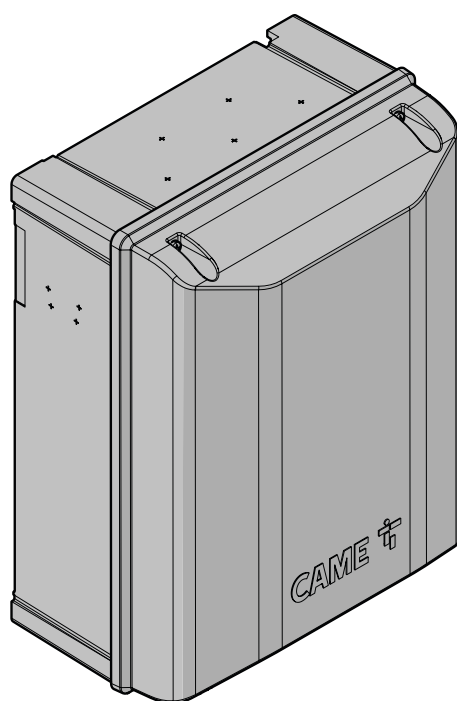


Control panel for 24 V gearmotors

FA02252-EN



ZLX24MA

ZLX24MR

INSTALLATION MANUAL

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⚠ 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 has been designed to be assembled to partly completed machinery and/or equipment so as to build machinery as regulated by the Machinery Directive 2006/42/EC. • 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. • All the components (e.g. actuators, photocells and sensitive edges) needed for the final installation to comply with the Machinery Directive (2006/42/EC) and with the reference harmonised technical standards are specified in the general CAME product catalogue or on the website www.came.com. • Check that the temperature ranges given are suitable for the installation site. • Make sure that no direct jets of water can wet the product at the installation site (sprinklers, water cleaners, etc.). • 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. • 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. • 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. • Make sure that nobody can become trapped between the guided and fixed parts, when the guided part is set in motion. If you are automating a pedestrian gate that moves horizontally, this can be achieved if the corresponding distance is less than 8 mm. However, the distances indicated below are sufficient to avoid trapping the corresponding body parts:

- fingers, more than 25 mm;
- feet, more than 50 mm;
- head, more than 300 mm;
- for the entire body, more than 500 mm.

If you cannot achieve these distances, you will need to take suitable safety precautions. • 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. In the case of a hold-to-run control, this must be installed at a minimum height of 1.5 m from the ground and must not be accessible to the public. • 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. • 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. • 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). • 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 assistance centre, 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.

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. Simply 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

PRODUCT DATA AND INFORMATION

Key

 This symbol shows which parts to read carefully.

 This symbol shows which parts describe safety issues.

 This symbol shows what to tell users.

The measurements, unless otherwise stated, are in millimetres.

Description

801QA-0050

Multifunction control panel, with 230 VAC power supply, for 24 V swing gates with two leaves, with programming display and signalling, safety device self-diagnostics, adaptive speed and torque technology, BUS CXN, 2 safety inputs and memory space for up to 250 users.

801QA-0070

Multifunction control panel, with 120 VAC power supply, for 24 V swing gates with two leaves, with programming display and signalling, safety device self-diagnostics, adaptive speed and torque technology, BUS CXN, 2 safety inputs and memory space for up to 250 users.

Intended use

 After the Green Power module has been connected to the control panel, the product complies with Regulation (EU) 2023/826 regarding ecodesign requirements for energy consumption in standby and off mode for household and office equipment.

Technical data

MODELS	ZLX24MA	ZLX24MR
Power supply (V - 50/60 Hz)	230 AC	120 AC
Motor power supply (V)	24 DC	24 DC
Board power supply (V)	26 AC	26 AC
Power (W)	360	360
Transformer thermal protection (°C)	120	120
Colour	RAL 7040	RAL 7040
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55
Storage temperature (°C)*	-25 ÷ +70	-25 ÷ +70
Encoder	YES	YES
Protection rating (IP)	54	54
Insulation class	I	I
Average life (cycles)**	100.000	100.000

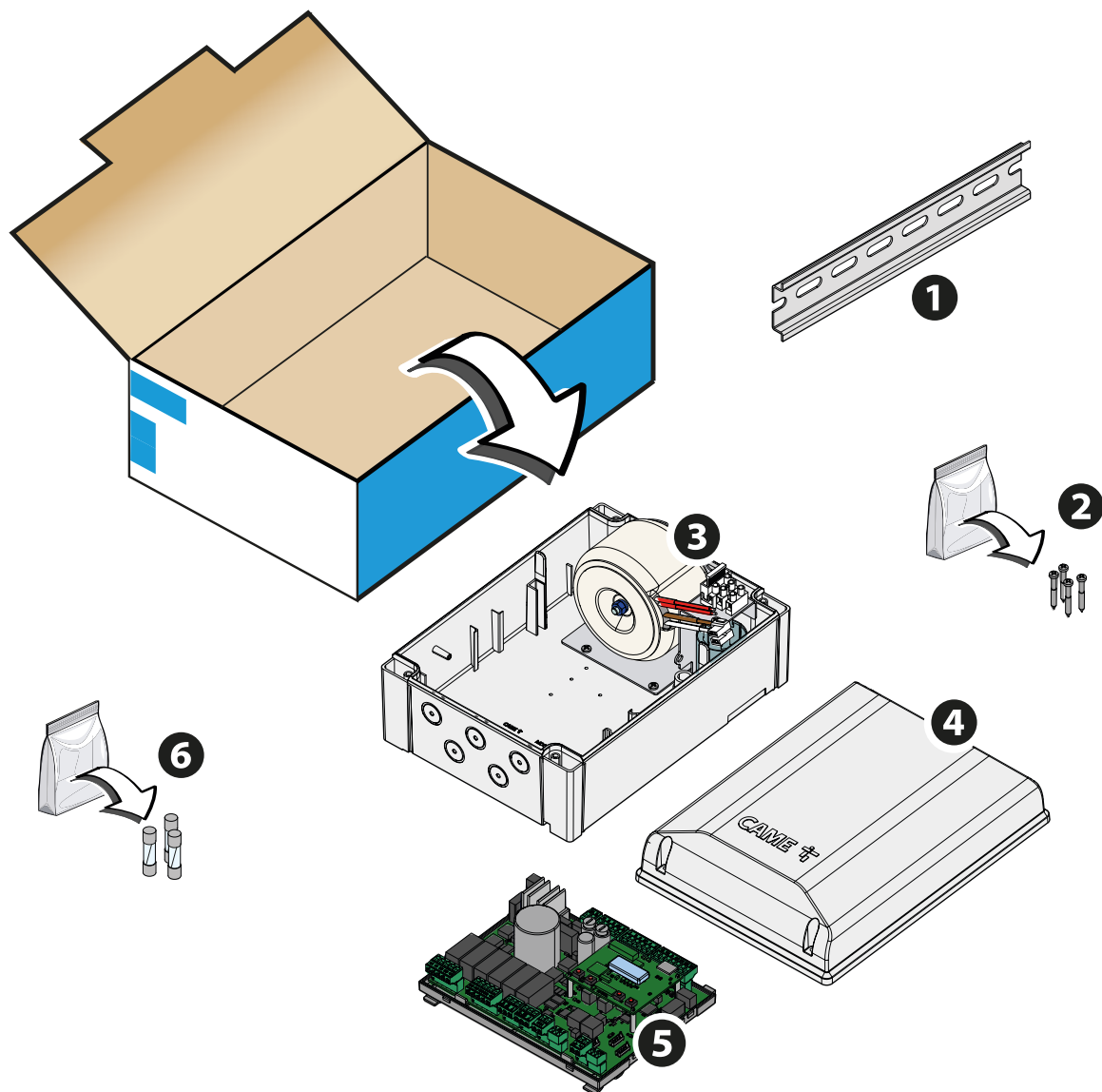
(*) Before installing the product, keep it at room temperature where it has previously been stored or transported at a very high or very low temperature.

(**) The average product life is a purely indicative estimate. It applies to compliant usage, installation and maintenance conditions. It is also influenced by other factors, such as climatic and environmental conditions (where present, see the MCBF table).

Fuse table

MODELS	ZLX24MA	ZLX24MR
Line fuse	3.15 A F	4 A F
Control-board fuse	1.6 A T	1.6 A T
Accessories fuse	1.6 A F	1.6 A F

Description of parts

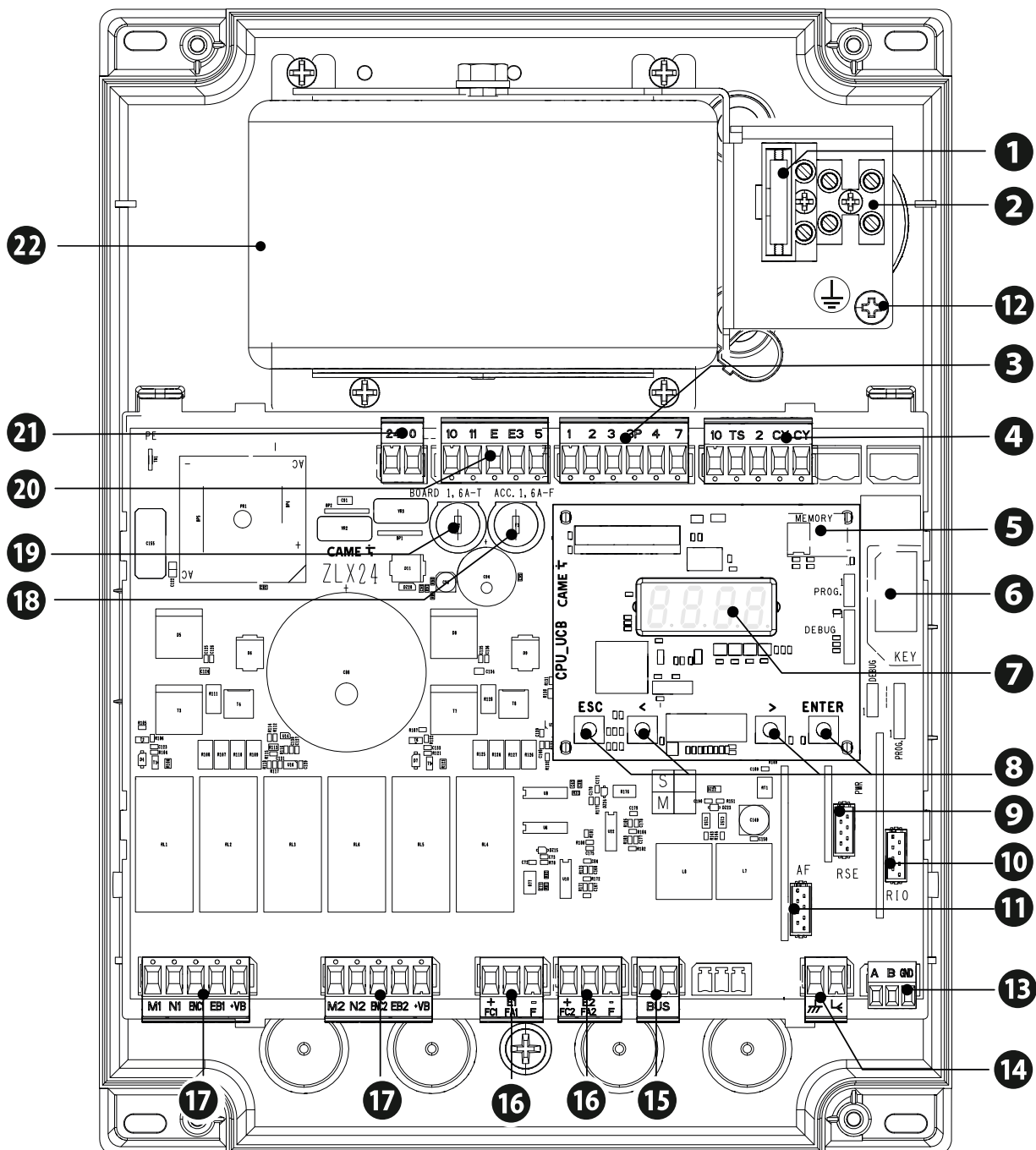


- ❶ DIN rail
- ❷ Cover fastening screws
- ❸ Control panel bottom with power transformer and terminal board

- ❹ Control panel cover
- ❺ Control board with card slot
- ❻ Spare fuses

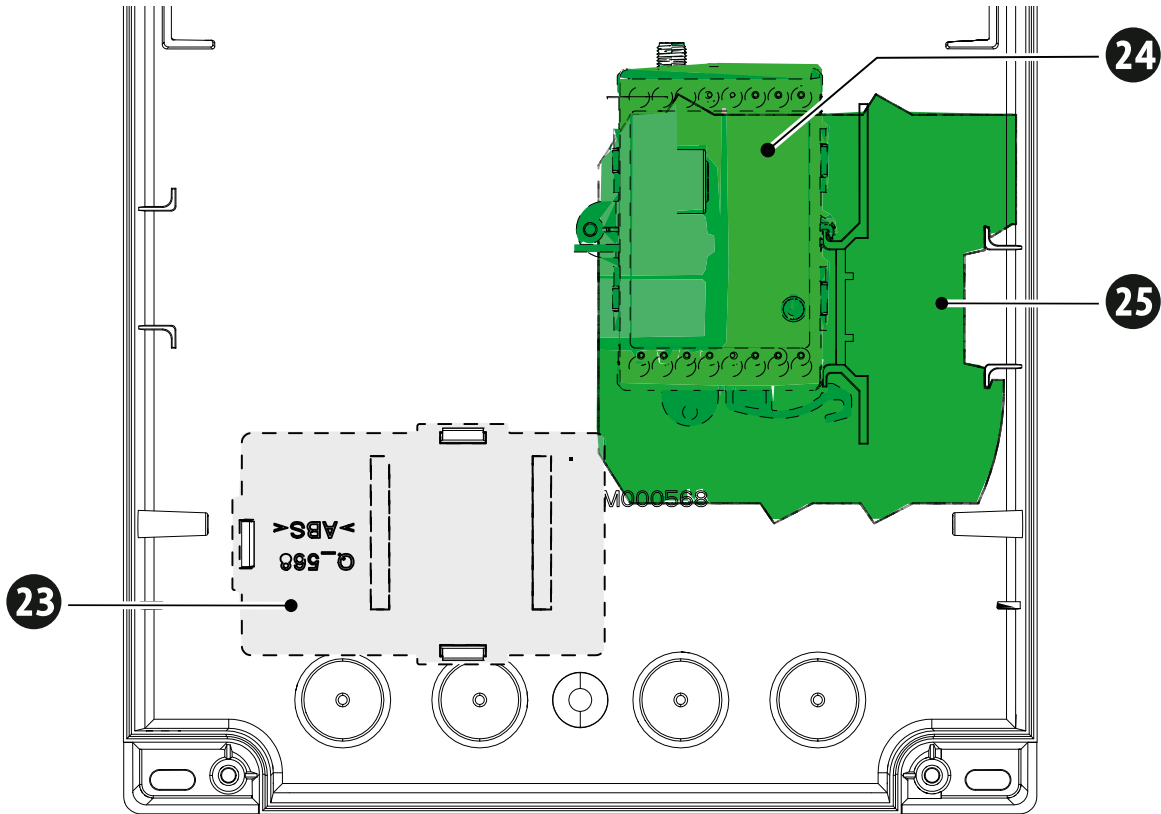
Description of parts

- ❶ Line fuse
- ❷ Power supply terminal board
- ❸ Terminal board for connecting control devices
- ❹ Terminal board for connecting the safety devices
- ❺ Memory Roll card connector
- ❻ Connector for CAME KEY
- ❼ Display
- ❽ Programming buttons
- ❾ RSE card connector
- ❿ RIO CONN card connector
- ⓫ Connector for plug-in radio frequency card (AF)
- ⓬ Earthing star point
- ⓭ Terminal board for CRP connection
- ⓮ Terminal board for connecting the antenna
- ⓯ Terminal board for CXN BUS accessories
- ⓰ Terminal boards for connecting micro limit switches and/or encoders
- ⓱ Terminal board for connecting the gearmotor with encoder or with slowdown switch and electric lock
- ⓲ Accessories fuse
- ⓳ Control board fuse
- ⓴ Terminal board for connecting the signalling devices
- ⓵ Terminal board for power supply to the control board
- ⓶ Transformer

