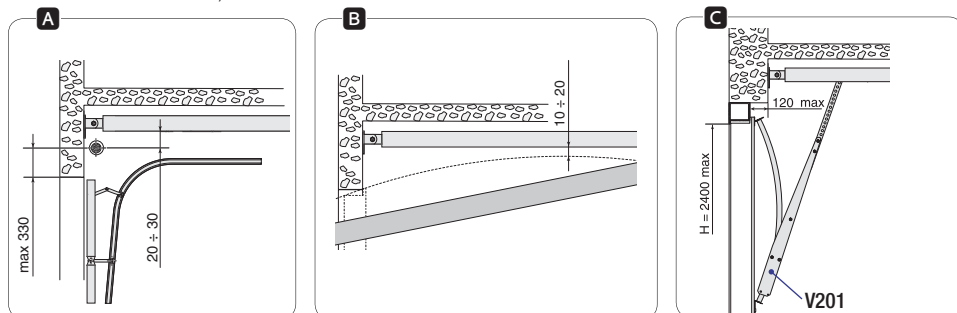
### Assembling the traction guide

Fitting the brace to the transmission guide **a** by using the supplied nut and bolt **b**.



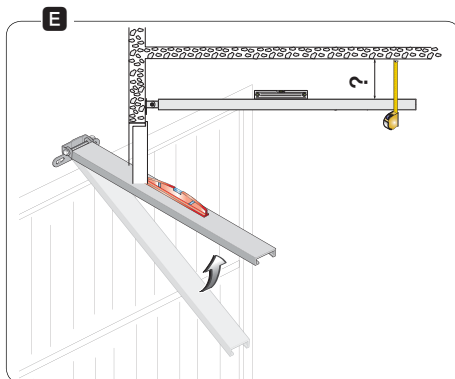
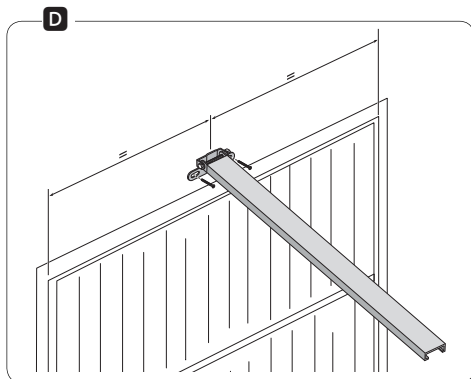
### Positioning the traction guide

- A** for sectional doors exceeding the overall dimensions of the spring-pole brace.
- B** for overhead doors between 10 and 20 mm from the apex point of the leaf's slide arc.
- C** for partially retracting protruding counter-balanced overhead doors, use the V201 arm (see attached technical documentation).

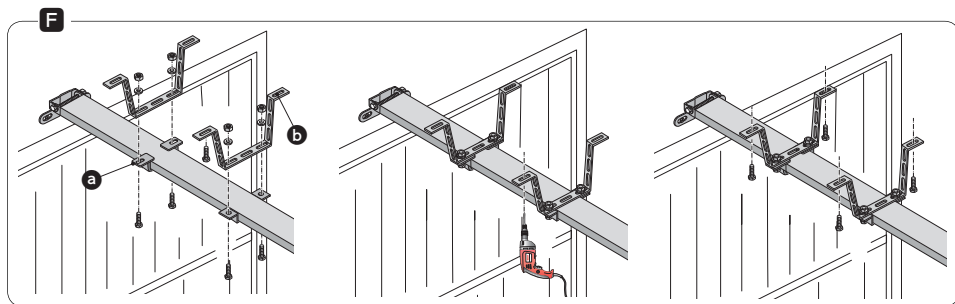


## Fastening the traction guide

- D** Fasten the traction guide to the center of the doorway, using suitable screws.
- E** Raise the guide and position it horizontally to measure the distance to the ceiling, then fasten it.

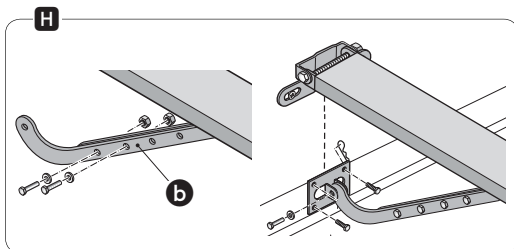
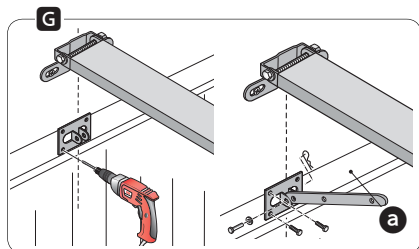


- F** Install the support braces **a** and the U brace **b** on the guide. Bend the perforated flat tabs so they fit snugly and so as to compensate for the distance between the guide and ceiling. Fasten the flat tabs to the support braces and to the U-shaped brace using the supplied screws and washers. Drill the ceiling so the holes match those on the flat tabs. Fasten the flat tabs to the ceiling using suitable dowels and screws.



