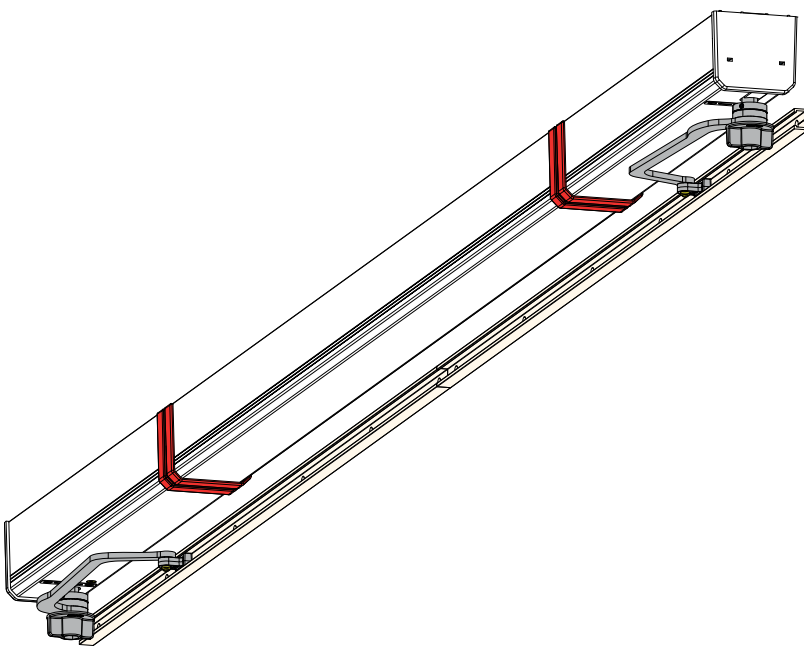


SHUTTER OPERATOR

FA00135-EN



INSTALLATION MANUAL VLR01DX - VLR01SX - VLR02



WARNING!
important safety instructions for people:
READ CAREFULLY!



PREMISE

- 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 OPERATION MANUALS THAT COME WITH THE DEVICE.

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 CLOSSES PROPERLY. MAKE SURE YOU HAVE SUITABLE MECHANICAL STOPS
- IF THE OPERATOR IS TO BE INSTALLED AT A HEIGHT OF LESS THAN 2.5 M FROM THE GROUND OR OTHER ACCESS LEVEL, MAKE SURE YOU HAVE ANY NECESSARY PROTECTIONS AND/OR WARNINGS IN PLACE
- MAKE SURE THAT THE OPENING AUTOMATED DOOR OR GATE CANNOT ENTRAP PEOPLE AGAINST THE FIXED PARTS OF THE OPERATOR
- DO NOT FIT UPSIDE DOWN OR ONTO ELEMENTS THAT COULD BEND. IF NECESSARY, ADD SUITABLE REINFORCEMENTS TO THE ANCHORING POINTS
- DO NOT INSTALL DOOR OR GATE LEAVES ON TILTED SURFACES
- MAKE SURE ANY SPRINKLER SYSTEMS CANNOT WET THE OPERATOR FROM THE GROUND UP
- MAKE SURE THE TEMPERATURE RANGE SHOWN ON THE PRODUCT LITERATURE IS SUITABLE TO THE CLIMATE WHERE IT WILL BE INSTALLED
- FOLLOW ALL INSTRUCTIONS AS IMPROPER INSTALLATION MAY RESULT IN SERIOUS BODILY INJURY

INSTALLING

- SUITABLY SECTION OFF AND DEMARCATÉ THE ENTIRE INSTALLATION SITE TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE AREA, ESPECIALLY MINORS AND CHILDREN
- BE CAREFUL WHEN HANDLING OPERATORS THAT WEIGH OVER 20 KG. IF NEED BE, USE PROPER SAFETY HOISTING EQUIPMENT
- ALL OPENING COMMANDS (BUTTONS, KEY SWITCHES, MAGNETIC READERS, ETC.) MUST BE INSTALLED AT LEAST 1.85 M FROM THE

EDGE OF THE MANOEUVRING AREA, OR WHERE THEY CANNOT BE REACHED FROM THE OUTSIDE THROUGH THE DEVICE. ALSO, ANY DIRECT COMMANDS (WHETHER BUTTONS, TOUCH PANELS, AND SO ON) MUST BE INSTALLED AT LEAST 1.5 M FROM THE GROUND AND MUST NOT BE REACHABLE BY UNAUTHORIZED PERSONS

- ALL MAINTAINED ACTION COMMANDS, MUST BE FITTED IN PLACES FROM WHICH THE MOVING GATE LEAVES AND TRANSIT AND DRIVING AREAS ARE VISIBLE
- APPLY, IF MISSING, A PERMANENT SIGN SHOWING THE POSITION OF THE RELEASE DEVICE
- BEFORE DELIVERING TO THE USERS, MAKE SURE THE SYSTEM IS EN 12453 STANDARD COMPLIANT (REGARDING IMPACT FORCES), AND ALSO MAKE SURE THE SYSTEM HAS BEEN PROPERLY ADJUSTED AND THAT ANY SAFETY, PROTECTION AND MANUAL RELEASE DEVICES ARE WORKING PROPERLY
- APPLY WARNING SIGNS WHERE NECESSARY AND IN A VISIBLE PLACE.

SPECIAL INSTRUCTIONS AND RECOMMENDATIONS FOR USERS

- KEEP GARAGE-DOOR OPERATION AREAS CLEAN AND FREE OF ANY OBSTRUCTIONS. CHECK THAT THERE ARE NO OBSTRUCTIONS WITHIN THE OPERATING RANGE OF THE OPERATOR
- DO NOT ALLOW CHILDREN TO PLAY WITH FIXED CONTROLS, OR TO LOITER IN THE OPERATOR'S MANOEUVRING AREA.
- THIS APPARATUS IS NOT FOR PEOPLE (INCLUDING CHILDREN) WITH PHYSICAL, MENTAL AND SENSORY ISSUES, OR EVEN ONES WITHOUT ANY EXPERIENCE, PROVIDED THIS HAPPENS UNDER CLOSE SUPERVISION OR ONCE THEY HAVE BEEN PROPERLY INSTRUCTED TO USE THE APPARATUS SAFELY AND TO THE POTENTIAL HAZARDS INVOLVED.

KEEP ANY REMOTE CONTROL TRANSMITTERS OR ANY OTHER COMMAND DEVICE AWAY FROM CHILDREN, TO PREVENT THE OPERATOR FROM BEING ACCIDENTALLY ACTIVATED.

- FREQUENTLY CHECK THE SYSTEM FOR ANY MALFUNCTIONS OR SIGNS OF WEAR AND TEAR OR DAMAGE TO THE MOVING STRUCTURES, TO THE COMPONENT PARTS, ALL ANCHORING POINTS, INCLUDING CABLES AND ANY ACCESSIBLE CONNECTIONS. KEEP ANY HINGES, MOVING JOINTS AND SLIDE RAILS PROPERLY LUBRICATED
- IF REPAIRS OR MODIFICATIONS ARE REQUIRED TO THE SYS-

TEM, 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.

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 THE DOOR AT ANY TIME AND WITHOUT WARNING • ALWAYS CUT OFF THE MAINS POWER SUPPLY BEFORE PERFORMING ANY MAINTENANCE OR CLEANING.

ADDITIONAL INSTRUCTIONS AND RECOMMENDATIONS FOR EVERYONE

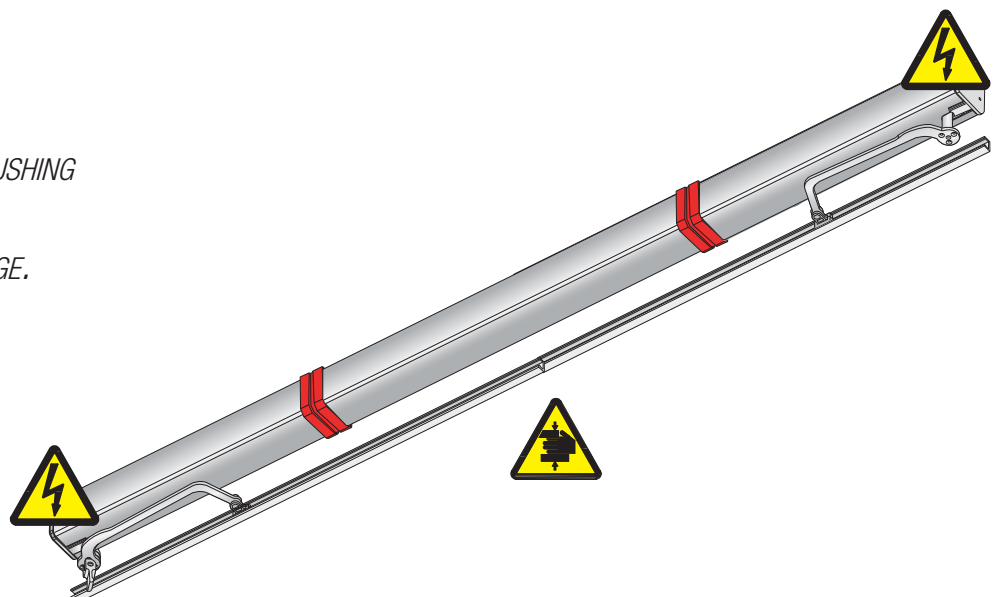
- KEEP CLEAR OF HINGES AND MECHANICAL MOVING PARTS
- DO NOT ENTER THE OPERATOR'S AREA OF OPERATION WHEN IT IS MOVING
- DO NOT COUNTER THE OPERATOR'S MOVEMENT AS THIS COULD RESULT IN DANGEROUS SITUATIONS
- ALWAYS PAY SPECIAL ATTENTION TO ANY DANGEROUS POINTS, WHICH HAVE TO BE LABELED WITH SPECIFIC PICTOGRAMS AND/OR BLACK AND YELLOW STRIPES
- WHEN USING A SELECTOR SWITCH OR



DANGER OF HAND CRUSHING



DANGER! HIGH VOLTAGE.



KEY

-  This symbol shows which parts to read carefully.
-  This symbol shows the parts which describe safety issues.
-  This symbol indicates what should be communicated to users.
- All measurements, unless otherwise stated, are expressed in millimeters.

REFERENCE REGULATIONS

CAME S.p.A. is certified for its ISO 9001 quality and ISO 14001 environmental management systems.
This product complies with the current regulations mentioned in the declaration of conformity.

DESCRIPTION

This product has been designed and built by CAME S.p.A. in compliance with current legal safety standards.
The operator is composed of a part made of cast aluminium inside of which works the irreversible gearmotor plus an aluminium casing.