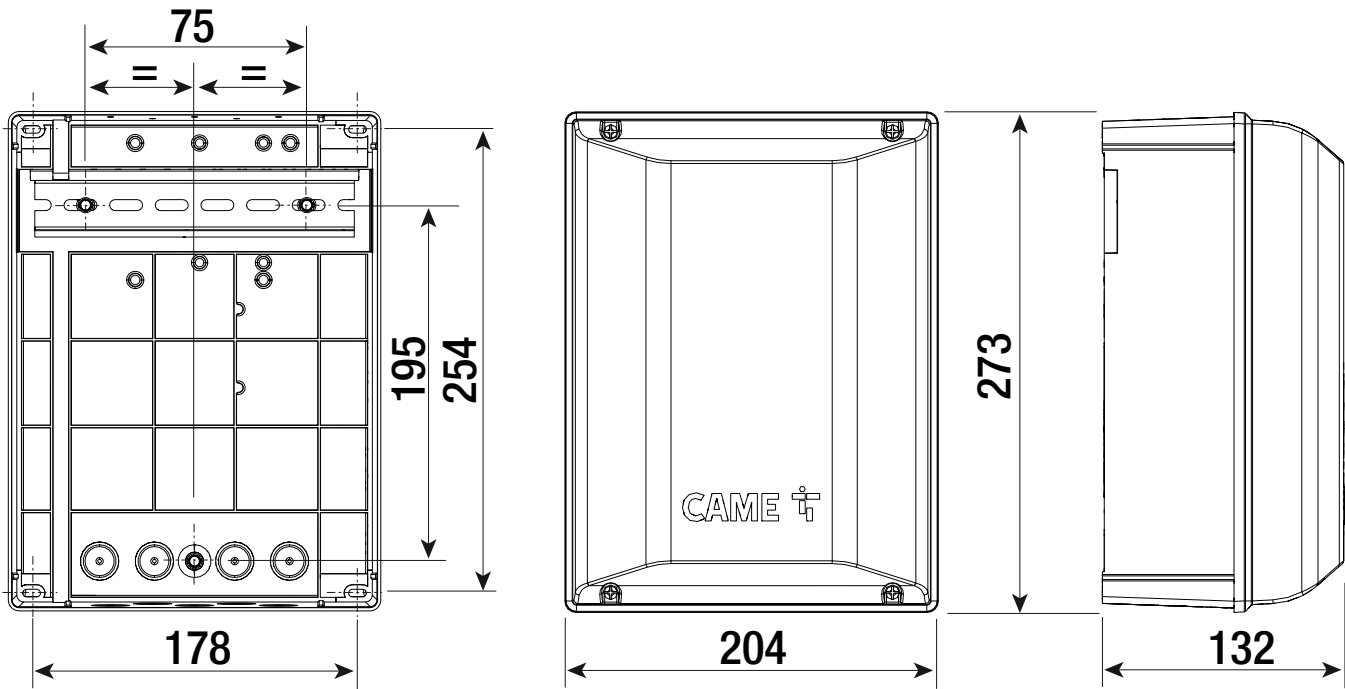


Optional accessories

- 23 RLB battery charger board (002RLB)
- 24 RGSM001 module (806SA-0010)
- 25 SMA module (009SMA)



Size



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
TX Photocells	2 x 0.5 mm ²	2 x 0.5 mm ²
RX photocells	4 x 0.5 mm ²	4 x 0.5 mm ²
Electric lock or electromagnet	2 x 1 mm ²	2 x 1.5 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 that are IEC 60245 (IEC 57) compliant; when indoors, use H05VV-F cables that are IEC 60227 (IEC 53) compliant; 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).

 To connect to the CRP, use a UTP CAT5 cable (up to 1,000 m long).

 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.

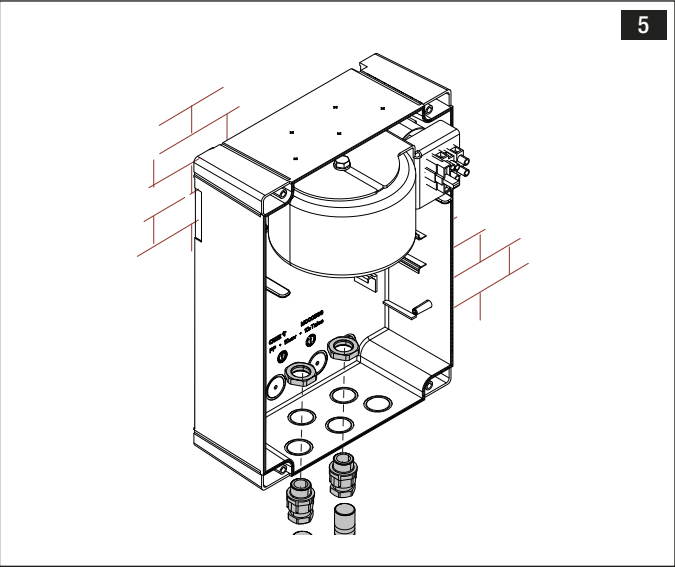
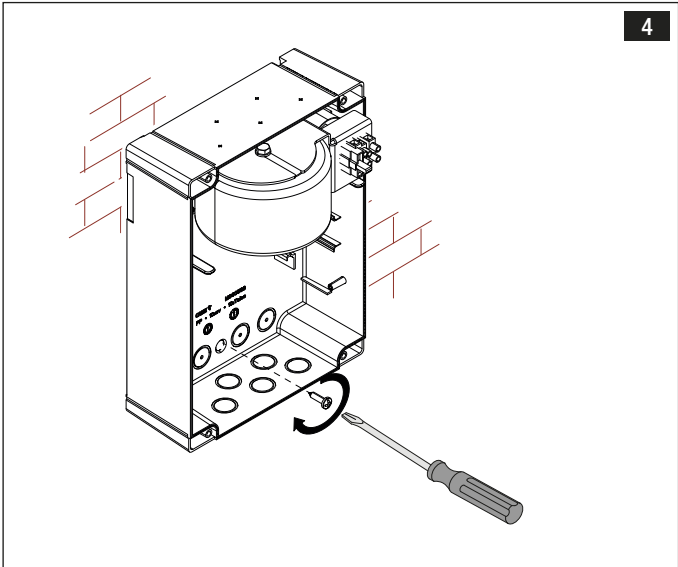
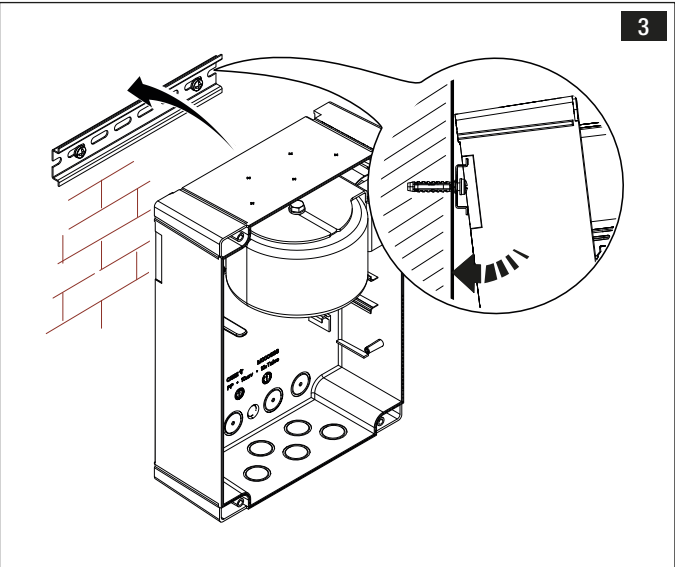
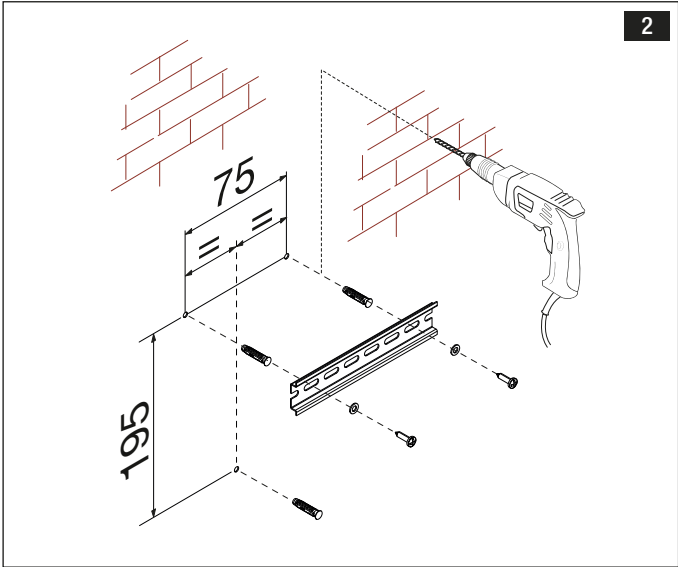
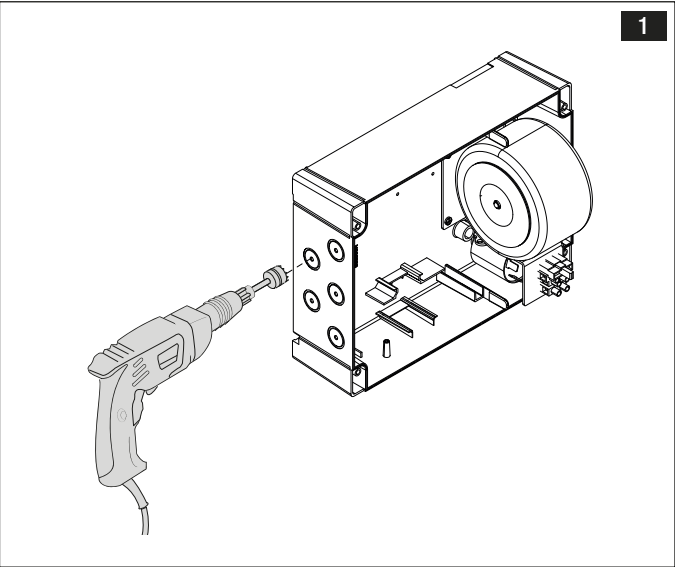
 For multiple, sequential loads along the same line, recalculate the values in the table according to the actual power draw and distances. For information on connecting products not covered in this manual, please see the documentation accompanying the products themselves.

 To connect the encoder, use a FRORPU 3 x 0.5 mm² cable or a cable supplied by CAME on request (item code 801XA-0020).

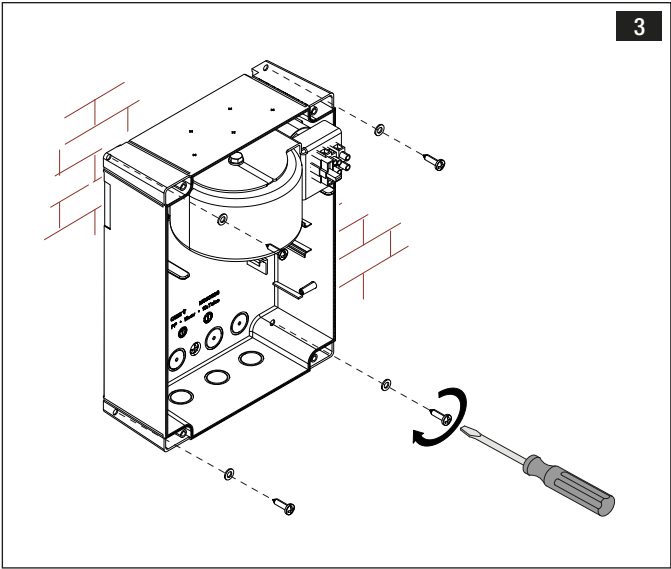
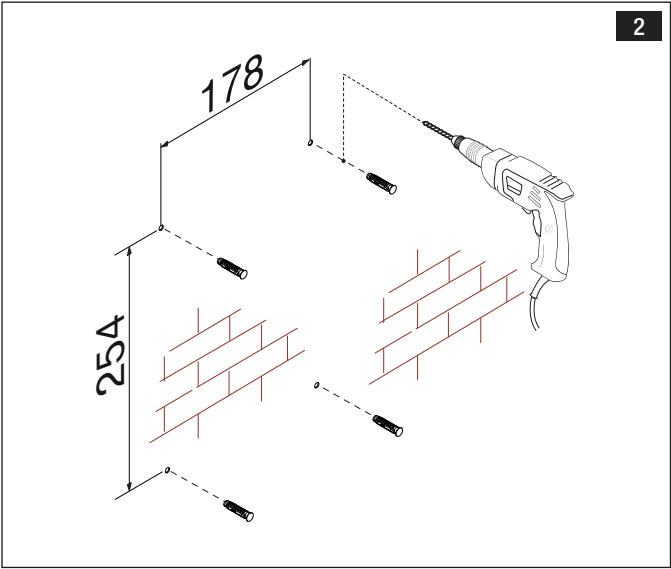
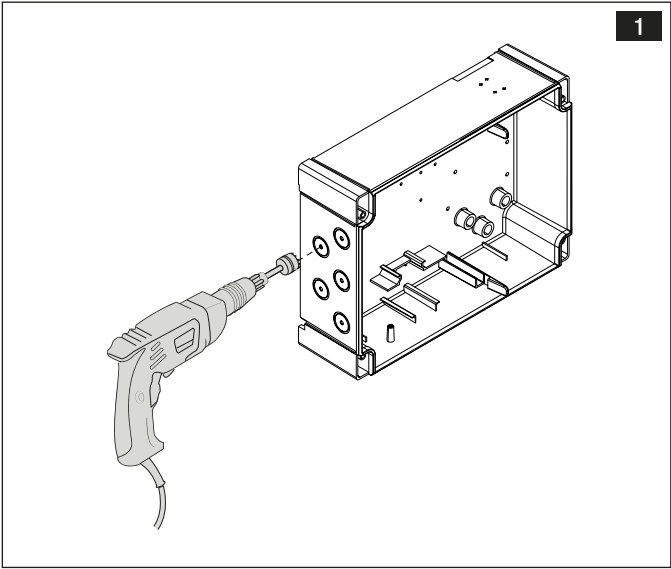
INSTALLATION