## Fitting the transmission arm to the door

- G** Fit the transmission arm brace to the upper beam of the door, perpendicularly to the traction guide **a** and fasten it using the supplied screws or other suitable screws.
- H** If mounting the curved lever **b** fit it to the transmission arm by using the supplied nuts and bolts

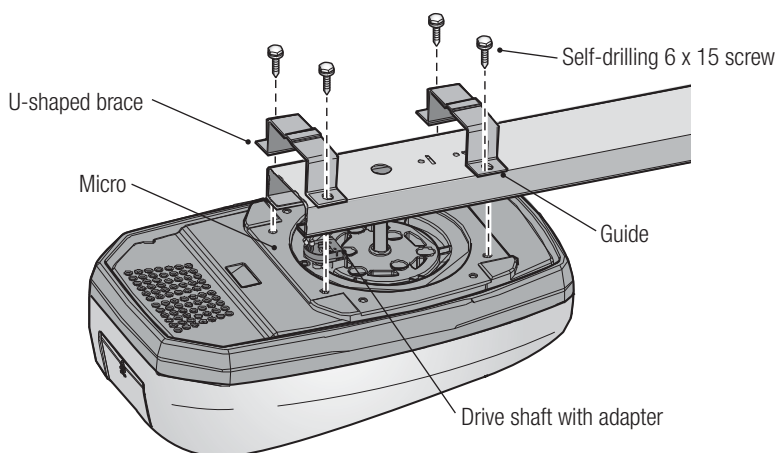


## Fitting the operator to the guide

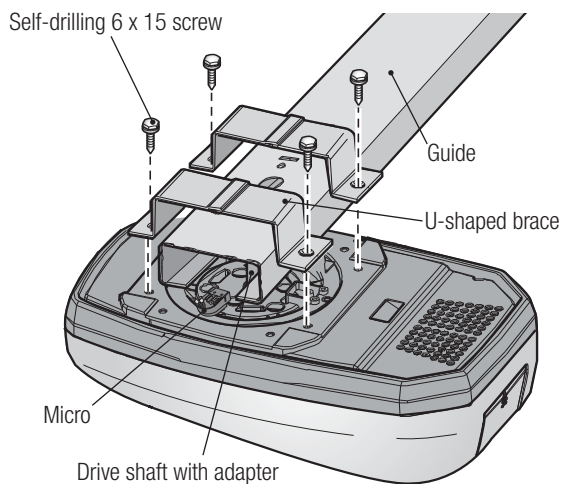
Fit the adapter to the drive shaft.

The operator can be fitted onto the guide: either in standard position **I** or at a right angle **L**.

**I**



**L**

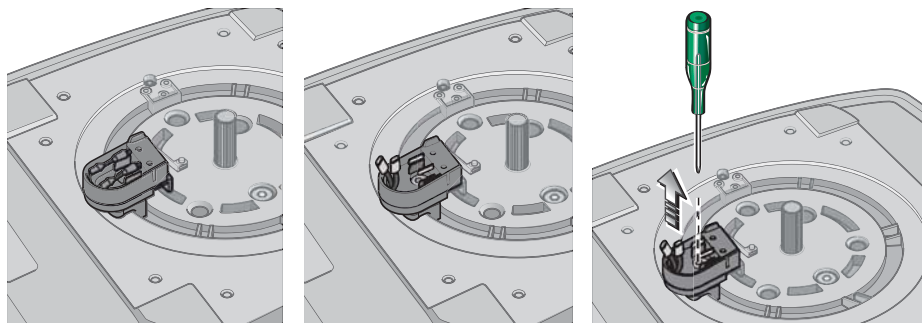


⚠ If the operator is to be fitted at a right angle, before installing it, set the micro-switch (see the corresponding paragraph).

## Moving the micro switch

Disconnect the cables of the micro switch and remove the latter.

**M**



**N** Remove the operator's cover and the cable brace. Pull out the electrical cable and fit it through the hole. Refit the cable brace so as to block the hole.

Use a screwdriver to open up the predrilled hole for the electrical cables of the micro switch and fit the cables to the micro switch. Fit the micro switch to the operator.

Connect the connectors to the corresponding positions on the micro switch.