The Sipario

The operators:

- 001VLR01DX** RIGHT-HAND irreversible OPERATOR for controlling one-leaf swing shutters, complete with control board and transmission-arm guide.
- 001VLR01SX** LEFT-HAND irreversible OPERATOR for controlling one-leaf swing shutters, complete with control board and transmission-arm guide.
- 001VLR02** Irreversible operator for controlling two-leaf swing shutters, complete with control board and transmission-arm guides.

The transmission arms:

- 001VLR07DX** RIGHT-HAND curved transmission arm for single-panel shutters.
- 001VLR07SX** LEFT-HAND curved transmission arm for single-panel shutters.
- 001VLR08DX** Adjustable RIGHT-HAND curved transmission arm for shutters with single- or double-jointed panels.
- 001VLR08SX** Adjustable LEFT-HAND curved transmission arm for shutters with single- or double-jointed panels.
- 001VLR09DX** Adjustable RIGHT-HAND augmented curved transmission arm for shutters with double-jointed panels.
- 001VLR09SX** Adjustable LEFT-HAND augmented curved transmission arm for shutters with double-jointed panels.
- 001VLR10DX** RIGHT-HAND augmented curved transmission arm for single-panel shutters.
- 001VLR10SX** LEFT-HAND augmented curved transmission arm for single-panel shutters.

The optional accessories:

- 001VLR04** Covering cross-piece for the VLR02 with light bays greater than 970 mm.
- 001VLR05** Emergency operation device, complete with 12 V batteries and battery-charging card.

Intended use

The VOILA operator is designed for opening and closing one or two-leaf swing leaves.

By shutters we mean

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

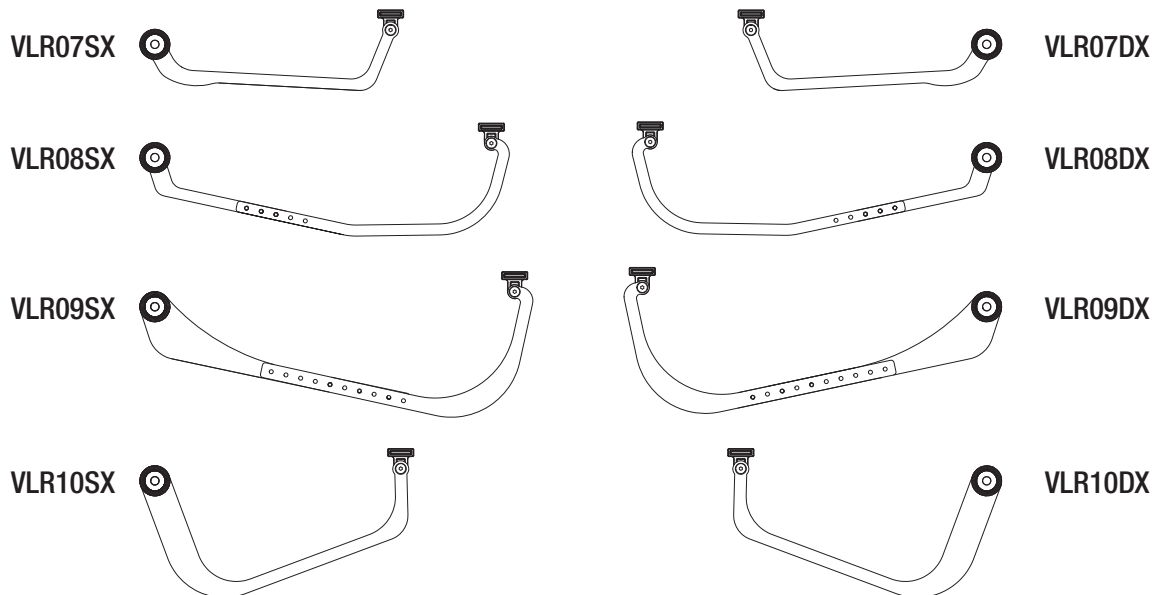
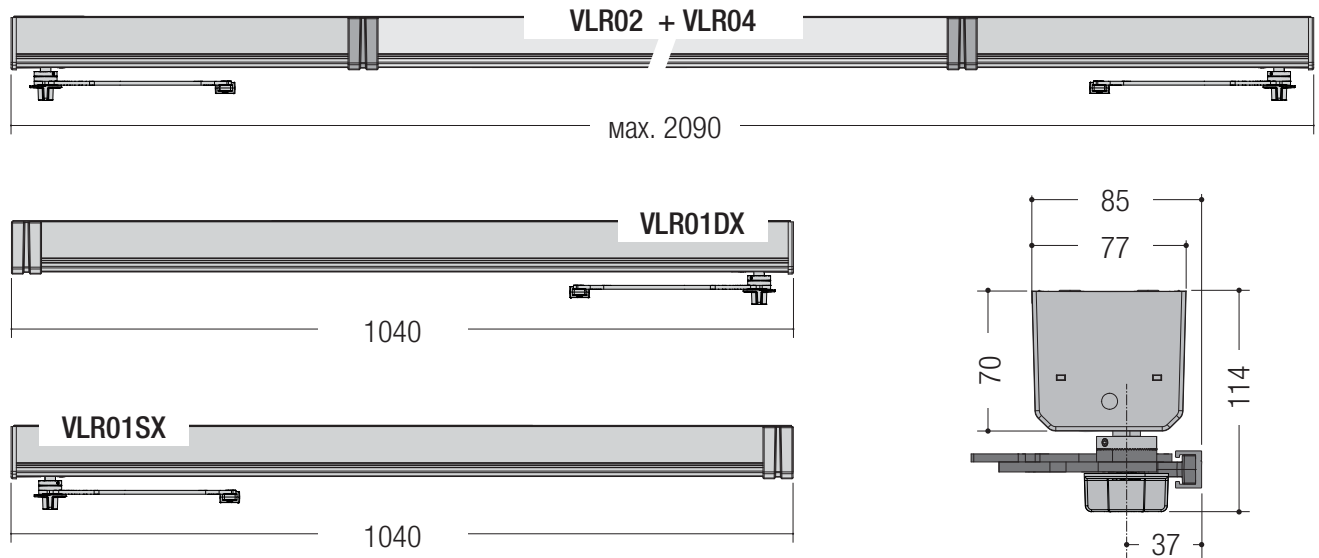
Limits to use

Model	VLR01DX - VLR01SX	VLR02
Max. leaf width (m)	1.05	2.1
Maximum gate-leaf weight (kg)	35	35

Technical data

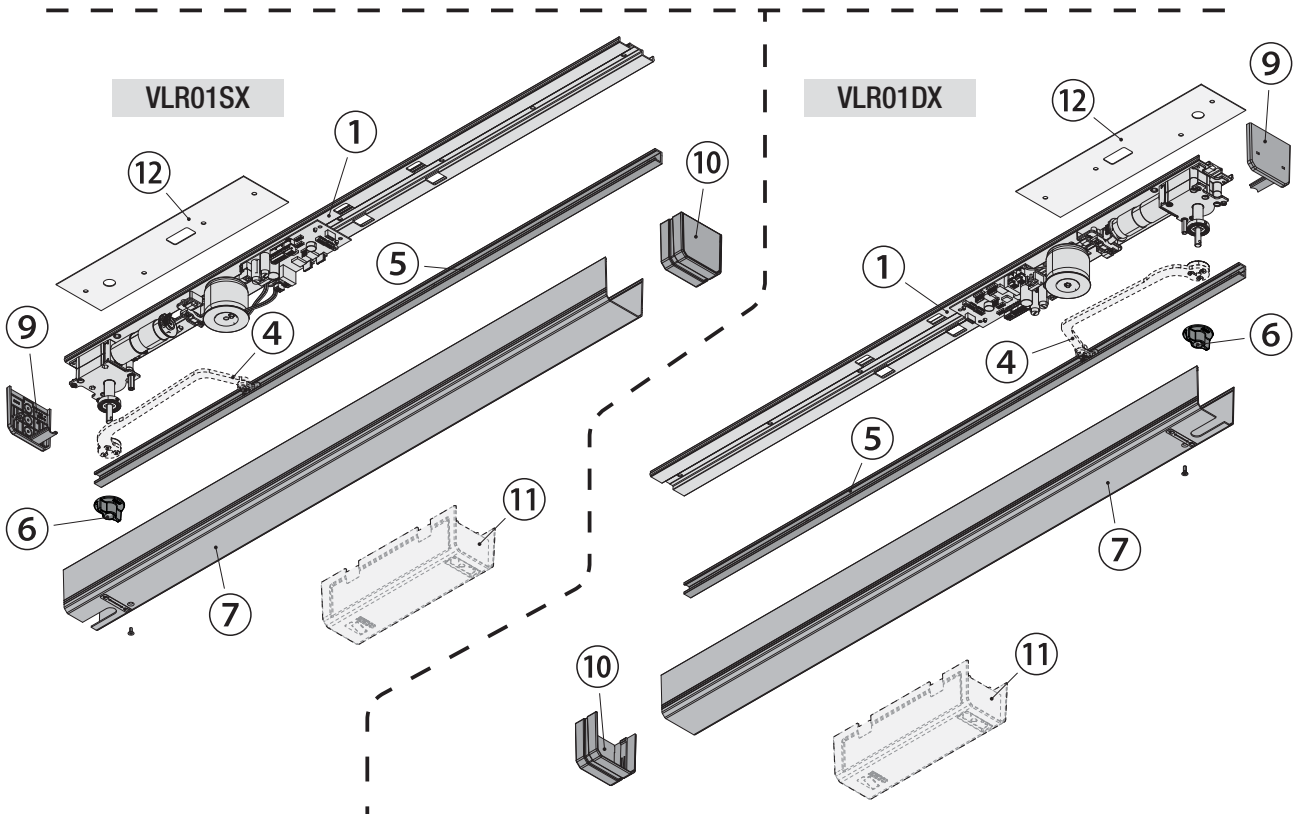
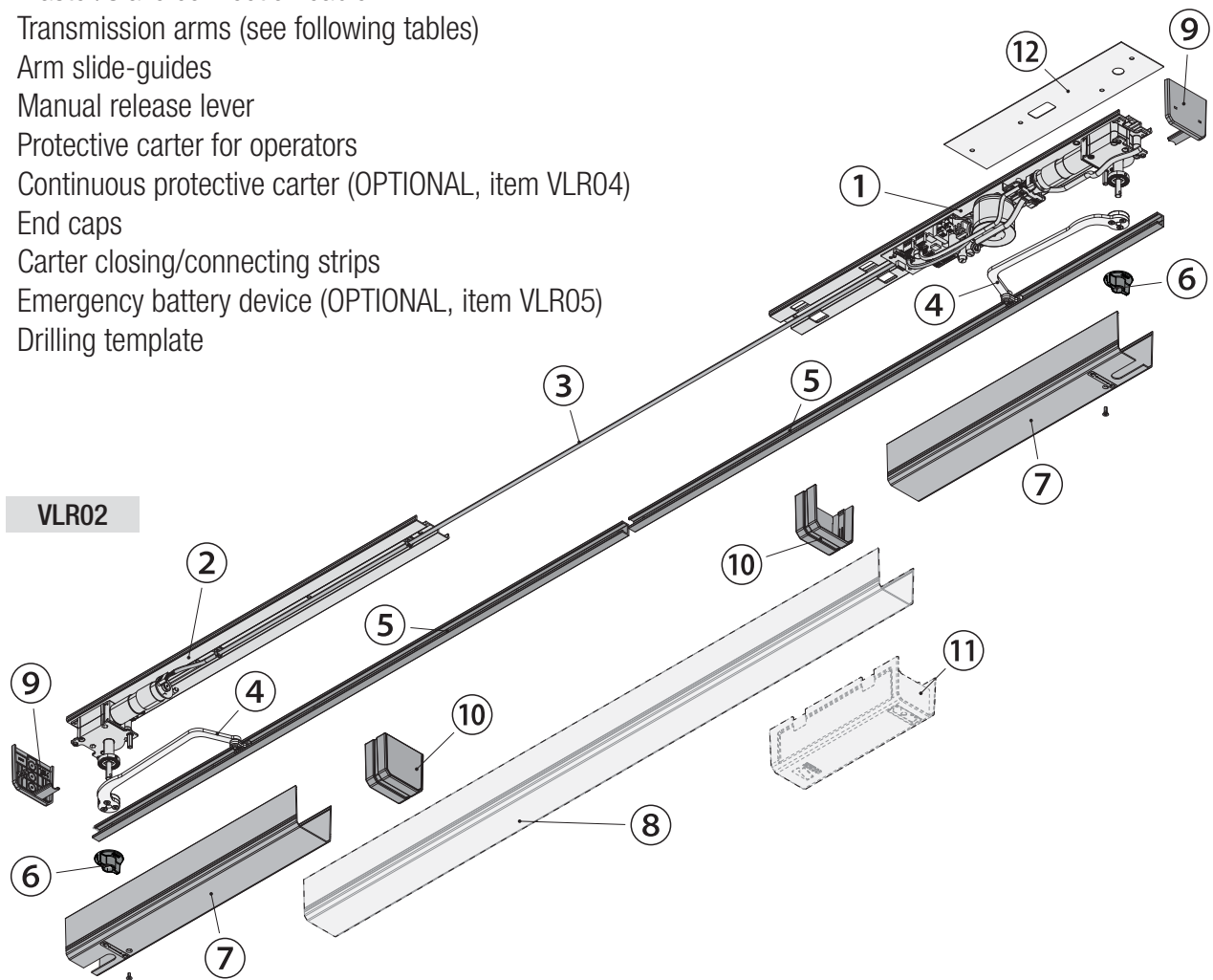
Type	VLR01DX - VLR01SX	VLR02 command
Protection rating (IP)	44	44
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V)	24 DC	24 DC
Current draw (A)	3 max	6 max
Power (W)	75	150
Opening time at 180° (s)	Adjustable	Adjustable
Duty cycle (%)	Intensive duty	Intensive duty
Torque (Nm)	33	2 x 33
Working temperature (°C)	-20 to +55	-20 to +55

