CAME

CAME.COM

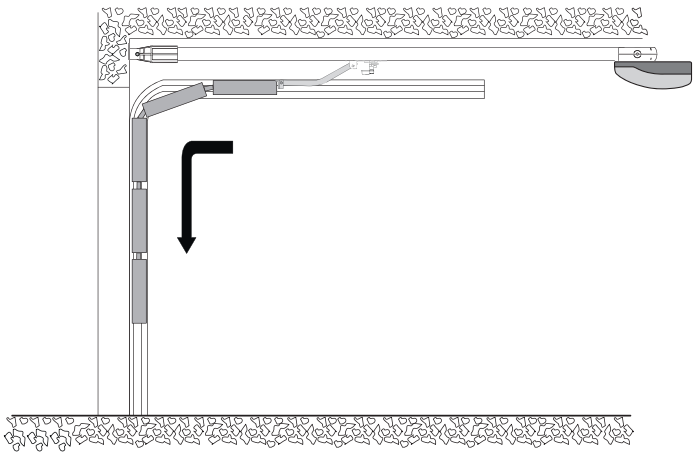
Garage door operators

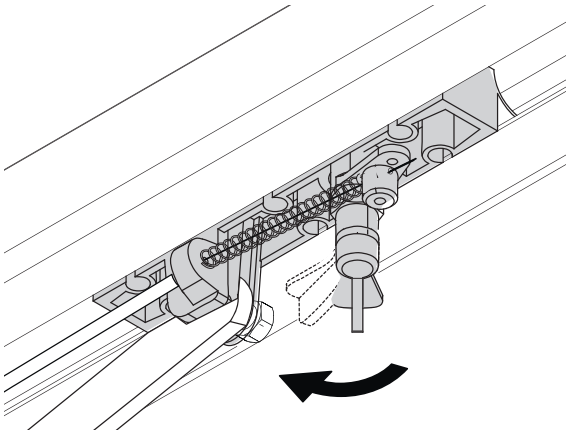
FA02063-EN

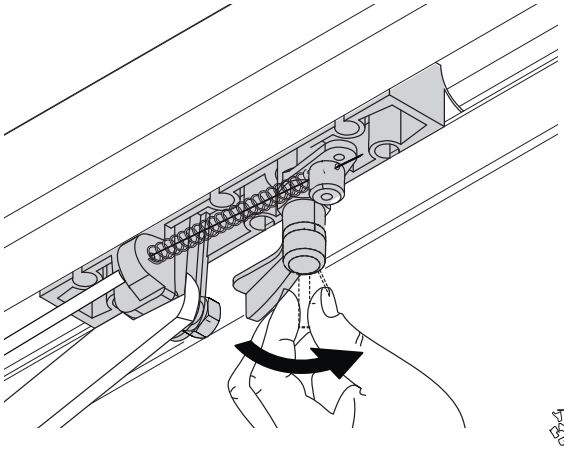
VER10DMS VER13DMS

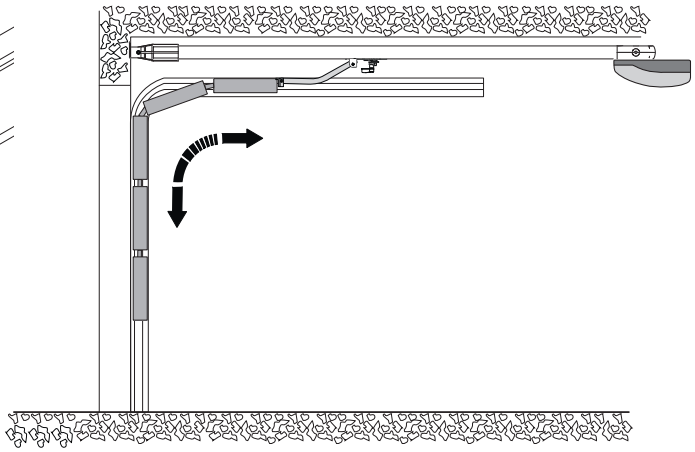
INSTALLATION MANUAL

EN English









GENERAL PRECAUTIONS FOR INSTALLERS

⚠ Important safety instructions.
⚠ Please follow all of these instructions. Improper installation may cause serious bodily harm.
⚠ Before continuing, please also read the general precautions for users.

Only use this product for its intended purpose. Any other use is hazardous. • The manufacturer cannot be held liable for any damage caused by improper, unreasonable or erroneous use. • This product is defined by the Machinery Directive (2006/42/EC) as partly completed machinery. • Partly completed machinery means an assembly which is almost machinery but which cannot in itself perform a specific application. • Partly completed machinery is only intended to be incorporated into or assembled with other machinery or other partly completed machinery or equipment thereby forming machinery to which the Machinery Directive (2006/42/EC) applies. • The final installation must comply with the Machinery Directive (2006/42/EC) and the European reference standards in force. • The manufacturer declines any liability for using non-original products, which would also void the warranty. • All operations indicated in this manual must be carried out exclusively by skilled and qualified personnel and in full compliance with the regulations in force. • The device must be installed, wired, connected and tested according to good professional practice, in compliance with the standards and laws in force. • Make sure the mains power supply is disconnected during all installation procedures. • Check that the temperature ranges given are suitable for the installation site. • Do not install the operator on surfaces that could yield and bend. If necessary, add suitable reinforcements to the anchoring points. • 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. • Demarcate the entire site properly to prevent unauthorised personnel from entering, especially minors. • In case of manual handling, have one person for every 20 kg that needs hoisting; for non-manual handling, use proper hoisting equipment in safe conditions. • Use suitable protection to prevent any mechanical hazards due to persons loitering within the operating range of the operator. • The electrical cables must pass through special pipes, ducts and cable glands in order to guarantee adequate protection against mechanical damage. • The electrical cables must not touch any parts that may overheat during use (such as the motor and transformer). • Before installation, check that the guided part is in good mechanical condition, and that it opens and closes correctly. • Remove all cords and chains and disable any equipment not required for automating the guided part such as locks. • The product cannot be used to automate any guided part that includes a pedestrian gate, unless it can only be enabled when the pedestrian gate is secured. • The operator must not be used with guided parts that have openings exceeding 50 mm in diameter, or that have protruding edges/parts someone could grab or stand on. • Make sure that nobody can become trapped between the guided and fixed parts, when the guided part is set in motion. • All fixed controls must be clearly visible after installation, in a position that allows the guided part to be directly visible, but far away from moving parts. All fixed controls must be installed at least 1.5 m above the floor. • Where operated with a hold-to-run control, install a STOP button to disconnect the main power supply to the operator, to block movement of the guided part. • Install the manual release device below 1.8 m. If the manual release device is removable, store it somewhere near the operator. • If not already present, apply a permanent tag that describes how to use the manual release mechanism close to it. • Make sure that the operator has been properly adjusted and that the safety and protection devices and the manual release are working properly. Check that the operator inverts the motion when the guided part comes into contact with an object 50 mm tall positioned on the pavement. • Following installation, ensure that the guided part does not extend onto any public footpaths or roads. • Before handing over to the final user, check that the system complies with the harmonised standards and the essential requirements of the Machinery Directive (2006/42/EC).

• Permanently affix the risk of entrapment labels somewhere visible or near any of the fixed controls. • Any residual risks must be indicated clearly with proper signage affixed in visible areas, and explained to end users. • Put the machine's ID plate in a visible place when the installation is complete. • If the power supply cable is damaged, it must be immediately replaced by the manufacturer or by an authorised technical support service, or in any case, by qualified staff, to prevent any risk. • Keep this manual inside the technical folder along with the manuals of all the other devices used for your automation system. • Make sure to hand over to the end user all the operating manuals of the products that make up the final machinery. • The product, in its original packaging supplied by the manufacturer, must only be transported in a closed environment (railway carriage, containers, closed vehicles). • If the product malfunctions, stop using it and contact customer services at https://www.came.com/global/en/contact-us or via the telephone number on the website.

📖 The manufacture date is provided in the production batch printed on the product label. If necessary, contact us at https://www.came.com/global/en/contact-us.

📖 The general conditions of sale are given in the official CAME price lists.

Permanently affix the following warning label on the guided part at a height of at least 60 mm with the message "WARNING, AUTOMATIC GARAGE DOOR":

Maintenance

⚠ Before carrying out any cleaning or maintenance, or replacing any parts, disconnect the device from the power supply.

⚠ If the system is not used for long periods of time, e.g. for installations at sites with seasonal closures, disconnect the power supply. When the power supply is reconnected, check the system is working correctly.

Perform a general and complete check of the tightness of the nuts and bolts.
Grease all of the moving mechanical parts.
Check the warning and safety devices are working properly.
Check for any wear on the moving mechanical parts and check that they are working properly.
Check the release mechanism is working efficiently by performing a manoeuvre with the door free.
Check the cables are intact and connected correctly.

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 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. Please follow these brief disposal guidelines:

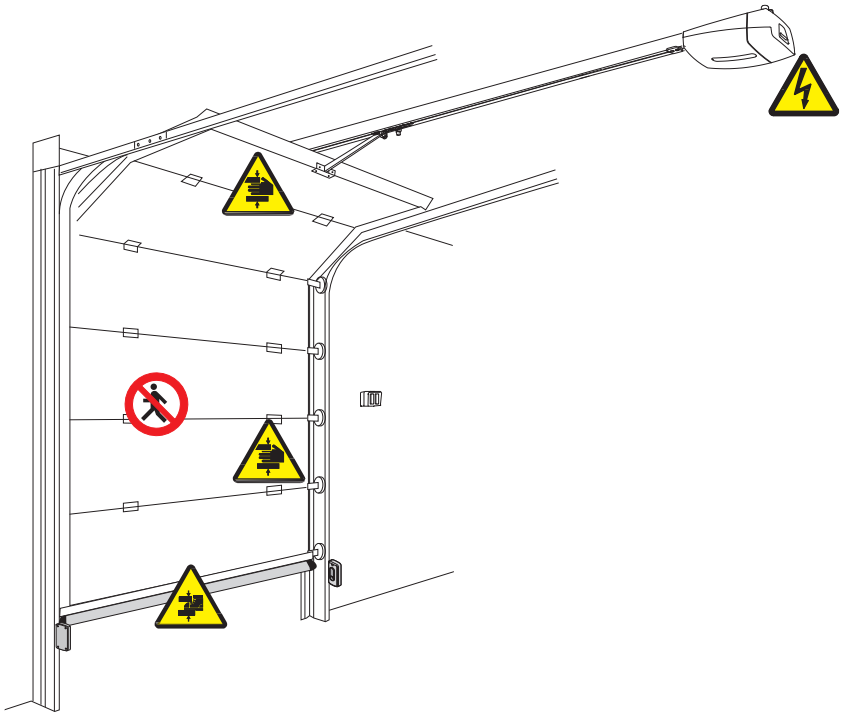
⚽ DISPOSING OF THE PACKAGING

The packaging materials (cardboard, plastic, etc.) can be disposed of easily as solid urban waste, separated for recycling.
Before dismantling and disposing of the product, please always check the local laws in force.
DISPOSE OF THE PRODUCT RESPONSIBLY.