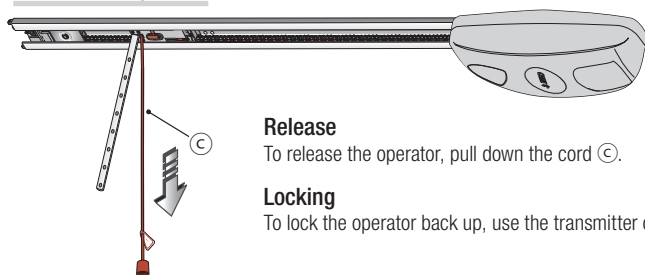
△ Reconnect the cables as originally connected (NO - C).

Fit the cover back onto the operator.

**N**



## Release the operator



### Release

To release the operator, pull down the cord C.

### Locking

To lock the operator back up, use the transmitter or the control button.

## ELECTRICAL CONNECTIONS

### ⚠ Before powering up the board, cut off the mains power supply.

Power supply (V - 50/60 Hz): 230 AC

Board functions:

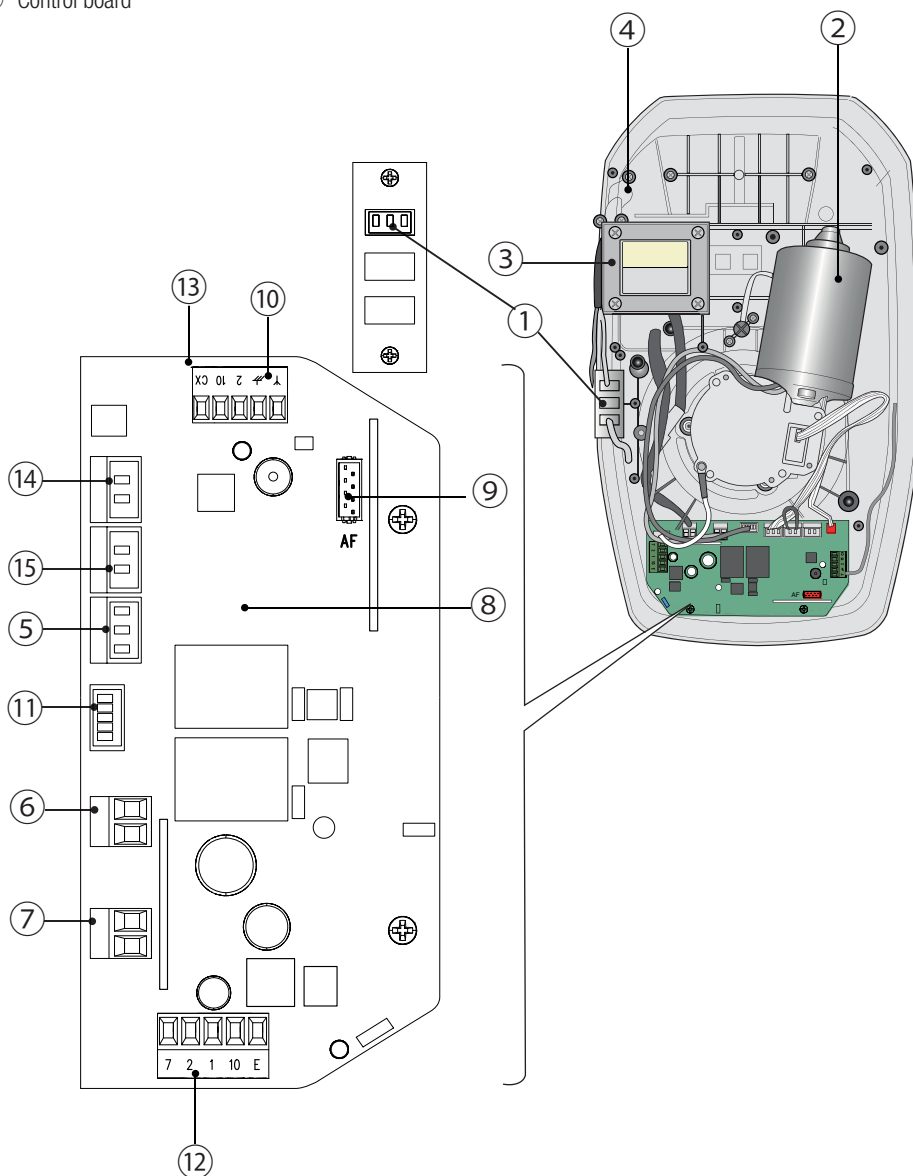
- Movement control and obstacle detection
- Reopen during closing
- Adjustable automatic reclosing time
- Open-stop-close-stop from transmitter and/or from button
- Courtesy light (at each opening command, the courtesy light stays on for three minutes)

### LIGHTS

LED courtesy (W)	$\leq 1$
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## Description of parts

