



CE

119ET97EN

OPERATOR
FOR OVERHEAD AND SECTIONAL DOORS

Official Partner



MILANO 2015

FEEDING THE PLANET
ENERGY FOR LIFE



INSTALLATION MANUAL

V900E



English

EN



WARNING!

Important instructions for the safety of people:

READ CAREFULLY!



Foreword

• Use of the products must be restricted to its intended use (i.e. that for which it was expressly built for). Any other use is to be considered dangerous. Came Cancelli Automatici S.p.A. is not liable for any damage resulting from improper, wrongful or unreasonable use • Keep these warnings with the installation and use manuals issued with the automated system.

Before installing

(preliminary check: in case of a negative outcome, do not proceed before having complied with the safety obligations)

• Make sure that the parts you intend to automate are in good working order, and that they are properly balanced and aligned. Also, make sure that proper mechanical stops are already in place • If the operator will be installed at a height of less than 2.5 m from the ground or other access level, check whether you will need any protections and/or warnings • Any gate leaves, fitted with pedestrian entrances, onto which you will install an operator, must have a blocking mechanism when the gate is in motion • Make sure that the opening of the automated gate is not an entrapment hazard as regards any surrounding fixed parts • Do not mount the operator upside down or onto any elements that may fold under its weight. If needed, add suitable reinforcements at the points where it is secured • Do not install onto gates on either an upward or downward slope (i.e. that are not on flat, level ground) • Check that any lawn watering devices will not wet the gearmotor from the bottom up.

Installation

• Carefully section off the entire site to prevent unauthorised access, especially by minors and children • Be careful when handling operators that weigh more than 20 Kg (see installation manual). In such cases, employ proper weight handling safety equipment • All opening commands (e.g. buttons, key selectors, magnetic detectors, etc.) must be installed at least 1.85 m from the gate's area of operation perimeter - or where they cannot be reached from the outside of the gate. Also, the direct commands (e.g. push button, or proximity devices, etc.) must be installed at a height of at least 1.5 m and must not be accessible to the public • All 'maintained action' commands, must be placed where the moving gate leaves, transit areas and driveways are completely visible • If missing, apply a permanent label that shows the position of the release mechanism • Before delivering to the client, verify that the system is EN 12453 (impact test) standard compliant. Make sure that the operator has been properly adjusted and that the safety and protection devices, as well as the manual release

are working properly • Where necessary and in plain sight, apply the Warning Signs (e.g. gate plate).

Special instructions and advice for users

• Keep the gate's area of operation clean and clear of any obstacles. Trim any vegetation that may interfere with the photocells • Do not allow children to play with the fixed command devices, or in the gate's area of operation. Keep any remote control devices (i.e. transmitters) away from the children as well • Frequently check the system, to see whether any anomalies or signs of wear and tear appear on the moving parts, on the component parts, on the securing points, on the cables and any accessible connections. Keep any joints (i.e. hinges) lubricated and clean, and do the same where friction may occur (i.e. slide rails) • Perform functional tests on photocells and sensitive edges, every six months. Keep glass panels constantly clean (use a slightly water-moistened cloth; do not use solvents or any other chemical products) • If the system requires repairs or modifications, 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. See instructions • Users are FORBIDDEN to carry out ANY ACTIONS THAT THEY HAVE NOT BEEN EXPRESSLY ASKED TO DO OR SO INDICATED in the manuals. Any repairs, modifications to the settings and extraordinary maintenance MUST BE DONE BY THE TECHNICAL ASSISTANCE STAFF • On the periodic maintenance log, note down the checks you have done.

Special instructions and advice for all

• Avoid working near the hinges or moving mechanical parts • Stay clear of the gate's area of operation when in motion • Do not resist the direction of movement of the gate; this may present a safety hazard • At all times be extremely careful about dangerous points that must be indicated by proper pictograms and/or black and yellow stripes • When using a selector or command in 'maintained action' mode, keep checking that there are no people in the area of operation of the moving parts. Do this until you release the command • The gate may move at any time without warning • Always cut the power when cleaning performing maintenance.



Came Cancelli Automatici s.p.a.

address Via Martiri della Libertà Street n. 15 postal code 31030
location Dosson di Casier province Treviso state Italia

DECLARES THAT THE PARTLY COMPLETED MACHINERY
GARAGE DOOR OPERATORS

V700; V700E; V800D; V800S; V900E; DOMU24DK

V0679; V0682; V0683; V0684; V0685; V0686; V0687; V0688
V005; V121; V122; V201; V0670

MEET THE APPLICABLE ESSENTIAL REQUIREMENTS

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; 1.5.13; 1.6.1; 1.6.3; 1.6.4; 1.7.1; 1.7.2; 1.7.4

COMPLIES WITH THE PROVISIONS OF THE FOLLOWING DIRECTIVES

DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 17 May 2006 on machinery, and amending Directive 95/16/EC.

DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility.

PERSON AUTHORISED TO COMPILE THE RELEVANT TECHNICAL DOCUMENTATION

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The pertinent technical documentation has been drawn up in compliance with attached document IIB
Came Cancelli Automatici S.p.A., following a duly motivated request from the national authorities, undertakes to provide information
related to the quasi machines,

and FORBIDS

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.

Dosson di Casier (TV)
28 June 2012

Gianni Michielan
Managing Director

DDI B EN **V010a** ver. 4.2 01 February 2011
Translation of the Declaration in the original language

Came Cancelli Automatici s.p.a.

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IMPORTANT INSTALLATION SAFETY INSTRUCTIONS


WARNING: IMPROPER INSTALLATION MAY RESULT IN SERIOUS HARM. PLEASE FOLLOW ALL INSTALLATION INSTRUCTIONS

THIS MANUAL IS INTENDED ONLY FOR PROFESSIONAL INSTALLERS OR OTHER COMPETENT INDIVIDUALS



Legend of symbols


 This symbol shows parts which must be read with care.

 This symbol means the parts which describe safety issues.

 This symbol tells you what to tell the end-user.

2 Intended use and limits to use

2.1 Intended use

 The V900E operator is engineered to power overhead and sectional doors in individual homes and apartment complexes. Any installation and use other than that specified in this manual is forbidden.

2.2 Limitations to use

24 V DC gearmotor with traction force of up to 500N for:

- door's surface area (m²): 9
- counter-weighted overhead garage doors up to 2.4 m high
- spring-loaded overhead doors up to 3.5 m high
- sectional doors up to 3.2 m high

3 Reference standards

Came Cancelli Automatici employs an ISO 9001:14001 certified quality management system and an ISO 14001 environmental management system. Came entirely engineers and manufactures in Italy.

This product is compliant with: *see statement of compliance.*

4 Description

4.1 Operator

This product is engineered and built by CAME CANCELLI AUTOMATICI S.p.A. in compliance with current applicable safety laws . The operator is mainly composed of a motor assembly, a slide bar - with either belt or chain traction system - and a transmission arm. Inside an ABS container, with cover featuring a window for the duty lamp, there is: the 24 V gearmotor, the electronic command card and the transformer.

The gearmotor is made up of a die-cast aluminum box, in which works a screw-based and helical crown irreversible reduction system, lubricated with permanent fluid grease.

The slide guide is made of galvanised cold-profiled sheeting. The belt / chain tightening device is located on the front part; the ABS motor assembly support is on the other side.

Inside the guide runs the drag sled which includes the emergency release mechanism and the transmission arm hook.

The transmission arm is available in various sizes and shapes depending on the door type.

4.2 Technical data

V900E GEARMOTOR

Power supply to control panel: 230 V AC - 50 / 60 50/60 Hz

Motor power supply: 24 V DC

Maximum output of accessories: 40 W

Nominal output: 130 W


Maximum Torque: 500 Nm

Average speed: 6 m/min

Duty cycle: 50 %

Protection rating : IP40

Weight: 5.7 kg

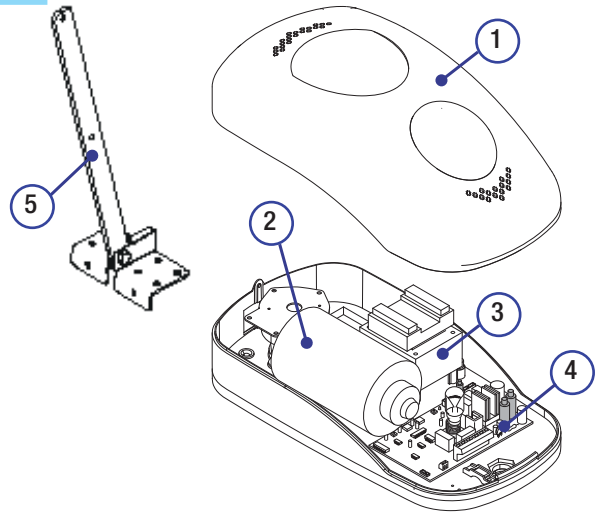
Insulation class: 



4.3 Description of parts

GEARMOTOR ASSEMBLY

1. Protective cover
2. Gearmotor
3. Transformer
4. ZL56 Electronic card
5. Standard transmission arm



SLIDE GUIDES

001V0679 - Guide assembly with chain L = 3.02 m

001V0684 - like the 001V0679 but in two pieces to assemble:

- counterweighted overhead doors up to 2.4 m high;
- spring-loaded overhead doors up to 2.25 m high;
- sectional doors up to 2.2 m high.

001V0682 - Guide assembly with chain L = 3.52 m:

- spring-loaded overhead doors up to 2.75 m high;
- sectional doors up to 2.7 m high;

001V0683 - Guide assembly with chain L = 4.02 m:

- spring-loaded overhead doors up to 3.25 m high;
- sectional doors up to 3.2 m high;

001V0685 - Guide assembly with chain L = 3.02 m

001V0687 - like the 001V0685 but in two pieces to assemble:

- counterweighted overhead doors up to 2.4 m high;
- spring-loaded overhead doors up to 2.25 m high;
- sectional doors up to 2.2 m high.

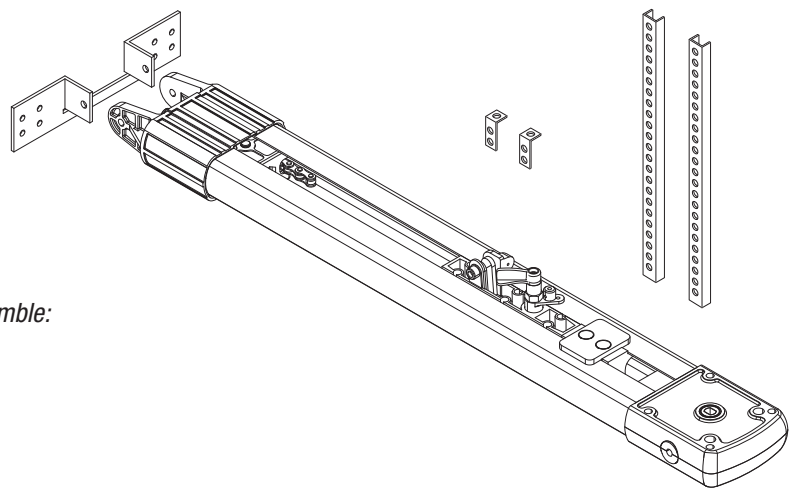
001V0686 - Guide assembly with chain L = 3.52 m

- spring-loaded overhead doors up to 2.75 m high;
- sectional doors up to 2.7 m high;

001V0688 - Guide assembly with chain L = 3.4 m:

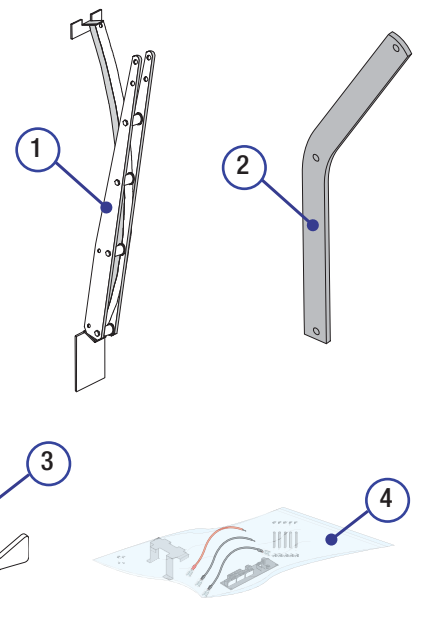
- spring-loaded overhead doors up to 3.25 m high;
- sectional doors* up to 3.2 m high.

*see page 5 (5.4 Application examples).