⚽ DISPOSING OF THE PRODUCT

Our products are made of various materials. Most of these materials (aluminium, plastic, iron and electrical cables) are classified as solid urban waste. They can be separated for recycling and disposed of at authorised waste treatment plants.
Other components (electronic boards, transmitter batteries, etc.) may contain pollutants.
These must be removed and disposed of by an authorised waste disposal and recycling firm.
It is always advisable to check the specific laws that apply in your area.
DISPOSE OF THE PRODUCT RESPONSIBLY.

Main points of danger for people



- No transiting while the barrier is moving.
- Danger of crushing.
- Danger of hand crushing.
- Danger of foot crushing.
- Electrical hazard.

PRODUCT DATA AND INFORMATION

Key

This symbol shows which parts to read carefully.

⚠ This symbol shows which parts describe safety issues.

The measurements, unless otherwise stated, are in millimetres.

Description

801MV-0010
VER10DMS – Operator with encoder, complete with control panel for sectional and overhead garage doors.

801MV-0020
VER13DMS – Operator with encoder, complete with control panel for sectional and overhead garage doors.

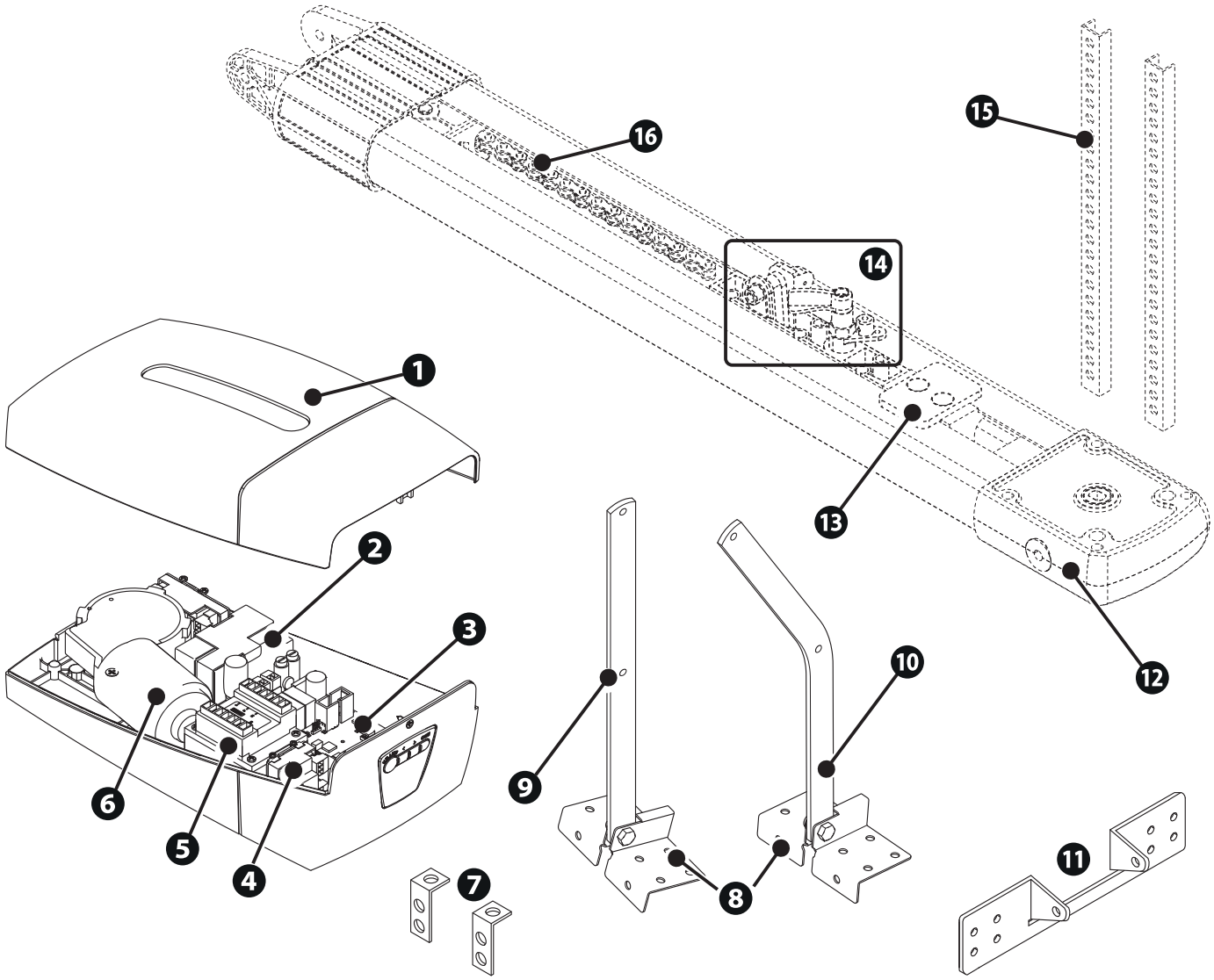
Description of parts

❶ Cover
❷ Housing for two emergency batteries
❸ Control board
❹ Battery compartment
❺ Transformer
❻ Gearmotor
❼ Ceiling brackets
❽ Door bracket
❾ Transmission arm (VER10DMS)*
❿ Transmission arm (VER13DMS)*
⓫ Guide bracket

Additional accessories (not included)

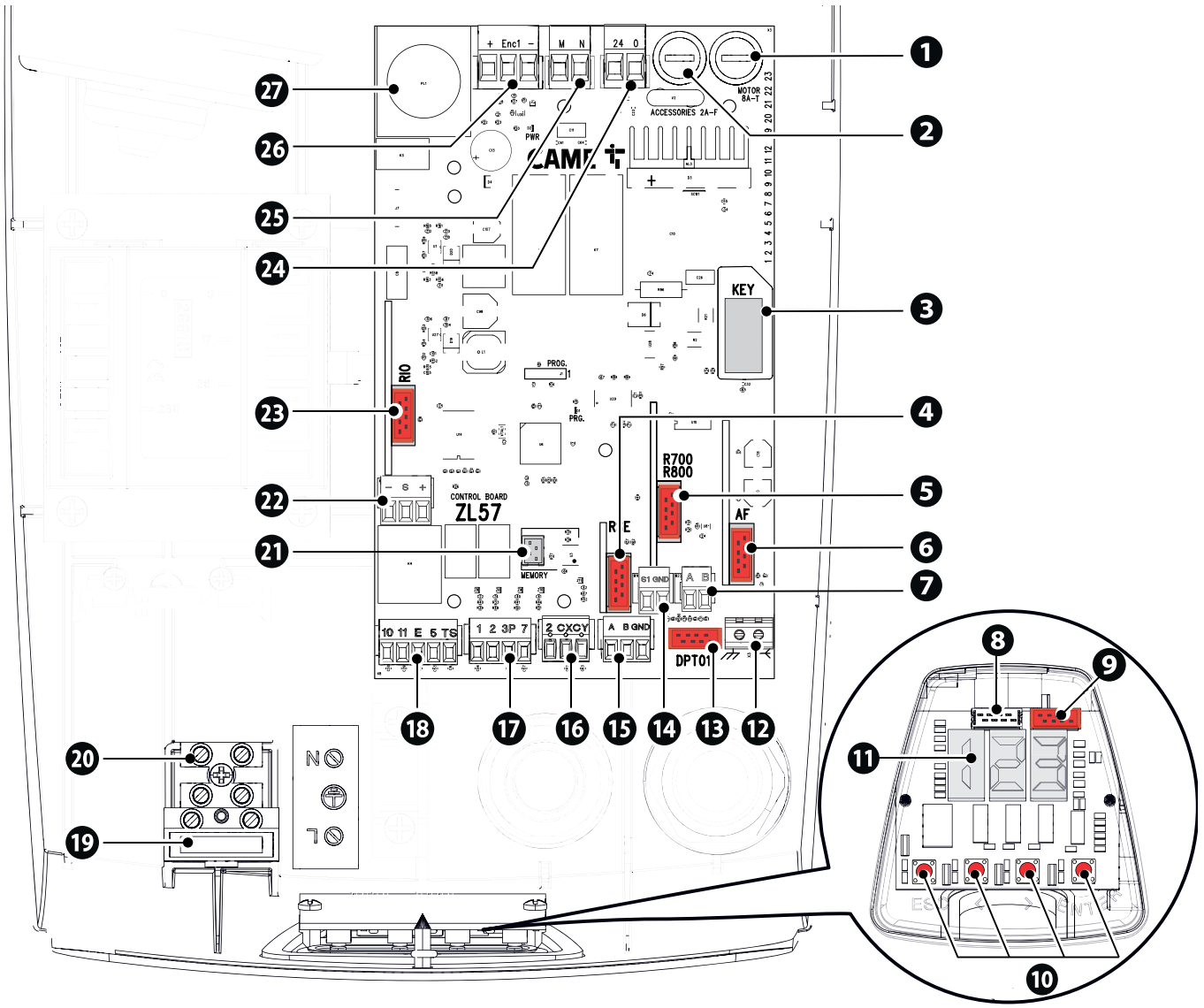
⓬ Guide
⓭ Mechanical stop
⓮ Slide with release lever
⓯ Support rods
⓰ Chain or belt

(*) Only for sectional doors.