Fastening the control panel

DIN rail



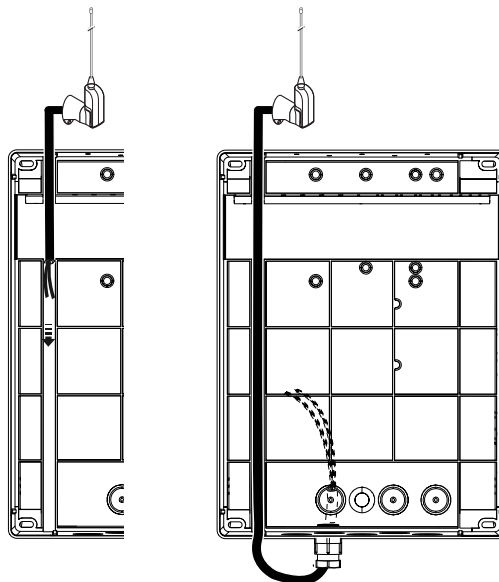
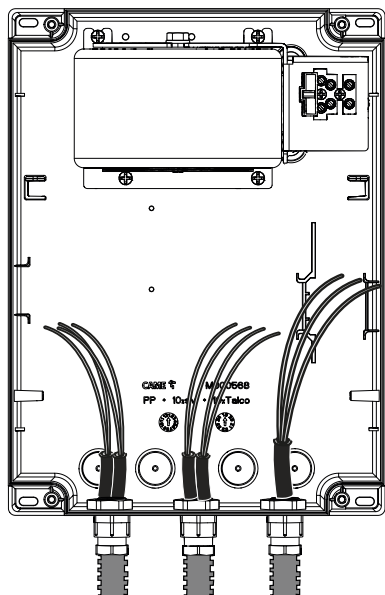
Wall-mounted



ELECTRICAL CONNECTIONS

Passing the electrical cables

- Connect all wires and cables in compliance with the law.
- Use cable glands with corrugated tubing to connect the devices to the control panel. One of these must be for the power cable only.



Mains connections

Power supply 230/120 V AC - 50/60 Hz

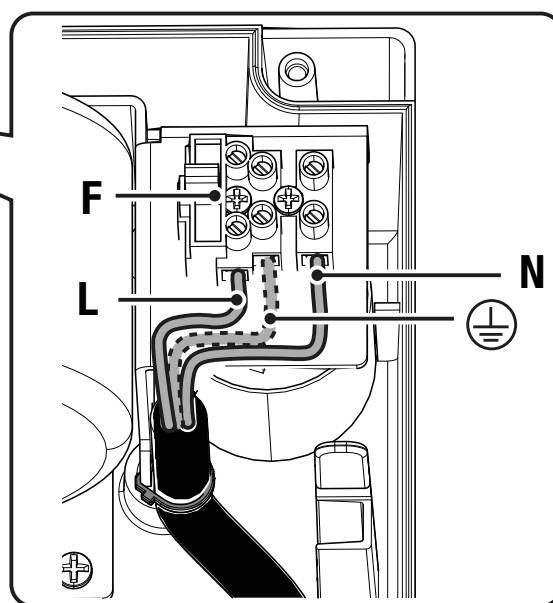
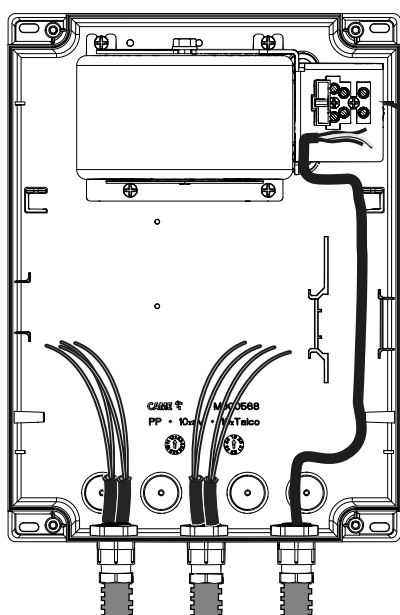
- The strap used to fix the cables is not supplied.

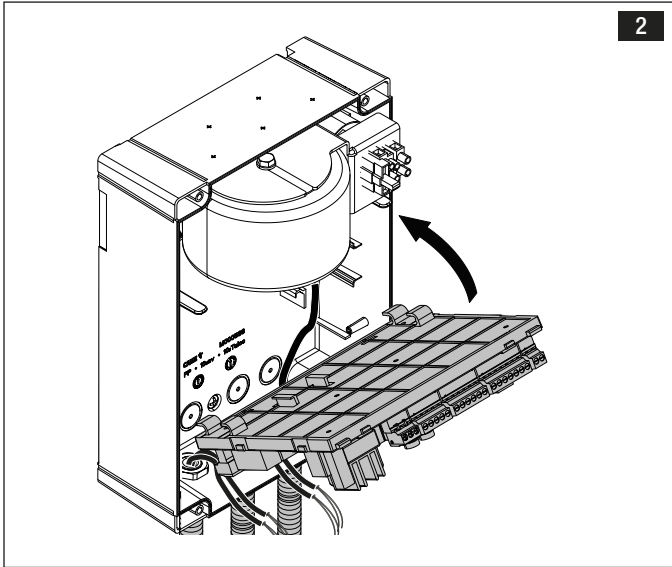
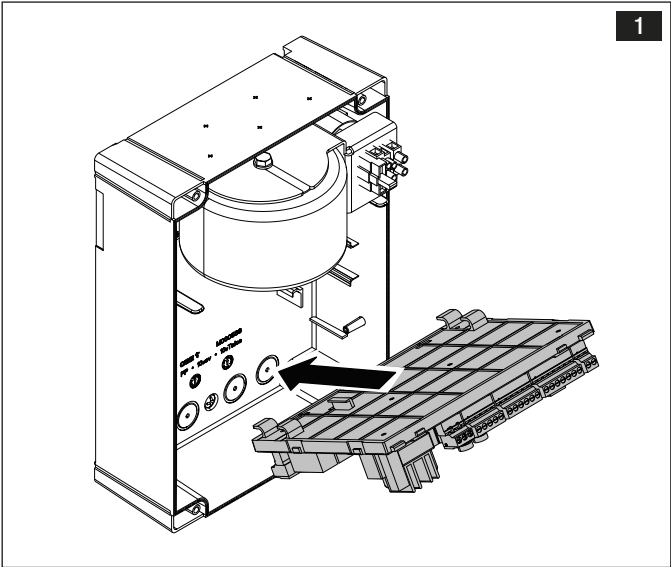
L - Phase

N - Neutral

F - Line fuse

⊕ - Earth



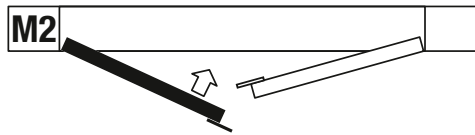
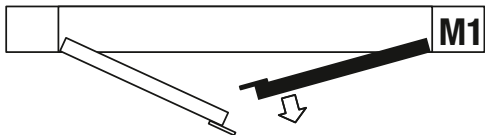
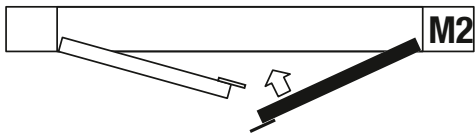
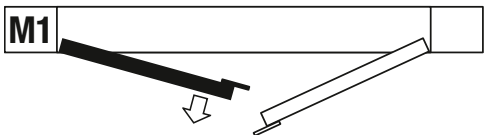


Connecting gearmotors for swing operators

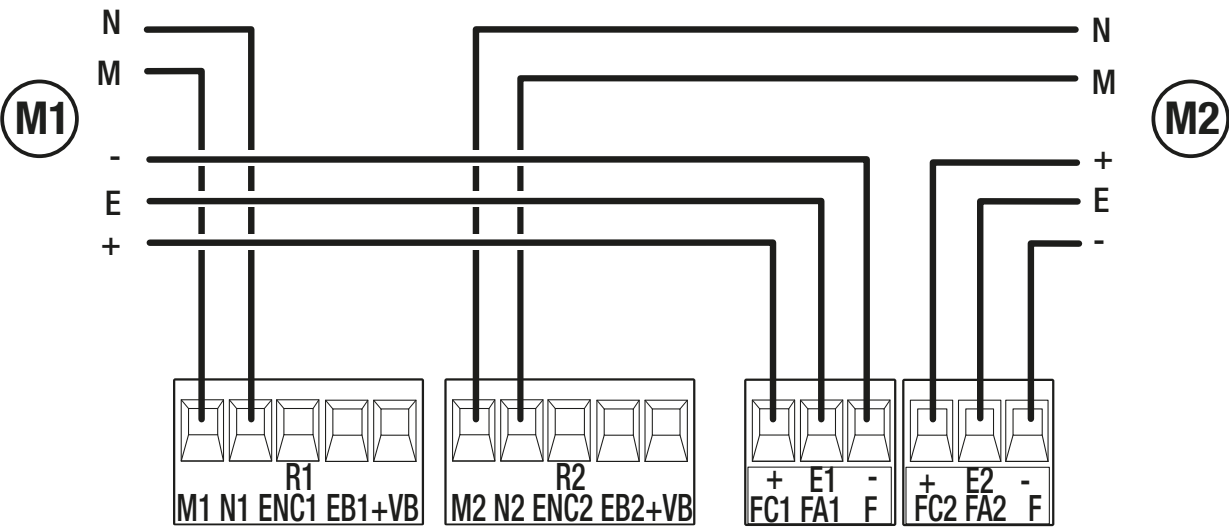
M1 = Gearmotor delayed while opening

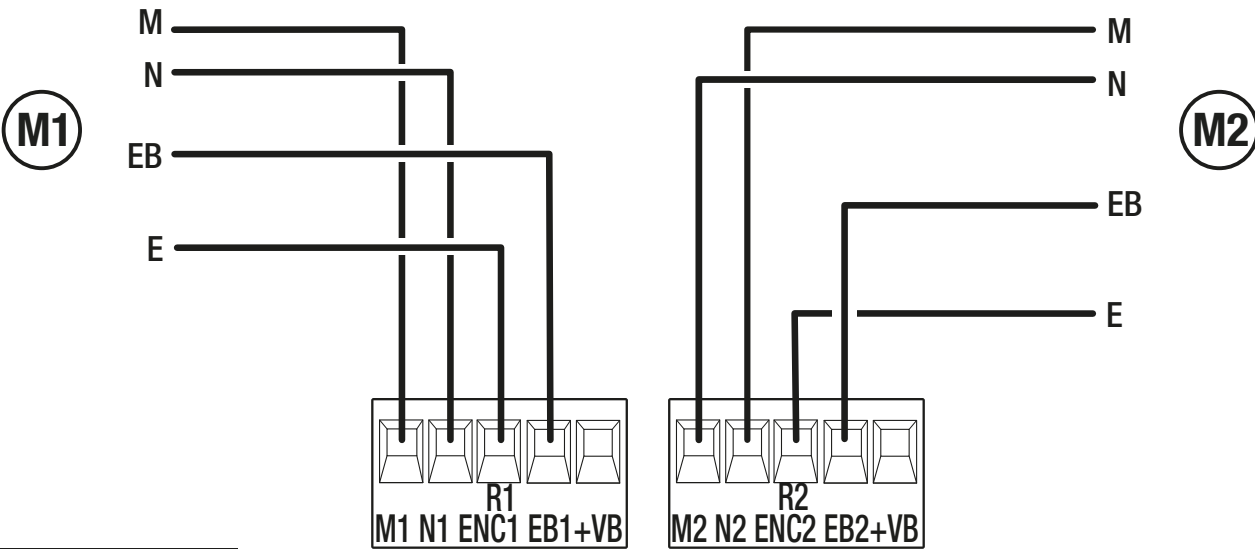
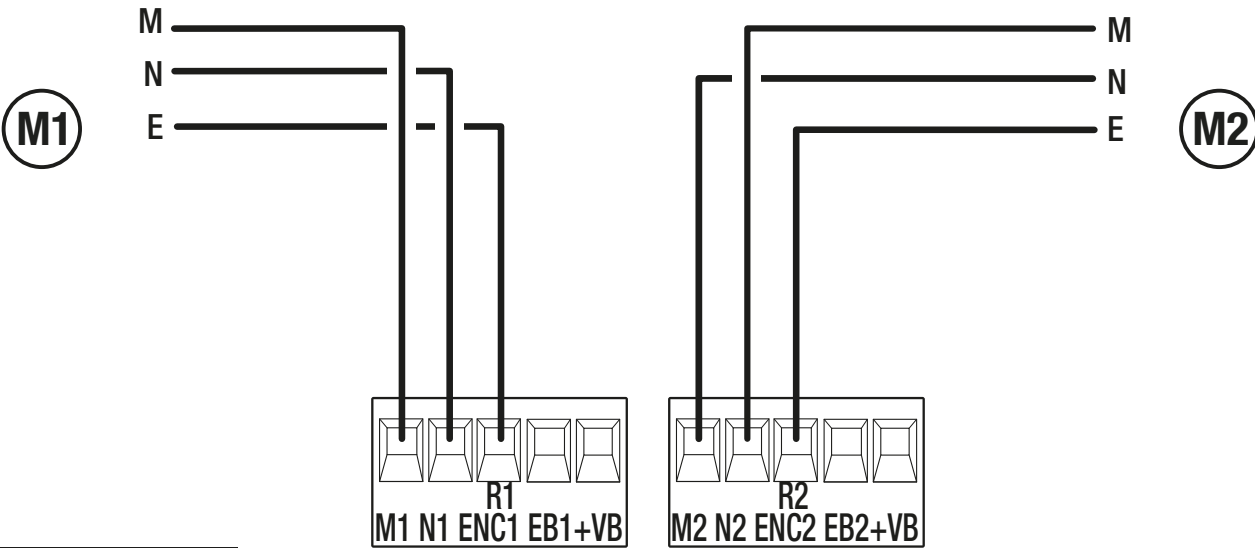
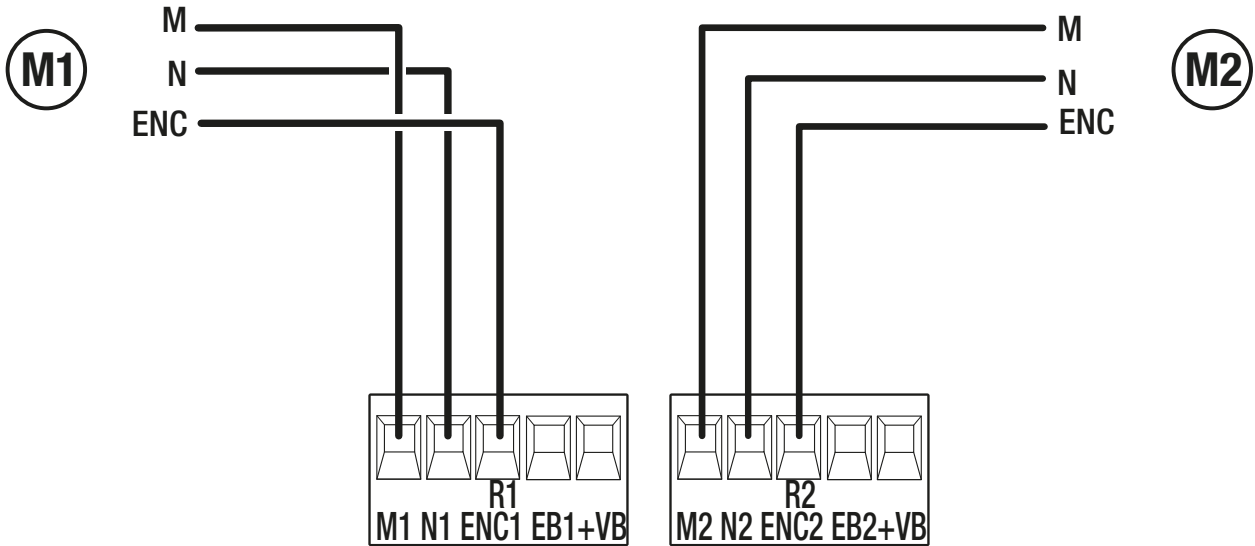
M2 = Gearmotor delayed while closing