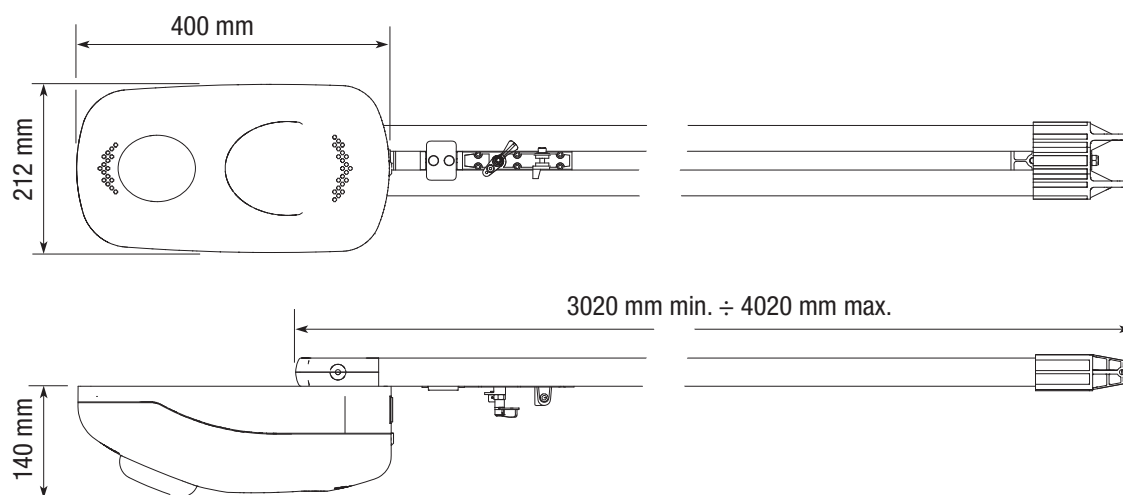
OPTIONAL ACCESSORIES

1. 001V201 – Transmission arm for counterweighted overhead doors
2. 001V122 – Enhanced transmission arm for sectional doors
3. 001V121 – Pull chord release device to attach to handle
4. 001V0670 – Emergency battery connection card, with 2-battery support (12V - 1,2 Ah (batteries not included))



Important!

4.4 Dimensions




5 Installation

 Installation must be carried by skilled, qualified technicians in accordance with current regulations.

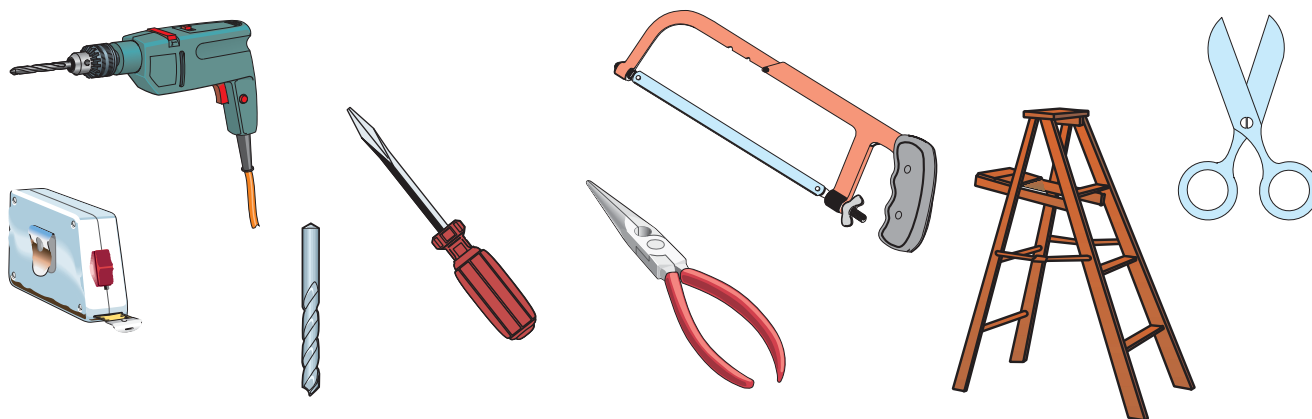
5.1 Preliminary checks

 Before installing the operator, do the following:

- Check that the installing the operator does not create and hazardous situations;
Set up a suitable omnipolar cut-off device, with distances greater than 3 mm between contacts, with sectioned power source;
- Set up proper conduits and electric cable raceways, making sure these are protected from any mechanical damage;
- Check that the anchoring point of the gearmotor is protected from any possible impacts, and that it is sturdy. Fasten using suitable bolts plugs, etc. for the type of surface;
-  Check that any protection circuit connections (ground), inside the container, be properly insulated compared to the other conductive parts;
- Make sure the door structure is sturdy enough, that the hinges are efficient and that there is no friction among the fixed and moving parts.

5.2 Tools and equipment

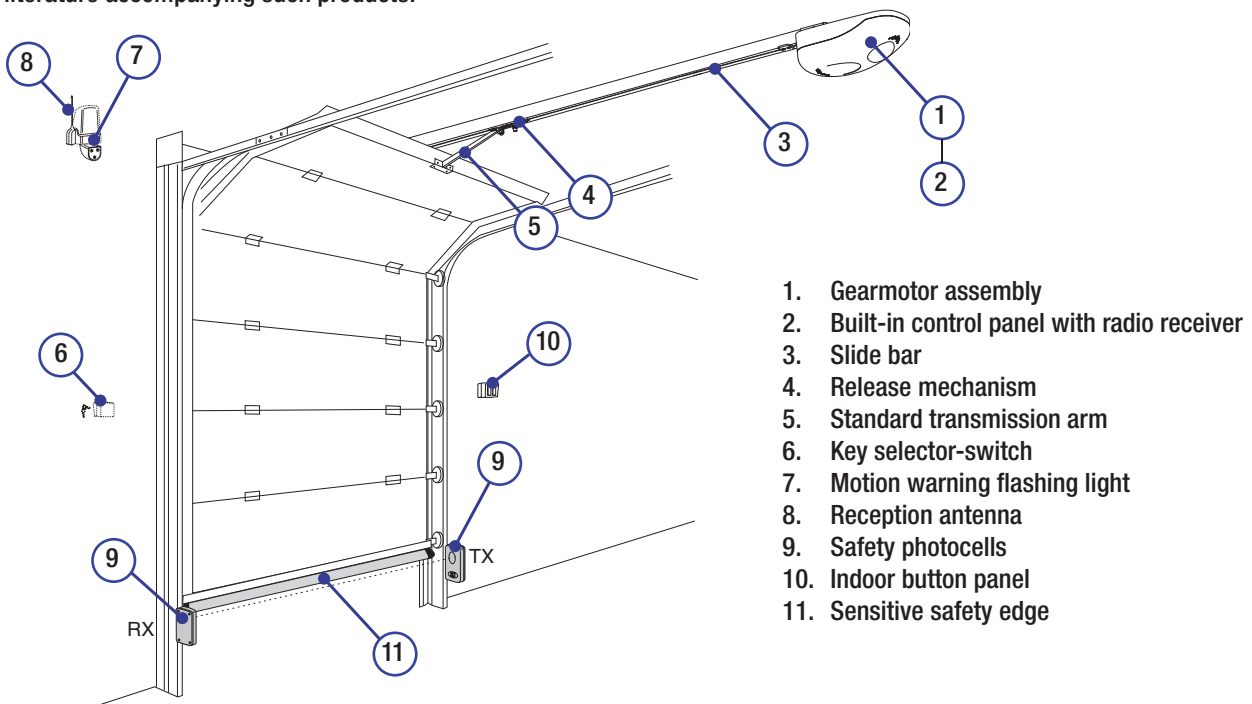
Make sure you have all the tools and materials needed to carry out the installation in total safety and in accordance with current regulations. The figure shows some examples of the tools needed by installers.



5.3 Cable types and minimum thickness

Connection	Cable type	Cable length 1 < 10 m	Cable length 10 < 20 m	Cable length 20 < 30 m
Power supply	FROR CEI 20-22 CEI EN 50267-2-1	3G x 1.5 mm ²	3G x 2.5 mm ²	3G x 4 mm ²
Flashing light		2 x 0.5 mm ²	2 x 1 mm ²	2 x 1.5 mm ²
Photocell transmitters		2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Photocell receivers		4 x 0.5 mm ²	4 x 0.5 mm ²	4 x 0.5 mm ²
Accessories power source		2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 1 mm ²
Safety and command devices		2 x 0,5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Connecting the antenna	RG58	max. 10 m		

N.B. If cables are of a different length than that shown in the table, determine the cable section based on the actual draw and the number of connected devices and according to what is set forth in the CEI EN 60204-1 code of regulations. For connections featuring several loads on the same line (i.e. sequential ones), the dimensions shown on the table must be reconsidered according to the total draw and actual distances. When connecting products not featured in this manual, only refer to the literature accompanying such products.



1. Gearmotor assembly
2. Built-in control panel with radio receiver
3. Slide bar
4. Release mechanism
5. Standard transmission arm
6. Key selector-switch
7. Motion warning flashing light
8. Reception antenna
9. Safety photocells
10. Indoor button panel
11. Sensitive safety edge


5.4 Application examples

SECTIONAL DOOR AND

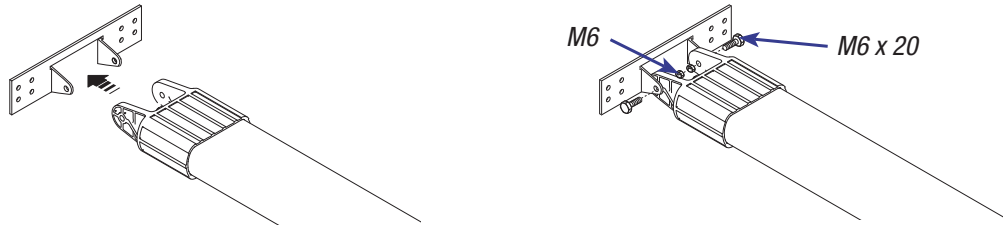
PARTIALLY RETRACTING, PROTRUDING COUNTERWEIGHTED OVERHEAD GARAGE DOOR

RETRACTING, PROTRUDING SPRING-BALANCED OVERHEAD GARAGE DOOR

5.5 Setting up the transmission guide

 The following illustrations are just examples, in that the space for securing the operator and accessories depends on the overall measurements. It is up to the installer to choose the most suited solution

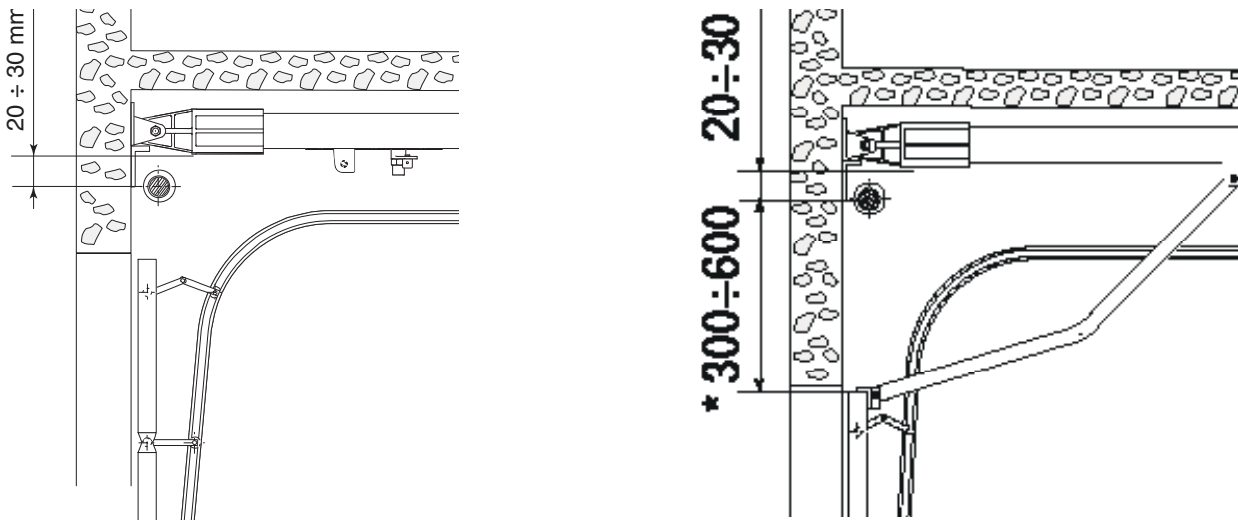
1) Fasten the bracket to the transmission guide's tensioning device using the issued nuts and bolts.