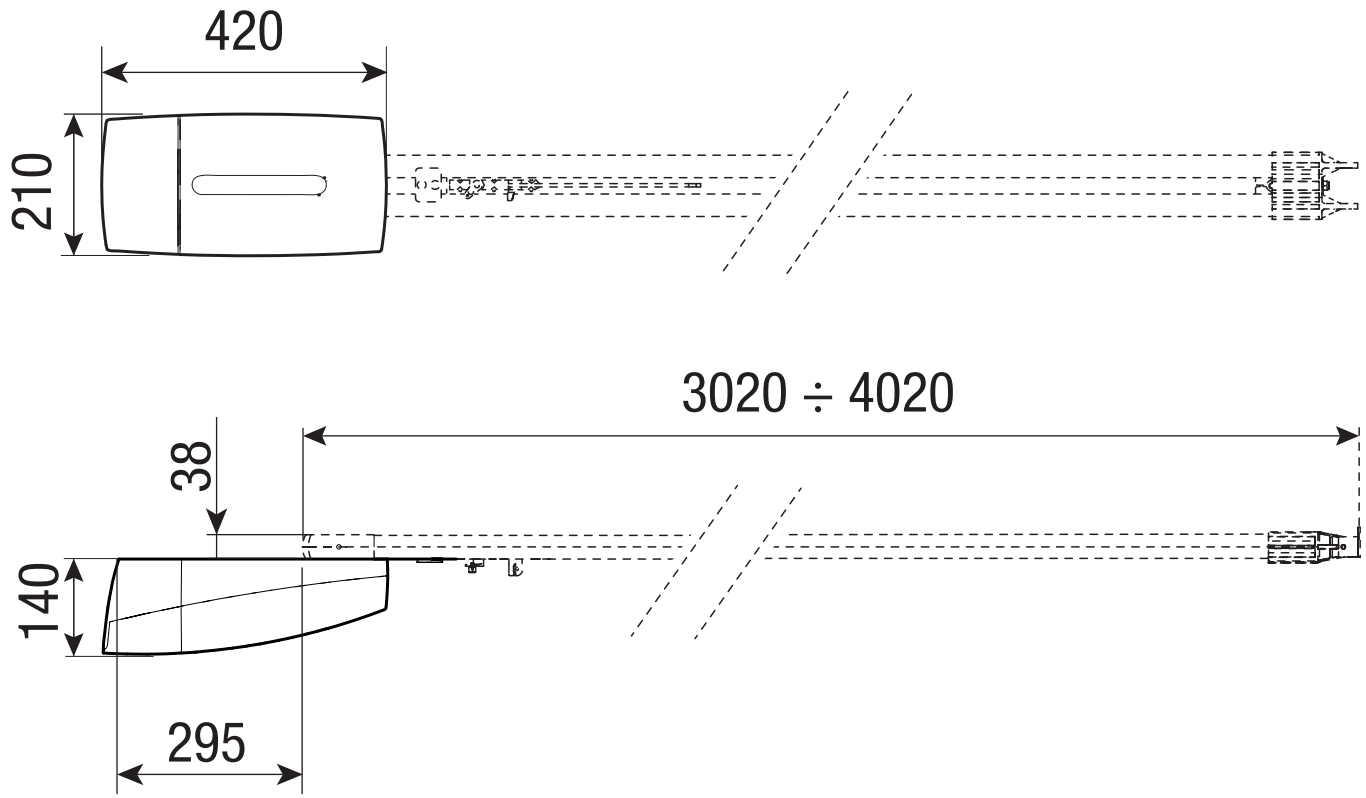


Control board

1. Motor fuse
2. Accessories fuse
3. Connector for CAME KEY device / Wi-Fi – BLE Gateway / Slave module
4. RSE card connector
5. Connector for the R700 or R800 decoding card
6. Connector for plug-in radio frequency card (AF)
7. Terminal board for connecting the keypad selector
8. Not used
9. Control board connector
10. Programming buttons
11. Display
12. Terminal board for connecting the antenna
13. Connector for the DPT01 programming card
14. Terminal board for connecting the transponder selector switch
15. Terminal board for CRP connection
16. Terminal board for connecting the safety devices
17. Terminal board for connecting control devices
18. Terminal board for connecting the signalling devices
19. Line fuse
20. Power supply terminal board
21. Memory Roll card connector
22. Terminal board for connecting the RGP1 module
23. RIO CONN card connector
24. Terminal board for power supply to the control board
25. Terminal board for connecting the gearmotor
26. Terminal board for connecting the encoder
27. Courtesy light



Size



Usage limitations

MODELS	VER10DMS	VER13DMS
Max. door surface area (m^2)	18	21
Max. height counterbalanced overhead garage door (m)	2,40	
Max. height overhead garage door with springs (m)	3,25	
Max. height sectional door (m)	3,20	

Fuse table

MODELS	VER10DMS	VER13DMS
Line fuse	630 mA-T	630 mA-T
Accessory fuse	2 A-F	2 A-F
Motor fuse	8A-T	8A-T

Technical data

MODELS	VER10DMS	VER13DMS
Power supply (V - 50/60 Hz)	230 AC	
Motor power supply (V)	24 DC	
Standby consumption (W)	5	7
Standby consumption with the RGP1 (W) module	0.5	
Power (W)	180	280
Current draw (A)	Max. 10	
Operating temperature (°C)	-20 ÷ +55	
Storage temperature (°C)*	-20 ÷ +70	
Tractive force (N)	1000	1300
Maximum operating speed (m/min)	7	
Cycles/hour	30	
Duty cycle (%)	50	
Sound pressure level (dBA)	≤70	
Protection rating (IP)	40	
Insulation class	I	
Average life (cycles)**	80000	

(*) Before installing the product, keep it at room temperature where it has previously been stored or transported at a very high or very low temperature.
(**) The average product life specified should be understood purely as an indicative estimate. It applies to normal usage conditions and where the product has been installed and maintained in compliance with the instructions provided in the CAME technical manual. The average product life is also affected, including significantly, by other variables such as, but not limited to, climatic and environmental conditions. The average product life should not be confused with the product warranty.

Cable types and minimum thicknesses

Cable length (m)	up to 20	from 20 to 30
Power supply 230 V AC	3G x 1.5 mm^2	3G x 2.5 mm^2
24 V AC/DC flashing beacon	2 x 0.5 mm^2	2 x 0.5 mm^2
Mini KLT flashing beacon	3 x 0.5 mm^2	3 x 0.5 mm^2
TX Photocells	2 x 0.5 mm^2	2 x 0.5 mm^2
Command and control devices	*no. x 0.5 mm^2	*no. x 0.5 mm^2

* no. = see product assembly instructions - Warning: the cable cross-section is indicative and varies according to the motor power and cable length.

📖 When operating at 230 V and outdoors, use H05RN-F cables compliant with 60245 IEC 57 (IEC); when indoors, use H05VV-F cables compliant with 60227 IEC 53 (IEC). For power supplies up to 48 V, use FROR 20-22 II cables compliant with standard EN 50267-2-1 (CEI).

📖 To connect the antenna, use RG58 cable (up to 5 m).

📖 For paired connection and CRP, use UTP CAT5 cable (up to 1,000 m).

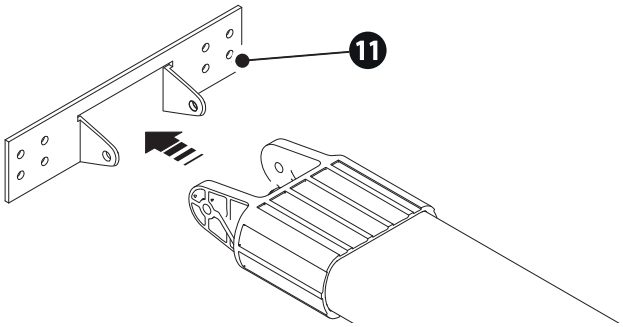
📖 If the cable lengths differ from those specified in the table, define the cable cross-sections according to the actual power draw of the connected devices and in line with regulation CEI EN 60204-1.

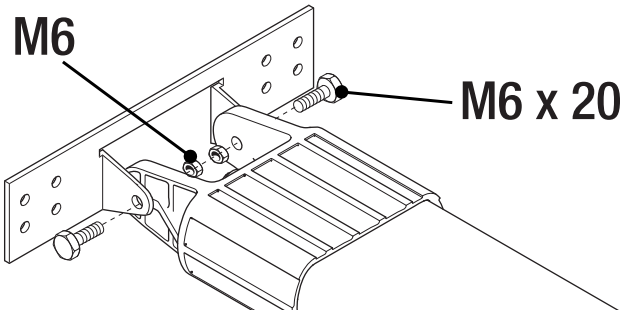
📖 For multiple, sequential loads along the same line, recalculate the values in the table according to the actual power draw and distances. For information on connecting products not covered in this manual, please see the documentation accompanying the products themselves.

INSTALLATION

📖 The following illustrations are examples only. The space available for fitting the operator and accessories varies depending on the area where it is installed. It is up to the installer to find the most suitable solution.