Dimensions



Description of parts

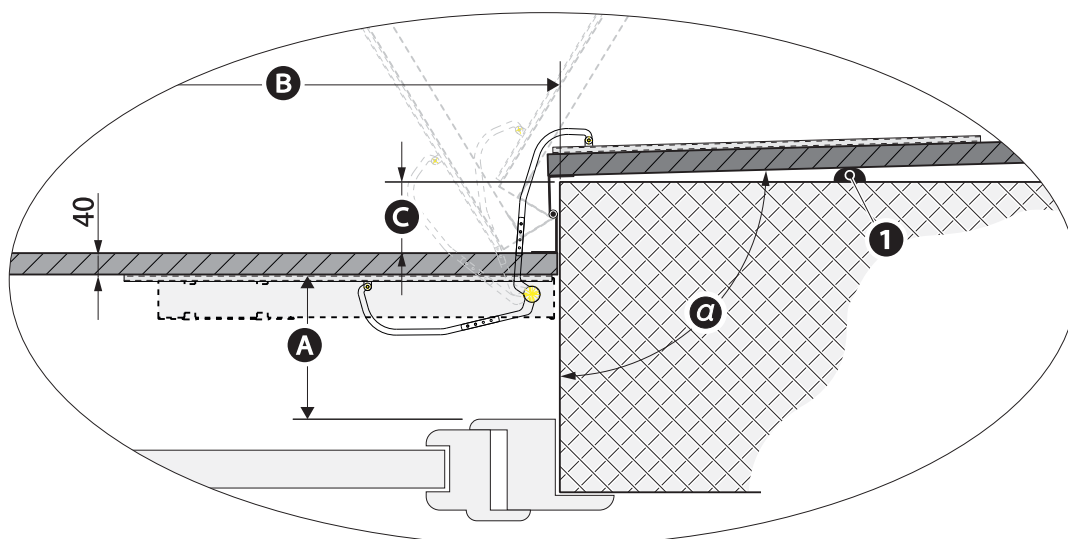
1. MASTER operator assembly: anchoring base/control board/transformer/gearmotor
2. SLAVE operator: anchoring base/gearmotor
3. Master/Slave connection cable
4. Transmission arms (see following tables)
5. Arm slide-guides
6. Manual release lever
7. Protective carter for operators
8. Continuous protective carter (OPTIONAL, item VLR04)
9. End caps
10. Carter closing/connecting strips
11. Emergency battery device (OPTIONAL, item VLR05)
12. Drilling template



One or two-leaved single panel retractable shutter

Unfoldable type of transmission arm	VLR07	VLR08
A - Minimum space between the inner fixture and the shutter (without batteries / with VLR05 batteries)	90 / 110	130
B - Bay width (min./max.)		
One leaf, without VLR01xx batteries	500 / 1050	500 / 1050
One leaf, with VLR01xx+VLR05 batteries	750 / 1050	750 / 1050
Two leaves, without VLR02 batteries	720 / 2100	820 / 2100
Two leaves with VLR02+VLR05 batteries	970 / 2100	970 / 2100
C - Recessing of outer edge (min./max.)	60	130 / 170

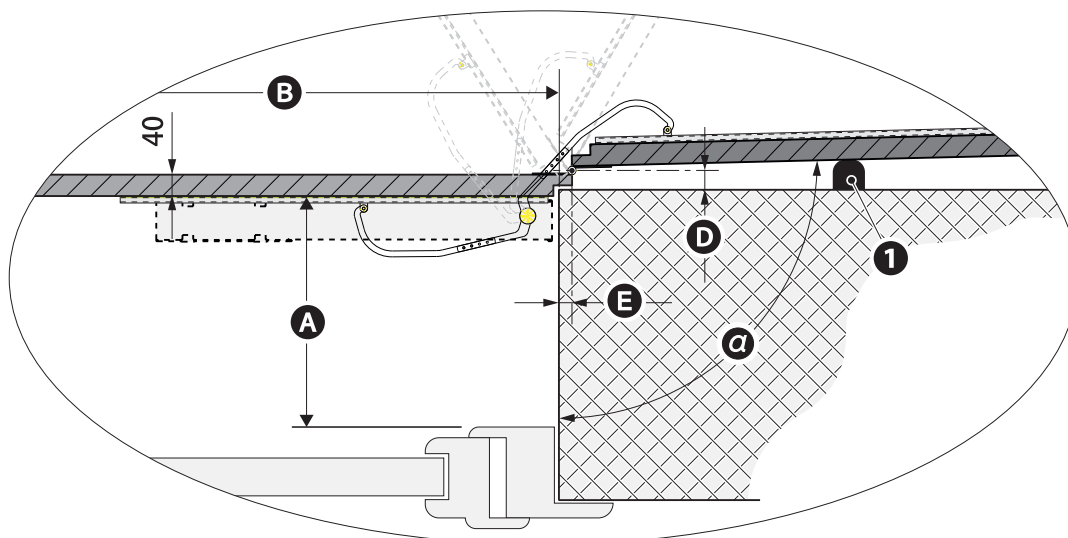
The angle **a** must always exceed 90°; install a simple strike plate **1** for this.



One or two-leaf single-panel shutter, with outer edge

Unfoldable type of transmission arm	VLR07	VLR08	VLR010
A - Minimum space between the inner fixture and the shutter (without batteries / with VLR05 batteries)	90 / 110	130	165
B - Bay width (min./max.)			
One leaf, without VLR01xx batteries	500 / 1050	500 / 1050	500 / 1050
One leaf, with VLR01xx+VLR05 batteries	750 / 1050	750 / 1050	750 / 1050
Two leaves, without VLR02 batteries	720 / 2100	820 / 2100	720 / 2100
Two leaves with VLR02+VLR05 batteries	970 / 2100	970 / 2100	970 / 2100
D - Hinge position beyond the bay (min./max.)	30 / 40	30 / 90	0 / 60
E - Hinge position beyond the outer edge (min./max.)	25 / 40	30 / 100	-

The angle **a** must always exceed 90°; install a simple strike plate **1** for this.