2) Position the slide guide in the following way:

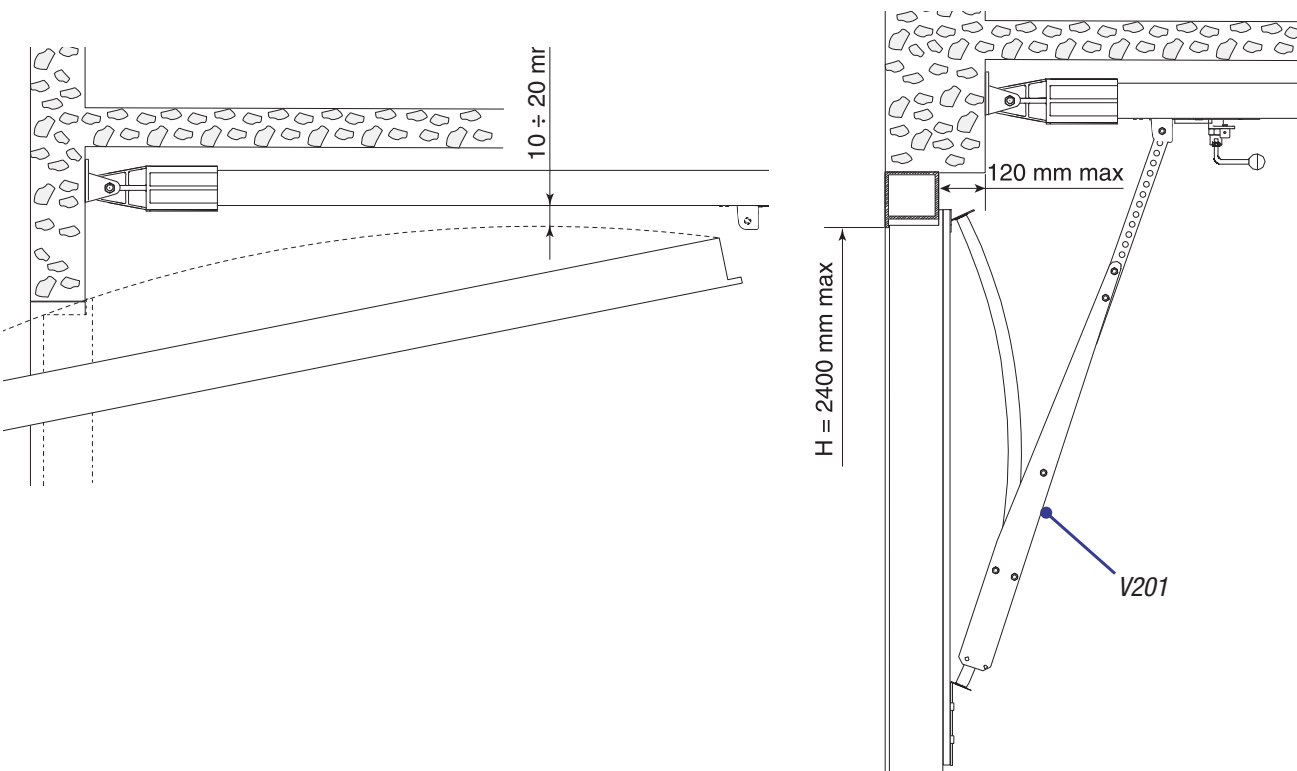
- for sectional doors above the footprint of the spring-post bracket.

N.B.: if the distance between the spring-post bracket and the top part lies within the 300 and 600 mm range, use the V122 arm (see enclosed technical literature).



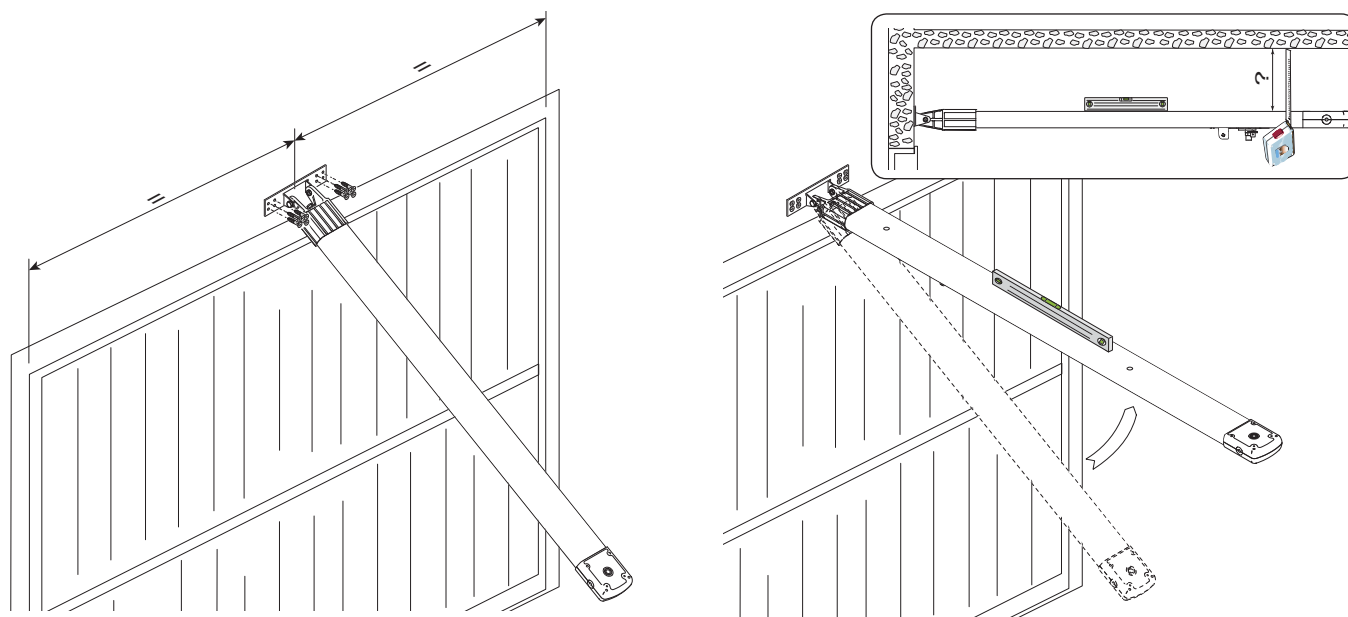
- for overhead garage doors between 10 and 20 mm away from the highest point of the door panel's run-curve.

N.B.: for counterbalanced protruding / partially recessing overhead doors, use the V201 arm (see enclosed technical literature).

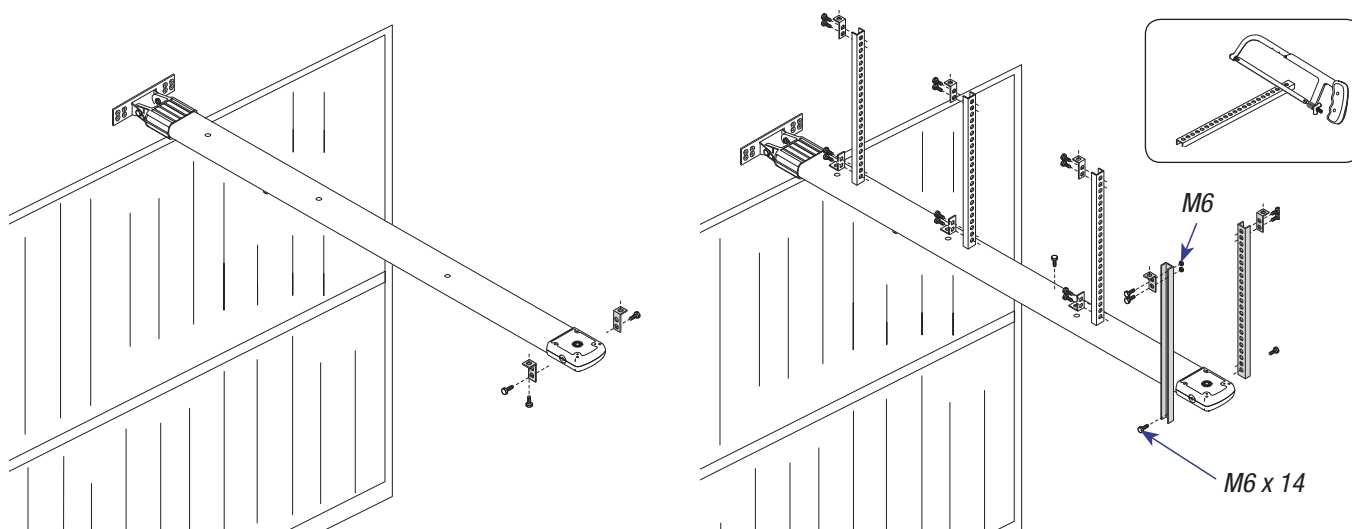


5.6 Fastening to the slide rail

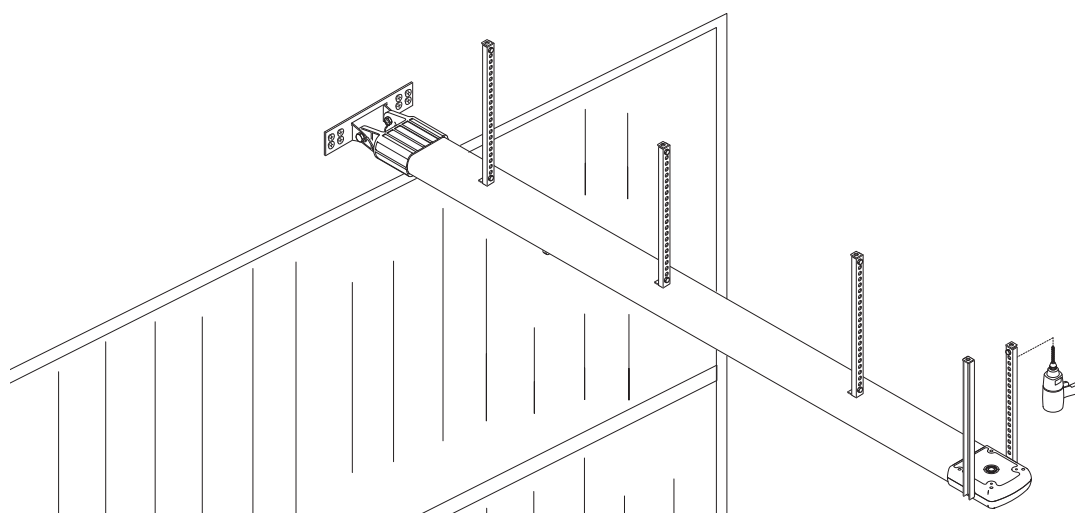
- 1) Fasten the slide bar to the centre of the door opening using suitable bolts. .
Raise the bar and position it horizontally to detect the distance from the ceiling to help you choose the type of fastening.



- 2) If the angle-rods are not enough, cut the rods to the required length and fasten them to the ceiling.
N.B.: you can fasten additional rods or angle-rods to reinforce the bar (ref. item 119RIE024 and 119RIE028) ..

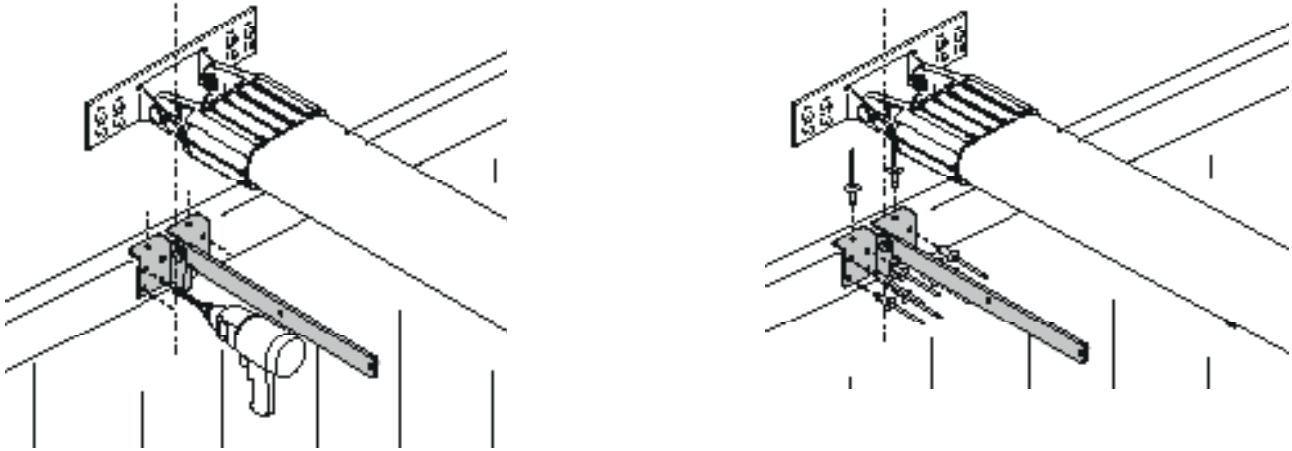


- 3) Fasten the slide bar to the ceiling using suitable bolts. .