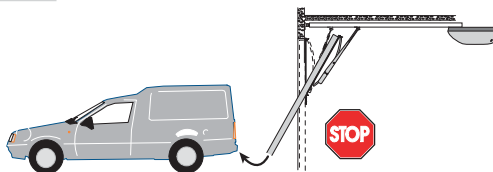
- |                               |                                             |
|-------------------------------|---------------------------------------------|
| ① Line power-supply connector | ⑨ AF card connector                         |
| ② Gearmotor                   | ⑩ Antenna terminals                         |
| ③ Transformer                 | ⑪ Programming board connector               |
| ④ Cables input                | ⑫ Terminals for control and warning devices |
| ⑤ Encoder connector           | ⑬ Safety-device terminals                   |
| ⑥ Gearmotor connector         | ⑭ Courtesy light cover connector            |
| ⑦ Card power supply connector | ⑮ Calibration microswitch terminal          |
| ⑧ Control board               |                                             |



## Movement control and obstacle detection

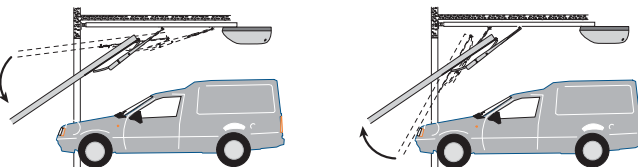
While opening: the door stops.

To resume movement, either press a button or use the transmitter.



When CLOSING:: it inverts the direction of travel until opening is complete.

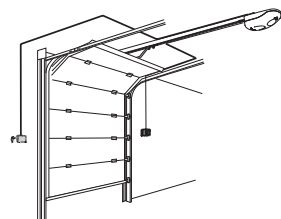
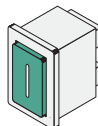
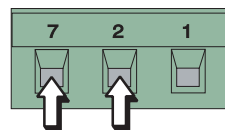
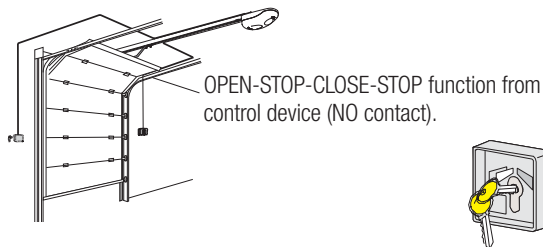
After three consecutive inversions, the door stays open and excludes the automatic closing: to close, either use the transmitter or button.



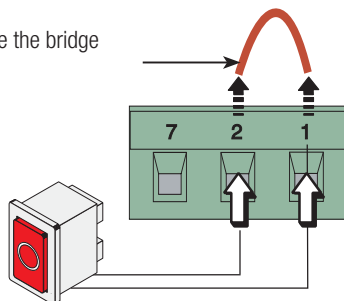
## Input voltage

△ The operator is supplied with an electrical cable (L = 1.2 m) with an already connected Shuko plug.

## Command and control devices



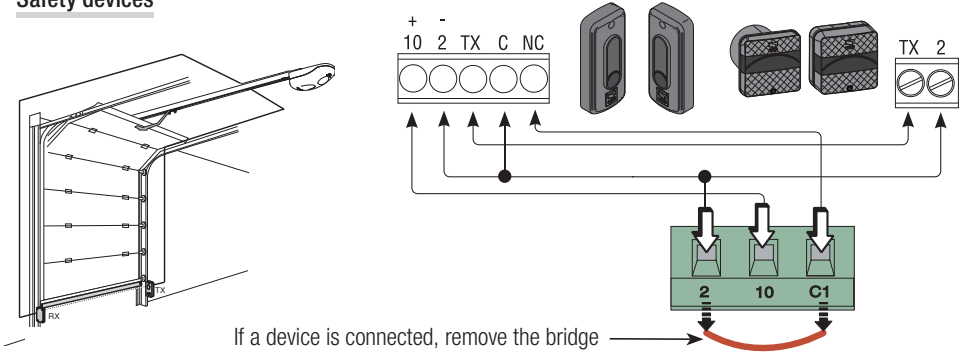
If a device is connected, remove the bridge



Stop button (NC contact). Enables the door to stop and excludes the automatic closing.

To resume movement either press the control button or any other control device.

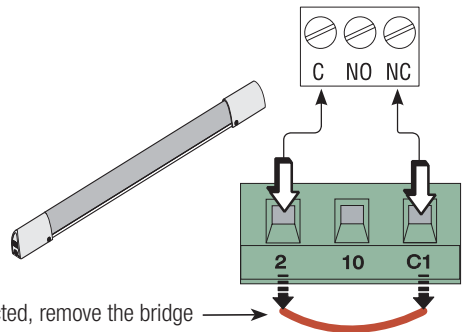
## Safety devices



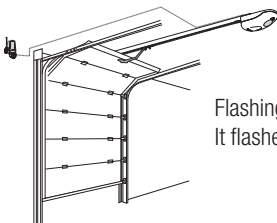
(NC) contact for reopening during closing.