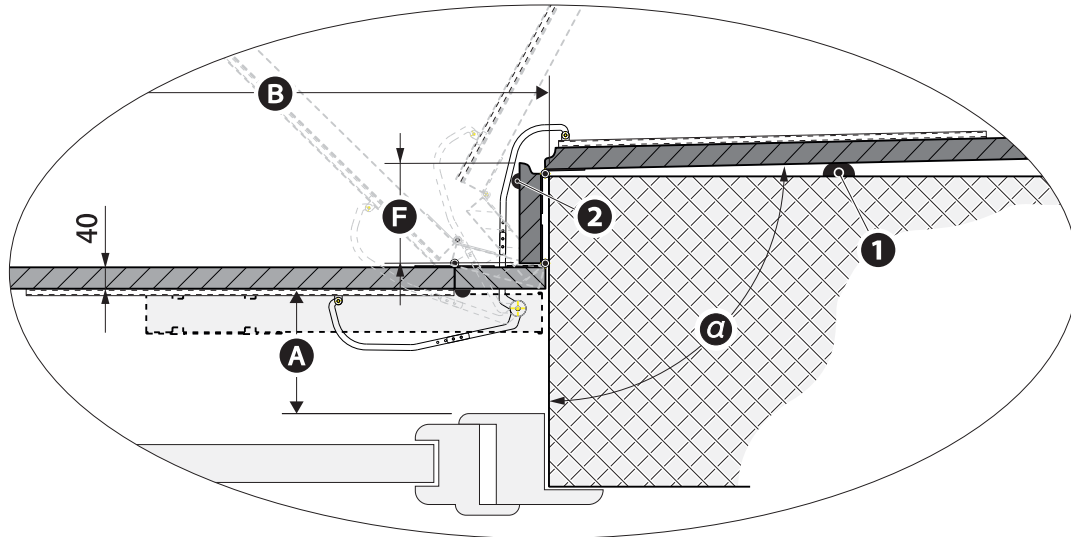


One or two-leaved jointed double-paneled shutter

Unfoldable type of transmission arm	VLR08	VLR09
A - Minimum space between the inner fixture and the shutter	130	160
B - Bay width (min./max.)		
One leaf, without VLR01xx batteries	500 / 1050	500 / 1050
One leaf, with VLR01xx+VLR05 batteries	750 / 1050	750 / 1050
Two leaves, without VLR02 batteries	820 / 2100	900 / 2100
Two leaves with VLR02+VLR05 batteries	970 / 2100	970 / 2100
F - Width of internal panel (min./max.)	140 / 170	170 / 240

The angle **α** must always exceed 90°; install a simple strike plate **1** for this.

For this application, fit a corner protection **2** for the arm.



GENERAL INSTRUCTIONS FOR INSTALLING

⚠ Installation must be carried out by expert qualified personnel and in full compliance with the regulations in force.

Preliminary checks

- Check that the operator fixing point is protected from possible knocks, and that the fixing surface is solid. Also check that appropriate screws, plugs, etc. are used to fix the panel;
- Set up suitable conduits and tubes to safely run the electrical cables through and to protect them from mechanical damage.
- Remove the shutter opening stops and replace them with strike plates.
- Make sure the angles between the two leaves always exceeds 90°.

Tools and materials

Make sure you have all the tools and materials you will need for installing in total safety and in compliance with applicable regulations. The figure shows some of the equipment installers will need.



Cable types and minimum thicknesses

Connection	Cable type	Cable length		
		1 < 10 m	10 < 20 m	20 < 30 m
Power supply to control panel 230 V		3G x 1.5 mm ²	3G x 2.5 mm ²	3G x 4 mm ²
Accessories powered at 24 V	FROR CEI 20-22 CEI EN 50267-2-1	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 1 mm ²
Command and safety device		2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Home & building automation connections	CAT5 - U/UTP - AWG24	max 1200 m		

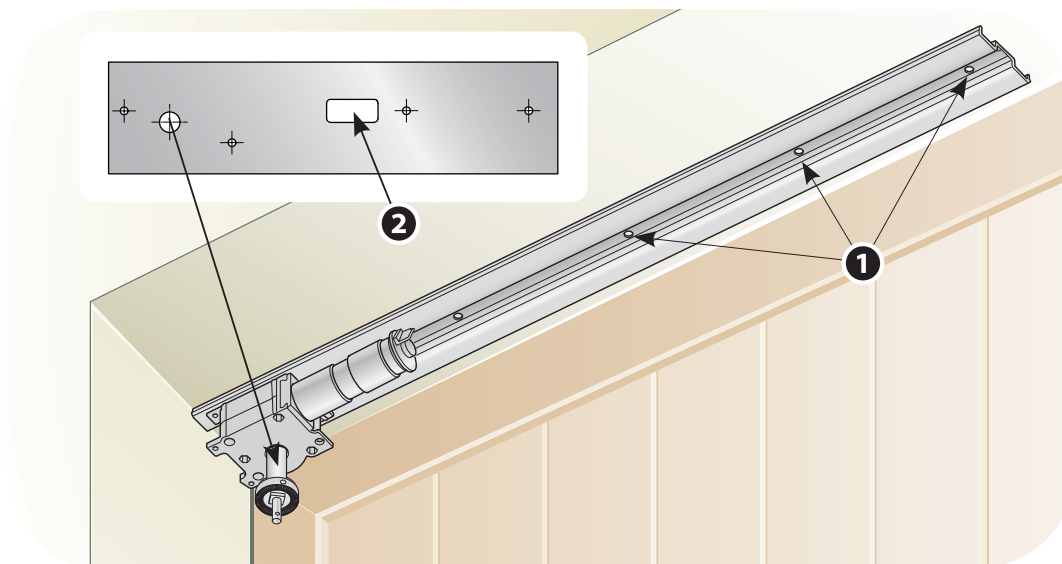
☞ If the cable lengths differ from that specified in the table, then you must determine the cable diameter based on the actual power draw from the connected devices and according to the CEI EN 60204-1 standard.

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

INSTALLING

 The following illustrations are examples. It is up to the installer to find the most suitable solution. The template features the indications for use on both the right and left.

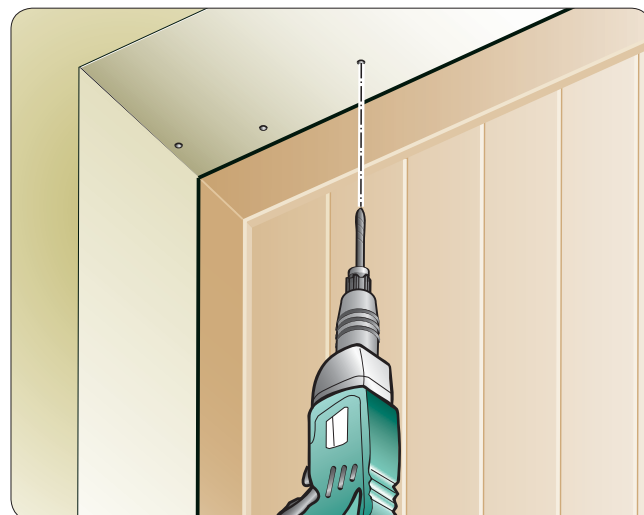
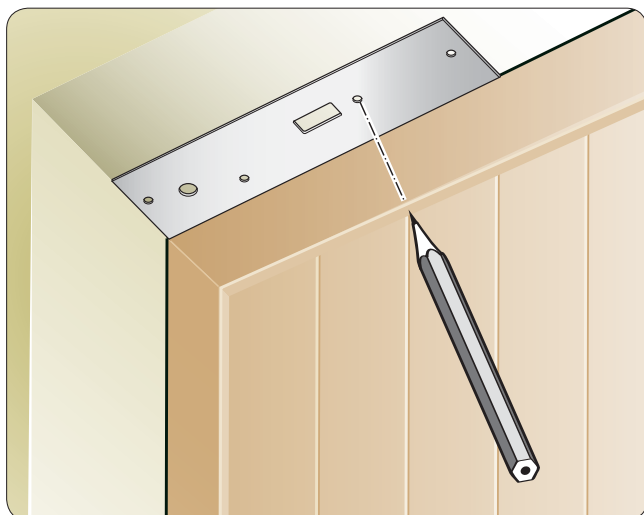
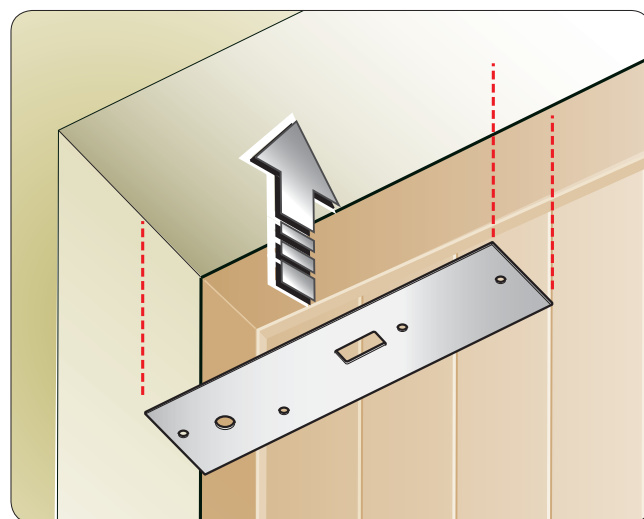
Tracing the holes



Rest the template against the shutters and the bay side panel of the bay and mark the holes using a pencil; finish marking out the holes **1** on the metal anchoring base of the Voilà unit.

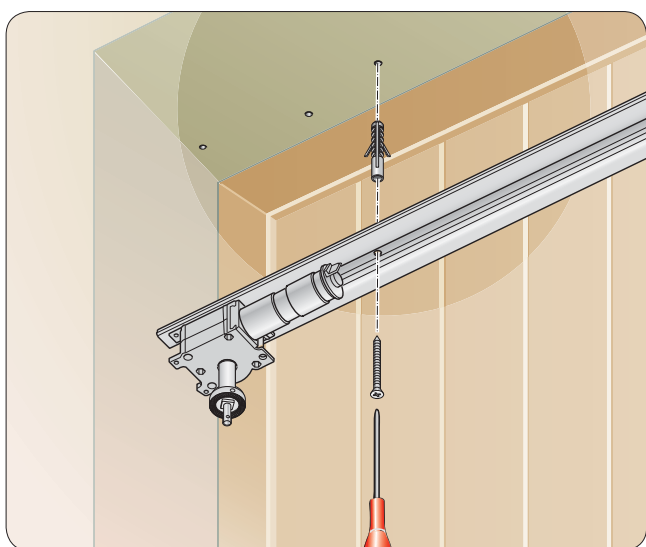
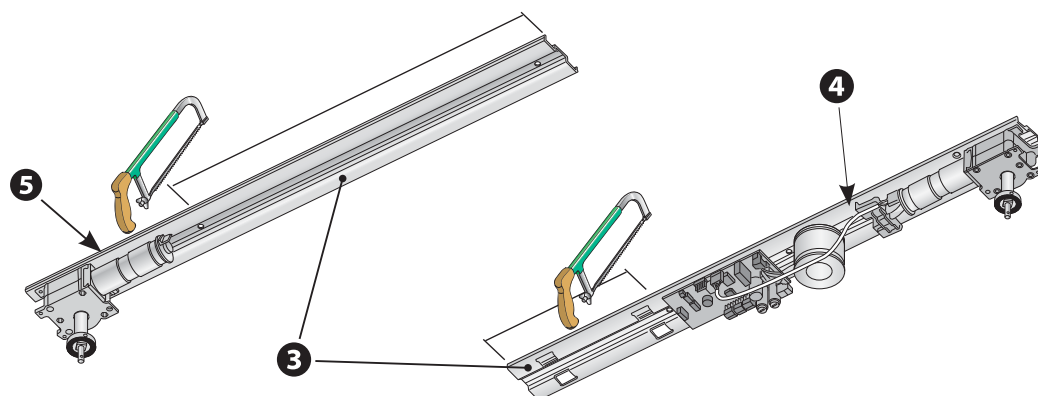
So, drill for using suitable fasteners.