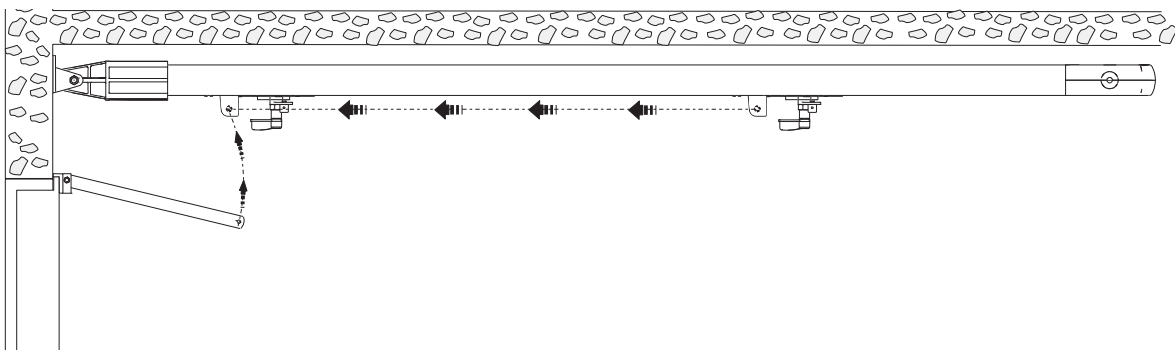
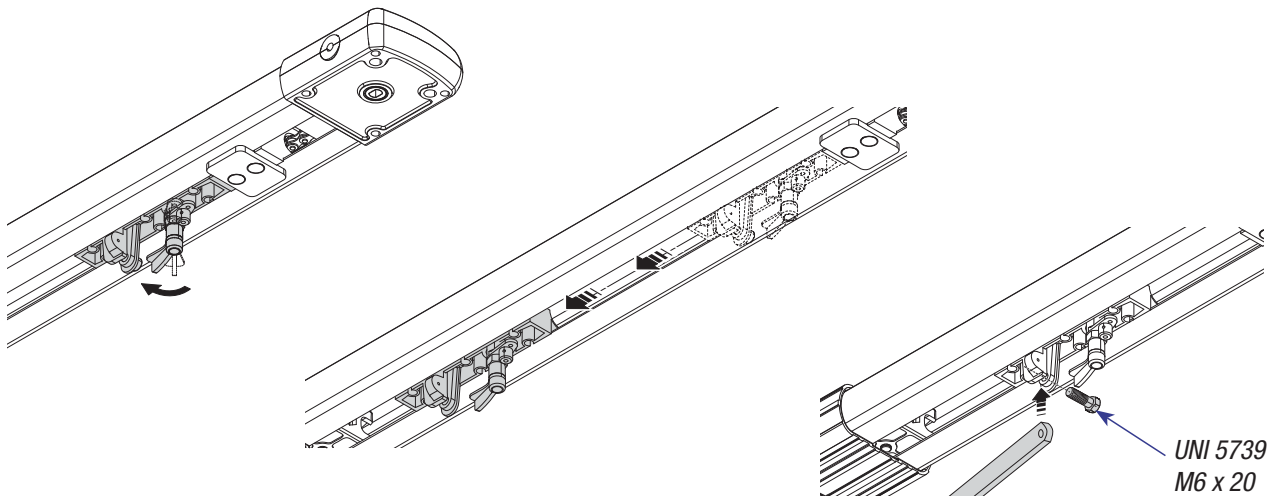


5.7 Fastening the transmission arm to the slide bar

1) Fasten the transmission arm to the door's upper crossbeam, perpendicularly to the slide bar. Use the supplied rivets or any other suitable screws.



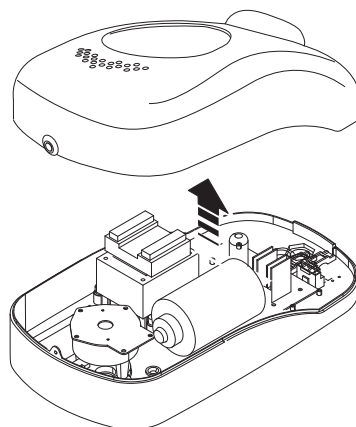
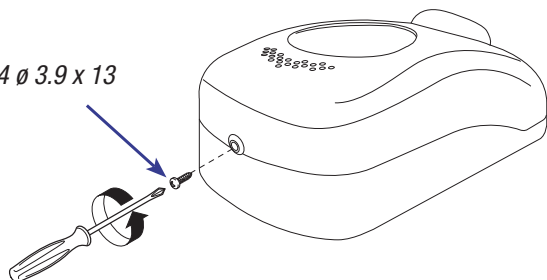
2) Release the drag-sled by turning the small tab clockwise. Move the sled towards the door and hook it up to the transmission arm using the supplied nut.



5.8 Fastening the gearmotor to the transmission bar

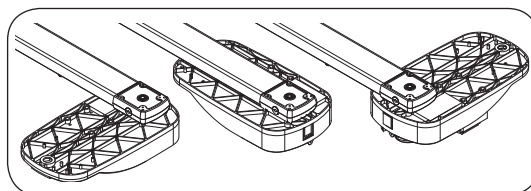
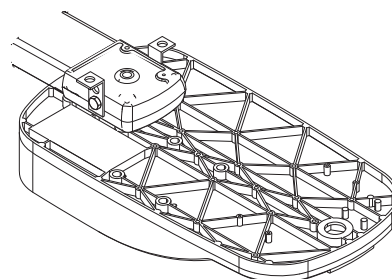
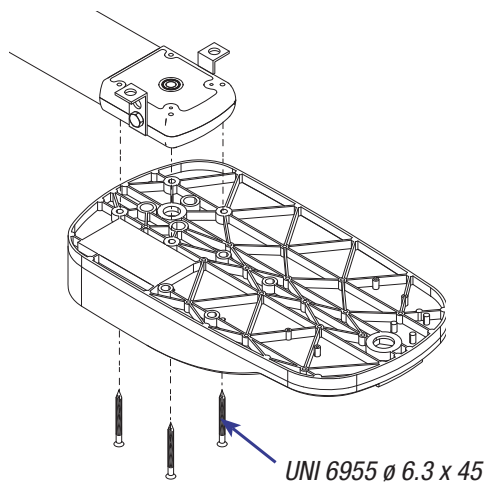
1) Remove the motor assembly's container cover.

UNI 6954 \varnothing 3.9 x 13

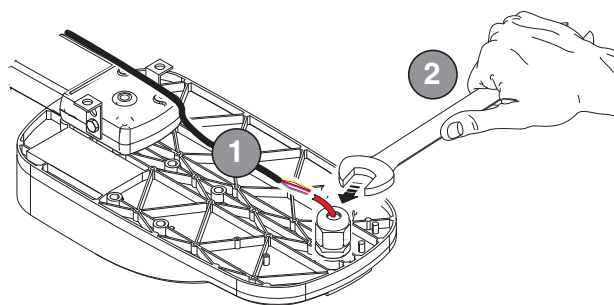
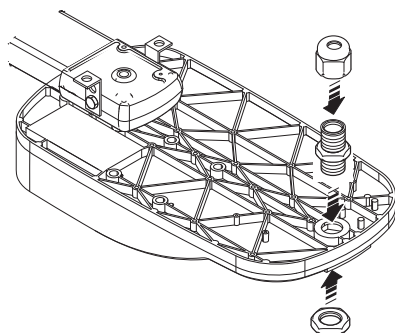


2) Fasten the motor assembly to the bar support using the three supplied screws.

N.B.: if necessary, the group can be fastened in three other perpendicular positions, as shown in the drawing.



3) Place the cable gland into the hole through which will pass all of the electrical connection cables.



6 Electronic command card

6.1 General description

The command card is 230 V powered on terminals L-N, 50 / 60 Hz frequency.

the command devices and accessories are powered by 24 V. Moreover, accessories must not exceed 40 W overall.

The card controls a duty lamp to illuminate the driving/parking area. Each time the door opens, it stays on for 2 minutes and 30 seconds.

You can connect the 001V0670 card so the operator can work on emergency battery mode (see specific literature).

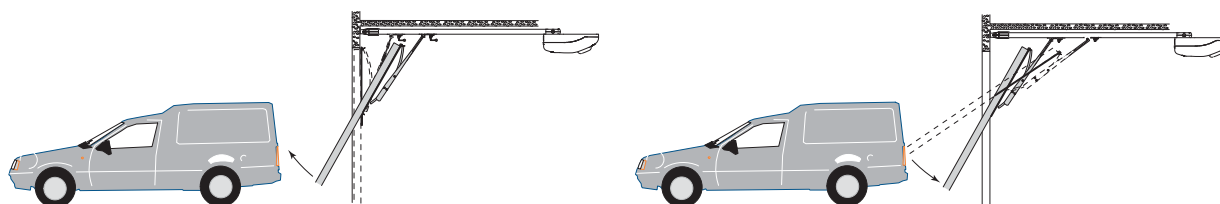
The card automatically manages the following functions:

- 1) amperometric obstacle detection when opening, when closing and during the slowing down phase (sensitivity is adjustable);
- 2) automatic closing (adjustable);
- 3) working time (80 s);
- 4) open-stop-close stop command.
- 5) reopening during closing stage of the photocells.

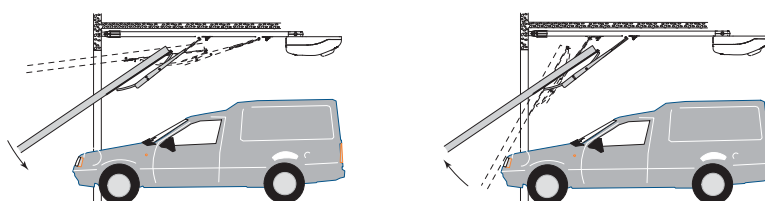
FUSES	
Protection	Fuse type
Motor	A 8
Electronic board (line)	A 1.6
Accessories	A 3.15
Command devices (control unit)	315 mA
Duty	
LAMPS	E14 - 24 V - 25 W

Detail of electronic obstacle detection

when opening: it inverts the direction of travel until fully closed.

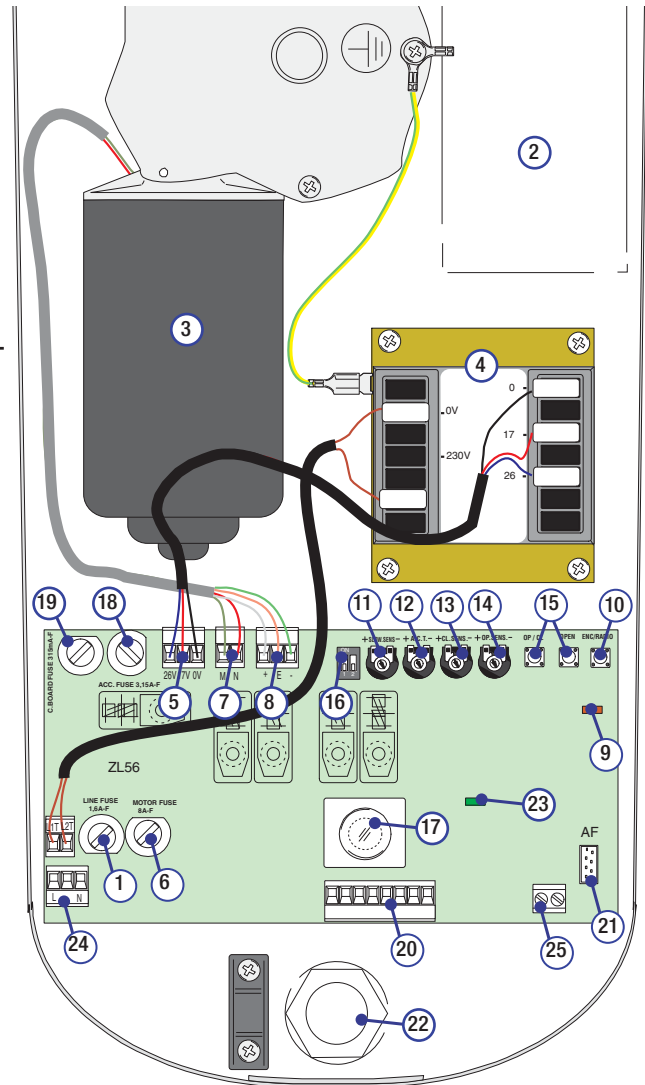


when closing: it inverts the direction of travel until fully open. **Warning!** After inverting consecutively three times, the door stays open excluding the automatic closing: to close, use the transmitter of closing button.



6.2 Main components

1. 1.6 A line fuse
2. Space for emergency batteries
3. Gearmotor
4. Transformer
5. Transformer connection terminals
6. 8 A motor fuse
7. Gearmotor connection terminals
8. Encoder connection terminals
9. Radio and encoder programming led signal light
10. Button to memorise the radio code
11. Trimmer SLOW.SENS: adjusting the slow-down amperometric sensitivity
12. Trimmer A.C.T.: adjusts automatic closing time
13. CL.SENS Trimmer : adjusts amperometric closing sensitivity
14. OP.SENS Trimmer : adjusts amperometric opening sensitivity
15. Command buttons for adjusting endpoints
16. Functions selector switch
17. Duty lamps
18. Accessories fuses 3.15 A
19. Control unit fuse 3.15 mA
20. Terminals for connecting command accessories and devices
21. AF radiofrequency card snap-in plug
22. Hole for electrical cables to pass through
23. Led power-on warning light
24. Power supply terminals
25. Radio antennae terminals

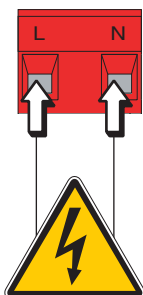
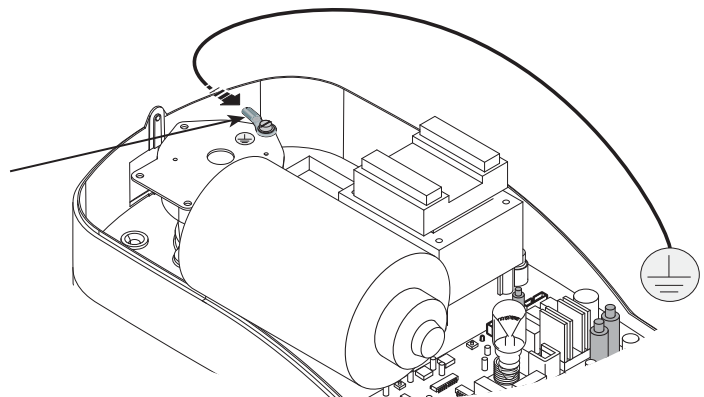


Warning! Before acting on the equipment, cut off the main power supply and disconnect the emergency batteries (if present).