Input for safety devices such as photocells, sensitive safety-edges and other devices that are compliant with EN 12978 standards.

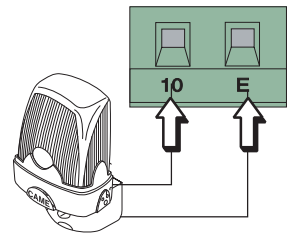
During closing, opening this contact triggers an inversion of movement until the door is completely open.



## Signalling devices



Flashing light (contact rated for: 24 V - 25 W max).  
It flashes during opening and closing.





## PROGRAMMING DEVICE

### Preparing for programming

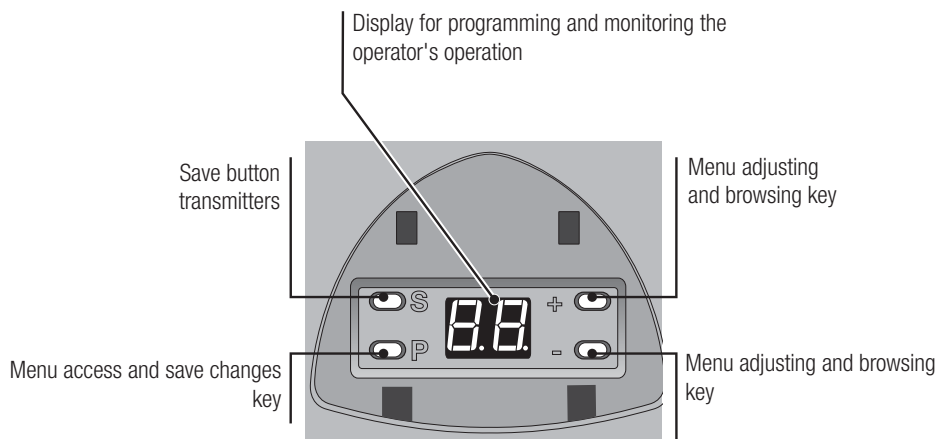
Manually hook up the door to the skid.  
Power up the operator. After emitting a sound signal, the control board is ready for programming.  
Remove the transparent panel to access the programming keys.



⚠ Memorizing (function 5) must always be the last phase of programming, otherwise the settings will not be saved.

In the case of errors, cut off and the power up again the mains power and reprogram.

### Description of keys



### Legend of symbols



L = normal operation



H = Encoder error



F = obstacle detection



A = Active photocell

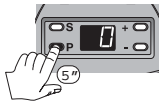
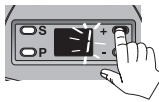

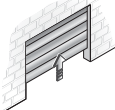
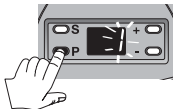
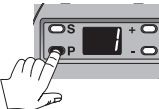
⚠ Some functions must be set so that the operator can work, others, on the other hand, are optional

## Obligatory functions

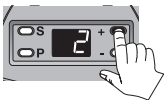
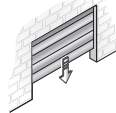

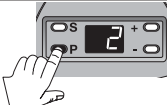
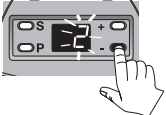
### Establishing the opening limit-switch points

△ Respect the order of settings of the limit switches shown in this manual.

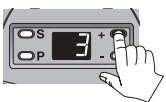
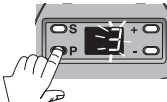
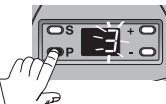
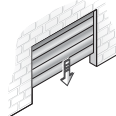
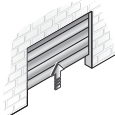
#### With the operator idle

1		Press P for about five seconds.	4		Press +.
2		The operator emits a sound signal and 1 appears.	5		Let the door reach the desired opening position.
3		Press P again, 1 flashes	6		Press P to save the procedure.

### Establishing the closing limit-switch points

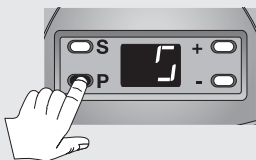

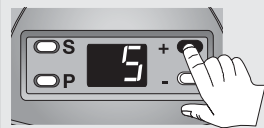
1		Press +, 2 appears.	4		Let the door reach the closing position you want.
2		Press P, 2 flashes.	5		Press P to save the operation.
3		Press -.			

### Checking the travel self-learning

1		Press +, 3 appears.	4		Press P.
2		Press P, 3 flashes.	5		The door reaches the closing limit switch.
3		The door reaches the opening limit switch.			

Memorizing the programming

△ It is **OBLIGATORY** to conclude the programming procedures with this function so as not to lose any saved settings!