Where there is only one gearmotor in the system, make the electrical connections on the gearmotor (M2).

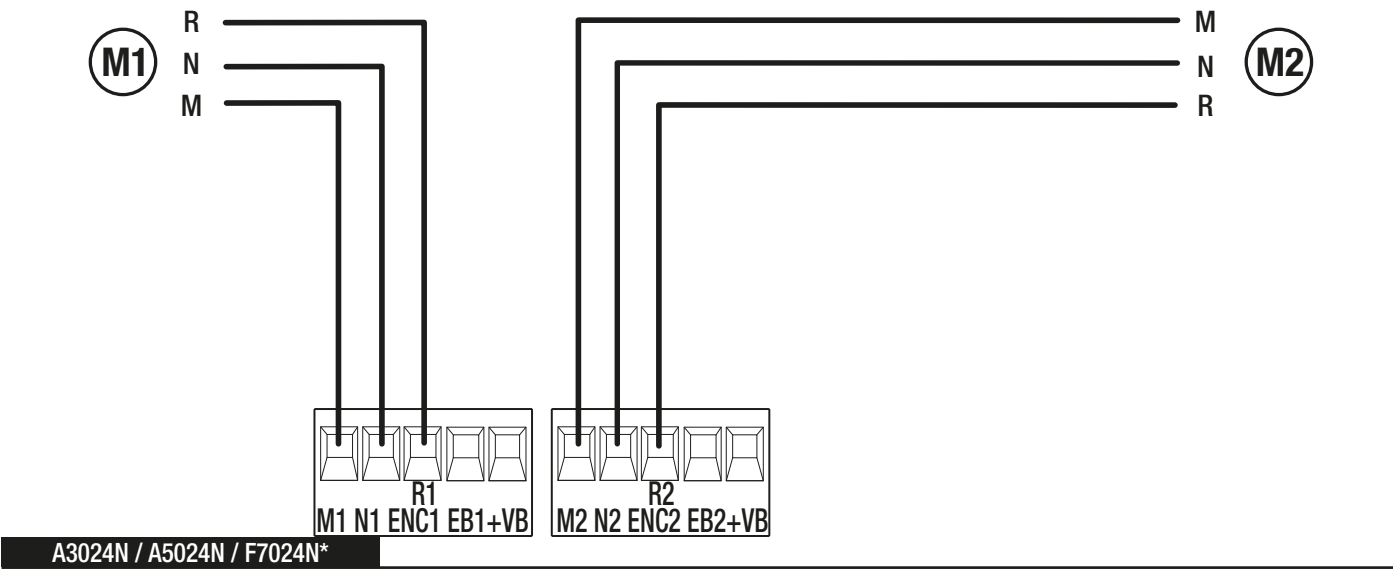


Gearmotor with encoder

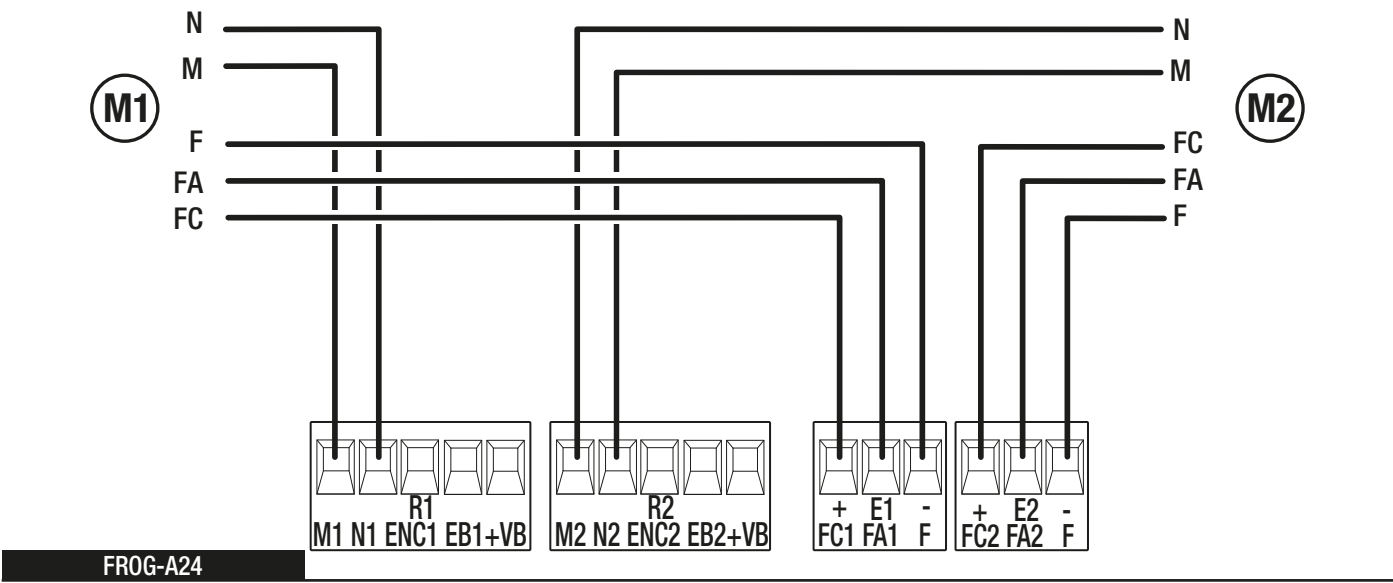


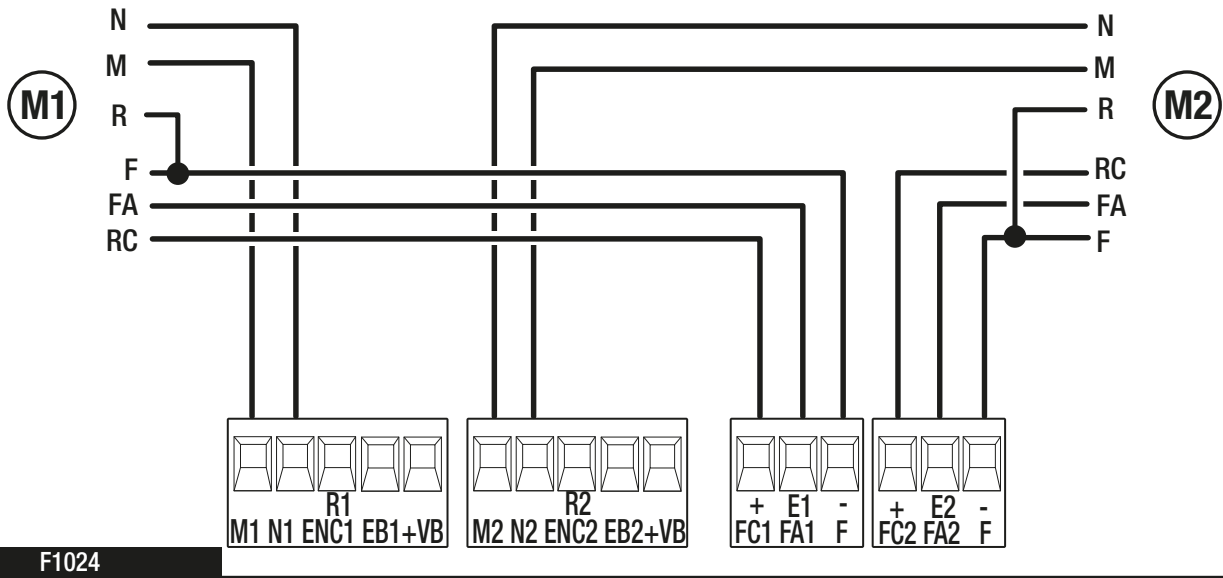


Gearmotor with slowdown switch

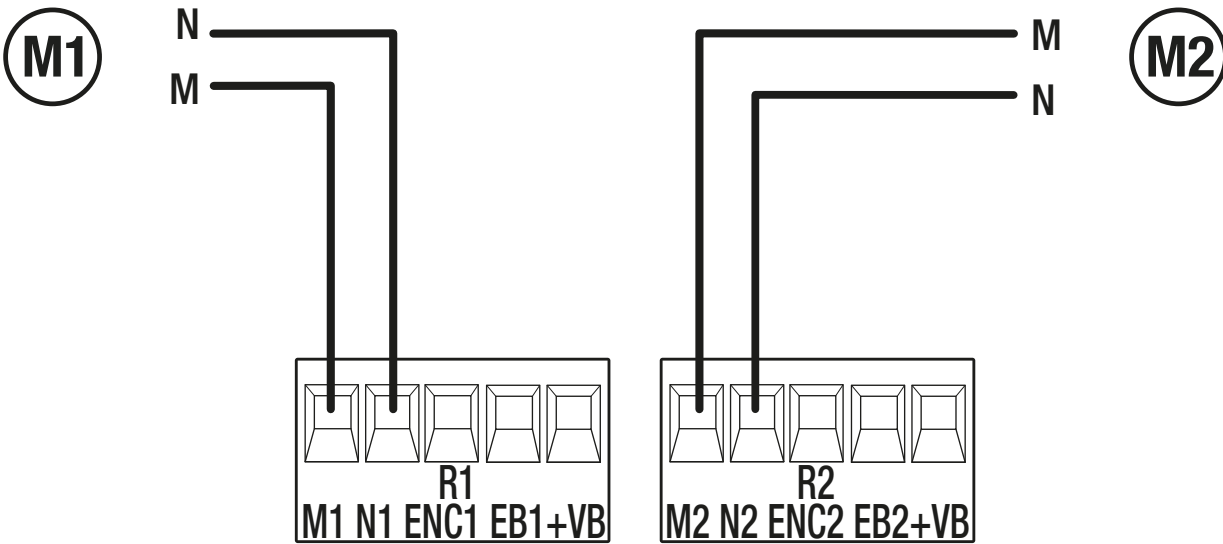


(*) With motor F7024N, check the micro limit switches are not pressed at the same time after installation. For programming information, see the [Commissioning with an F7024N motor] section.