Preparing the guide



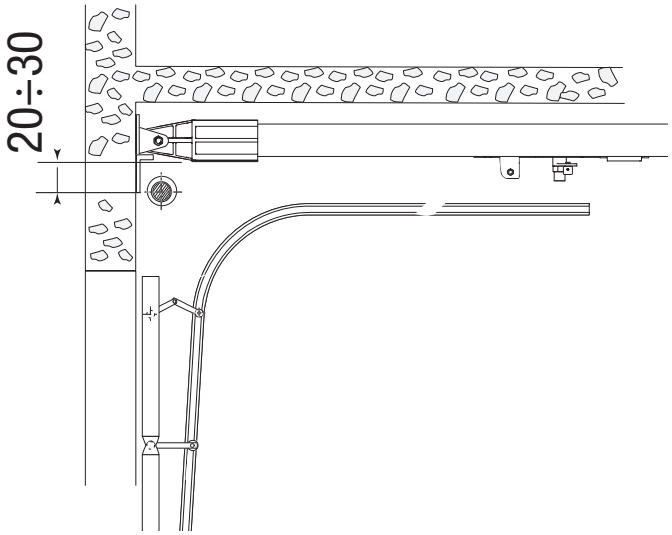


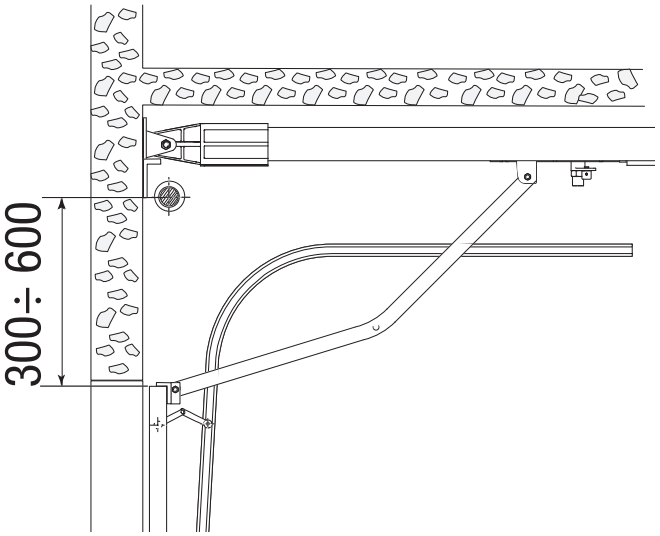
Positioning the guide

Sectional doors

Position the guide above the space for the bracket on the spring pole, observing the measurements shown in the diagram.

📖 If the distance between the spring pole and the upper part of the door is between 300 mm and 600 mm, use the V122 transmission arm (accessory not supplied).

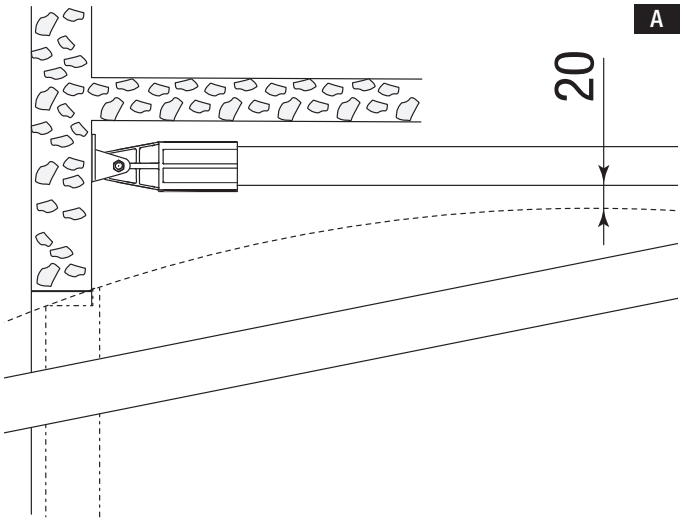


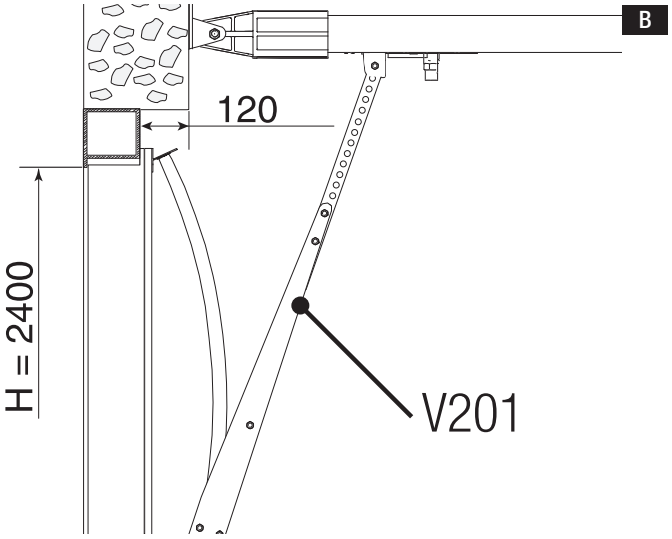


Overhead garage doors

A For overhead garage doors with springs (fully retracting) and counterbalanced overhead doors (partially retracting), position the guide 20 mm above the highest point during opening.

B For counterbalanced garage doors (partially retracting), use the V201 transmission arm (accessory not supplied).

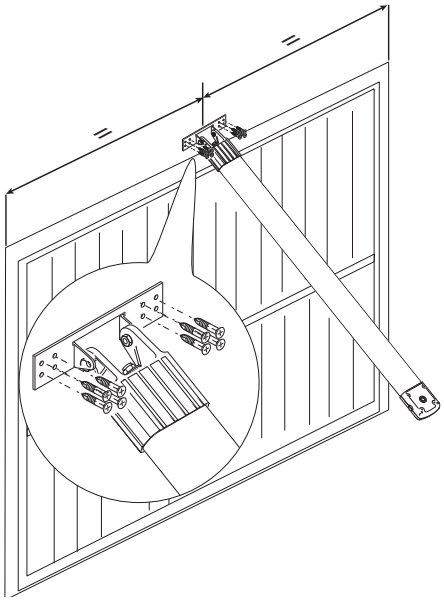


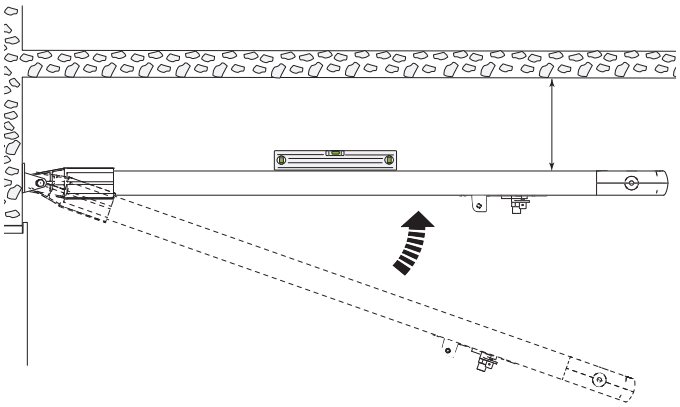


Fastening the guide

Fasten the guide in the middle of the door opening using screws.

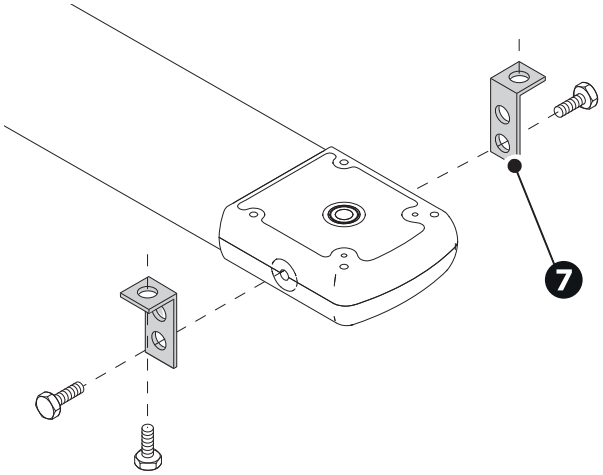
⚠ Position the guide horizontally and make sure you carefully measure the distance from the ceiling, leaving sufficient space, before fastening the guide.

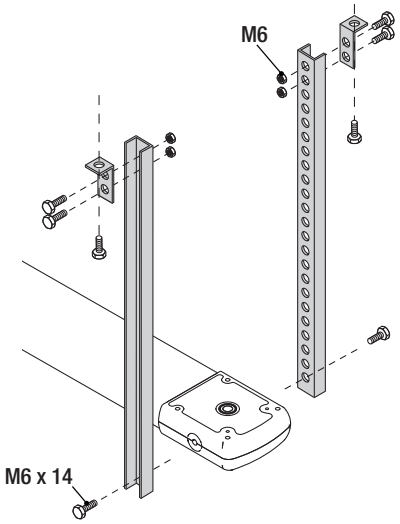




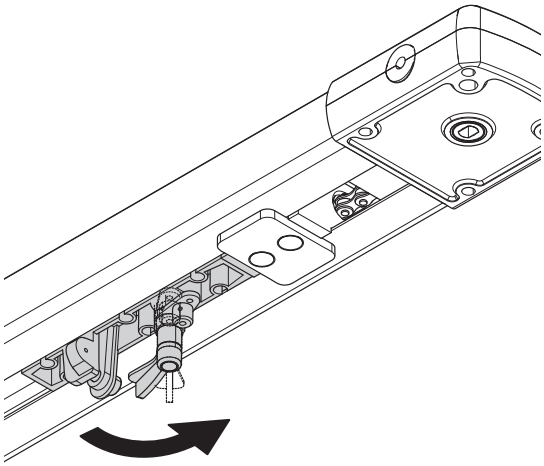
Use the brackets to fasten the guide directly to the ceiling.

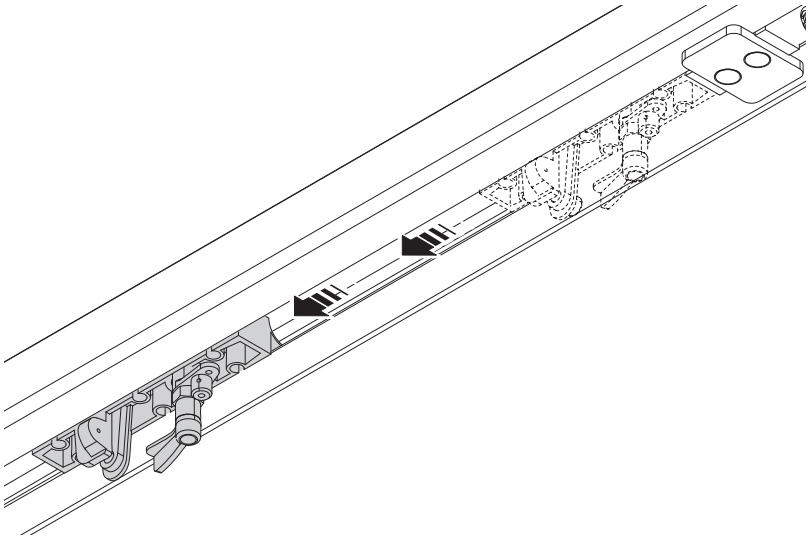
🕮 If the brackets are not sufficient, use additional support rods and adapt them to the desired height.