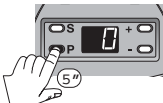
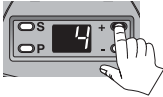
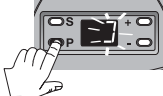
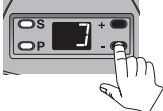




Press + to select 5.

Press P. The display segments rotate clockwise.  
The programming has been memorized.

Adjusting the sensitivity

△ The door must be properly balanced. If the sensitivity is too low it could cause the door to malfunction.  
By default, the sensitivity is set to a medium level. To increase or reduce sensitivity:

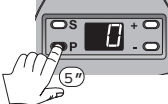
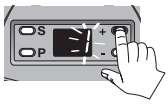
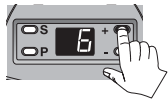
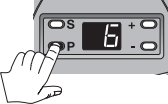
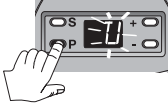
1		Press P for about five seconds, 1 appears.
2		Press + and select 4.
3		Press P, 3 appears.
4		Press + or - to set the suitable sensitivity level.
5	<div><div>Minimum                      Sensitivity level                      Maximum</div></div>	
6		Press P to save the procedure.


📖 The last phase of programming must always be memorized (function 5).  
Once memorization is complete, perform two opening and closing cycles to confirm that the settings have been saved.

**Optional functions**

**Setting the alarm**

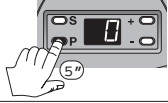
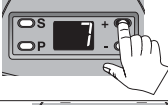

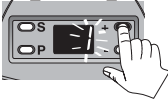
By default, this function is deactivated; by activating the alarm function, the operator emits a long sound signal if the door stays open for more than 10 minutes. To activate it:

1		Press P for about five seconds, 1 appears.	4		Press + and select 1. The alarm is activated.
2		Press + and select 6	5		Press P to save the procedure.
3		Press P, 0 appears			








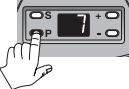
 Memorizing (function 5) must always be the last phase of programming, otherwise the settings will not be saved.


**Adjusting the waiting time before automatic the closing**

This function is disabled in the default setting. To activate it:

1		Press P for about five seconds, 1 appears.
2		Press + and select 7.
3		Press P, 0 appears.
4		Press + and select 1. The automatic closing is active and the waiting time is 30 seconds.

To change the duration of the waiting time before the automatic closing, either press + or -.

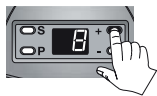
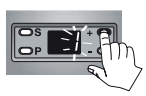

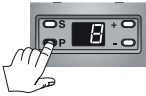
5	 60 seconds	 90 seconds	 120 seconds	 150 seconds
	 180 seconds	 210 seconds	 240 seconds	
6		Press P to save the procedure		

 Memorizing (function 5) must always be the last phase of programming, otherwise the settings will not be saved.

△ The operator emits an intermittent sound signal for 20 seconds before the door starts to automatically close. Simultaneously, the courtesy light flashes. When the door starts closing, the operator emits a sound signal and the courtesy light is on. When the door is closed, the operator does not emit any sound signal and the courtesy light stays on for three minutes.

### Maneuver-counter function

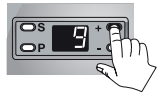
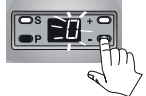
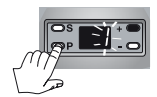

This function activates a sound signal after 2,000 operating cycles. It warns of the need to check and maintain the mechanical parts.

1		Press +, 8 appears	3		Press P, 0 appears (function NOT ACTIVE by default)
2		Press P, 0 appears (function NOT ACTIVE by default)	4		Press P to save the setting

△ To switch off the sound signal, disconnect and the power up the mains power supply.

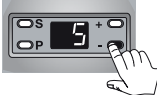
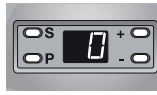

### Automatic Closing Pre-warning function

The operator emits a sound signal for 20 seconds, before initiating the automatic closing.

1		Press +, 9 appears	3		Press -, 0 appears: the function is deactivated
2		Press P, 1 appears (function ACTIVE by default)	4		

### Memorizing the programming

△ IMPORTANT! This final step must be carried out in order not to lose the information saved.

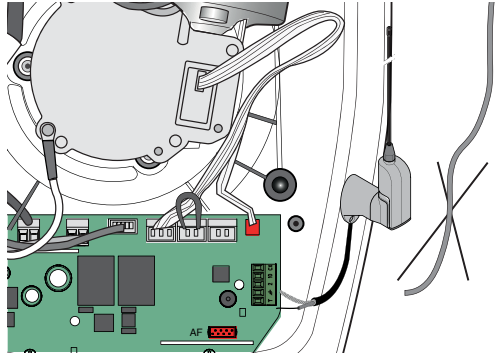
1		Press- to select 5	3		... the LEDs will have composed the digit 0: at this point the programming is stored
2		Press and keep pressed P until ...			