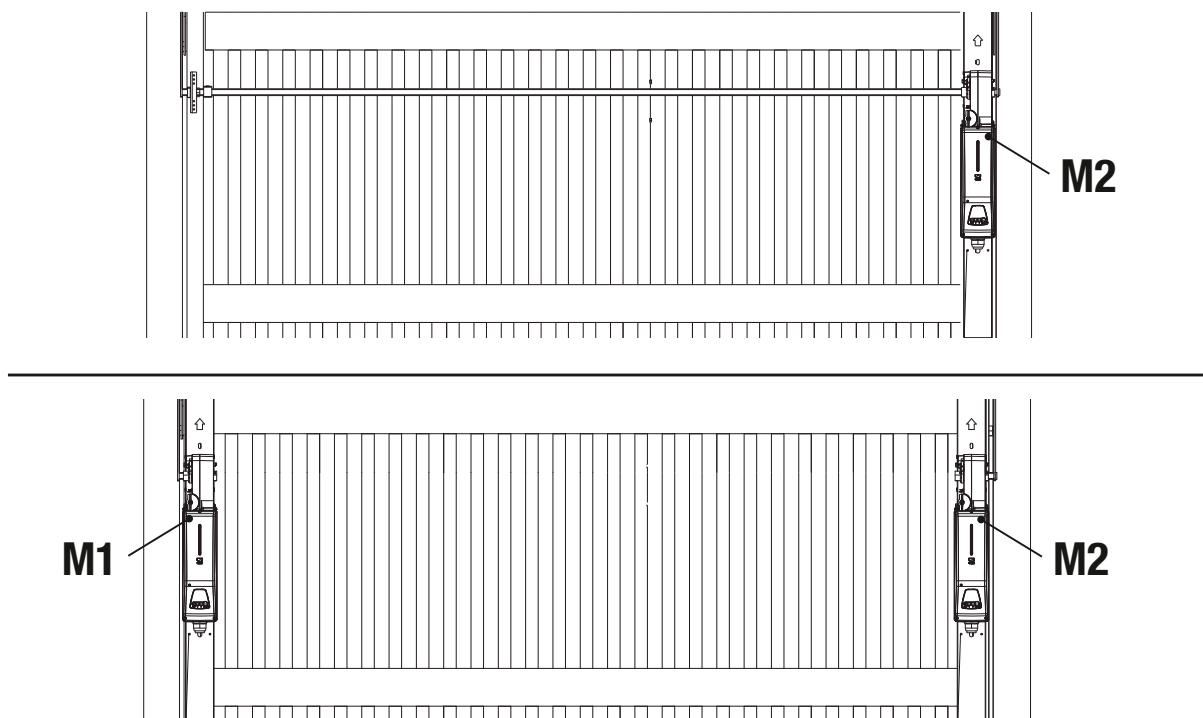


Gearmotor without encoder



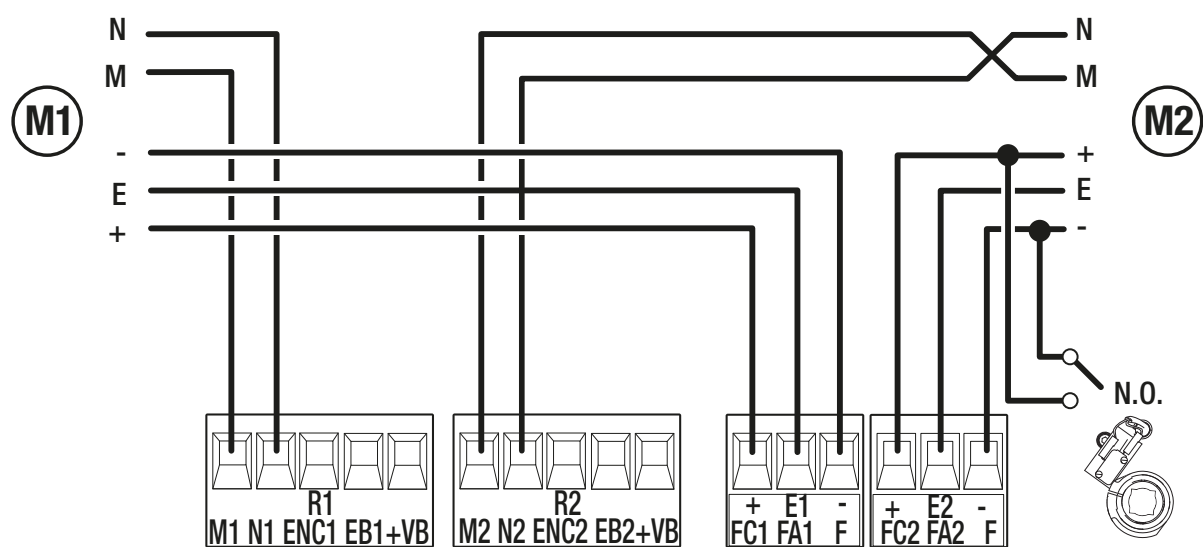
Gearmotors for overhead operators

M1 and M2 are controlled as a pair and perform the same movements.



Where there is only one gearmotor in the system, make the electrical connections on the gearmotor (M2).

Ensure the [A1 – Motor type] function is set to 17 (EM4024).



EM4024

Connecting accessories

Power supply output for accessories 24 V

 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	20
Flashing beacon	10 - E		24 AC	10
Additional light	10 - E3		24 AC	10
Passage-open warning light	10 - 5		24 AC	3
Electric lock	+VB - EB1	+VB - EB2	12 DC	15
Electromagnet	+VB - EB1	+VB - EB2	24 DC	15

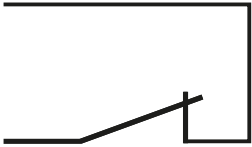
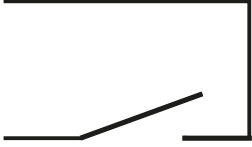
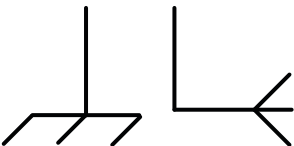
The outputs deliver 24 V DC when the batteries start operating, if they are installed.

CXN BUS connection

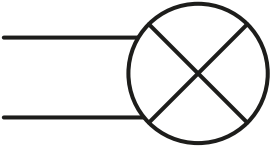
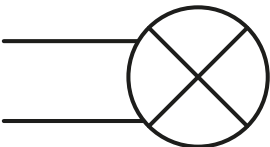
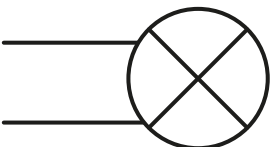
 The output is set for CAME CXN BUS accessories only.

Device	Output	Power supply (V)	Maximum power (W)
BUS CXN	BUS	15 DC	15

Command and control devices

1 2		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.
2 3		Control device (NO contact) Open command When the [F6 – Hold-to-run] function is active, a control device must be set to OPEN.
2 3P		Control device (NO contact) Partial Opening or Pedestrian command See function [F36 - Adjusting partial opening].
2 4		Control device (NO contact) Close command When the function [F6 - Hold-to-run] is active, a control device must be set to CLOSE.
2 7		Control device (NO contact) Step-by-step command Sequential command See function [F7 - 2-7 command].
		Antenna with RG58 cable Use this terminal to connect the antenna.

Signalling devices

10 E3		Additional light It increases the light in the manoeuvring area. See function [F18 - Additional light].
10 E		Flashing beacon It flashes when the operator opens and closes.
10 5		Operator status warning light (Passage-open warning light) See function [F10 - Passage-open warning light].

Safety devices

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

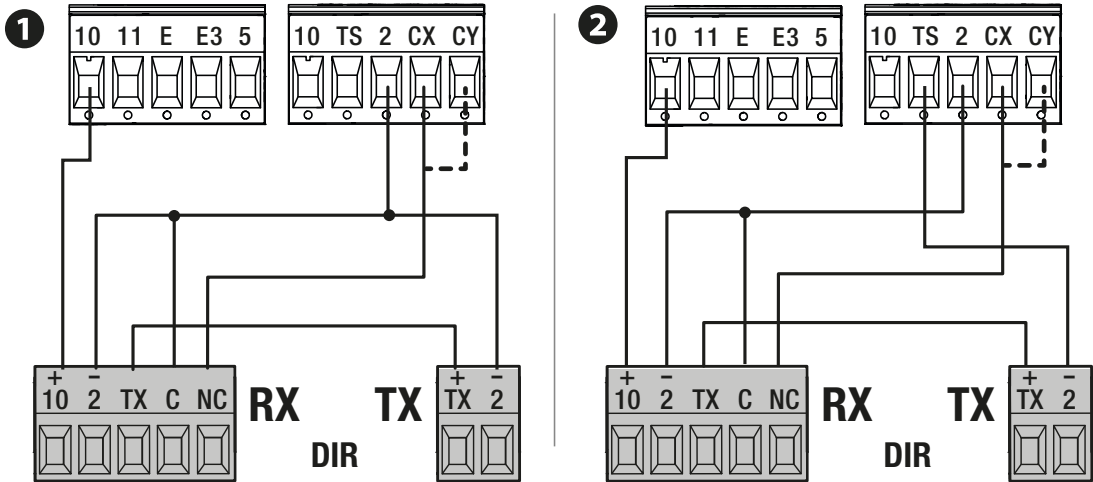
- 📖 If contacts CX and CY are used, they must be configured during programming.
- 📖 For systems with multiple pairs of photocells, please see the manual for the relevant accessory.

1 Standard connection

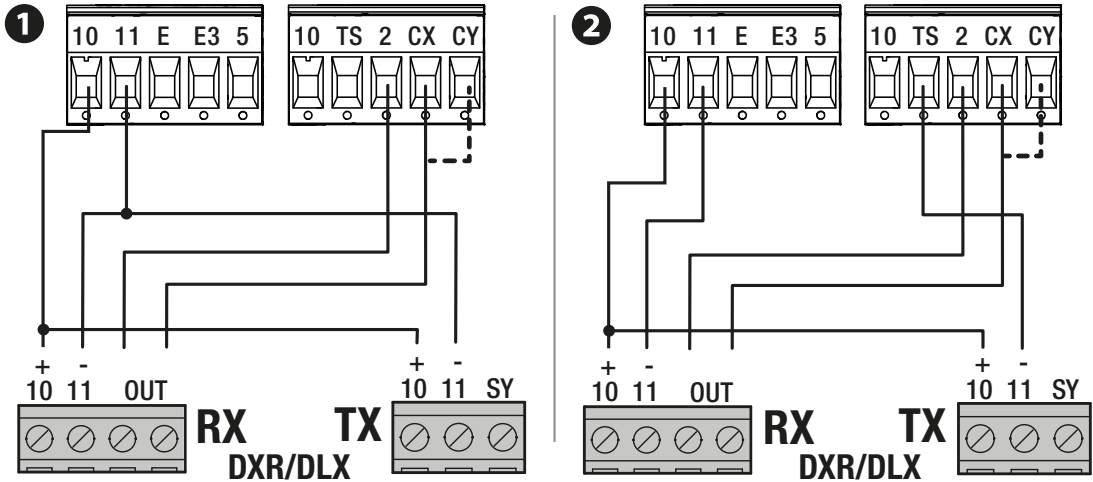
2 Connection with safety test

📖 See function [F5 – Safety devices test].

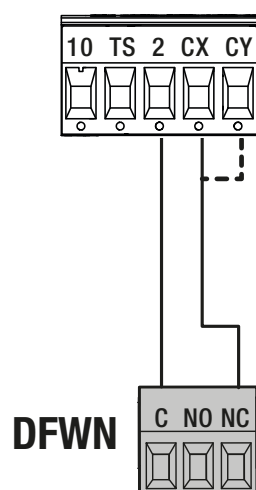
DIR photocells



DXR / DLX photocells

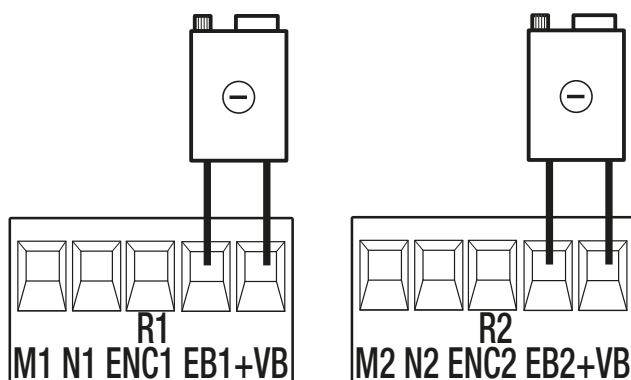


DFWN sensitive edge



Electric lock or electromagnet

See the [F17 - Lock] function.

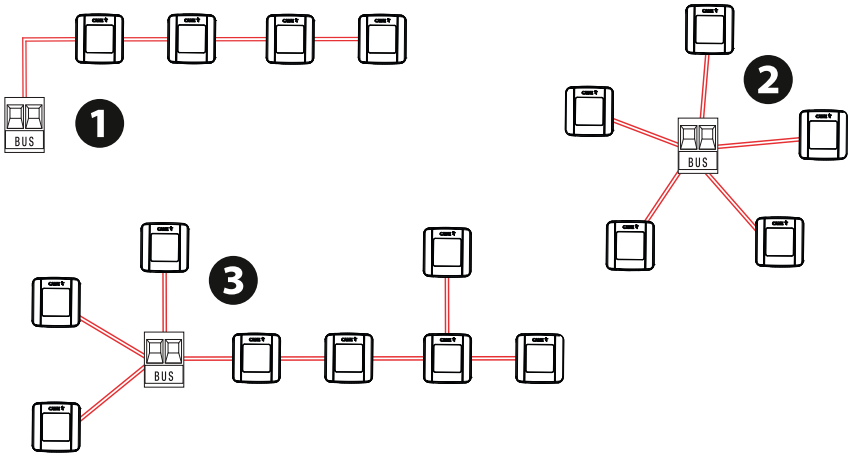


Connecting accessories with BUS CXN system

The CXN CAME system is a two-wire non-polarised communication BUS which allows you to connect up all compatible CAME devices. Connection to the BUS can be in a chain, star or mixed formation. Once the system has been wired, and after having set the address on each device, the function of each accessory can be configured on the control panel. This method allows you to configure the set-up immediately without having to work directly on the accessories and system wiring later. The CXN BUS can support control devices, interfaces, photocells, safety devices, beacons and gateways at the same time.

Cabling

- 1 Chain connection
- 2 Star connection
- 3 Mixed connection



Cable types and minimum thicknesses

Branch length	0 to 15 m	15 to 50 m
KRX BUS flashing beacon (max. 1 per branch)	FROR 2 x 0.5 mm ²	FROR 2 x 1 mm ²
Branch load below 20 CXN	FROR 2 x 0.5 mm ²	FROR 2 x 0.5 mm ²
Branch load above 20 CXN	FROR 2 x 0.5 mm ²	FROR 2 x 1 mm ²

- Do not use a shielded cable.
- △ The maximum length of a single branch is 50 metres. The sum of all branches must not exceed 150 metres.

Maximum number of devices that can be connected, by type

Type of device	Maximum number of devices per type
Selectors	8
Photocell pairs	8
Interfaces	2
Flashing beacons	2

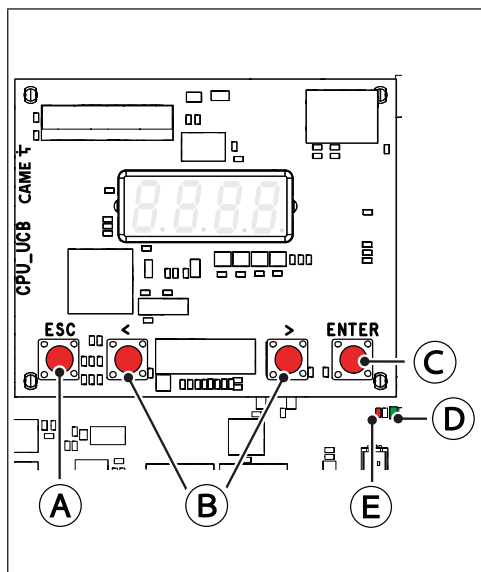
BUS CXN device consumption



[LINK](#)

- BUS CXN device consumption is calculated in CXN units.
- Scan the QR code to access an interactive table showing consumption data, and calculate the maximum number of BUS devices you can connect to the control panel.