 For laying the cables, see details on page 14; zone **2** shows the cable entry point, in option 1.



Fastening the operator

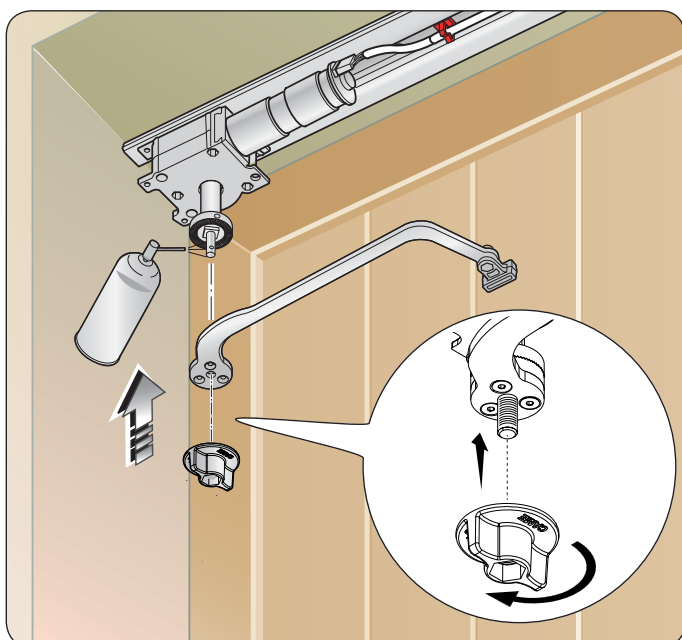
⚠ If the bay width is less than the dimensions of the operator base(s), cut off any excess **3**. The emergency batteries (item VLR05) may not be fitted.



Fit the operator using suitable screws and dowels.

⚠ For the two-leaf swing configuration, install the MASTER operator **4** on the right and the SLAVE operator **5** on the left.

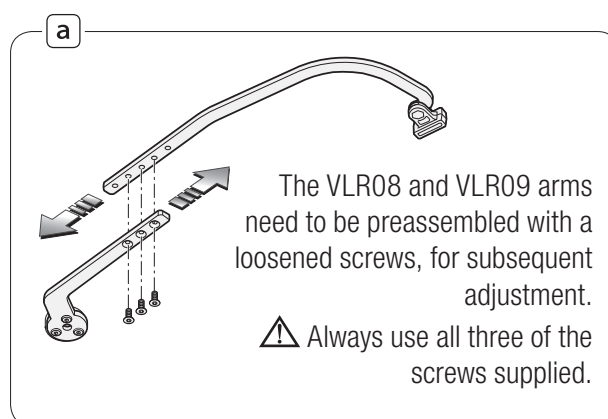
Fitting the transmission arms and the slide rails



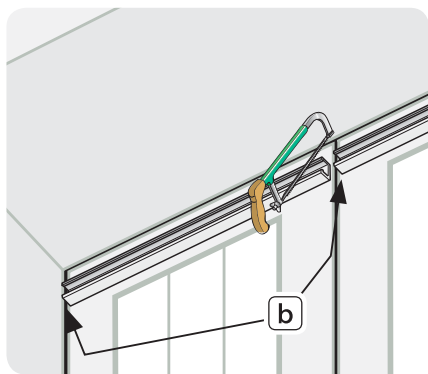
📖 Before fitting the transmission arm, lubricate the motor shaft thread.

Fit the arm (also see detail **a**) and the release lever on the motor shaft.

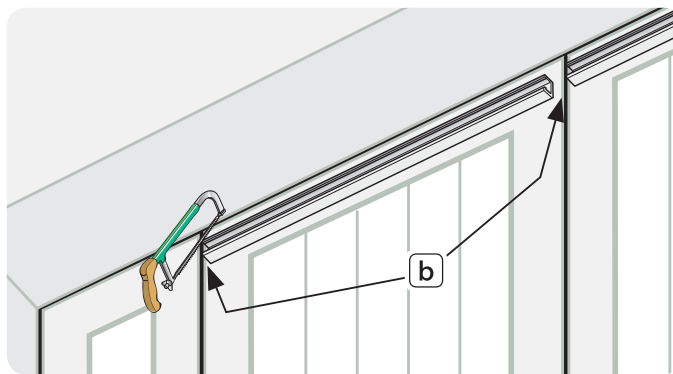
📖 Leave the lever loose so as to make it easier to insert the arm skid in the slide guide.



Cut the slide rails to the required length, leaving a minimum clearance at the ends **b**.

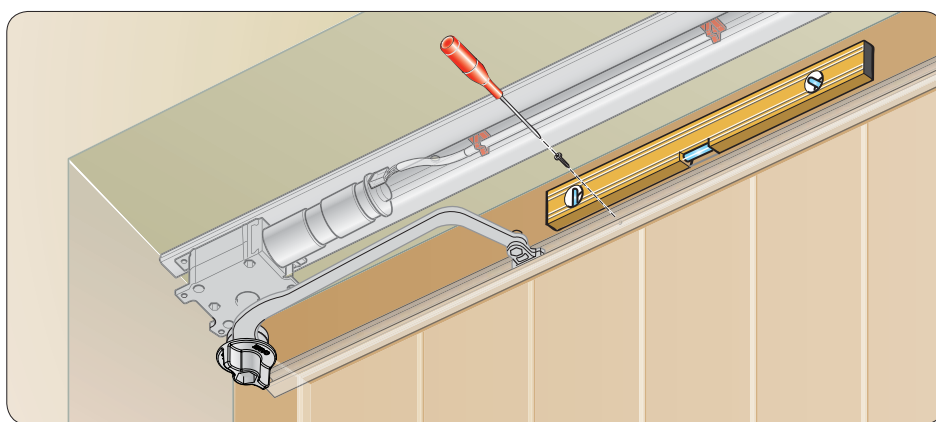
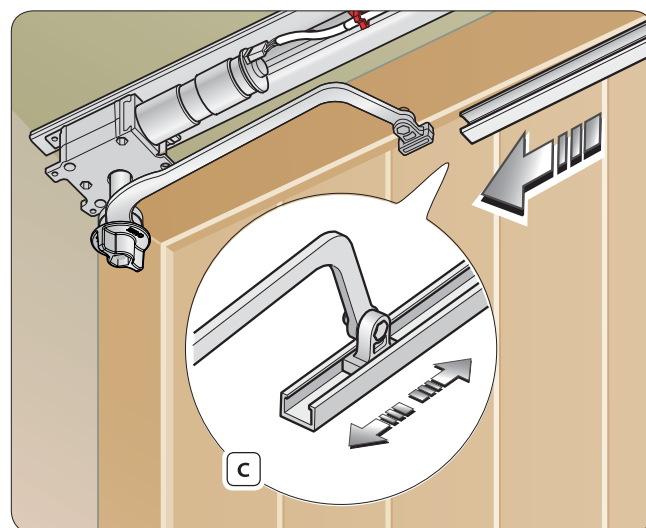


One or two-leaf single-panel shutter



One or two-leaved jointed double-paneled shutter

Fit the arm skid into the slide rail (see **c**).



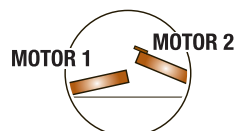
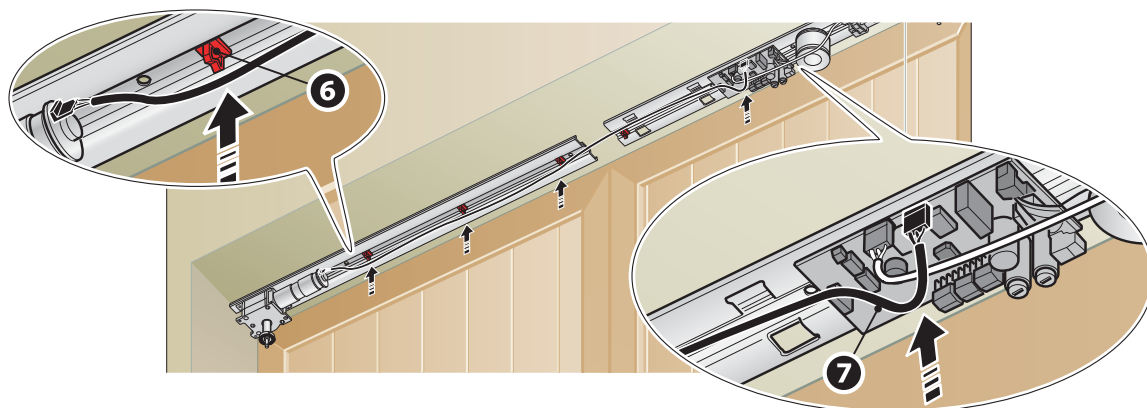
Fit the guide to the shutter and check that it is level and that the skid slides smoothly. Use the premarked holes and use flat countersunk screws (not issued).

 The operation should be performed with the transmission arm fixed to the motor shaft.

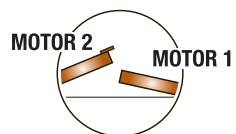
The VLR08/VLR09 adjustable arms, allow you to adjust the leaf opening more accurately, by changing the joining holes of the two semi-arms (see page 10, figure **a**).

VLR02 operator Master and Slave connection

Attach the cable clips **6**.