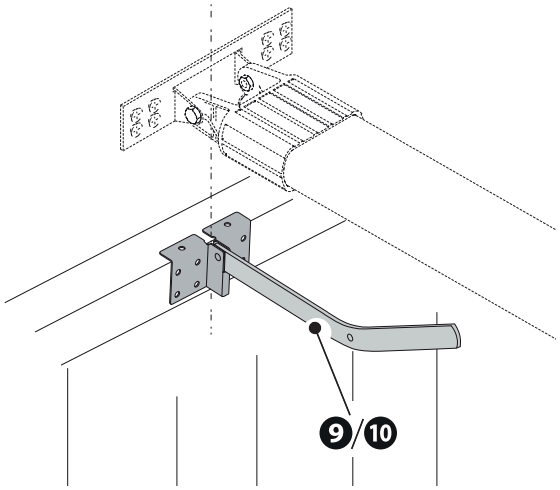
Turn the release lever anticlockwise and move the slide towards the door.

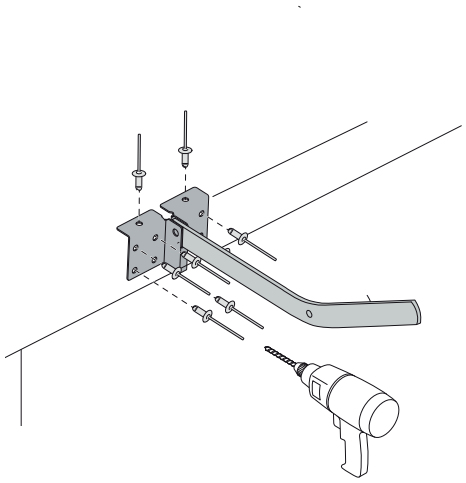




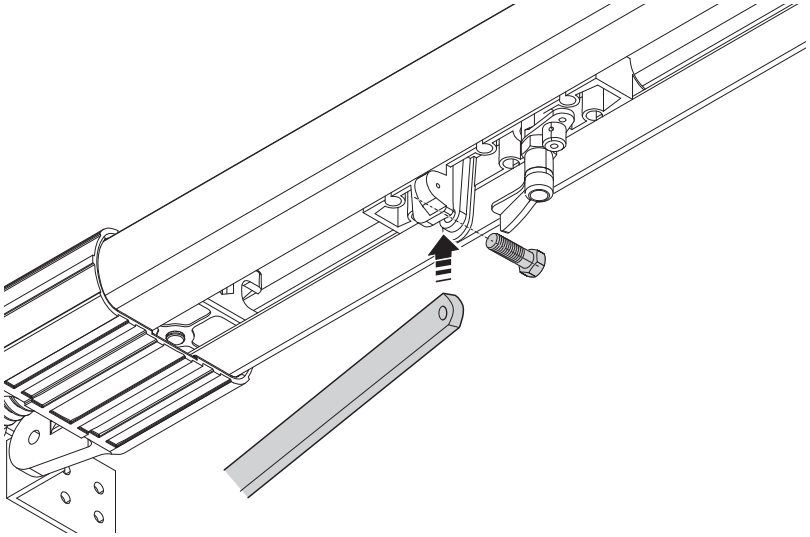
Fitting the transmission arm to the door

Fit the transmission arm bracket to the upper beam on the door, perpendicular to the traction guide.
Fix the bracket using the screws provided or other suitable screws.





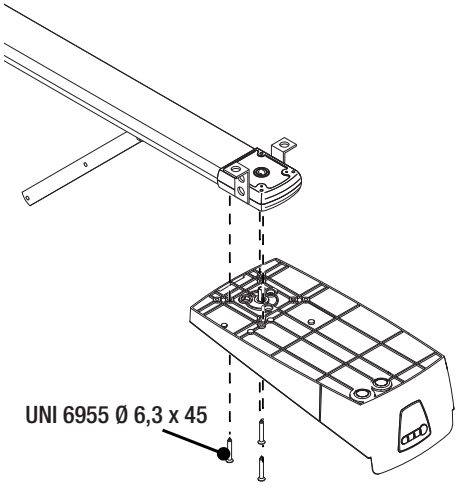
Fasten the transmission arm to the slide using the bolt supplied.

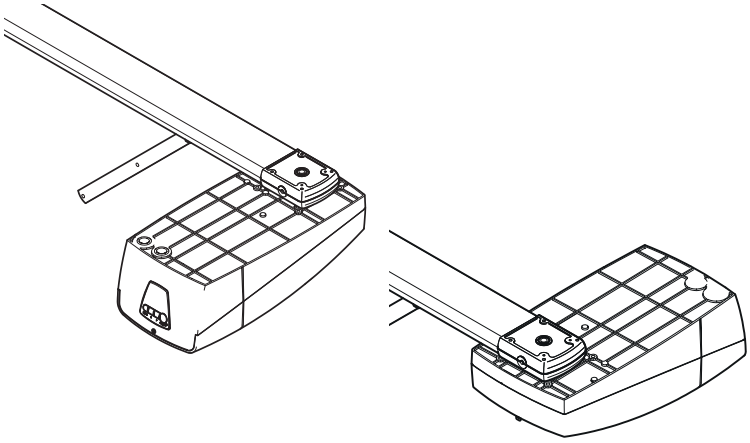


Fastening the operator to the guide

Fasten the operator to the guide using the screws supplied.

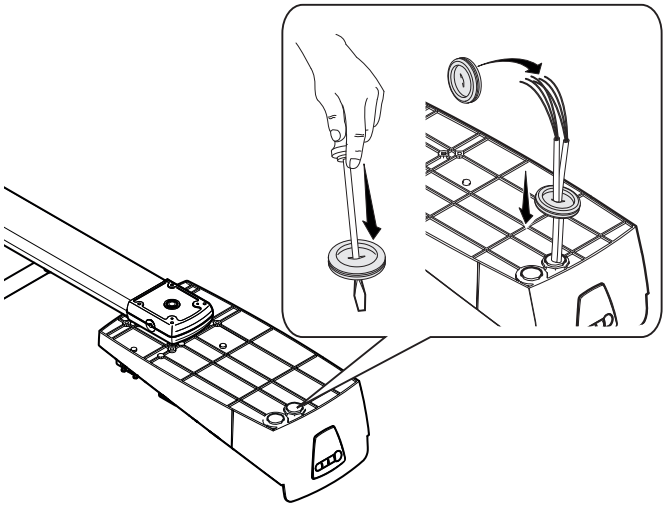
📖 The operator can also be positioned perpendicular to the guide.





Setting up the operator

Make a hole in the cable gland.
Thread the cables through the cable gland.



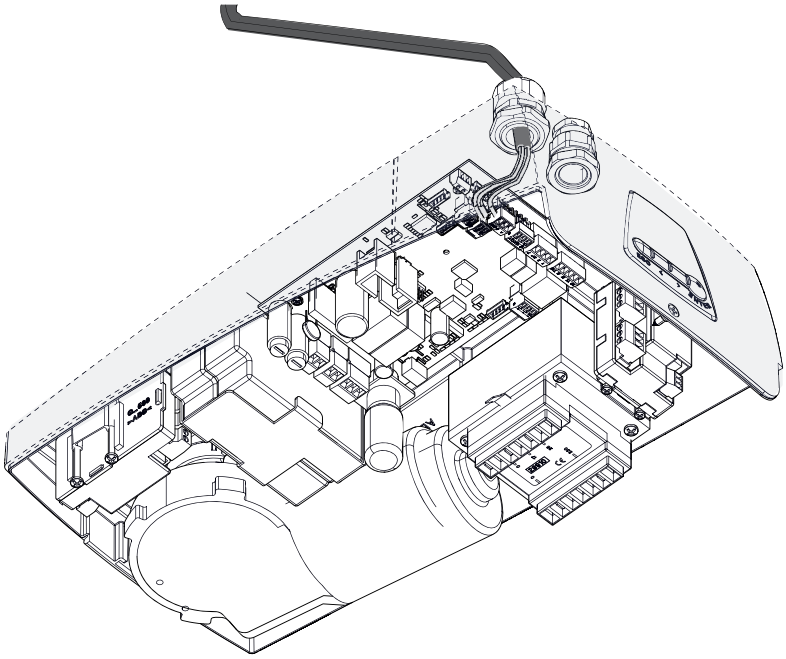
ELECTRICAL CONNECTIONS

Passing the electrical cables

📖 Connect all wires and cables in compliance with the law.

The electrical cables must not touch any parts that may overheat during use (such as the motor and transformer).

📖 Use membrane cable glands to connect the devices to the control panel. One of these must be intended exclusively for the power supply cable.



Power supply

⚠ Before working on the control panel, disconnect the mains power supply and remove the batteries, if any.

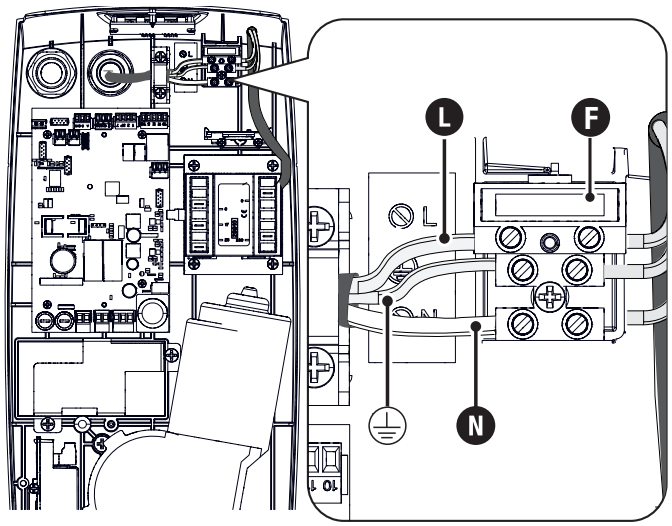
Make sure the mains power supply is disconnected during all installation procedures.