Programming button functions



Ⓐ 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)

Ⓑ < > buttons

The < > buttons are used to perform the operations described below.

- Navigate the menu
- Increase or decrease values
- Operator opening and closing (outside the programming menu)
- > Open or close command (outside the programming menu)
- < Open or close command (outside the programming menu)

Ⓒ ENTER button

The **ENTER** button is used to perform the operations described below.

- Access menus
- Confirm a choice
- Display the motor opening percentage

To display the motor opening percentage, press **ENTER** during a manoeuvre.

Press the key once to display the M1 opening percentage (motor 1)

Press the key twice to display the M2 opening percentage (motor 2)

Press the key three times to return to the main screen.

Ⓓ Power LED

The LED lights up when the board is powered up.

Ⓔ Programming LEDs

The LED flashes when the firmware is active and working on the board.

Getting started

 **When using a CAME KEY device, always update the board firmware to the latest version.**

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

A1	Motor type	Set the type of gearmotor installed on M1 and M2.
F46	Number of motors	Set the number of motors controlling the gate.
F17	Lock	Associate the electric lock/electromagnet release with a command (only where there is an electric lock).
A2	Motor test	Check the gate leaves open in the right direction. The > key opens gate leaf M2; the < key opens gate leaf M1.
F2	CX input	Associate a function with safety input CX (only where safety devices are connected).
F3	CY input	Associate a function with safety input CY (only where safety devices are connected).
F72	Limit-switch function	Set the operation of the inputs for slowdown/end-of-travel switches (only where end-of-travel microswitches are used).
F73	Input type FC/FA	Set the FC/FA input type. Only with a generic motor or F7024N [Function A1 set to 0 or 10].
A8	Motor power	Increase or decrease the maximum thrust of motors connected on M1 and M2 during a manoeuvre.
A3	Travel calibration	Start the travel self-learning. See the [Virtual encoder] section before calibrating travel.
-	Complete programming and check the warning, safety and protection devices, and the manual release, are working properly.	
-	Perform the first manoeuvre where you can see the gate in motion and with the photocells active, including where remotely controlled. The first manoeuvre is always to open the gate.	
-	Wait for the manoeuvre to be completed.	

 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.

Commissioning with an F7024N motor

A1	Motor type	Select motor type F7024N (10 = A3024N/A5024N/F7024N)
F46	Number of motors	Set the number of motors controlling the gate.
F17	Lock	Associate the electric lock/electromagnet release with a command (only where there is an electric lock).
A2	Motor test	Check the gate leaves open in the right direction. The > key opens gate leaf M2; the < key opens gate leaf M1.
F2	CX input	Associate a function with safety input CX (only where safety devices are connected).
F3	CY input	Associate a function with safety input CY (only where safety devices are connected).
F28	M1 leaf opening and closing speed	Select 100%
F29	M2 leaf opening and closing speed	Select 100%
F30	M1 leaf opening and closing slowdown speed	Select 30%
F31	M2 leaf opening and closing slowdown speed	Select 30%
F34	Travel AST control	Select 10% (minimum thrust and high obstruction sensitivity)
F35	Slowdown AST control	Select 10% (minimum thrust and high obstruction sensitivity)
F72	Limit-switch function	Select 3 = Opening limit-switch, closing slowdown
F73	Input type FC/FA	Set the FC/FA input type.
A8	Motor power	Select 40%
A3	Travel calibration	Start the travel self-learning. See the [Virtual encoder] section before calibrating travel.
-	Complete programming and check the warning, safety and protection devices, and the manual release, are working properly.	
-	Perform the first manoeuvre where you can see the gate in motion and with the photocells active, including where remotely controlled. The first manoeuvre is always to open the gate.	
-	Wait for the manoeuvre to be completed.	

Virtual encoder

Where this is no encoder, travel is managed via a VIRTUAL ENCODER.

 **ALWAYS calibrate the travel, as with motors with an encoder.**

To calibrate, perform the operations described below.

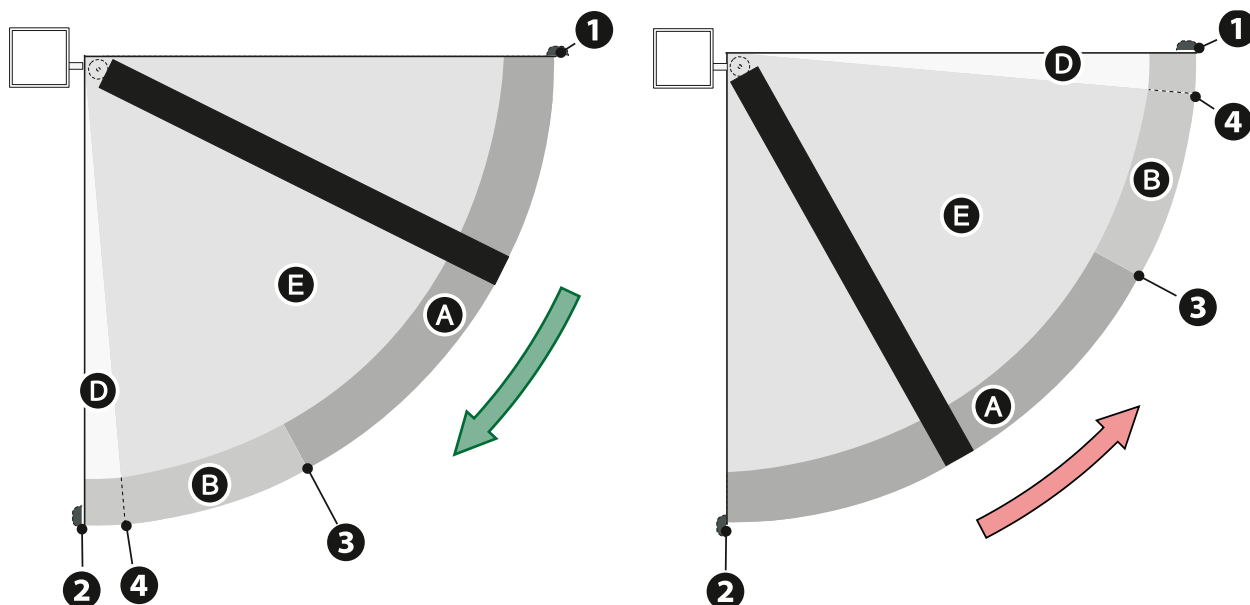
- » ① Activate function A3.
- » ② Close M1 and "CL1" appears on the display. When it hits the strike plate, press the ENTER button.
- » ③ Close M2 and "CL2" appears on the display. When it hits the strike plate, press the ENTER button.
- » ④ Open M2 and "OP2" appears on the display. When it hits the strike plate, press the ENTER button.
- » ⑤ Open M1 and "OP1" appears on the display. When it hits the strike plate, press the ENTER button.

The "calibration completed" symbol shows on the display.

Diagrams showing leaf speed, slowdown and approach points

- ❶ Closing limit-switch
- ❷ Opening limit-switch
- ❸ Opening or closing slowdown point
- ❹ Opening or closing approach point

- A Opening or closing speed
- B Opening or closing slowdown speed
- C Approach speed (fixed)
- D Stop-motion zone in case of obstructions
- E Invert-motion zone in case of obstructions

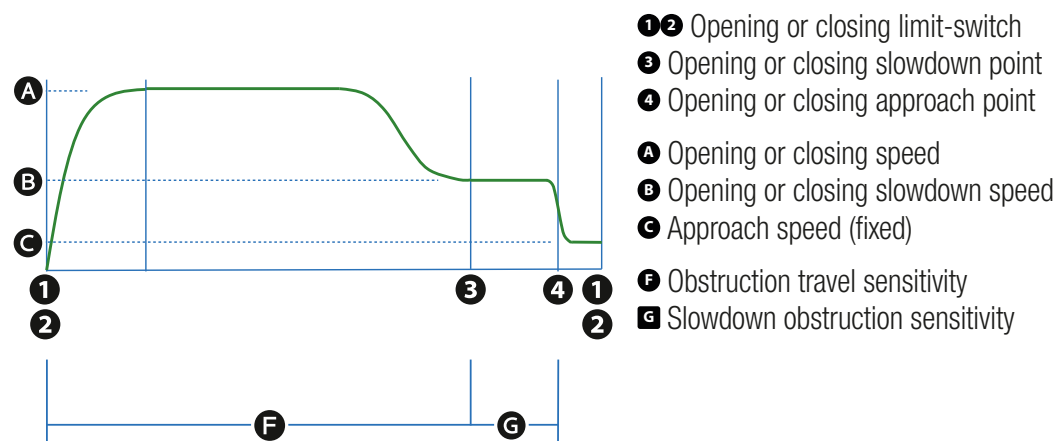


Graph showing speed curves during movement, slowdown and approach.

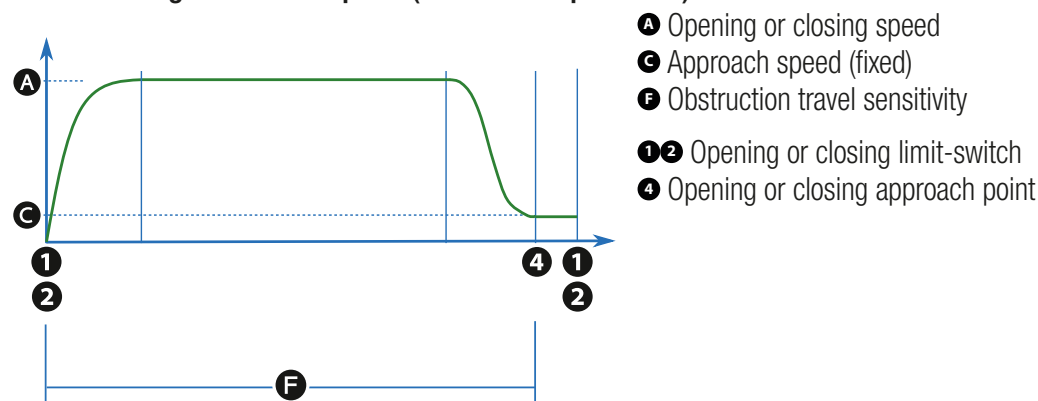
📖 Moving between the various speeds always involves a gentle acceleration/slowdown slope.

Using slowdown space (slowdown space > 0)

📖 With a slowdown space greater than 0, the obstruction detector, when near the approach points, is more sensitive, as per the impact testing.



Without using slowdown space (slowdown space = 0)



Functions menu

 Some functions may not be available with firmware versions prior to the latest one or without some accessory devices.

Function		Parameters	Function description
F1	Total stop	OFF (Default) ON	Activate or deactivate input 2-1. If it is activated, the input is used as a normally closed contact.  With the input open, this function excludes all commands, including any automatic closing.
F2 F3	CX input CY input	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) C13 = Reopen while closing, with immediate closure once the obstruction has been removed, even if the gate is not in motion r7 = Reopen while closing (sensitive edges with 8K2 resistor) r8 = Reclose while opening (sensitive edges with 8K2 resistor) 2r7 = Reopen while closing (pair of sensitive edges with 8K2 resistor) 2r8 = Reclose while opening (pair of sensitive edges with 8K2 resistor)	Associate a function with the CX (F2) and CY (F3) input.
F5	Safety devices test	OFF (Default) 1 = CX 2 = CY 3 = CX+CY	Check that the photocells connected to the selected inputs are operating correctly, after each opening and closing command.  Run the test by connecting the photocells to the TS terminal [see paragraph on Safety devices].
F6	Hold-to-run	OFF (Default) ON	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.

F7	Command 2-7	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.	Associate a command to the connected device on 2-7.
F9	Obstacle with motor stopped	OFF (Default) ON	With the function active, the operator remains stopped if the safety devices detect an obstacle. The function is active when the gate is closed, open or after a complete stop.
F10	Passage-open warning light	0 = Warning light on (default) - The warning light stays on when the gate is moving or open. 1 = Warning light flashing - The warning light flashes every half second when the gate is opening and stays on when the gate is open. The light flashes every second when the gate is closing, and remains off when the gate is closed.	It signals the gate status.
F11	Encoder	ON (Default) OFF	Use the encoder input from the motor.  The parameter is only available for motors that have an encoder.
F12	Slowed start when closing	OFF (Default) 1% to 30%	Set the percentage of the total travel to be used for the slow start after each closing command.  The function appears only with EM4024 motors [Function A1 set to 17].
F13	Closing thrust	-1 = Reduced 0 = Normal (Default) 1 = Minimum thrust 2 = Medium thrust 3 = Maximum thrust	When the function is active, the leaves briefly exert a closing thrust.
F16	Thrust	OFF (Default) ON	Before every opening or closing manoeuvre, the leaves thrust inwards to release the electric lock.  The thrust motion is performed during opening or closing, depending on where the electric lock is active. See the [F17 - Lock] function.
F17	Lock	OFF (Default) 1 = From closed 2 = From open 3 = From open and closed 4 = Continue 5 = Electromagnet 24 V  The electromagnet activates when the motor is stationary and deactivates during a manoeuvre.	Associate the electric lock/electromagnet release with a command.  The function cannot be used with STYLO-ME motors [Function A1 set to 1].

F18	Additional light	OFF (Default) 1 = Cycle light - The lamp stays on during the manoeuvre.  The light remains off if an automatic closing time is not set. 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].	This function allows you to choose the operating mode of the lighting device connected to the output E3.
F19	Automatic closure	OFF (Default) From 1 to 180 seconds	Set the time before automatic closure, once the opening travel end point has been reached or once the photocells have caused a partial stop [C3].  The function does not work if any of the safety devices are triggered when an obstacle is detected, after a complete stop, during a power outage or if there is an error.
F20	Automatic closing after either partial or pedestrian opening	OFF 1 to 180 seconds (Default 10)	The function is used to set the time before automatic closure after a partial or pedestrian opening command.  The function does not work if any of the safety devices are triggered when an obstacle is detected, after a complete stop, during a power outage or if there is an error. Apartment building mode With the Partial/Pedestrian opening command (2-3P), leaf M2 opens. If an OPEN command is then sent, both leaves fully open. With the function [F19 - Automatic closing] set, leaf M1 closes after the selected automatic closing time, while leaf M2 moves to the partial opening point set under [F36 - Partial opening adjustment].  In apartment building mode, deactivate the [F20 – Automatic closing after partial or pedestrian opening] function.  To return to normal gate operation, send a closing command.
F21	Pre-flashing time	OFF (Default) 1 to 10 seconds	Adjust the time for which the beacon is activated before each manoeuvre.