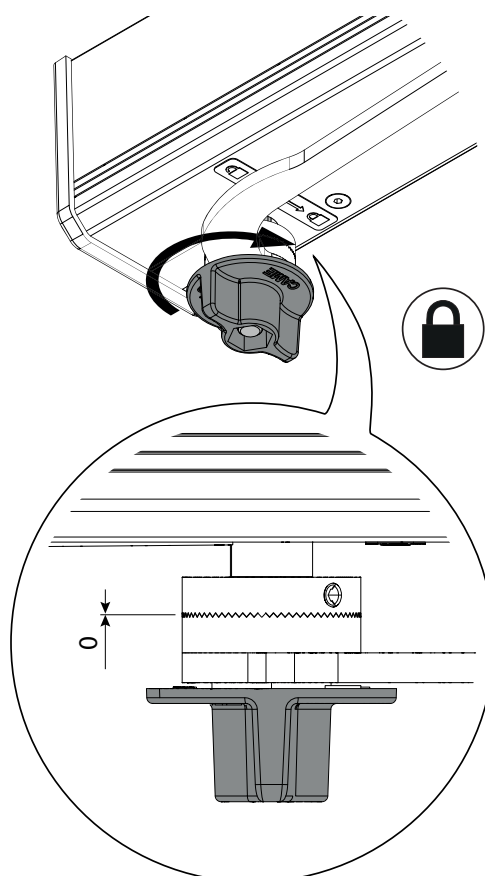
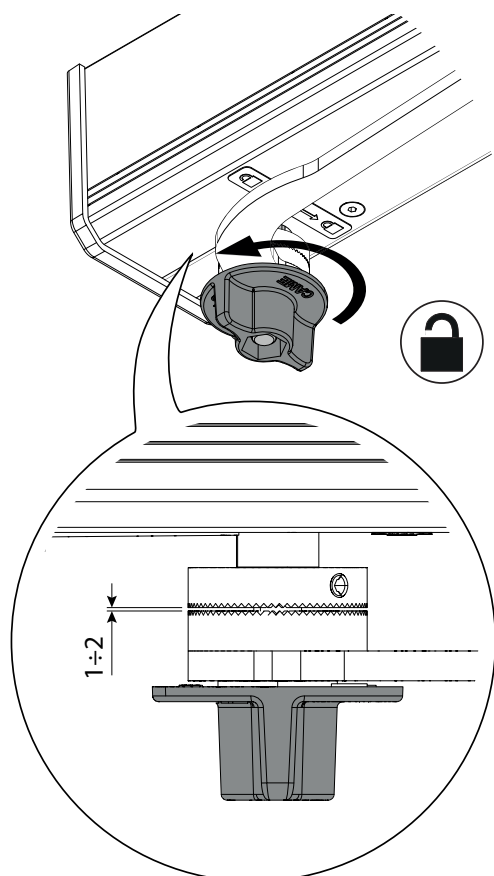
Connect the Slave gearmotor to the Master operator using the wired cable **7** on the MOTOR1 terminal. In this way, the right-hand leaf will open first.



If you need the left-hand leaf to open first while keeping the Master to the right, swap the MOTOR1 and MOTOR2 connectors.

Manual release of the operator

⚠ Activating the manual release could result in the shutter moving inadvertently due to possible mechanical failures or balance issues.



ELECTRICAL CONNECTIONS AND PROGRAMMING

The control panel is powered by 230 V AC, with 50/60Hz frequency. The control devices and accessories run on 24 V.

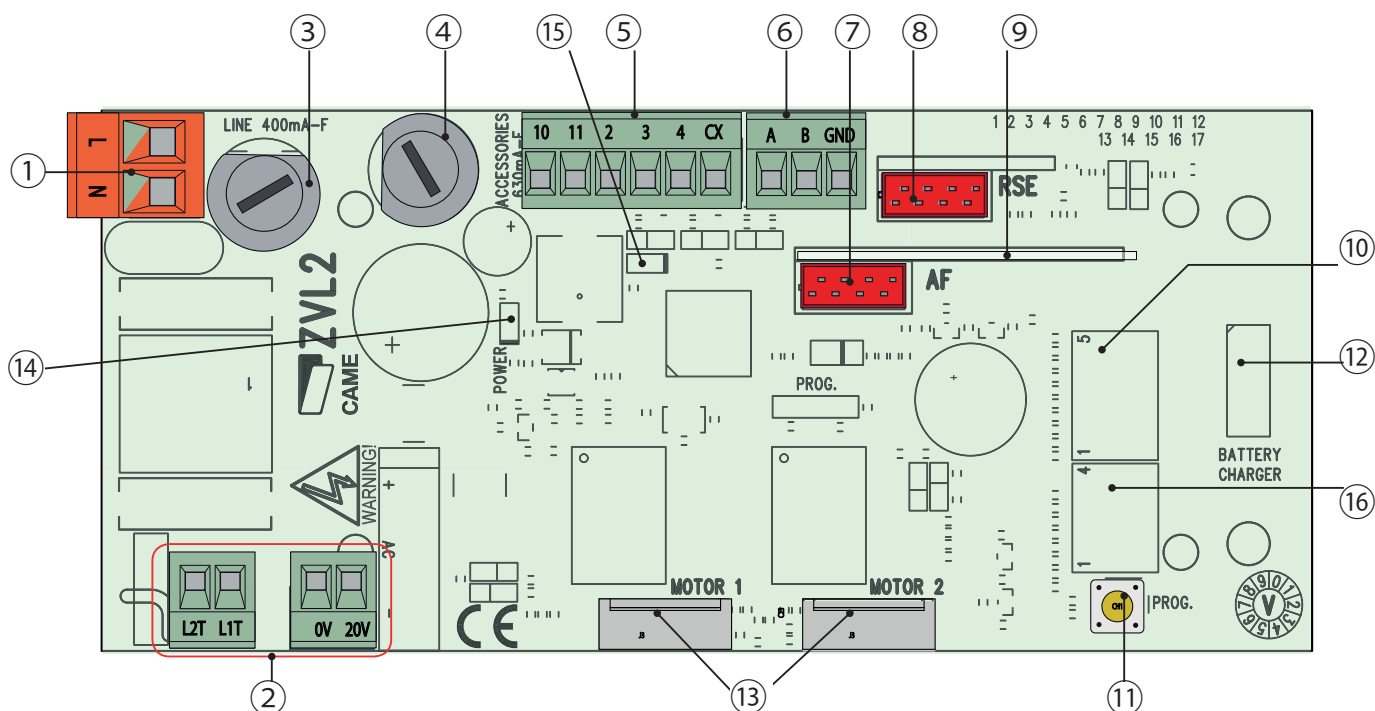
△ The accessories must never exceed 15 W in total.

Fuses

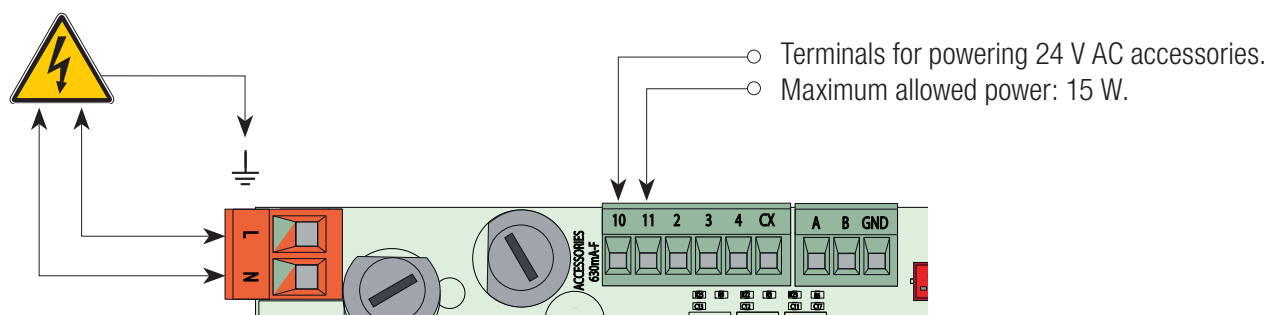
Type	
Line (mA)	400
Accessories (mA)	630

Description of parts

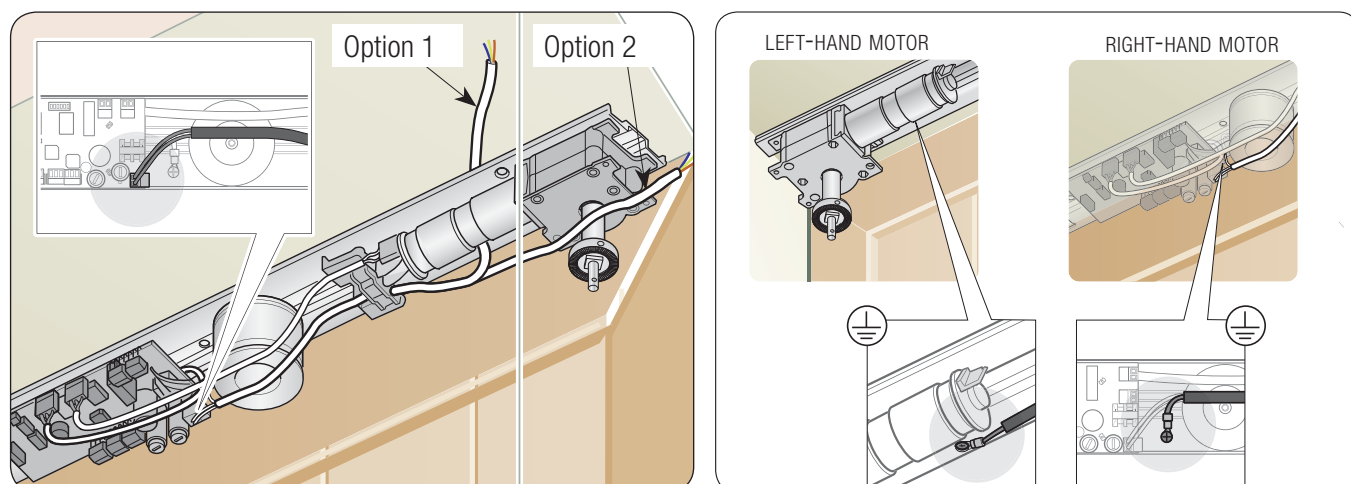
- 230 V AC power-supply terminals
- Transformer connection terminals
- Line fuse
- Accessories fuse
- 24 V power-supply terminals for control and safety devices
- CRP connection terminals
- AF card connector
- RSE board connector
- Built-in antenna
- DIP-switch for selecting functions with RSE
- Programming button
- Battery-charger connector
- MOTOR 1 and MOTOR 2 sockets
- Power on signalling LED
- Programming warning LED
- Dip-switches for selecting functions and programming



Power supply



There are two possible points to pass the power-supply and accessory-control cables through: either on the anchoring base through the existing slots (option 1), or on the end cap which features pre-shaped apertures (option 2). Connect the ground to both gearmotors.