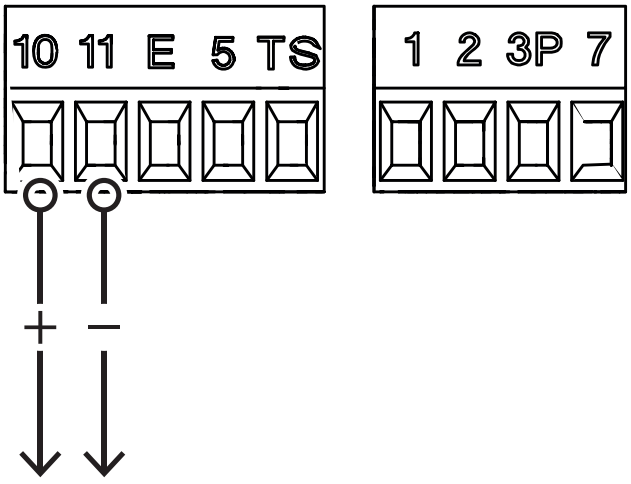
Connecting to the electrical network

Ⓕ Line fuse
Ⓛ Phase
Ⓝ Neutral
⏚ Earth

Power supply output for accessories

The output normally delivers 24 V AC.





Maximum capacity of contacts

The total power of the outputs listed below must not exceed the maximum output power [Accessories]

Device	Output	Power supply (V)	Maximum power (W)
Accessories	10 - 11	24 AC	40
Flashing beacon	10 - E	24 AC	15
Additional light	10 - E	24 AC	15
Passage-open warning light	10 - 5	24 AC	3

The output delivers 24 V DC when the batteries start operating, if they are installed.

Command and control devices

❶ STOP button (NC contact)

This stops the operator and excludes automatic closing. Use a control device to resume movement.

When the contact is being used, it must be activated during programming.

See the [F1 – Total stop] function.

❷ Control device (NO contact)

Open command
Partial Opening command

See the [F8 – 2-3P command] function.

When the [F6 – Hold-to-run] function is active, a control device must be set to OPEN.

❸ Control device (NO contact)

Step-by-step command
Sequential command
Open command
Close command

See function [F7 - 2-7 command].

When the function [F6 - Hold-to-run] is active, a control device must be set to CLOSE.

❹ Card reader

Insert the R700 card into the corresponding connector.

❺ Transponder selector switch

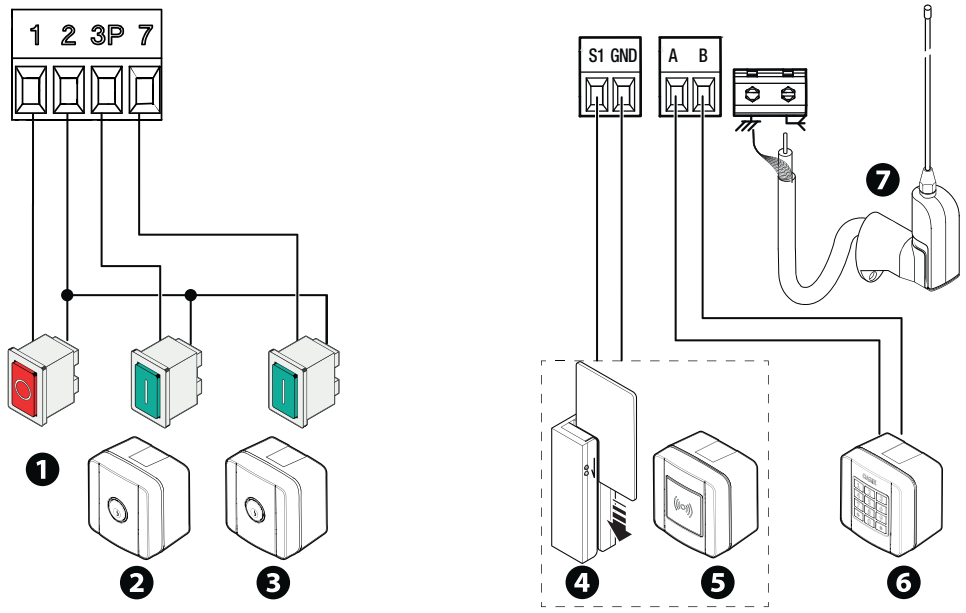
Insert the R700 card into the corresponding connector.

❻ Keypad selector

Insert the R800 card into the corresponding connector.

❼ Antenna with RG58 cable

If the chosen signalling device can be fitted with an antenna, use the terminal shown to connect it.



Signalling devices

❶ Additional light

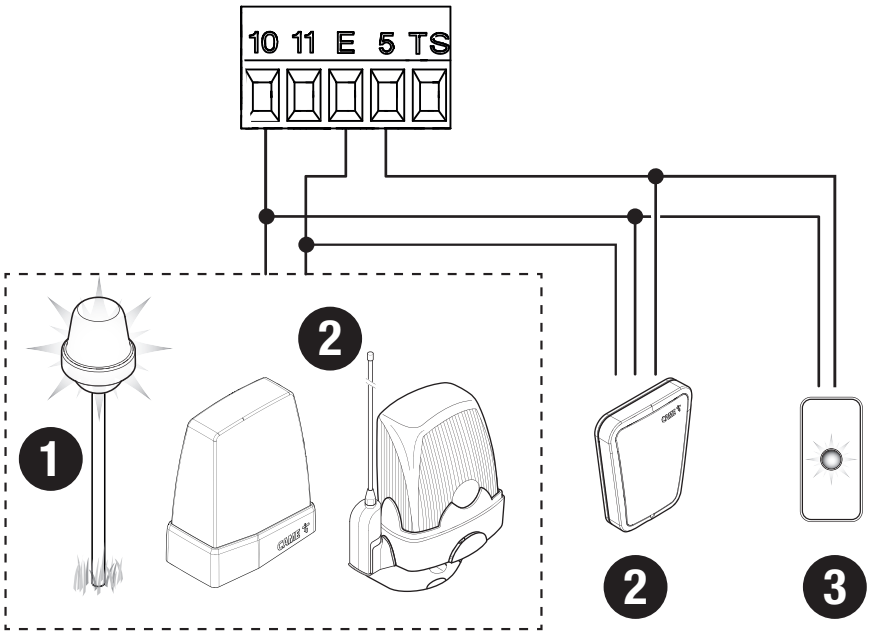
It increases the light in the manoeuvring area.

❷ Flashing beacon

It flashes when the operator opens and closes.

❸ Operator status warning light

It notifies the user of the operator status.



Safety devices

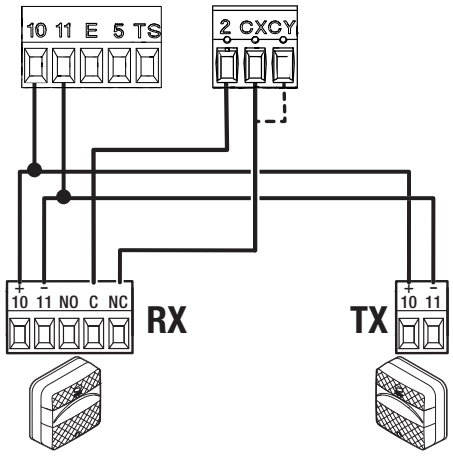
During programming, configure the type of action that must be performed by the device connected to the input.
Connect the safety devices to the CX and/or CY inputs.

📖 If used, the contacts CX CY must be configured during programming.

📖 For systems with multiple pairs of photocells, please see the manual for the relevant accessory.

DELTA photocells

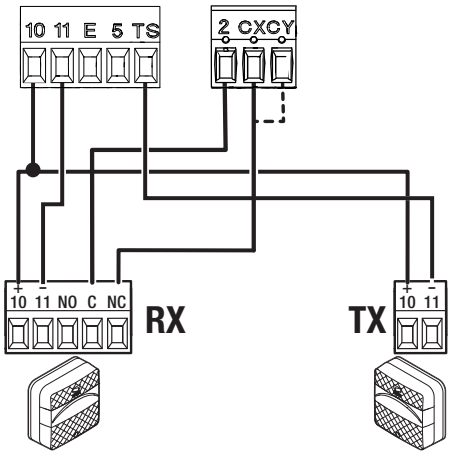
Standard connection



DELTA photocells

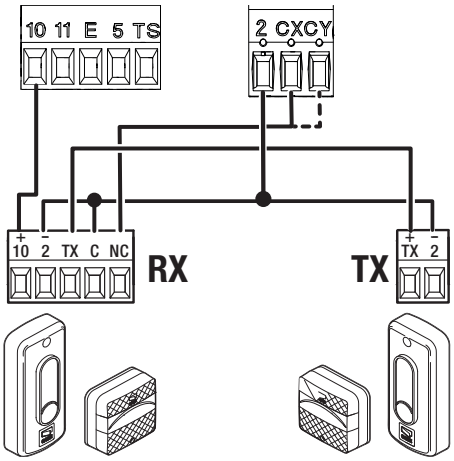
Connection with safety test

📖 See function [F5] Safety devices test.



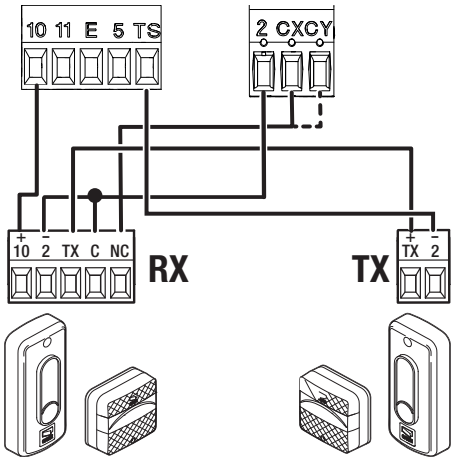
DIR / DELTA-S photocells

Standard connection



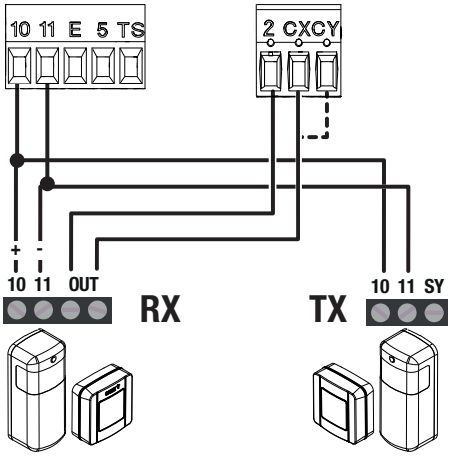
Connection with safety test

See function [F5] Safety devices test.