F23	M1 opening delay time	OFF 1 to 10 seconds (Default 2)	Adjust the delayed opening of the first leaf compared to the second.  For motors with encoders only: if the distance between the two leaves is already sufficient to guarantee the delay time set, the delay will not be performed.  The function will not appear with EM4024 motors [Function A1 set to 17].
F24	M2 closing delay time	OFF 1 to 25 seconds (Default 2)	Adjust the delayed closing of the second leaf compared to the first.  For motors with encoders only: if the distance between the two leaves is already sufficient to guarantee the delay time set, the delay will not be performed.  The function will not appear with EM4024 motors [Function A1 set to 17].
F25	Courtesy time	60 to 180 seconds (Default 60)	Define how many seconds the additional light (set up as courtesy light) stays on after an opening or closing manoeuvre.
F28	M1 leaf opening and closing speed	40% to 100% (Default 70%)	Set the M1 travel speed (percentage of maximum speed).  The function will not appear with EM4024 motors [Function A1 set to 17].
F29	M2 leaf opening and closing speed	40% to 100% (Default 70%)	Set the M2 travel speed (percentage of maximum speed).
F30	M1 leaf opening and closing slowdown speed	10% to 50% (Default 40%)	Set the M1 slowdown speed during opening and closing (as a percentage of the maximum speed).  The parameter is only used with the functions [F37 - Opening slowdown point of M1] or [F38 - Closing slowdown point of M1] active.  For Stylo ME and Stylo RME motors it might be necessary to reduce the minimum voltage applicable to the motor to achieve the desired slowdown percentage. See function [F45 - Reduction of speed].  The function will not appear with EM4024 motors [Function A1 set to 17].
F31	M2 leaf opening and closing slowdown speed	10% to 50% (Default 40%)	Set the M2 slowdown speed during opening and closing (as a percentage of the maximum speed).  The parameter is only used with the functions [F41 - Opening slowdown point of M2] or [F42 - Closing slowdown point of M2] active.  For Stylo ME and Stylo RME motors it might be necessary to reduce the minimum voltage applicable to the motor to achieve the desired slowdown percentage. See function [F45 - Reduction of speed].

F34	Travel AST control	10% to 100% (Default 100%) 10% = minimum thrust and high obstruction sensitivity 100 % =maximum thrust and low obstruction sensitivity	Adjust the obstruction detection sensitivity during the gate travel in percentage terms.
F35	Slowdown AST control	10% to 100% (Default 100%) 10% = minimum thrust and high obstruction sensitivity 100 % =maximum thrust and low obstruction sensitivity	Adjust the obstruction detection sensitivity during slowdown in percentage terms. The parameter is only used if the opening or closing slowdown point is active.
F36	Adjusting the partial opening	10% to 100% (Default 100%)	In single-leaf gates, it determines the leaf partial opening percentage with respect to the total travel. For two-leaf gates, it determines the partial opening percentage of the M2 leaf with respect to the total travel. 100% = Pedestrian opening
F37	M1 opening slowdown space	OFF (Default) 1% to 50%	Set the percentage of the total travel in which M1, after the slowdown point during opening, proceeds at a slowed constant speed. The function will not appear with EM4024 motors [Function A1 set to 17]. With the function deactivated, the gate still slows down near the approach space.
F38	M1 closing slowdown space	OFF (Default) 1% to 50%	Set the percentage of the total travel in which M1, after the slowdown point during closing, proceeds at a slowed constant speed. The function will not appear with EM4024 motors [Function A1 set to 17]. With the function deactivated, the gate still slows down near the approach space.
F39	M1 opening approach space	0.5% to 25.0% (Default 8.0%)	Set the percentage of the total travel to be used for M1 opening approach. The function will not appear with EM4024 motors [Function A1 set to 17].
F40	M1 closing approach space	0.5% to 25.0% (Default 8.0%)	Set the percentage of the total travel to be used for M1 closing approach. The function will not appear with EM4024 motors [Function A1 set to 17].
F41	M2 opening slowdown space	OFF (Default) 1% to 50%	Set the percentage of the total travel in which M2, after the slowdown point during opening, proceeds at a slowed constant speed. With the function deactivated, the gate still slows down near the approach space.

F42	M2 closing slowdown space	OFF (Default) 1% to 50%	Set the percentage of the total travel in which M2, after the slowdown point during closing, proceeds at a slowed constant speed.  With the function deactivated, the gate still slows down near the approach space.
F43	M2 opening approach space	0.5% to 25.0% (Default 8.0%)	Set the percentage of the total travel to be used for M2 opening approach.
F44	M2 closing approach space	0.5% to 25.0% (Default 8.0%)	Set the percentage of the total travel to be used for M2 closing approach.
F45	Reduce speed	OFF (Default) 1% to 50%	Reduce the minimum voltage applicable to the motor.  The parameter is only available for the Stylo ME and Stylo RME motors.
F46	Number of motors	2 (Default) 1	Set the number of motors that control the gate.  Value 1 indicates that the M2 motor is being used
F49	RSE communication	3 = CRP/CAME KEY (Default) 6 = ModBus	Configure the function performed by the board connected to the RSE connector.
F50	Save data	OFF ON (Run operation)	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.
F51	Read data	OFF ON (Run operation)	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.
F56	CRP address	1 to 254 (Default 1)	Assign a unique identification code (CRP address) to the control board.  The function is used where there are multiple operators connected to the same communication BUS using the CRP protocol.
F58	Configure maintenance	OFF (Default) from 1 x100 to 500 x100	Set the number of manoeuvres the operator can perform before a maintenance warning signal is generated.  The warning is displayed as an [SEr] message and signalled by 3 + 3 flashes every hour on the device [Passage-open warning light].

F63	RSE speed	2 = 4800 bps 3 = 9600 bps 4 = 14400 bps 5 = 19200 bps 6 = 38400 bps (default) 7 = 57600 bps 8 = 115200 bps	Set the communication speed of the remote connection system.
F65 F66	RIO ED T1 RIO ED T2	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.	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	RIO PH T1 RIO PH T2	OFF (Default) P1 = Reopen while closing. P2 = Reclose while opening. P3 = Partial stop. Only with [Automatic close] activated. P4 = Obstacle standby. P13 = Reopening during closure with immediate stop once the obstacle has been removed, even with the gate not in motion.	Associate one of the available functions with a wireless safety device. 📖 The function only appears if the RIO CONN interface board is present.
F72	Limit-switch function	OFF = Deactivated 1 = Opening limit-switch and closing limit-switch 2 = Slowdown 3 = Opening limit-switch, closing slowdown	Set the operation of the inputs for slowdown/end-of-travel switches. 📖 The function only appears for motors configured for this purpose. 📖 After modifying the function of the slowdown/end-of-travel inputs, recalibrate [Function A3]
F73	Input type FC/FA	0 = N.O. (Default) 1 = N.C. 2 = N.C. for FA input, N.O. for FC input	Set the type of inputs FC/FA 📖 The function appears only with a generic motor or F1024. See the [A1 Motor type] function. 📖 The function only appears if the [F72 - Limit-switch function] is active.
F74	Type of motor arm	Standard (Default) OFF 2 = 180° transmiss. kit (801XA-0040)	Set the type of motor arm installed on M1 and M2.
F83	Removing obstacles	OFF = Inversion caused by obstacle (Default) ON = Remove obstruction	If the function is active, when the operator detects an obstacle via the AST control on the control board or via the sensitive edge, the leaf movement inverts to create the space required to free the obstacle and then stops.

U1	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 a BUS selector device (e.g. a keypad or transponder reader). The board that manages the transmitters (AF) must be inserted into the connector. See the [Saving a new user] section for information on the save procedure.	
U2	Remove user	Remove one of the registered users. See the [Remove registered users] section for information on how to remove them.	
U3	Remove all	OFF (Cancel operation) ON (Run operation)	Remove all registered users. “CLr” will appear to confirm deletion.
U4	Radio decoding	1 = All decoding (default) 2 = Rolling code 3 = TW key block	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 saved previously will be deleted.
U8	Self-Learning Rolling	OFF (Default) ON	Save a new rolling code transmitter by activating acquisition from a rolling code transmitter that has already been saved. The saving and acquisition procedures are explained in the transmitter manual.
A1	Motor type	0 = Generic 1 = STYLO-ME 2 = STYLO-RME 3 = FTX 4 = FAST-70 5 = AXI 6 = A1824 7 = FERNI 8 = FERNI-V 9 = AXO 10 = A3024N/A5024N/F7024N 11 = FROG-A24 12 = FROG-A24E (Default) 13 = ATS 14 = F1024 15 = F4024E 16 = F4024EP 17 = EM4024 18 = ATi30DGF/ATi50DGF	Set the type of gearmotor installed on M1 and M2. Selecting EM4024, M1 and M2 are controlled as a pair and perform the same movements. Check that the same opening and closing direction is set on both motors.

A2	Motor test	The > button opens gate leaf M2 The < button opens gate leaf M1	Check the gate leaves open in the right direction. With the function active, the > key opens the gate leaf connected to M2, and the < key opens the gate leaf connected to M1. The movement continues while the key is pressed or until the end-of-travel limit switch is reached. When the key is released, the movement stops. With an EM4024 motor [Function A1 set to 17], pressing the > or < key opens the motors connected to M1 and M2 at the same time If the leaf does not move in the correct direction, invert the motor phases. The leaves will move at reduced speed.
A3	Travel calibration	OFF (Cancel operation) ON (Run operation)	Start the travel self-learning.
A4	Parameter reset	OFF (Cancel operation) ON (Run operation)	Restore the factory configurations except for: [users], [timers], [number of motors], [motor type], [CRP address], [limit-switch inputs function], [RSE speed], [password] and the settings related to the travel calibration.
A5	Manoeuvre counter	Tot = total manoeuvres - Manoeuvres performed since the operator was installed. Par = partial manoeuvres - Manoeuvres carried out after the last maintenance. Under the [Par] parameter, press the ENTER key to reset the number of partial manoeuvres. [Clr] will appear on the screen to confirm deletion.	View the number of total or partial operator manoeuvres (after maintenance). The number of manoeuvres is the number shown multiplied by 100. The control panel regularly saves the number of manoeuvres automatically. In the event of an unexpected power outage, the number of manoeuvres last saved is restored.
A8	Motor power	30% to 130% (Default 100%) At 100%, the maximum thrust is the one pre-defined for the type of motor set. Increasing or decreasing the percentage increases or decreases the maximum thrust.	Increase or decrease the maximum thrust of motors connected on M1 and M2 during a manoeuvre. Decreasing the thrust increases the obstacle-detection sensitivity.
H1	FW version	Display the firmware version. Use the < > arrows to show the versions of the display board and the control board one after the other.	
H3	Enable password	OFF (Default) ON	Set a 4-digit password. The password will be requested to anyone who wants to access the main menu. Use the arrows and the Enter button to dial the desired code.

H4	BUS device status	b = BUS photocells b(1 - 8).<x> d = BUS selector d(1 - 8).<x> L = BUS flashing beacon L1/L2.<x> i = I/O BUS module i1/i2.<x>	Show the status of all devices that can be connected to the BUS and managed by the firmware in use. Device status <x> ll = Conflicting address o = Working c = Working with alarm signal F = Device fault - = No communication or not present
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BUS (b1-b8) photocell functions

	BUS Photocell 1	OFF (Default)	
b1	Photocell BUS 2	C1 = Reopen while closing (photocells)	
b2	Photocell BUS 3	C2 = Reclose while opening (photocells)	
b3	Photocell BUS 4	C3 = Partial stop Only with [Automatic close] activated.	
b4	Photocell BUS 5	C4 = Obstacle standby (photocells)	
b5	Photocell BUS 6	C13 = Reopen while closing, with immediate closure once the obstruction has been removed, even if the gate is not in motion	
b6	Photocell BUS 7	C23 = Open command	
b7	Photocell BUS 8	C24 = Close command	
b8	Photocell BUS 8		Associate a function with the input for the BUS photocells. 📖 The function only appears if there is a BUS photocell connected.

I/O BUS 1 (b11) module / I/O BUS 2 (b12) module functions*

Path: b11 / b12 > i1

i1	input I1	OFF (Default) C0 = This stops the operator and excludes automatic closing. Use a control device to resume movement. 📖 If it is activated, the input is used as a normally closed contact. r7 = Reopen while closing (sensitive edge with 8K2 resistor). r8 = Reclose while opening (sensitive edge with 8K2 resistor). C22 = Partial opening C23 = Open C24 = Close C27 = Step-by-step - The first command is to open and the second to close. C28 = Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.	Associate a function with input 1 on the I/O modules. 📖 The function only appears if there is a BUS I/O module connected.
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i2	input I2	OFF (Default) C0 = It stops the gate and excludes automatic closing. Use a control device to resume movement.  If it is activated, the input is used as a normally closed contact. r7 = Reopen while closing (sensitive edge with 8K2 resistor). r8 = Reclose while opening (sensitive edge with 8K2 resistor). C22 = Partial opening C23 = Open C24 = Close C27 = Step-by-step - The first command is to open and the second to close. C28 = Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.	Associate a function with input 2 on the I/O modules.  The function only appears if there is a BUS I/O module connected.
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o1	Light output	0 = Passage-open warning light - It notifies the user of the operator status [F10 - Passage-open warn. light]. 1 = Cycle light - The lamp stays on during the manoeuvre. 2 = Courtesy light - 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].	Associate a function with output 1 on the I/O modules.  The function only appears if there is a BUS I/O module connected.
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o2	Relay output	0 = User command (Default) – The output is managed by user commands or timers. 1 = AMF (Access Management Function) – The output is used to indicate the fully open passage position in AMF mode.  The output remains open when the gate is fully open and remains closed in all other cases.	Associate a function with output 2 on the I/O modules.  The function only appears if there is a BUS I/O module connected.
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Path: b11 / b12 > t2

t2	Relay output time	0 = Bistable ON - 1 to 180 seconds (Default 1)	Associate a time with output 2 on the I/O modules.  The function only appears if there is a BUS I/O module connected.
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BUS (b21-b28) key selector switch functions

b21 b22 b23 b24 b25 b26 b27 b28	BUS 1 key selector BUS 2 key selector BUS 3 key selector BUS 4 key selector BUS 5 key selector BUS 6 key selector BUS 7 key selector BUS 8 key selector switch	0 = Step-by-step - 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 4 = Partial opening 5 = Stop 7 = BUS 1 module relay - Activate output 2 (relay output) on BUS 1 I/O module 8 = BUS 2 module relay - Activate output 2 (relay output) on BUS 2 I/O module	Associate a function with the BUS key selector input. Different functions can be set according to the key turning direction. LEF = Key to the left rIG = Key to the right  The function only appears if there is a BUS key selector connected.
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BUS (b40) flashing beacon functions