## ENABLING THE RADIO CONTROL

 Before fitting the AF card, you **MUST CUT OFF THE MAINS POWER SUPPLY**

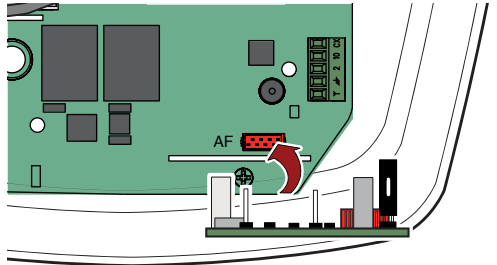
### Additional external antenna

Disconnect the internal antenna and connect the external one to the corresponding terminals on the control board.



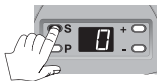


### Radio frequency card

Fit the AF card into the connector on the control board.






### **Memorizing the transmitters**

You can memorize up to 16\* different codes/users. When the operator is idle:

1		Press and keep pressed S until....
2		0 appears on the left side of the screen. The segments of the 0 on the left side of the screen rotate clockwise. Release the S key.
3		Consecutively press twice the key that you want to memorize. The control unit will BEEP to confirm that the transmitter has been memorized.
<p>△* When you try to memorize the 17th code (or transmitter) the courtesy light flashes slowly five times to signal that the memory is full.</p>		

## Deleting transmitters


1		Press and keep pressed S until....
2		0 appears on the left side of the screen. The segments of the 0 on the left side of the screen rotate clockwise.
3		When the 0 on the left disappears, release the S key: the transmitters have been deleted.

## TROUBLESHOOTING

ISSUES	CHECKS AND FIXES
<ul style="list-style-type: none"> <li>The operator neither opens nor closes</li> </ul>	<ul style="list-style-type: none"> <li>Check the power supply</li> <li>The (1-2) NC safety contact is open</li> </ul>
<ul style="list-style-type: none"> <li>The operator opens but does not close</li> </ul>	<ul style="list-style-type: none"> <li>The N.C. safety contact (2-C1) is open</li> <li>Check the proper direction of the door travel</li> <li>Check the balancing of the overhead garage-door</li> </ul>
<ul style="list-style-type: none"> <li>The operator closes but does not open</li> </ul>	<ul style="list-style-type: none"> <li>Check the balancing of the overhead garage-door</li> </ul>
<ul style="list-style-type: none"> <li>The operator does not perform the automatic closing</li> </ul>	<ul style="list-style-type: none"> <li>Check that the automatic closing function is active</li> <li>Check the proper direction of the door travel</li> </ul>
<ul style="list-style-type: none"> <li>The transmitter does not work</li> </ul>	<ul style="list-style-type: none"> <li>Memorize the transmitter again</li> </ul>
<ul style="list-style-type: none"> <li>The operator pushes too weakly or inverts the direction of travel</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the sensitivity</li> <li>Eliminate all mechanical friction</li> <li>Check the door balancing</li> <li>Check the tautness of the belt/chain</li> </ul>
<ul style="list-style-type: none"> <li>Only one transmitter works</li> </ul>	<ul style="list-style-type: none"> <li>Enter (or duplicate) the same code in all the transmitters</li> </ul>
<ul style="list-style-type: none"> <li>The photocell is not working</li> </ul>	<ul style="list-style-type: none"> <li>The N.C. safety contact (2-C1) is open</li> <li>Check proper functioning of the photocell</li> </ul>
<ul style="list-style-type: none"> <li>The operator inverts the travel direction at the limit switch</li> </ul>	<ul style="list-style-type: none"> <li>Check the proper direction of the door travel</li> <li>Eliminate all mechanical friction</li> <li>Check the door balancing</li> </ul>
<ul style="list-style-type: none"> <li>The operator starts too slowly</li> </ul>	<ul style="list-style-type: none"> <li>Eliminate all mechanical friction</li> <li>Check the door balancing</li> <li>Check the tautness of the belt/chain</li> </ul>

## MAINTENANCE

## Periodic maintenance

 Before doing any maintenance, cut off the mains power supply, to prevent any hazardous situations resulting from the door's unexpected movement.

Periodic maintenance log to be filled in by users every six months.

[illegible]



**Extraordinary maintenance**

⚠ The following table is for logging any extraordinary maintenance jobs, repairs and improvements performed by specialized contractors.

📖 Any extraordinary maintenance jobs must be done only by specialized technicians.