DXR/DLX photocells

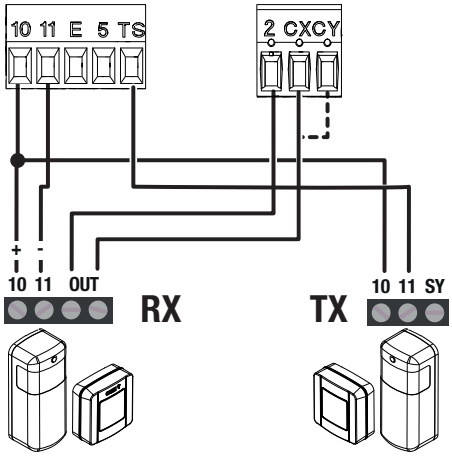
Standard connection



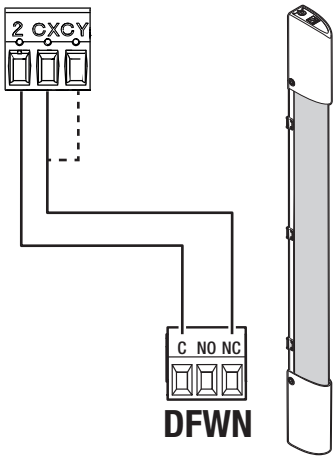
DXR/DLX photocells

Connection with safety test

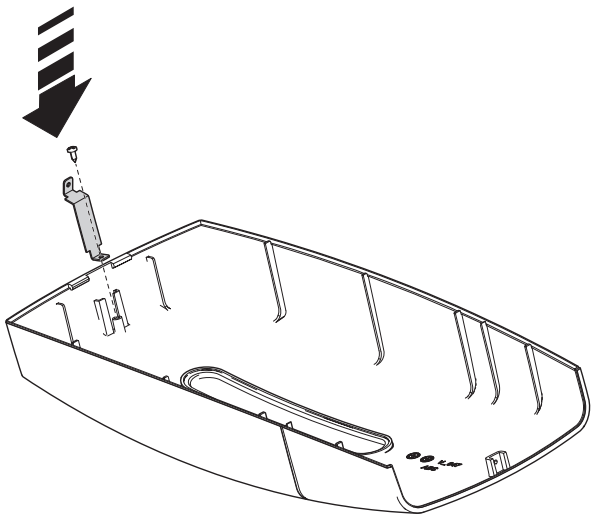
See function [F5] Safety devices test.

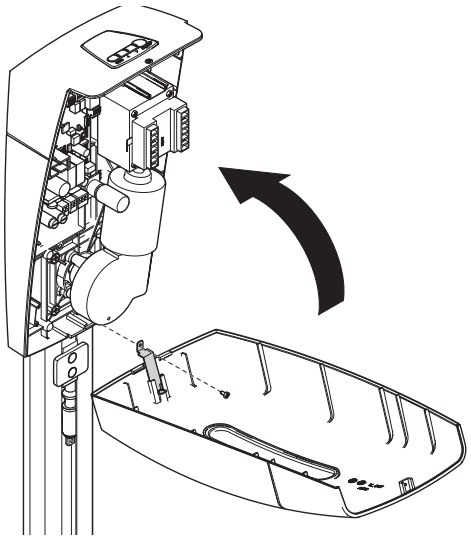


DFWN sensitive edge

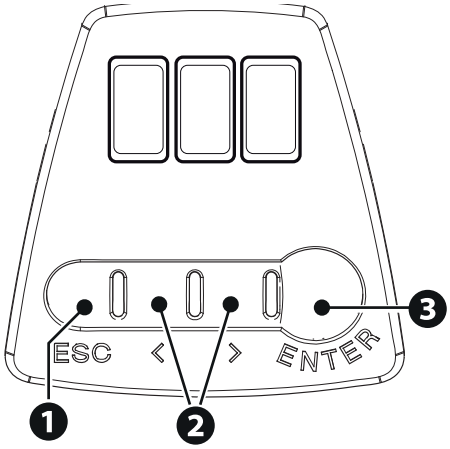


FINAL OPERATIONS





Programming button functions



❶ ESC button

The ESC button is used to perform the operations described below.
Exit the menu
Delete the changes
Go back to the previous screen
Stop the operator (outside the programming menu)

❷ < > buttons

The < > buttons are used to perform the operations described below.
Navigate the menu
Increase or decrease values
< Close command (outside the programming menu)
> Open command (outside the programming menu)

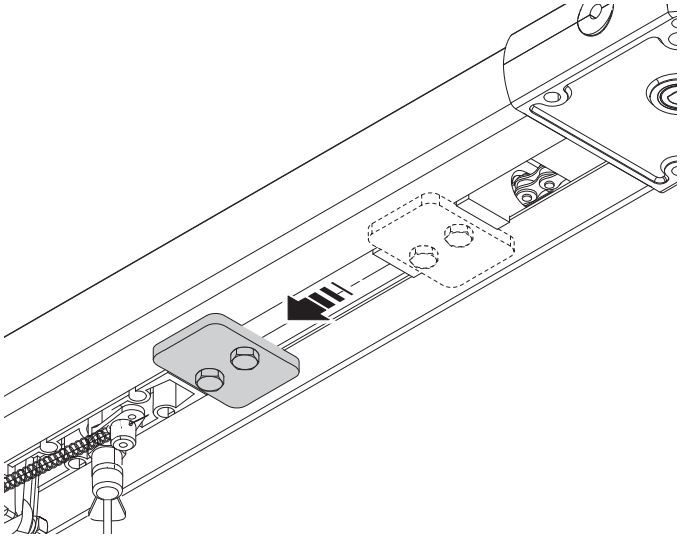
❸ ENTER button

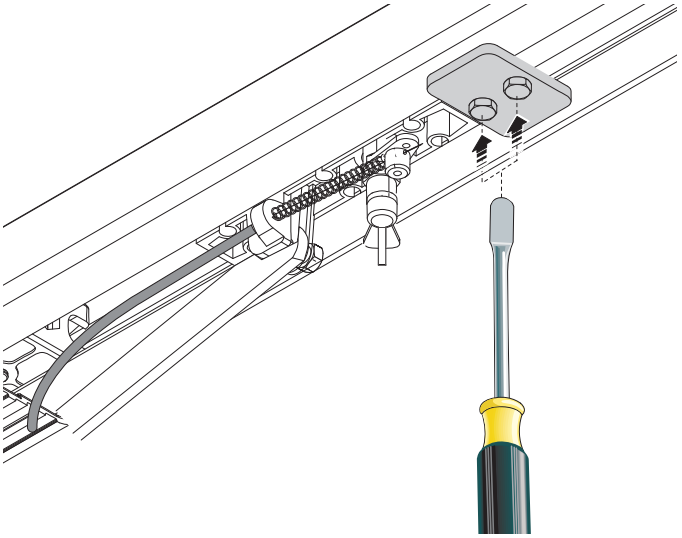
The ENTER button is used to perform the operations described below.
Access menus
Confirm choice

Getting started

📖 Once the electrical connections have been made, proceed with commissioning. Only skilled and qualified staff may perform this operation.

Make sure that there are no obstacles in the way.
Release the door and move it to the opening point.
Position the opening mechanical stop in contact with the slide and fasten it in place.





Lock the door again.
Power up the device and begin programming.
Start programming with the functions indicated below.

F1 - Total stop (only if connected)

A3 - Travel calibration

⚠ Complete programming and check the warning, safety and protection devices, and the manual release, are working properly.

📖 Press the ESC button or STOP button immediately in the event of any faults, malfunctions, strange noises or vibrations, or unexpected behaviour in the system.

Functions menu

📖 The list of functions refers to the latest firmware update. Some functions may not be available for previous versions of the firmware.

Total stop

This stops the operator and excludes automatic closing. Use a control device to resume movement.

📖 With the input open, this function excludes all commands, including any automatic closing.

F1	OFF (Default) ON

CX input

Associate a function with the CX input.

F2	OFF (Default) C1 = Reopen while closing (photocells) C2 = Reclose while opening (photocells) C3 = Partial stop Only with [Automatic close] activated. C4 = Obstacle standby (photocells) C7 = Reopen while closing (sensitive edges) C8 = Reclose while opening (sensitive edges) r7 = Reopen while closing (sensitive edges with 8K2 resistor) r8 = Reclose while opening (sensitive edges with 8K2 resistor)

CY input

Associate a function with the CY input.

F3	OFF (Default) C1 = Reopen while closing (photocells) C2 = Reclose while opening (photocells) C3 = Partial stop Only with [Automatic close] activated. C4 = Obstacle standby (photocells) C7 = Reopen while closing (sensitive edges) C8 = Reclose while opening (sensitive edges) r7 = Reopen while closing (sensitive edges with 8K2 resistor) r8 = Reclose while opening (sensitive edges with 8K2 resistor)

Safety devices test

Check that the photocells connected to the inputs are operating correctly, after each opening and closing command.

F5	OFF (Default) 1 = CX 2 = CY 3 = CX+CY

Hold-to-run

With the function active, the operator stops moving (opening or closing) when the control device is released.

📖 When the function is active, it excludes all other control devices.

F6	OFF (Default) ON

Command 2-7

Associate a command to the connected device on 2-7.

F7	0 = Step-by-step (default) The first command is to open and the second to close. 1 = Sequential The first command is to open, the second to STOP, the third to close and the fourth to STOP. 2 = Open 3 = Close

Command 2-3P

Associate a command to the connected device on 2-3P.

F8	1 = Partial opening (Default) 📖 The degree of partial opening is set as a percentage using the [F36 – Adjusting the partial opening] function. 2 = Open

Obstacle with motor stopped
With the function active and the operator stopped, an open or close command is not performed if the safety devices detect an obstacle.

F9	OFF (Default) ON

Passage-open warning light
Signal the door status.
The device is connected to output/terminal 5.
📖 F10 is disabled if the [F18 – Additional light and light signals] function is set to stop/go mode (3) or GGR mode (4).

F10	0 = Warning light on (default) - The light stays on when the door is moving or open. 1 = Warning light flashing - The light flashes every half a second when the door is opening and remains on when the door is open. The light flashes every second when the door is closing, and remains off when the door is closed.