Path: b40 > L1

L1	Automatic closing time colour	OFF 1 = White 2 = Yellow 3 = Orange 4 = Red 5 = Purple 6 = Blue 7 = Light blue 8 = Green (Default)	Set the BUS flashing beacon colour during the automatic closing time.  The function only appears if there is a BUS flashing beacon connected.
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Path: b40 > L2

L2	Opening colour	1 = White 2 = Yellow 3 = Orange 4 = Red (Default) 5 = Purple 6 = Blue 7 = Light blue 8 = Green	Set the BUS flashing beacon colour during operator opening.  The function only appears if there is a BUS flashing beacon connected.
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Path: **b40 > L3**

L3	Closing colour	1 = White 2 = Yellow 3 = Orange 4 = Red (Default) 5 = Purple 6 = Blue 7 = Light blue 8 = Green	Set the BUS flashing beacon colour during operator closing.  The function only appears if there is a BUS flashing beacon connected.
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Path: **b40 > L4**

L4	Pre-flashing colour	1 = White (Default) 2 = Yellow 3 = Orange 4 = Red 5 = Purple 6 = Blue 7 = Light blue 8 = Green	On the BUS flashing beacon, set the flash colour for before opening and closing manoeuvres (pre-flash).  The function only appears if there is a BUS flashing beacon connected.
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Path: **b40 > L5**

L5	Signal error	OFF (Default) 1 = White 2 = Yellow 3 = Orange 4 = Red 5 = Purple 6 = Blue 7 = Light blue 8 = Green	Set the colour of the BUS flashing beacon in the event of an error signal.  The warning light is activated after sending a command for movement.  The function only appears if there is a BUS flashing beacon connected.
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b43	Signal maintenance	OFF (Default) 1 = White 2 = Yellow 3 = Orange 4 = Red 5 = Purple 6 = Blue 7 = Light blue 8 = Green	Set the colour of the flash on enabled BUS devices (flashing beacons and selectors) when maintenance is necessary. With the function activated, these devices will signal that maintenance needs to be carried out at the start of each manoeuvre.  Configure maintenance and set the number of manoeuvres. See the function [F58 – Configure maintenance].  The function only appears if there is a BUS flashing beacon or a BUS selector connected.
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Saving a new user

Press **ENTER** to enter programming.

① Access: **U1** - New user. Press **ENTER** to confirm.

② Choose the function to be assigned to the user:

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 = Pedestrian/partial opening

6 = BUS 1 module relay - Activate output 2 (relay output) on BUS 1 I/O module

7 = BUS 2 module relay - Activate output 2 (relay output) on BUS 2 I/O module

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.

Press **ENTER** to confirm.

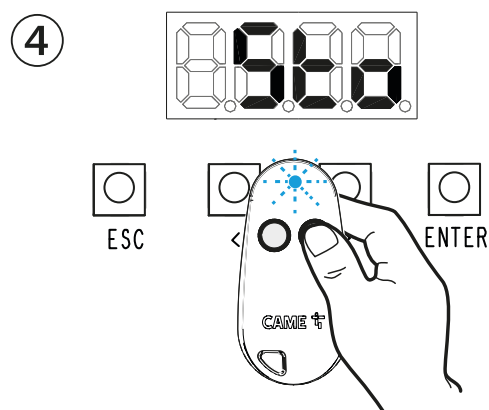
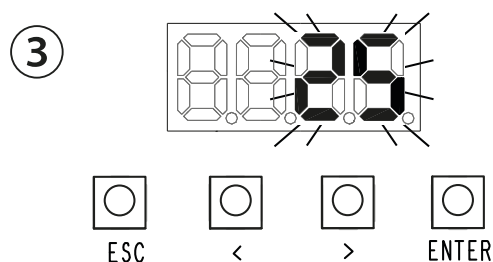
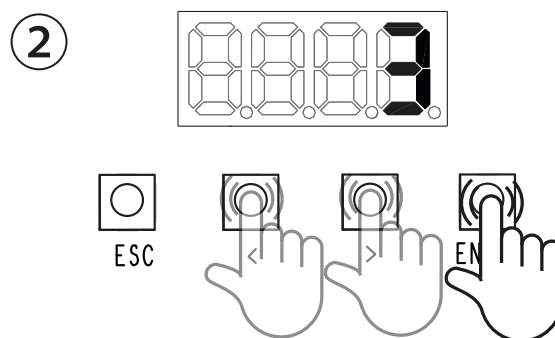
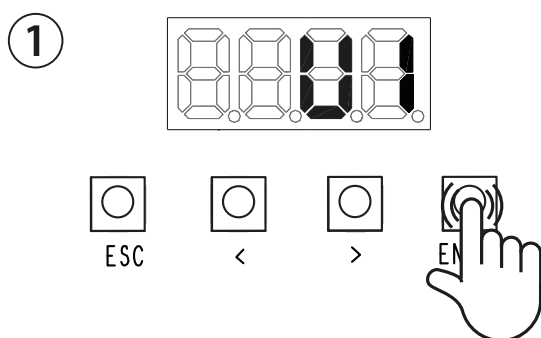
③ The first available position for storing will appear on the screen.

 The available positions are the ones with flashing numbers.

④ Within 10 seconds, send the code from the selector (transponder or keypad) or the transmitter key. [Sto] will appear to show acquisition has been successful.

 The board that manages the control devices (AF) must be inserted into the connector.

Repeat the procedure to add other users.



Removing registered users

Press **ENTER** to enter programming.

① Select: **U2** - Remove single user. Press **ENTER** to confirm.

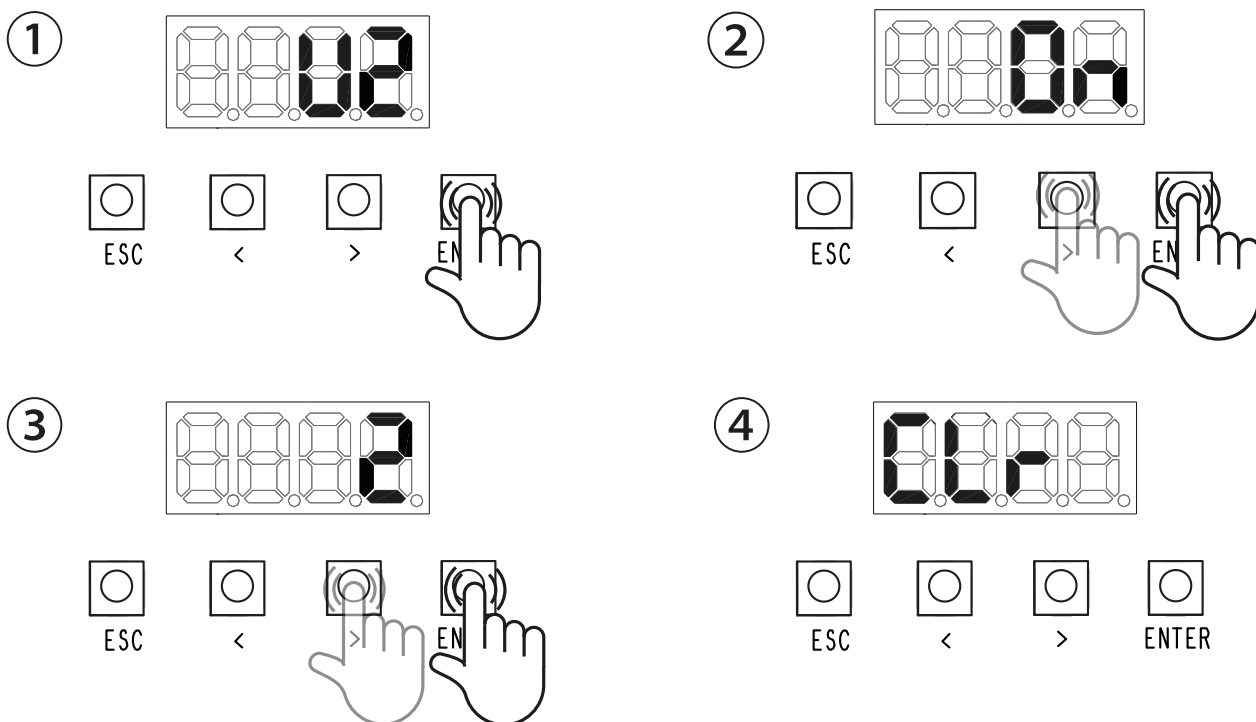
② Use the arrows to select **ON** and press **ENTER** to start the remove user procedure.

③ Use the arrows to choose the number associated with the user you want to remove and press **ENTER** to confirm.

📖 Alternatively, the control device associated with the user you want to remove can be activated.

④ "CLr" will appear to confirm deletion.

Repeat the procedure to remove other users.



Forgotten password

If you lose the password, you will need to reset the board to its factory settings. See [Factory reset].

Factory reset

To restore the electronic board data to factory settings:

Disconnect the control board from the power supply and wait for it to switch off.

Press and hold the < and > buttons, then reconnect the control board to the power supply.

Continue to press and hold the < > buttons until [ON/OFF] is displayed.

Select [ON].

Press ENTER to confirm.

📖 When you reset the control board, all saved users and calibration operations are deleted.

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.

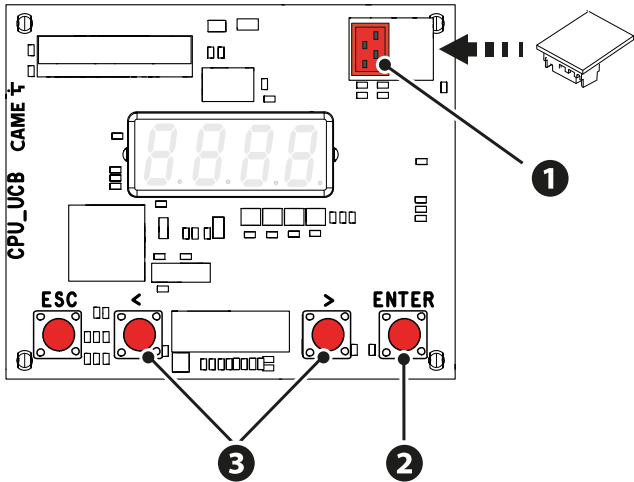
⚠ Before inserting and removing the MEMORY ROLL card, DISCONNECT THE MAINS POWER SUPPLY TO THE LINE.

- ➊ Insert the MEMORY ROLL card into the corresponding connector on the control board.
- ➋ Press the “Enter” button to access programming.
- ➌ 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

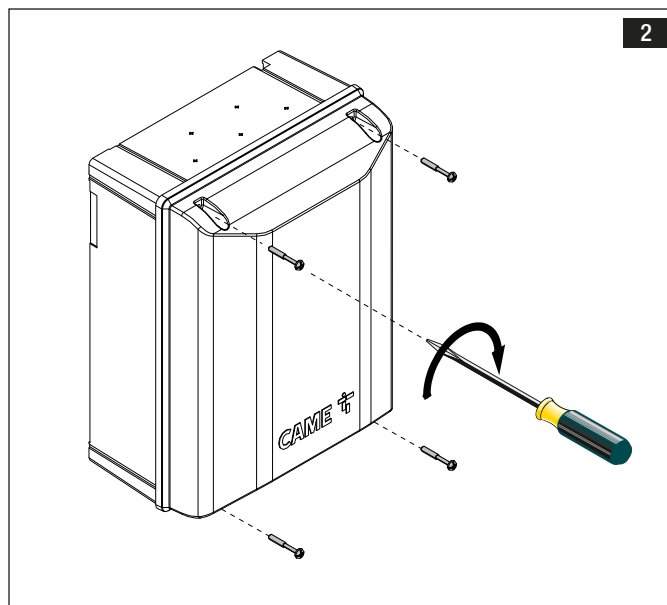
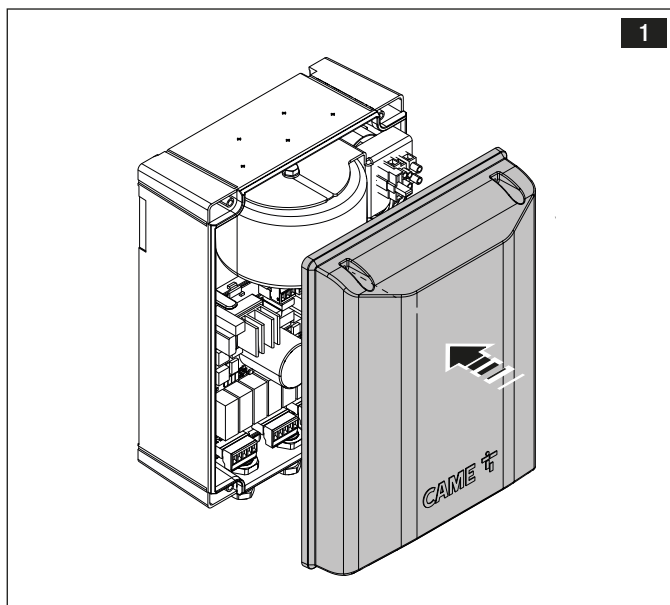
C<n>	Wired safety device active  The <n> value is associated with the selected parameter for the functions [F2 - CX input] [F3 - CY input].
r7	R7 safety device (sensitive edge) active
r8	R8 safety device (sensitive edge) active
2r7	R7 safety device (pair of sensitive edges) active
2r8	R8 safety device (pair of sensitive edges) active
c<n>	BUS photocell safety device active  The <n> value is associated with the selected parameter for the [BUS photocell] functions.
c23	Open command active for BUS photocells
c24	Close command active for BUS photocells
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
A1 (scrolling)	Select a motor type
SEr	Maintenance required
OP.	Passage fully open
CL.	Passage fully closed

Error messages

E1	Motor M1 calibration error
E2	Motor M2 calibration error  With an EM4024 motor, E2 indicates a calibration error on M1 or M2.
E3	Encoder signal not detected error
E4	Service test failure error
E7	Operating time error
E9	Consecutive obstacles detected during closing
E10	Consecutive obstacles detected during opening
E11	Maximum number of obstacles
E12	Motor supply voltage missing or insufficient
E13	Limit switch input error or both limit switches open
E15	Incompatible transmitter error
E17	Wireless system communication error
E18	Wireless system not configured error
E24	Communication error or malfunction of a BUS safety device During a manoeuvre: communication error or malfunction of a BUS safety device
E25	Address settings error on BUS devices

FINAL OPERATIONS

 Before closing up the casing, check that the cable inlets are sealed to stop insects getting in and to prevent damp.





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