**Extraordinary maintenance log**

Fitter's stamp	Name of operator
	Job performed on (date)
	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

Fitter's stamp	Name of operator
	Job performed on (date)
	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

Fitter's stamp	Name of operator
	Job performed on (date)
	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

Fitter's stamp	Name of operator
	Job performed on (date)
	Technician's signature
	Requester's signature
Job performed _____ _____ _____	

## DISMANTLING AND DISPOSAL

☞ CAME S.p.A. employs an Environmental Management System at its premises. This system is certified and compliant with the UNI EN ISO 14001 regulation standard to ensure that the environment is respected and safeguarded. Please continue safeguarding the environment. At CAME we consider it one of the fundamentals of our operating and market strategies. Simply follow these brief disposal guidelines:

### DISPOSING OF THE PACKAGING

The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling. Always make sure you comply with local laws before dismantling and disposing of the product.

### DISPOSE OF RESPONSIBLY!

### DISPOSING OF THE PRODUCT

Our products are made of various materials. Most of these (aluminium, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants. Whereas other components (control boards, batteries, transmitters, and so on) may contain hazardous pollutants. These must therefore be disposed of by authorized, certified professional services. Before disposing, it is always advisable to check with the specific laws that apply in your area.

### DISPOSE OF RESPONSIBLY!

## REFERENCE REGULATIONS

The product complies with current applicable standards

See next page.

Manufacturer / Wytwórca

**Came S.p.a.**

address / adres

Via Martiri della Libertà 15 - 31030 Dosson di Casier, Treviso - Italy



DECLARES THAT THE OPERATORS FOR GARAGE DOORS / OŚWIADCZA ZE AUTOMATYKA DO BRAM GARAZOWYCH

V6000P

V1000P

THEY COMPLY WITH THE PROVISIONS OF THE FOLLOWING DIRECTIVES / SA ZGODNE Z POSTANOWIENIAMI NASTĘPUJĄCYCH DYREKTYW EUROPEJSKICH:

- ELECTROMAGNETIC COMPATIBILITY / KOMPATYBILNOŚCI ELEKTROMAGNETYCZNEJ : 2014/30/UE.

Refer to European regulations and other technical regulations / Odnosnie normy ujednolicone i inne normy techniczne

EN 61000-6-1:2008  
 EN 61000-6-3:2007+A1:2011  
 EN 61547:2009EN 62233:2008  
 ETSI EN 301 489-1 v.2.2.0  
 ETSI EN 301 489-3 v.2.1.1  
 EN 60335-1:2012+A11:2014  
 EN 60335-2-95:2015+A1:2015

MEET THE APPLICABLE ESSENTIAL REQUIREMENTS: / SPEŁNIAJĄ PODSTAWOWE WYMAGANE WYRUNKI:

1.1.3; 1.1.5; 1.2.1; 1.2.2; 1.3.2; 1.3.7; 1.3.8.1; 1.4.1; 1.4.2; 1.5.1; 1.5.6; 1.5.8; 1.5.9; 1.5.9; 1.5.13; 1.6.1; 1.6.3; 1.6.4;  
 1.7.1; 1.7.2; 1.7.4

PERSON AUTHORISED TO COMPILE THE RELEVANT TECHNICAL DOCUMENTATION / OSOBA UPOWAŻNIIONA DO ZREDAGOWANIA DOKUMENTACJI TECHNICZNEJ /

**CAME S.p.a.**

The pertinent technical documentation has been drawn up in compliance with attached document VIB. / Odnosna dokumentacja techniczna zostala zredagowana zgodnie z załącznikiem VIB.

Came S.p.A., following a duly motivated request from the national authorities, undertakes to provide information related to the quasi machines, and / Came S.p.A. zobowiązuje się do udzielenia informacji dotyczących maszyn nieukończonych na odpowiednio umotywowana prośbę, złożoną przez kompetentne organy państwowe.

**VIETA / FORBIDS / VERBIETET / INTERDIT / PROHIBE / PROIBE / ZABRANIA SIE / VERBIEDT**

Commissioning of the above mentioned until such moment when the final machine into which they must be incorporated, has been declared compliant, if pertinent, to 2006/42/CE / Uruchomienia urządzania do czasu, kiedy maszyna, do której ma być wbudowany, nie zostanie oceniona jako zgodna z wymogami dyrektywy 2006/42/WE, jeśli taka procedura była konieczna.

Dosson di Casier (TV)  
 11 March / Marzec 2019

Legal Representative / Przedstawiciel prawny

Andrea Menazzo

Supporting technical dossier / wspieranie dokumentacji technicznej : 001VER060ES

**Came S.p.a.**

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 info@came.it - www.came.com

Cap. Soc. 1.610.000,00 € - C.F. e P.I. 03481280265 - VAT IT 03481280265 - REA TV 275359 - Reg Imp. TV 03481280265

*The contents of this manual may change, at any time, and without notice.*



**CAME.COM**

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tel. (+39) 0422 4940 - fax. (+39) 0422 4941