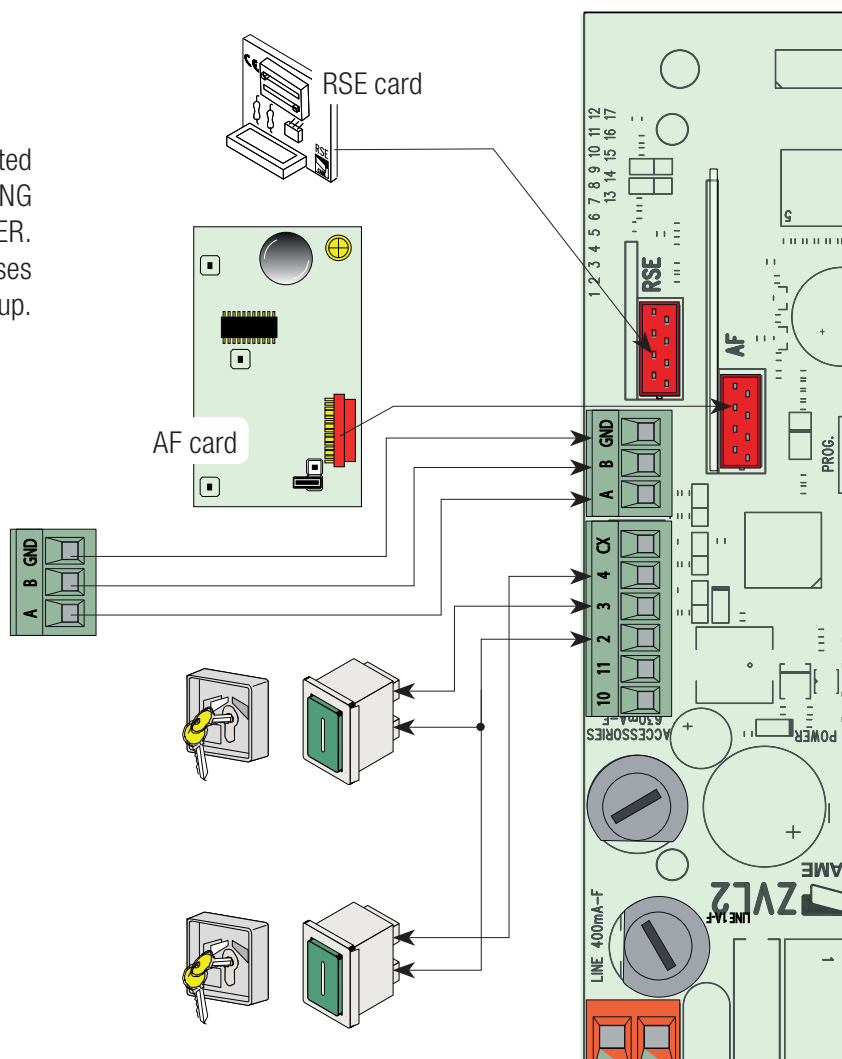
Command and control devices

The AF and RSE cards must be fitted into the control board AFTER CUTTING OFF THE MAINS POWER.
N.B.: the basic control board recognises them only when it is powered up.

CRP - Came Remote Protocol.
Connection to the home-automation system.

OPEN-STOP function (NO contact)

CLOSE-STOP function (NO contact)



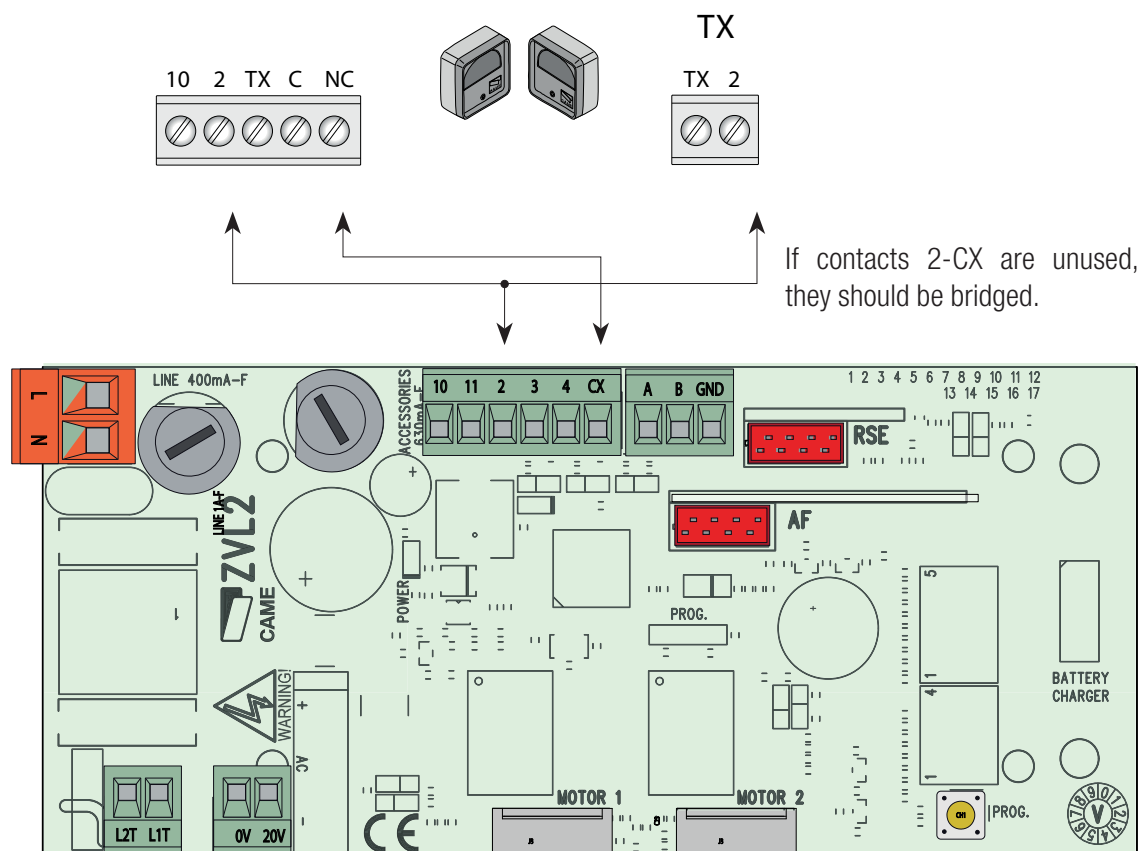
△ If the PARTIAL OPENING function is activated via a dip-switch on the button connected to 2-3, then the button connected to 2-4 will automatically operate as a sequential OPEN-STOP-CLOSE-STOP command.

△ If MAINTAINED ACTION is activated via dip-switches, the two buttons will operate as automatically OPEN and CLOSE, respectively.

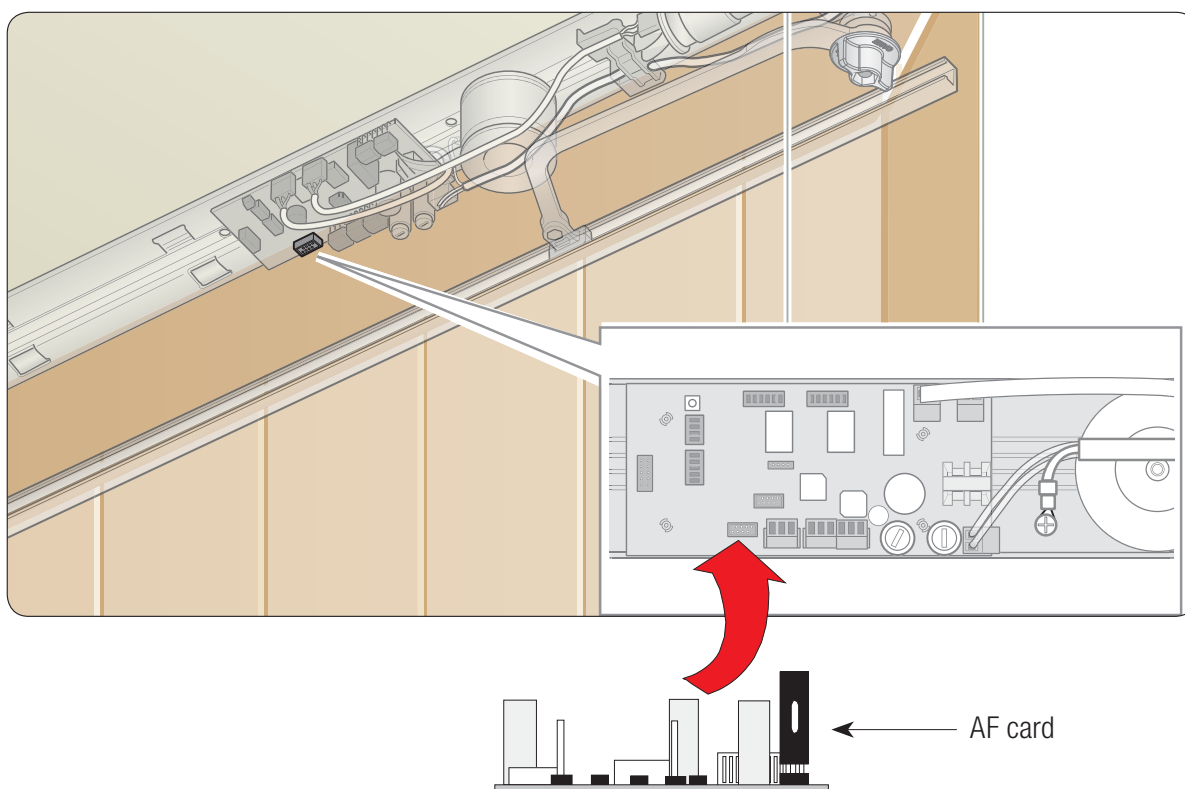
△ When the MAINTAINED ACTION function is active, the PARTIAL OPENING function cannot be set.

Safety devices

REOPENING DURING CLOSING (NC). During the leaf closing phase, opening the contact inverts the movement until the leaves are fully open.



001AF43S - 001AF868 card fitting



Programming the features

Before programming functions, release the gearmotors, manually close the shutter leaves and re-lock the gearmotors.

DIP1	DIP2	DIP3	DIP4	Description of functions
ON	ON	ON	OFF	Self-learning of the gate-leaf travel
OFF	OFF	OFF	ON	Partial opening from button
ON	OFF	OFF	ON	Button-activated maintained action
ON	OFF	OFF	OFF	Transmitter activated partial opening
OFF	ON	OFF	OFF	OPEN-STOP from trasmitter
ON	ON	OFF	OFF	CLOSE-STOP from transmitter
OFF	OFF	ON	OFF	Transmitter activated OPEN-STOP-CLOSE-STOP
ON	OFF	ON	OFF	Weather unit
OFF	ON	ON	OFF	Deleting memorized transmitters and weather units
OFF	ON	OFF	ON	Increasing the maneuvering speed
ON	ON	OFF	ON	Reducing the slow-down speed
OFF	OFF	ON	ON	Adjusting the sensitivity
ON	OFF	ON	ON	Slowed-down start when closing
OFF	ON	ON	ON	Immediate closing in case of a power outage
ON	ON	ON	ON	Resetting parameters

Self-learning of the gate-leaf travel

Select the DIPs as shown and press the PROG key on the board.

To calibrate the travel the leaves must be closed.

The leaves will perform a series of maneuvers to establish the limit switch points.

During calibration the red LED flashes. Once the calibration is done the buzzer sounds off for one second.

If calibration was not successful, the LED flashes quickly and the buzzer sounds 4 times.