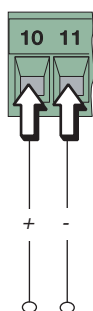
6.2 Electrical connections

Power source and accessories

Eyelet endpiece for ground connection.

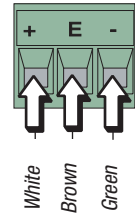
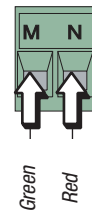
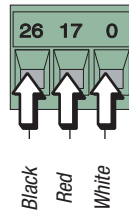
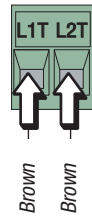
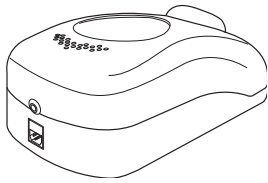


Powered by
230 V AC -
50/60 Hz

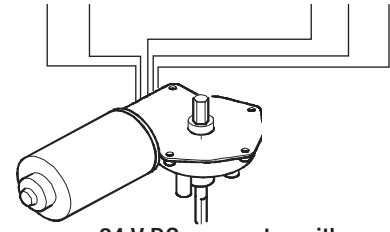
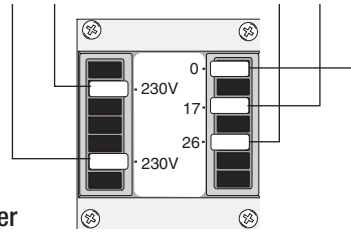


Terminals for powering accessories:
- for 24 V AC at normal operation;
- when emergency batteries are operating;
Overall allowed power: 40 W.

Gearmotor, encoder and transformer (only for possible maintenance actions)

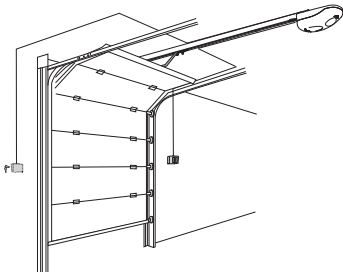


Transformer



24 V DC gearmotor with encoder

Command and safety devices



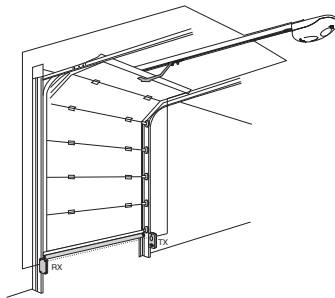
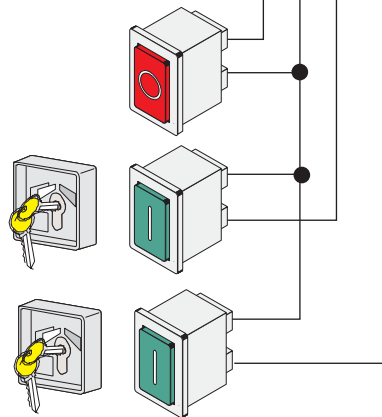
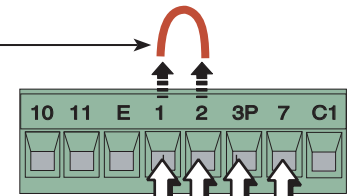
Stop button (NC contact) - Halts movement, and excluded automatic closing. To restore the operator, press a command button or a radio command button.

Key switch selector and/or partial opening buttons (NO contact)- Partial opening devices.

Key-switch selector and/or command buttons (NO contact) - Opening and closing devices

Command mode: open-stop-close-stop

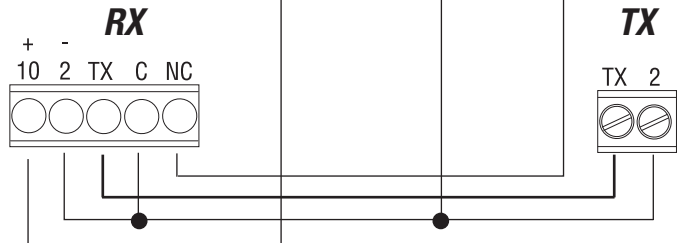
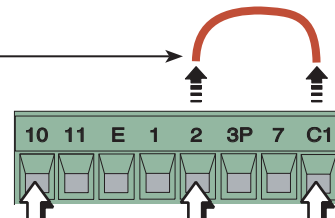
If any device is connected, remove the bridge.



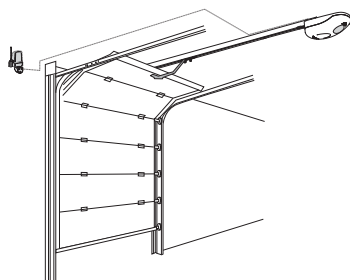
(NC) "open when closing" contact - Photocells input, sensitive edges and other devices compliant with EN 12978 regulatory standards.

When opening, intervention of the device causes the inversion of the motor until fully open.

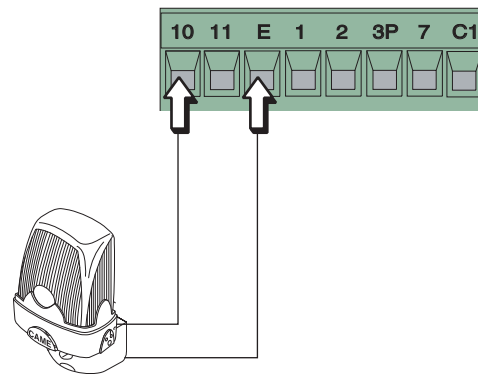
If any device is connected, remove the bridge.



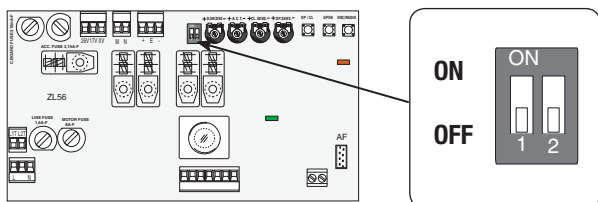
Warning devices



Movement Flasher (contact rated for: 24 V - 25 W Max.) - Flashes in the opening and closing phases

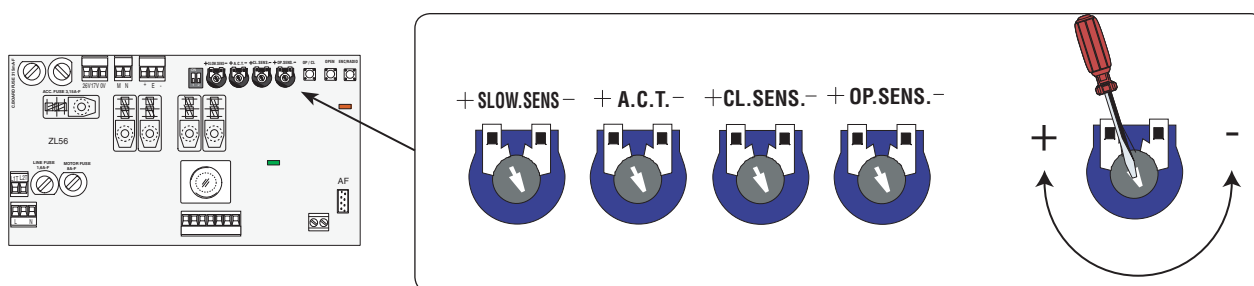


6.3 Selecting functions



- 1 ON - It activates the opening and closing endpoint adjusting procedure and the programming procedure for starting slow-down when opening.
- 2 ON - It activates the adjusting partial-opening and the programming procedure and the procedure for endpoint slow-down when closing.

6.4 Settings



Trimmer SLOW.SENS. = This adjusts the amperometric sensitivity that controls the force developed by the motor during the **slow-down phases** ; if the force exceeds the adjusted level, the system intervenes and inverts the direction of travel.

Trimmer A.C.T. = Adjusts opening waiting time. The door closes automatically once this time-frame has elapsed. The waiting time may be adjusted from 1 second to 120 seconds. Setting it to the minimum, excludes automatic closing.

) **CL.SENS. Trimmer.** = Adjusts the amperometric sensitivity which controls the force developed by the motor during the **closing movement** ; if the force exceeds the adjusted level, the system intervenes and inverts the direction of travel.

Trimmer OP.SENS. = Adjusts the amperometric sensitivity which controls the force developed by the motor during the **opening movement** ; if the force exceeds the adjusted level, the system intervenes and inverts the direction of travel.

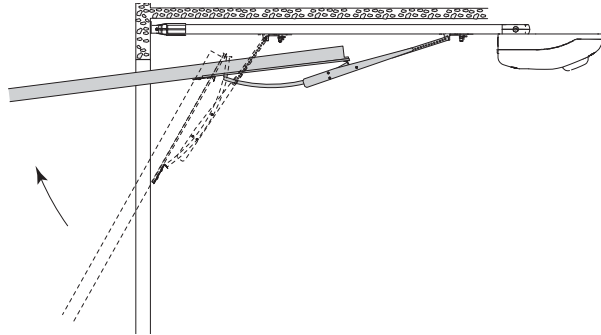
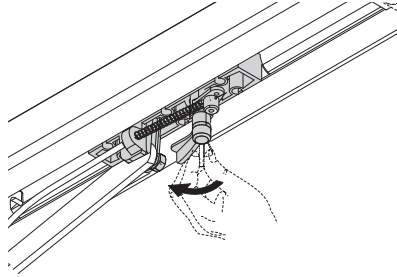
7 Programming

7.1 Programming the closing / opening endpoints

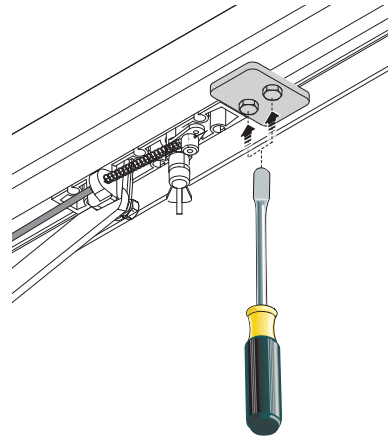
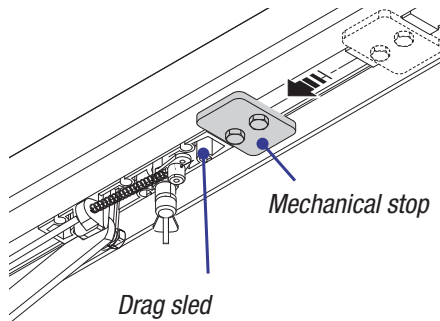
IMPORTANT: before proceeding with endpoint programming, read instructions carefully. Follow the order of the instructions below otherwise the memorisation will not work.

1- Preliminary operations

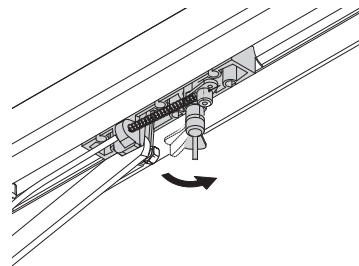
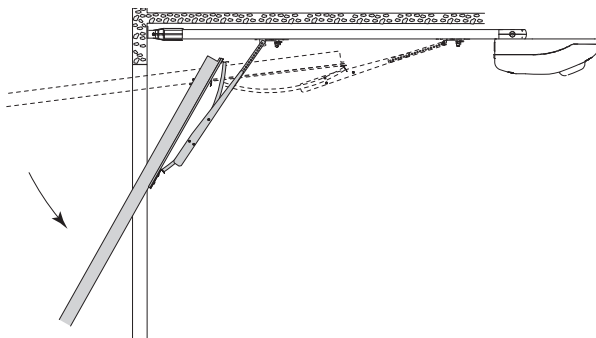
- Release the operator and open the door completely.



- With door fully open, fasten the mechanical stop to the drag sled.



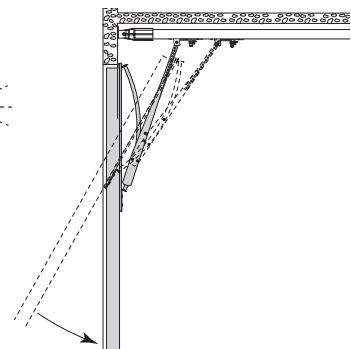
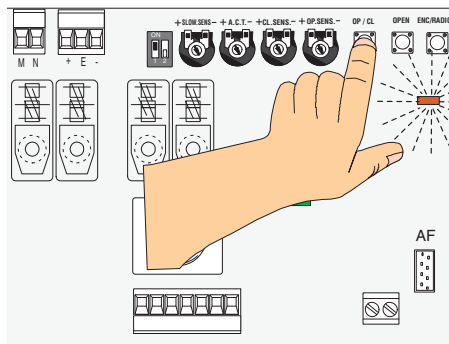
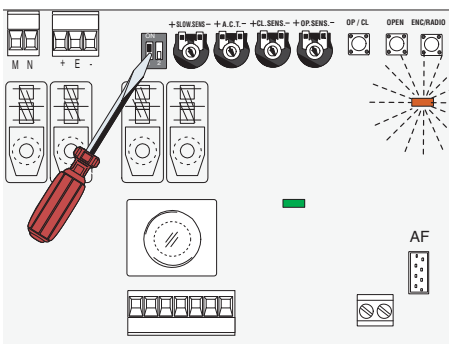
- Manually close the door until the release is re-attached.