Soft start
Set a slowdown of a few seconds after each opening and closing command.

F12	OFF ON (Default)

Closing thrust
At the closing limit-switch, the operator briefly exerts a closing thrust.

F13	OFF (Default) 1 = Minimum thrust 2 = Medium thrust 3 = Maximum thrust

Sensor type
Choose the type of access device.

F14	1 = Keypad (Default) 0 = Transponder

Additional light and light signals
Choose the operating mode of the light connected to outputs 10-E and 10-5.

F18	0 =Flashing beacon (Default) 1 = Cycle light - The lamp stays on during the manoeuvre. 📖 This parameter does not appear if there [Automatic Close] function is deactivated. 2 = Courtesy lamp - The light switches on when a manoeuvre starts and remains on once the manoeuvre has finished, for the time set under the function [F25 Courtesy time]. 3 = Stop/go mode - The light flashes red during opening and closing, and remains on and green when it reaches the opening limit-switch. 4 = GGR mode - The light flashes green during opening and red during closing, and remains on and green when it reaches the opening limit-switch.

Automatic closure
Set the time before automatic closure is activated, once the opening travel end point has been reached.
📖 The function does not work if any of the safety devices are triggered when an obstacle is detected, or after a complete stop, or during a power outage.

F19	OFF (Default) From 1 to 180 seconds

Automatic closing after partial opening
Set the time before automatic closure after a partial opening command.
📖 The function does not work if any of the safety devices are triggered when an obstacle is detected, or after a complete stop, or during a power outage.
📖 Do not deactivate the function [F19 – Automatic close].

F20	OFF (Default) From 1 to 180 seconds

Pre-flashing time
Adjust the time for which the beacon connected to 10-E is activated before each manoeuvre.

F21	OFF (Default) 1 to 10 seconds

Courtesy time
Define how many seconds the additional light (set up as courtesy light) stays on after an opening or closing manoeuvre.

F25	60 to 180 seconds (Default 60)

Opening speed
Set the opening speed as a percentage.

F28	60% to 100% (Default 80%)

Closing speed
Set the closing speed (percentage of maximum speed).

F29	60% to 100% (Default 80%)

Slowdown speed
Set the slowdown speed as a percentage.

F30	10% to 60% (Default 40%)

Sensitivity for slowed start when closing
Adjust the obstruction detection sensitivity during slowdown when closing, as a percentage.

📖 This function only appears if the [F47 – Slowed start when closing] function is active.

F32	5% to 100% (Default 100%) 5% = minimum thrust and high obstruction sensitivity 100 % =maximum thrust and low obstruction sensitivity

Calibration speed
Set the travel self-learning speed (percentage of maximum speed).

F33	30% to 60% (Default 50%)

Travel sensitivity
Adjust the obstruction detection sensitivity during boom travel.

F34	10% to 100% (Default 100%) 10% = minimum thrust and high obstruction sensitivity 100 % =maximum thrust and low obstruction sensitivity

Slowdown sensitivity
Adjust the obstruction detection sensitivity during slowdown in percentage terms.

📖 Repeat the impact force tests after a firmware update.

F35	10% to 100% (Default 100%) 10% = minimum thrust and high obstruction sensitivity 100 % =maximum thrust and low obstruction sensitivity

Adjusting the partial opening
Set the partial opening percentage of the door.

F36	10% to 80% (Default 40%)

Opening slowdown adjustment
Set the percentage of the total travel to be used for slowdown during opening.

F41	1% to 60% (Default 5%)

Closing slowdown adjustment
Set the percentage of the total travel to be used for slowdown during closing.

F42	1% to 60% (Default 15%)

Adjusting the closing approach

Set the percentage of the total travel to be used for the closing approach.

F44	1% to 10% (Default 10%)

Slowed start when closing

Adjust the slowed start when closing, as a percentage of the total travel of the door.

F47	OFF = Deactivated 1% to 50% (Default 5%)

RSE communication

Enable CRP.

F49	OFF 3 = CRP/CAME KEY (Default)

Save data

Save user data, timings and configurations to the memory device (memory roll).

📖 The function is displayed only when a memory roll card is inserted into the control board.

F50	OFF (Default) ON (Run operation)

Read data

Upload user data, timings and configurations to the memory device (memory roll).

📖 The function is displayed only when a memory roll card is inserted into the control board.

F51	OFF (Default) ON (Run operation)

CRP address

Assign a unique identification code (CRP address) to the control board.

F56	from 1 to 255

RSE speed

Set the remote connection system communication speed on the RSE port.

F63	0 = 1200 bps 1 = 2400 bps 2 = 4800 bps 3 = 9600 bps 4 = 14400 bps 5 = 19200 bps 6 = 38400 bps (default) 7 = 57600 bps 8 = 115200 bps

RIO ED T1 and RIO ED T2

Associate one of the available functions with a wireless safety device.

📖 The function only appears if the RIO CONN interface board is present.

F65 **F66**	OFF (Default) P0 = It stops the gate and excludes automatic closing. Use a control device to resume movement. P7 = Reopen while closing. P8 = Reclose while opening.

RIO PH T1 and RIO PH T2

Associate one of the available functions with a wireless safety device.

📖 The function only appears if the RIO CONN interface board is present.

F67 **F68**	OFF (Default) P1 = Reopen while closing. P2 = Reclose while opening. P3 = Partial stop. P4 = Obstacle standby.

New user

Register up to a maximum of 250 users and assign a function to each one.

📖 The operation can be carried out by using a transmitter or another control device. The boards that manage the control devices (AF - R700 - R800) must be inserted into the connectors.

U1	1 = Step-by-step The first command is to open and the second to close. 2 = Sequential The first command is to open, the second to STOP, the third to close and the fourth to STOP. 3 = Open 4 = Partial opening Choose the function to be assigned to the user. Press ENTER to confirm. The free position in the memory is shown intermittently for a maximum of 10 seconds. During this phase, send the code from the control device. Repeat the procedure to add other users.

Remove user

Remove one of the registered users.

U2	No. 1 > 250 Use the arrows to choose the number associated with the user you want to remove. Alternatively, the control device associated with the user you want to remove can be activated. Press ENTER to confirm. 📖 "CLr" will appear to confirm deletion.

Remove all

Remove all registered users.

U3	OFF (Cancel operation) ON (Run operation)

Radio decoding

Choose the type of radio coding for the transmitters enabled to control the operator.

📖 If you choose the type of radio coding for the transmitters [Rolling code] or [TW key block], any transmitters with a different type of radio coding saved previously will be deleted.

U4	1 = All decoding (default) 2 = Rolling code 3 = TW key block

Motor force

Set the motor force during opening.

A1	1 = Standard force (Default) The motor guarantees a maximum lift of 20 kg beyond the necessary lifting of the door. 2 = Double force The maximum lift is 40 kg beyond the necessary lifting of the window/door.

Motor test

Check the gearmotor rotates in the correct direction.

A2	Press the < key to run an opening manoeuvre. Press the > key to run a closing manoeuvre.

Travel calibration

Start the travel self-learning.

⚠ During calibration, all safety devices are disabled, except for the STOP button [F1 – Total stop].

A3	OFF (Cancel operation) ON (Run operation)

Parameter reset
Restores the factory settings, including the travel calibration settings.

A4	OFF (Cancel operation) ON (Run operation)

Manoeuvre counter
View the number of operator manoeuvres.
001 = 100 manoeuvres / 010 = 1000 manoeuvres /100 = 10000 manoeuvres / 999 = 99900 manoeuvres / CSI = maintenance job

A5	Tot = total manoeuvres - Manoeuvres performed since the operator was installed.

Adjusting the motor torque
Adjust the motor torque.

A6	1 to 5 (Default 5) - 1 minimum torque - 5 maximum torque

FW version
Display the firmware version.

H1	

Import/export data

Save user data and system configuration data on a MEMORY ROLL card.
The stored data can be reused for another control board of the same type to carry across the same configuration.

⚠ Before inserting and removing the MEMORY ROLL card, DISCONNECT THE MAINS POWER SUPPLY TO THE LINE.

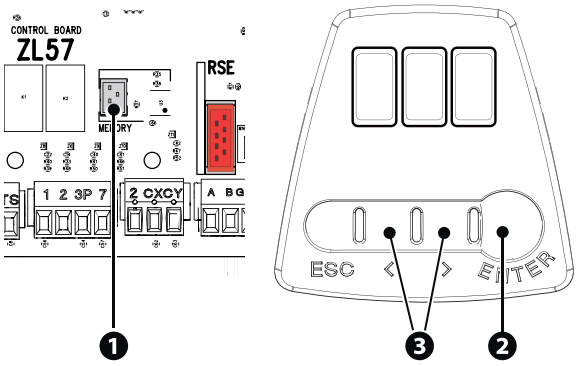
❶ Insert the MEMORY ROLL card into the corresponding connector on the control board.
❷ Press the "Enter" button to access programming.
❸ Use the arrows to choose the desired function.

🕮 The functions are displayed only when a MEMORY ROLL card is inserted.

F50 -Save data
Save user data, timings and configurations to the memory device (memory roll).

F51 -Read data
Upload user data, timings and configurations to the memory device (memory roll).

🕮 Once the data have been saved and loaded, the MEMORY ROLL can be removed.



DISPLAY WARNINGS KEY

C<n>	Wired safety device active 📖 The <n> value is associated with the selected parameter for the functions [F2 - CX input] [F3 - CY input].
r7	R7 safety device (sensitive edge) active
r8	R8 safety device (sensitive edge) active
C0	Total stop active
P<n>	RIO safety device active 📖 The <n> value is associated with the selected parameter for the functions [RIO ED T1 - RIO ED T2] and [RIO PH T1 - RIO PH T2]
A3 (scrolling)	Calibrate the travel
OP.	Passage fully open
CL.	Passage fully closed

ERROR MESSAGES

E2	Calibration error
E3	Encoder failure error
E4	Service test failure error
E7	Operating time error
E9	Consecutive obstacles detected during closing
E10	Consecutive obstacles detected during opening
E11	The maximum number of obstacles detected consecutively has been exceeded
E15	Incompatible transmitter error
E17	Wireless system communication error
E18	Wireless system not configured error

AFFIX THE PRODUCT LABEL
FROM THE BOX HERE

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