The self-learning procedure can be interrupted by pressing the PROG key .

△ To configure for one swing-leaf, connect the operator to MOTOR2.

Partial opening from button

Use the buttons to move the leaves to the desired position Only consider the first leaf's opening angle. During the first maneuver, the second leaf will memorize the opening angle of the first leaf.

Select the DIP switches as shown or press PROG on the control board.

Once memorized the buzzer sounds off for one second.

If the partial opening angle does not come within the minimum and maximum default-set limits (fro 10% to 50% of the travel), upon sending the next command the opening angle will automatically set to the closest level.

To disable the function: with the DIP switches set as shown, press again the PROG key on the control boar.

Button-activated maintained action

Select the DIP switches as shown or press PROG on the control board.

Once memorized the buzzer sounds off for one second.

To restore the default parameters press PROG again. The LED flashes and the buzzer sounds off twice.

△ The opening button connected to 2-3 (NO contact) is default set to the OPEN-STOP function.

If I enable maintained action from a button, I cannot enable partial opening from a button and neither from a transmitter.

You can memorize up to a maximum of ten different radio codes.

Partial opening using transmitter (only if already saved to a button).

Select the DIP switches as shown or press PROG on the control board. The red LED flashes. Within ten seconds press the button on the transmitter you wish to memorize. Once memorized the buzzer sounds off for one second.

If the key has already been memorized, the LED will flash quickly and buzzer will flash four times.

OPEN-STOP from transmitter

Select the DIP switches as shown or press PROG on the control board. The red LED flashes. Within ten seconds press the button on the transmitter you wish to memorize.

Once memorized the buzzer sounds off for one second.

If the key has already been memorized, the LED will flash quickly and buzzer will flash four times.

CLOSE-STOP from transmitter

Select the DIP switches as shown or press PROG on the control board. The red LED flashes. Within ten seconds press the button on the transmitter you wish to memorize.

Once memorized the buzzer sounds off for one second.

If the key has already been memorized, the LED will flash quickly and buzzer will flash four times.

Transmitter activated OPEN-STOP-CLOSE-STOP

Select the DIP switches as shown or press PROG on the control board. The red LED flashes. Within ten seconds press the button on the transmitter you wish to memorize.

Once memorized the buzzer sounds off for one second.

If the key has already been memorized, the LED will flash quickly and buzzer will flash four times.

Weather unit

△ The weather unit occupies 3 radio codes.

Select the DIP switches as shown or press PROG on the control board. The red LED flashes. Within ten seconds press the P2 key on the weather unit. Once memorized the buzzer sounds off for one second.

If the weather unit has already been memorized, the LED will flash quickly and the buzzer will sound off four times.

Deleting memorized transmitters and weather units

Select the DIP-switches as shown and press PROG on the control board for five seconds.

After deleting, the red LED flashes and the buzzer sounds off for one second.

Increasing the maneuvering speed

The default maneuvering speed is set to 70%.

To increase the maneuvering speed by 20%:

Select the DIP switches as shown or press PROG on the control board. The red LED stays lit and buzzer sounds off for one second.

To return to the default settings, press the PROG key again. The LED flashes and the buzzer sounds off twice.

Reducing the slow-down speed

The default maneuvering speed is set to 50%.

To reduce the slow-down speed by 10%:

Select the DIP switches as shown or press PROG on the

control board. The LED stays on and the buzzer sounds off for 1 s.

To return to the default settings, press the PROG key again. The LED flashes and the buzzer sounds off twice.

Adjusting the sensitivity

The default obstruction-intervention time is one second.

To increase the intervention time to two seconds:

Select the DIP switches as shown or press PROG on the control board. The LED stays on and the buzzer sounds off for 1 s.

To return to the default parameters, press PROG again. The LED flashes and the buzzer sounds off twice.

Slowed-down start when closing

The slow-down is disabled by default.

To enable it:

Select the DIP switches as shown or press PROG on the control board. The LED stays on and the buzzer sounds off for 1 s.

To return to the default parameters, press PROG again. The LED flashes and the buzzer sounds off twice.

Immediate closing in case of a power outage

△ This function can be used only where there are batteries.

To enable it:

Select the DIP switches as shown or press PROG on the control board. The LED stays on and the buzzer sounds off for 1 s.

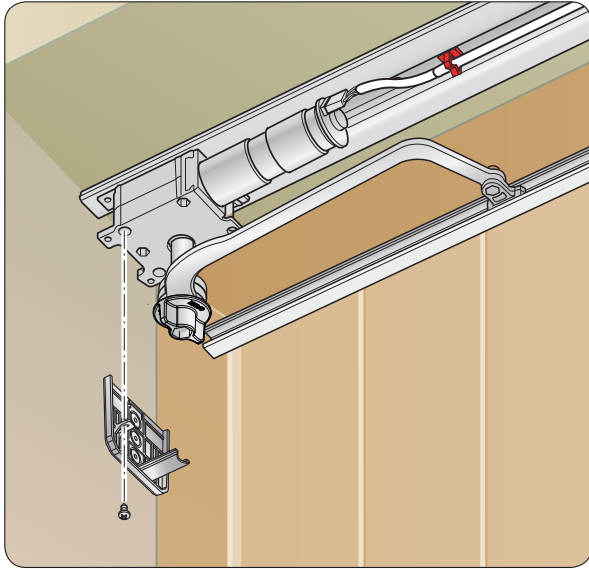
To return to the default parameters, press PROG again. The LED flashes and the buzzer sounds off twice.

Resetting parameters

Once reset, the LED flashes and the buzzer sounds off twice.

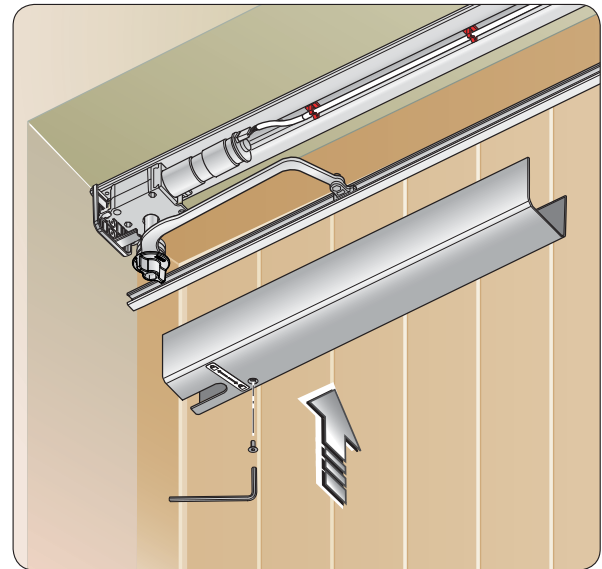
With this function the transmitters and weather unit are not deleted.

FINAL OPERATIONS



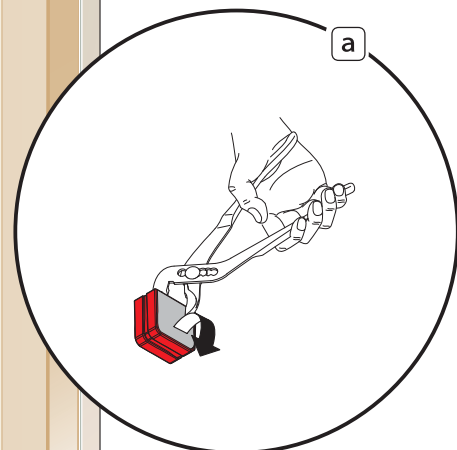
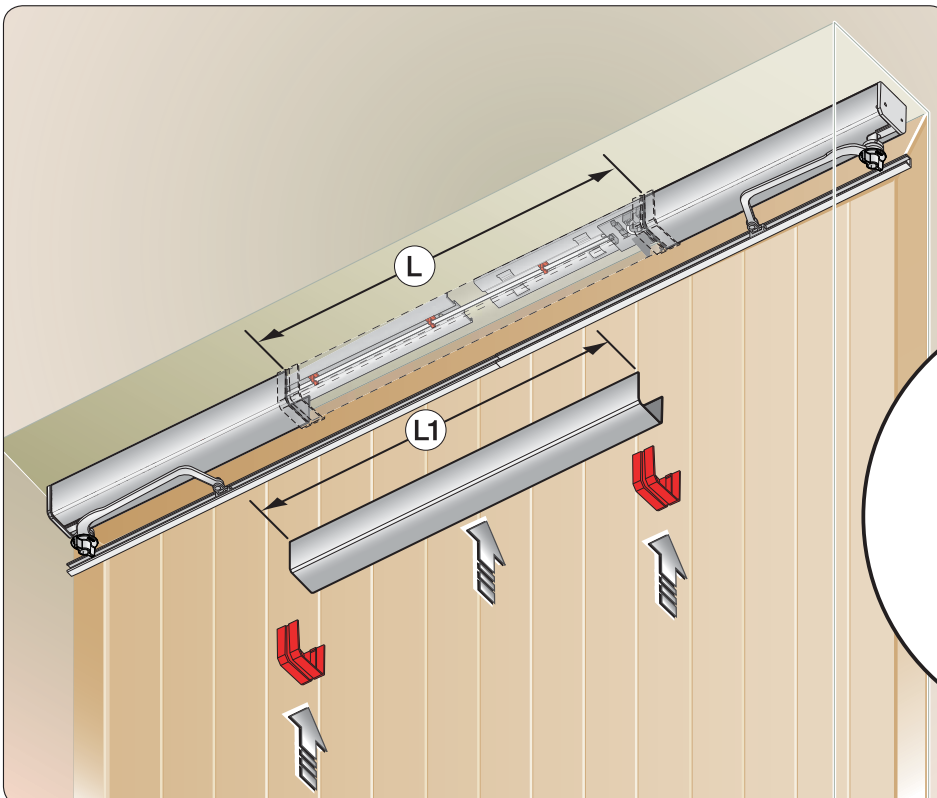
Fit the snap-in casing onto the gearmotor and secure it using the supplied screws.

Fasten the end caps using the supplied screws.



With two-leaved installations like with the Voilà VLR02, whose window-bay width exceeds 970 mm, we suggest also fitting the VLR04 covering cross-piece so that it also covers the Master/Slave connection.

After reducing it to the right size ($L1 = L - 14 \text{ mm}$), snap it into the guides and cover the joints using suitably modified strips with the end caps removed **a**.



DISMANTLING AND DISPOSAL

☞ CAME S.p.A. applies a certified Environmental Management System at its premises, which is compliant with the UNI EN ISO 14001 standard to ensure environmental protection.

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!

DECLARATION OF CONFORMITY

This product complies with the law.

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The data and information in this manual are susceptible to changes at any time and without prior notice

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