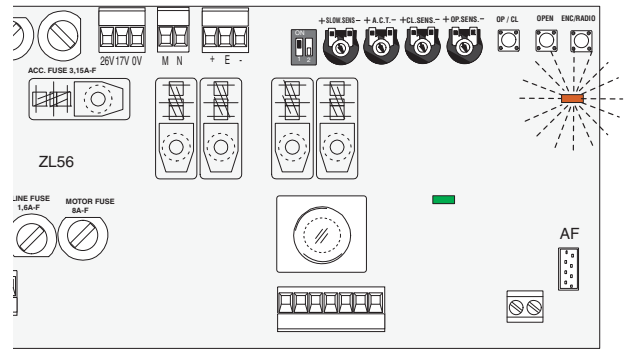
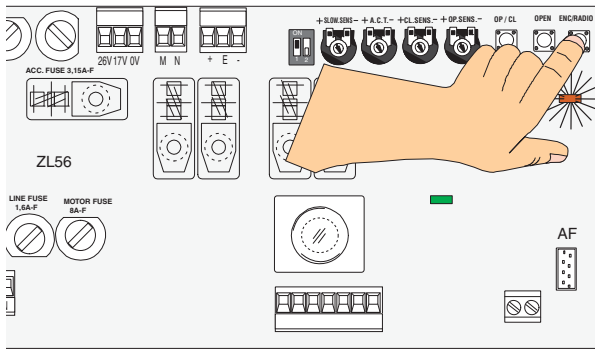
2 - Programming the closing endpoint

- Set dip-switch 1 to ON (the programming led signal light will flash).

Press and keep pressed the OP/CL button until the door reaches the closing strike plate...

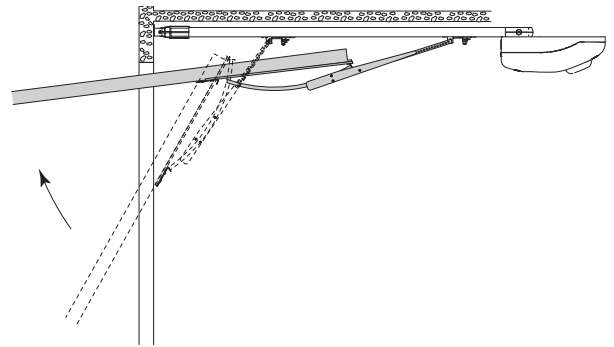
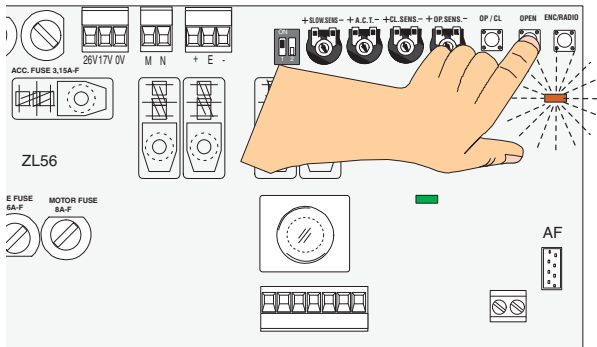


... then press the ENC/RADIO button until the led signal light stays lit for some seconds and then starts to flash again (the programming procedure is successfully completed).

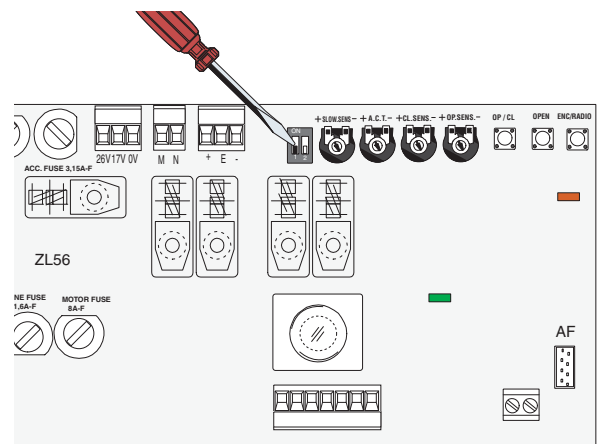
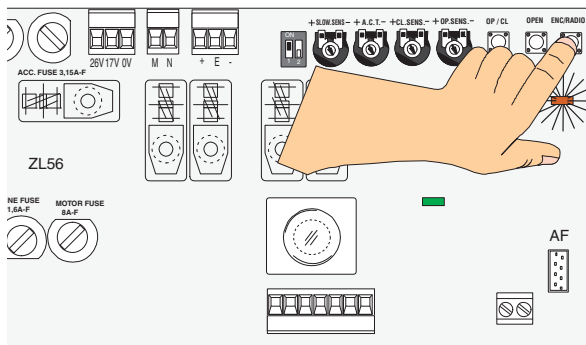


3 - Programming the opening endpoint

- Press and keep pressed the OPEN button until the door reaches the maximum opening point ...



then press the ENC/RADIO button until the led signal light stays on (the programming procedure is successfully finished).
Set dip-switch 1 back to OFF

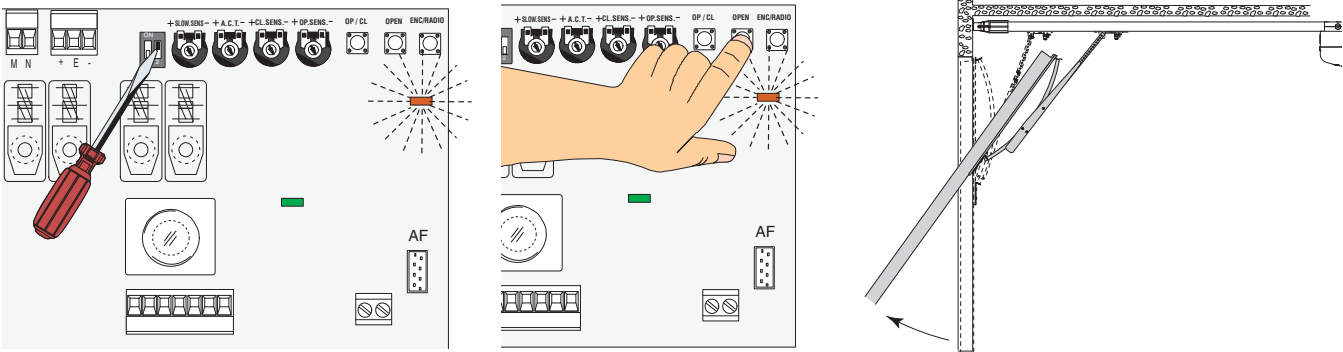


TEST

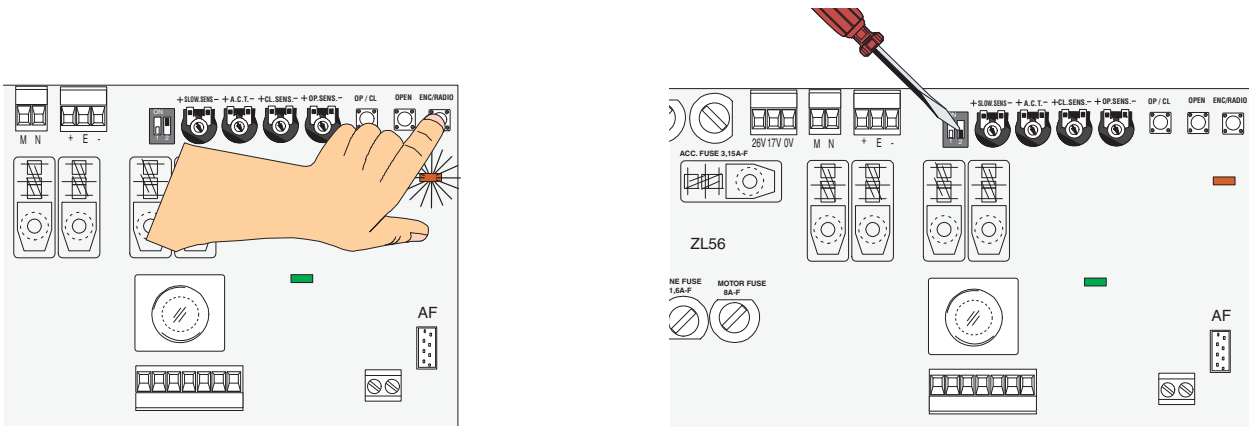
Use the OP/CL to command a closing and opening so as to check whether you have programmed properly.

7.2 Programming the partial opening

With door completely closed, position dip-switch 2 to ON (the led signal light will flash).
Press and keep pressed the OPEN button until the door reaches the required opening point.

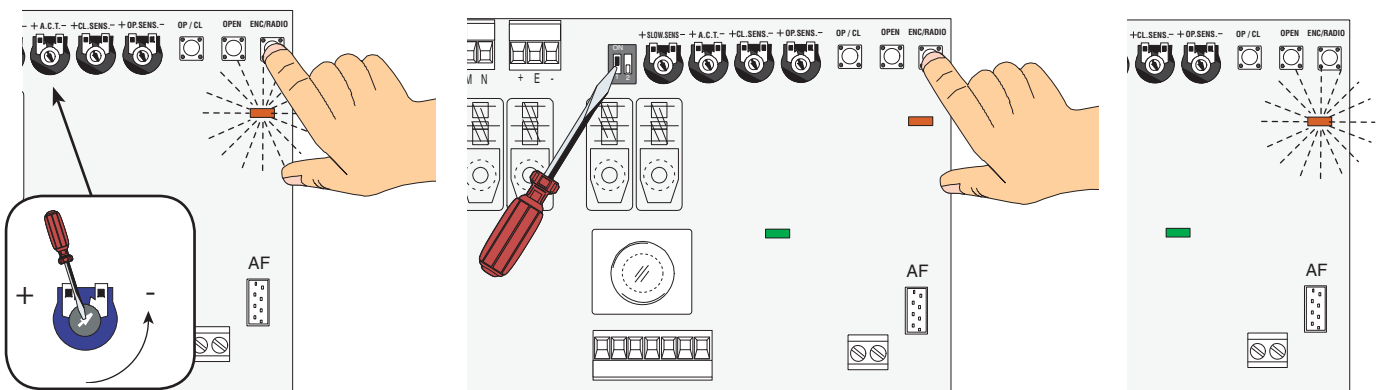


then press the ENC/RADIO button until the led signal light stays on (the programming procedure is successfully finished).
Set dip-switch 2 back to OFF.

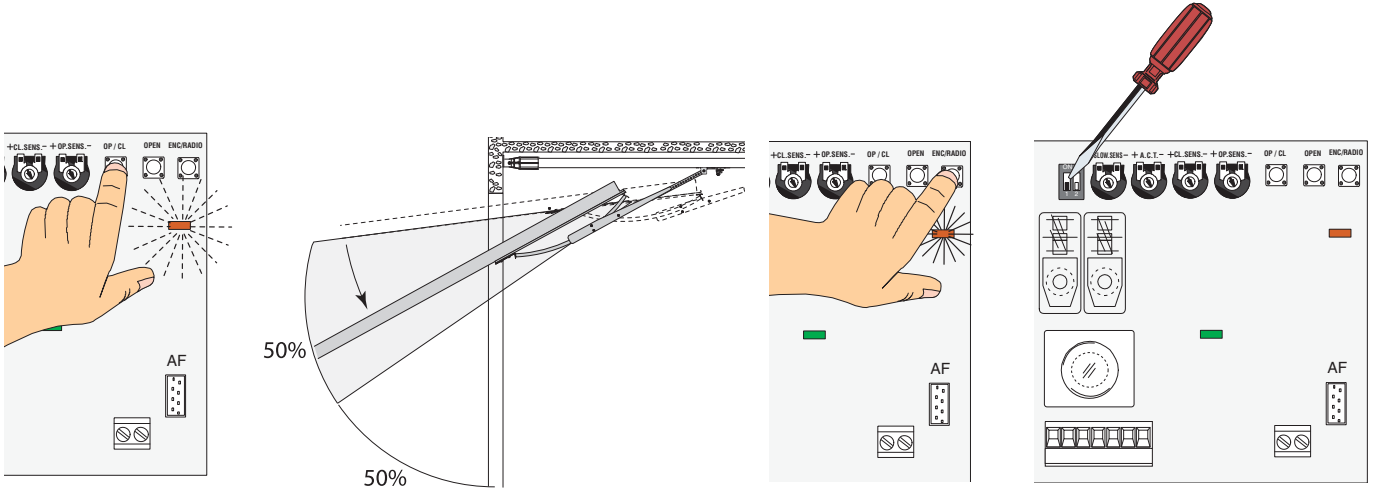


7.3 Programming the slow-start with door open. - MAX. 50% OF THE RUN-CYCLE -

N.B.: before programming, deactivate automatic closing by adjusting the A.C.T. trimmer to minimum.
With door completely open, press and keep pressed the ENC/RADIO button (the programming led signal light will flash quickly).
Position dip-switch 1 to ON (the led light turns off).
Release the ENC/RADIO button (the led light will flash slowly).

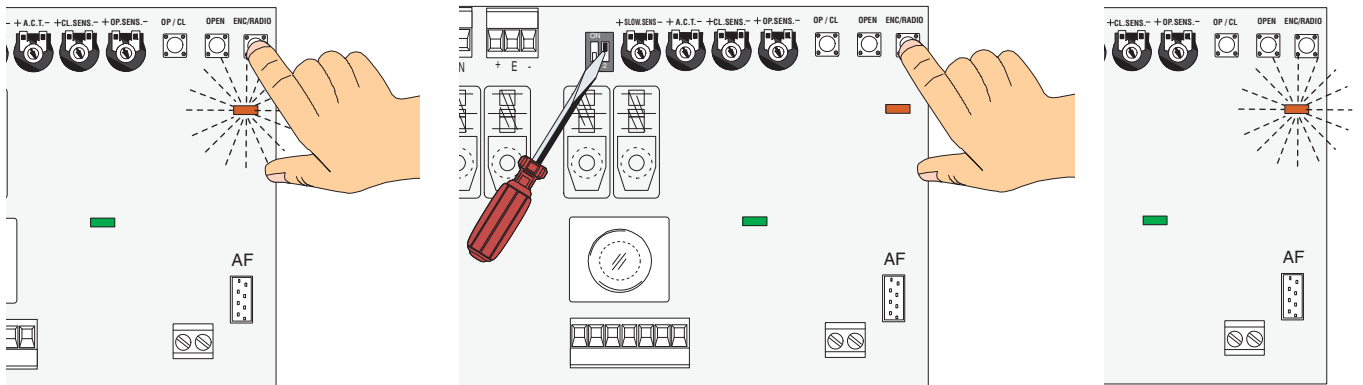


Press the OP/CL button until the door reaches the required slow-down point; then press the ENC/RADIO button until the led signal light stays on (the programming procedure is successfully finished).
Set dip-switch 1 back to OFF.

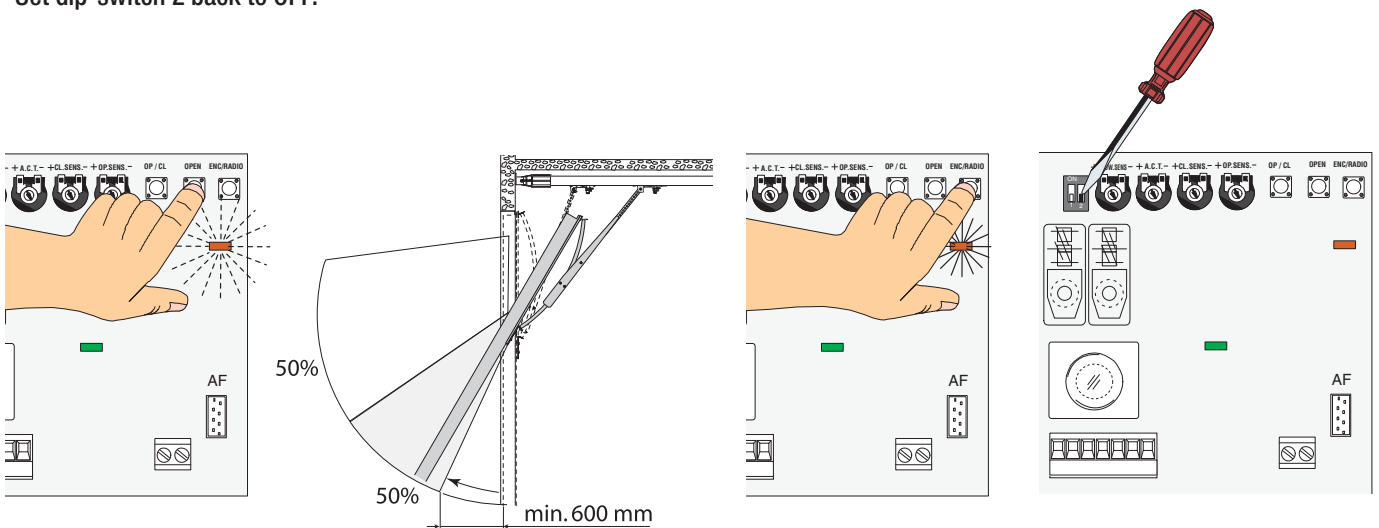


7.4 Programming closing slow-downs - MIN. 600 MM AWAY FROM THE STRIKE PLATE OR MAX. 50% OF THE RUN-CYCLE -

With door completely closed, press and keep pressed the ENC/RADIO button (the programming led signal light will flash quickly).
Position dip-switch 2 to ON (the led light turns off).
Release the ENC/RADIO button (the led light will flash slowly).



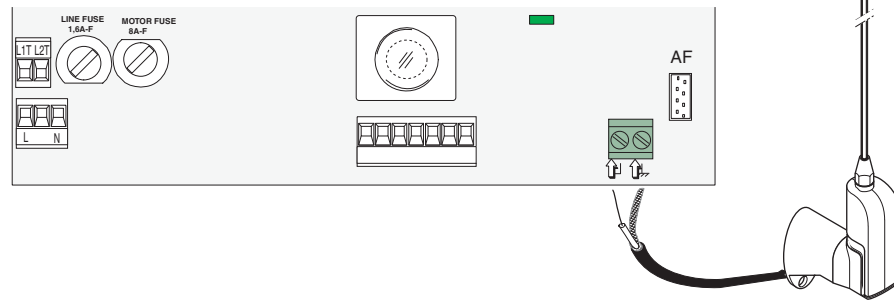
Keep pressed the OPEN button until the door reaches the required starting slow-down point; then press the ENC/RADIO button until the led signal light stays on (the programming procedure is successfully finished).
Set dip-switch 2 back to OFF.



8 Activating the radiocommand

1 - Antenna

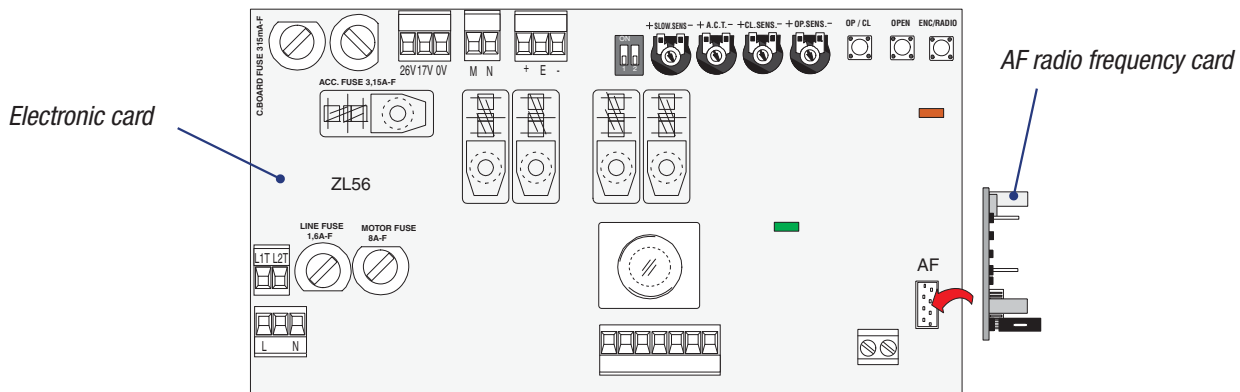
Connect the antenna with cable to the apposite terminals on the card.



2 - Radio-frequency card

Plug in the radio-frequency card onto the electronic board AFTER CUTTING OFF THE MAIN POWER SUPPLY (or disconnecting the emergency batteries).

N.B.: The electronic card recognises the radio-frequency card only when it is powered up.



3 - Transmitters

Warning! Up to a maximum of 24 transmitters with different codes can be memorised.

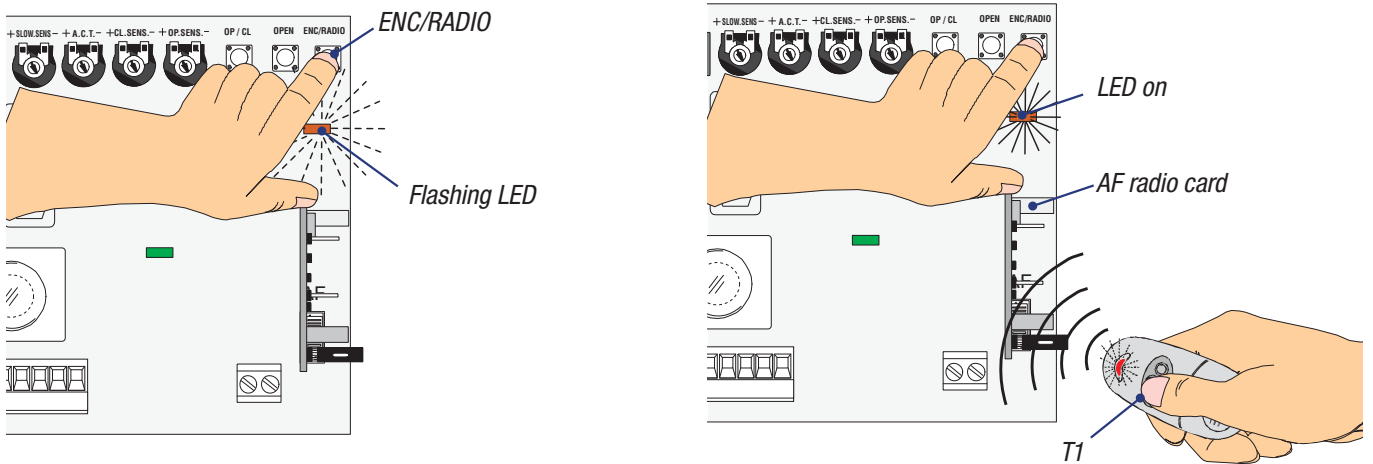
N.B.: each transmitter with different codes, may be duplicated for "n" number of transmitters (of the same series) excluding the ATOMO transmitter.

<p>AF43S</p> <p>TOP TOP-432A • TOP-434A</p> <p><i>see instructions on box</i></p> <p>TOP TOP-432NA • TOP-434NA TOP-432S</p> <p>ATOMO AT01 • AT02 • AT04</p> <p>TAM T432 • T434 • T438 TAM-432SA</p>	<p>TWIN TWIN2 • TWIN4</p> <p><i>in modalità TOP o TAM</i></p>	<p>AF43TW</p> <p>TWIN TWIN2 • TWIN4</p> <p><i>in Key-Block mode</i></p> <p><i>see instructions on box</i></p>
<p>AF150</p> <p>TFM T132 • T134 • T138 T152 • T154 • T158</p> <p><i>see instructions on box</i></p>	<p>AF30</p> <p>TOP TOP-302A • TOP-304A</p> <p><i>see instructions on box</i></p>	<p>AF40</p> <p>TOUCH TCH 4024 • TCH 4048</p> <p><i>see instructions on box</i></p>

4 - Memorising and cancelling radio users

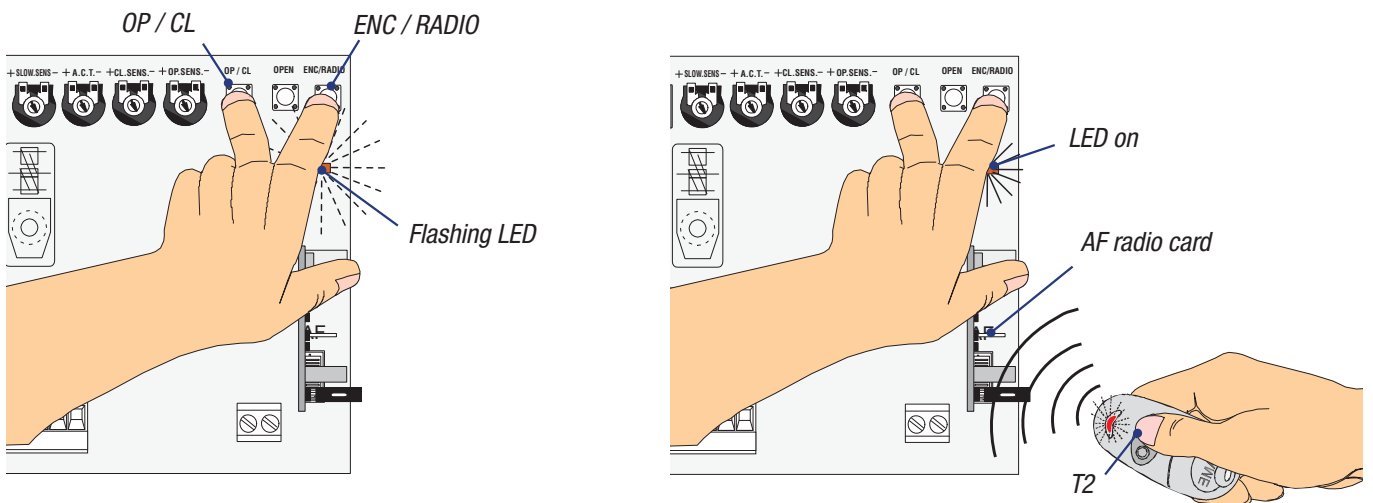
Activating the sequential (2-7) command

Keep button **ENC/RADIO** button pressed on the electronic card. The LED flashes ON and OFF.
Press the (T1) button on the transmitter you want to memorise. The LED will stay ON to confirm memorisation is OK.



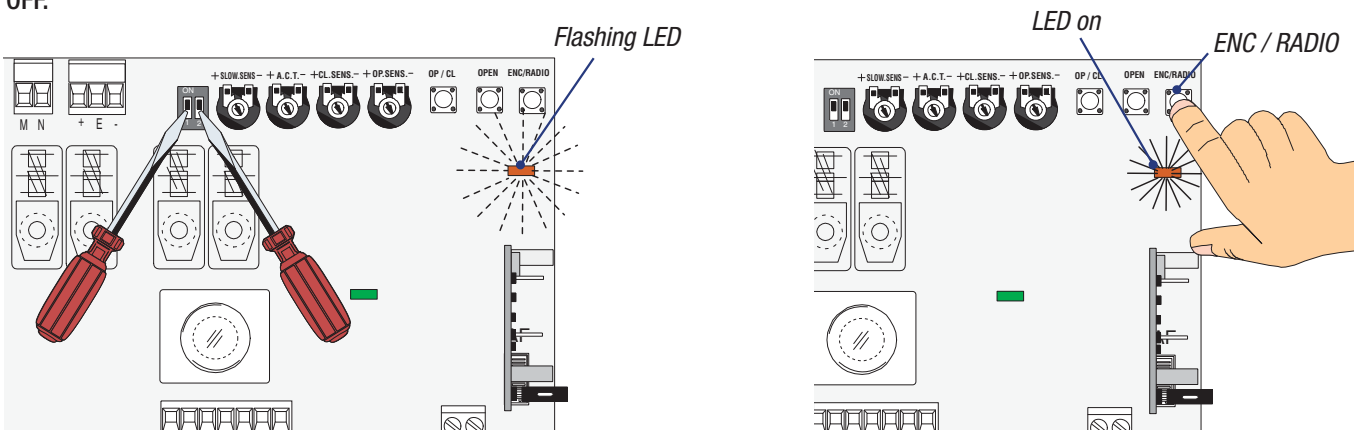
Activating the (2-3P) partial opening command

Keep button pressed first **ENC/RADIO** (The LED flashes ON and OFF) and then press the button **OP/CL** on the electronic card.
Press the (T2) button on the transmitter you want to memorise. The LED will stay ON to confirm memorisation is OK.



Cancelling all radio users on memory

Position the dip switches **1 and 2** to **ON** (the led warning light starts flashing), keep the **ENC/RADIO** button pressed for 5 seconds (the led lights starts flashing quickly and will stay on to let you know cancellation was successful). Reposition the dip switch to **OFF**.



9 Safety instructions

Important general safety instructions

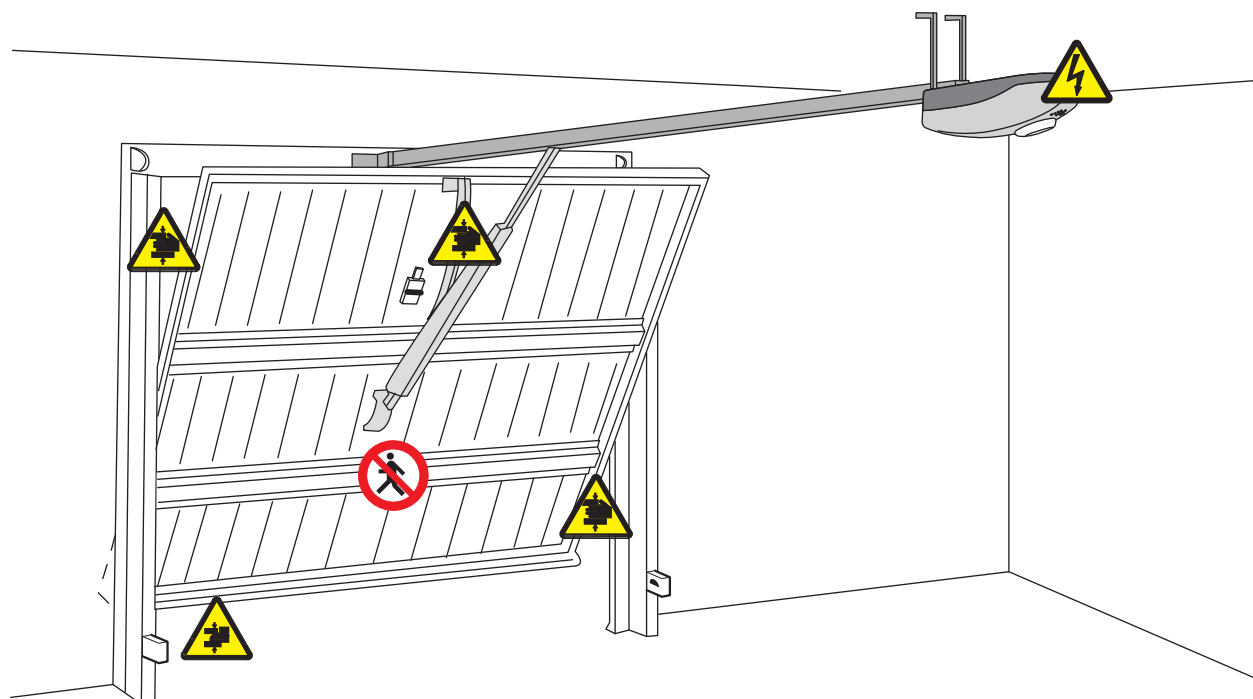
This product is only intended to be used for the purpose it was designed. Any other use is therefore improper and dangerous. The manufacturer is not liable for any damage caused by improper, wrongful or unreasonable use.

Work well away from the gate hinges or mechanical moving parts. Stay out of the working range of the moving operator.

Do not oppose the movement of the operator as this may result in danger.

Do not allow children to play or loiter within the working range of the operator. Keep transmitters and any other command devices away from children, to prevent the operator from being activated by mistake.

Immediately stop using the operator if any anomaly is manifested.



Danger of hand crushing



Danger high voltage



Danger of foot crushing



Transit forbidden during operation

10 Maintenance

10.1 Periodic maintenance

 Periodic servicing **a cura dell'utente** are wiping clean the photocell's glass front pieces and checking for proper working state of safety devices and that the operator is free of any obstacles.

We also suggest to periodically check the state of lubrication and tightness of screws on the operator.

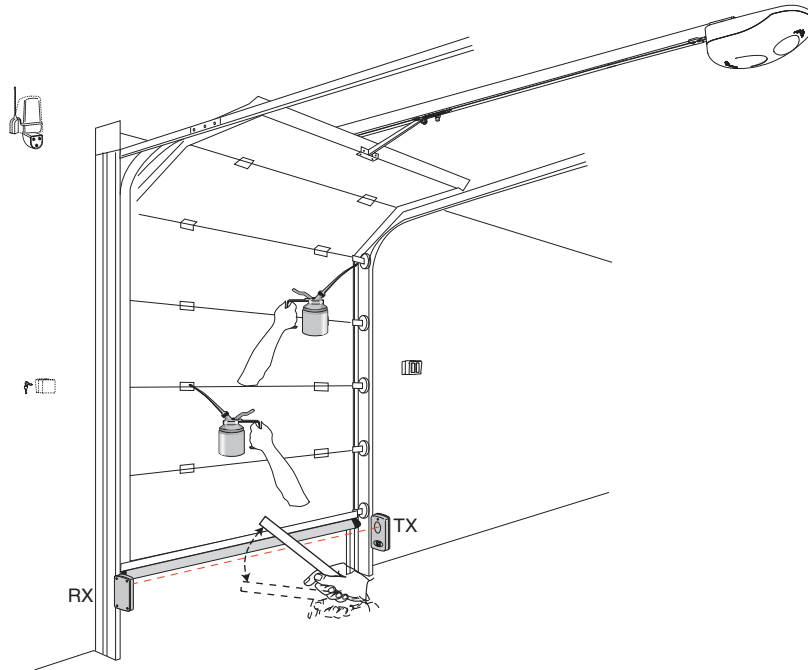
To check the efficiency of the safety devices, wave an object in front of the photocells during closing cycle, if the operator inverts or halts its movement, the photocells are working properly. This is the only maintenance job that can be done with the door when it is powered up.

Before performing any job we highly recommend to cut off the main power, to prevent any dangerous situations from possible accidental movements by the door.

-To wipe clean the photocell glass, use a slightly damp cloth, and do not use any solvents or other chemical products that may ruin the device.

Lubricate all joints with grease, any time strange vibrations or noises are manifested, as shown below.

-Check that the photocells are free of any vegetation blocking them, and that there are no obstacles to the free movement of the door.




10.2 Troubleshooting

PROBLEM	REFERENCE	CHECK
The operator neither opens nor closes	1-3	1 - Check the power supply and line fuses.
The operator opens but does not shut.	4-10-23	3 - The NC (1-2) safety contact is open
The operator closes but does not open	23	4 - The NC (2-1) safety contact is open
The operator does not carry out the automatic closing	9-10	5 - The NC safety contacts are open
The radio-control does not work	12-14	6 - Deactivate the obstacle detection function via dip switch
The operator is too powerful	16	9 - Check that the A.C.T. trimmer is not positioned on minimum level.
The operator is too weak.	16-17-23-24	10 - 12 - Check for the proper direction of travel
The operator inverts the direction of travel	16-17-23-24	11 - Command button NC instead of NO (2-7)
Only one radio-control works.	18	12 - Check bridging on AF, cut off/power up again
The photocell does not work	4-19	14 - Memorise the radio code again
The led warning light flashes quickly	4-25-26	16 - Adjust sensitivity via TRIMMER
The led warning light stays lit.	11	17 - Remove any mechanical friction
The power-on led warning light is off.	1-3	18 - Insert or duplicate the same code in all of the radio commands
The operator does not run on the emergency batteries	6-21-22	19 - Check working order of the photocell
The operator inverts the direction of travel when reaching full open / full closed position	10-17-23	21 - Check the batteries
The operator is slow when starting	17-23-24	22 - Respect the polarities of the photocells and accessories
		23 - Check balancing of the overhead door
		24 - Check belt / chain tightness
		25 - Encoder malfunction cut off and power up the card again
		26 - Wrong Encoder connection: check connections

Periodic maintenance log to be done by users (every 6 months)

Date	Notes	Signature

10.3 Extraordinary maintenance

 The following table is used to log extraordinary maintenance, repair and improvement jobs done by the specialised external firms.
 N.B. All extraordinary maintenance jobs must be carried out by skilled technicians.

Extraordinary maintenance log

Installer's stamp	Product name
	Date of job
	Technician's signature
	Customer's signature
Job carried out _____ _____ _____	

Installer's stamp	Product name
	Date of job
	Technician's signature
	Customer's signature
Job carried out _____ _____ _____	

Installer's stamp	Product name
	Date of job
	Technician's signature
	Customer's signature
Job carried out _____ _____ _____	

Installer's stamp	Product name
	Date of job
	Technician's signature
	Customer's signature
Job carried out _____ _____ _____	

Installer's stamp	Product name
	Date of job
	Technician's signature
	Customer's signature
Job carried out _____ _____ _____	

11 Dismantling and disposal

 On its premises, CAME Cancelli Automatici S.p.A. implements a certified Environmental Management System in compliance with the UNI EN ISO 14001 standard to ensure environmental protection.

Please help us to safeguard the environment. At CAME we believe this to be one of the fundamentals in its market operations and development strategies. Just follow these short disposal instructions:

DISPOSING OF THE PACKAGING

The components of the packaging (i.e. cardboard, plastic, etc.) are solid urban waste and may be disposed of without much trouble, simply by separating them for recycling.

Before proceeding it is always a good idea to check your local legislation on the matter.

DO NOT DISPOSE OF IN NATURE!

PRODUCT DISPOSAL

Our products are made up of various materials. Most of these (aluminium, plastic, iron, electric cables) are solid urban waste. These can be disposed of at local solid waste management dumps or recycling plants.

Other components (i.e. electronic cards, remote control batteries, etc.) may contain hazardous substances.

These must therefore be handed over the specially authorised disposal firms.

Before proceeding it is always a good idea to check your local legislation on the matter.

DO NOT DISPOSE OF IN NATURE!



English - Manual code **119ET97** ver. **3** 05/2014 © CAME cancelli automatici s.p.a.
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EN • For any further information on company, products and assistance in your language:
FR • Pour toute autre information sur la société, les produits et l'assistance dans votre langue :
DE • Weitere Infos über Unternehmen, Produkte und Kundendienst bei:
ES • Por cualquier información sobre la empresa, los productos y asistencia en su idioma:
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HU • A vállalatra, termékeire és a műszaki szervizre vonatkozó minden további információért az Ön nyelvén:
HR • Za sve dodatne informacije o poduzeću, proizvodima i tehničkoj podršci:
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