CAME T

DESCRIPTION OF PARTS

FA01797-EN

88000-90088

EN

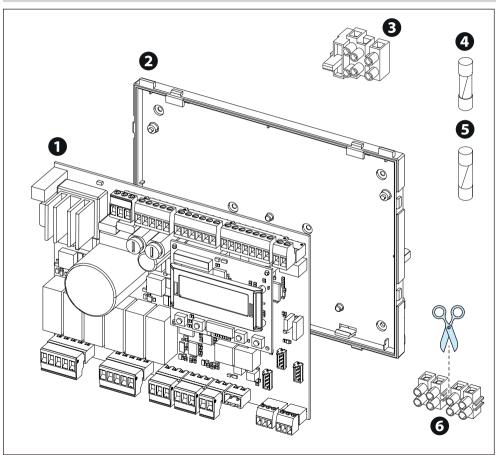
English

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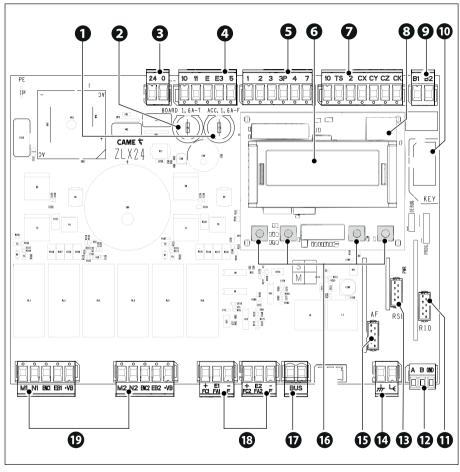
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KIT components



- ① Control board ZLX24S (801QA-0060 / 801QA-0080)
- 2 Control board holder
- 3 Terminal block with fuse compartment
- Fuse 4 A (line 120 V)
- **5** Fuse 3.15 A (line 230 V)
- **6** Two 2-pole terminal blocks



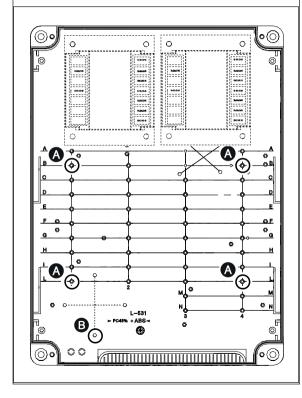
- 1 Accessories fuse
- 2 Control board fuse
- 3 Terminal board for power supply to the control board
- Terminal board for connecting the signalling devices
- 5 Terminal board for connecting control devices
- 6 Display
- Terminal board for connecting the safety devices
- 8 Memory Roll card connector
- Terminal board for B1-B2 output
- Connector for CAME KEY*
- RIO CONN card connector*
- Terminal board for CRP connection**
- B RSE card connector**
- Terminal board for connecting the antenna
- **©** Connector for plug-in radio frequency card (AF)
- ⚠ Use only AF43S or AF868 with diagram number DIS29101 or above.
- **16** Programming buttons
- Terminal board for BUS devices*
- 18 Terminal boards for connecting micro limit switches and/or encoders
- Terminal board for connecting the gearmotor with encoder or with slowdown switch and electric lock
- (*) Cannot be used
- (**) Not suitable for spare part ZL19N

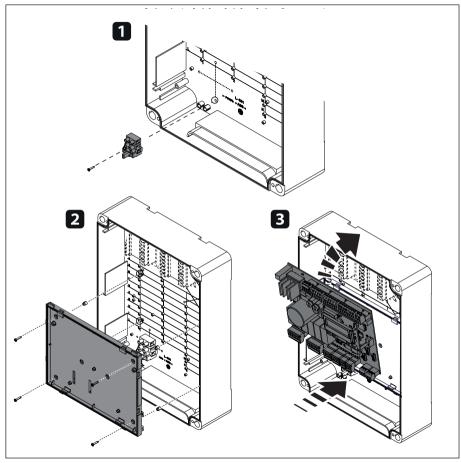
INSTALLATION

A Control board support fixing point

B Fuse holder terminal block fixing point

Screws not provided. Reuse the screws in the ZL19N or ZLJ24 control panel.





ELECTRICAL CONNECTIONS

 \triangle Before working on the control panel, cut off the mains power supply.

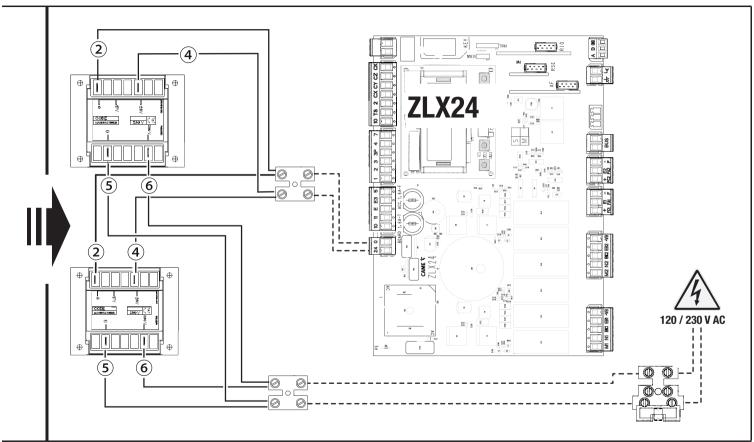
 \triangle Always insert the line fuse in the terminal block.

ZLJ24 control panel 1 Blue cable 3 Red cable ⑤ Orange cable 4 Black cable 2 White cable 6 Purple cable (3) # 007A ## Os. 1 1 П 120 / 230 V AC

ZLJ24

6)





ZL19N control panel

1 Blue cable

3 Red cable

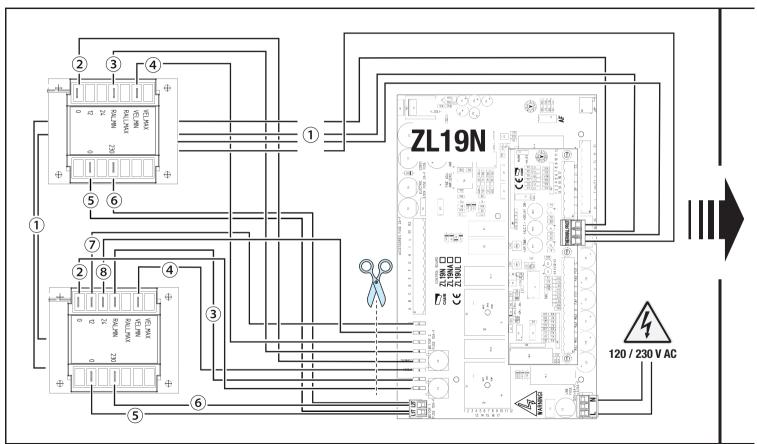
(5) Orange cable

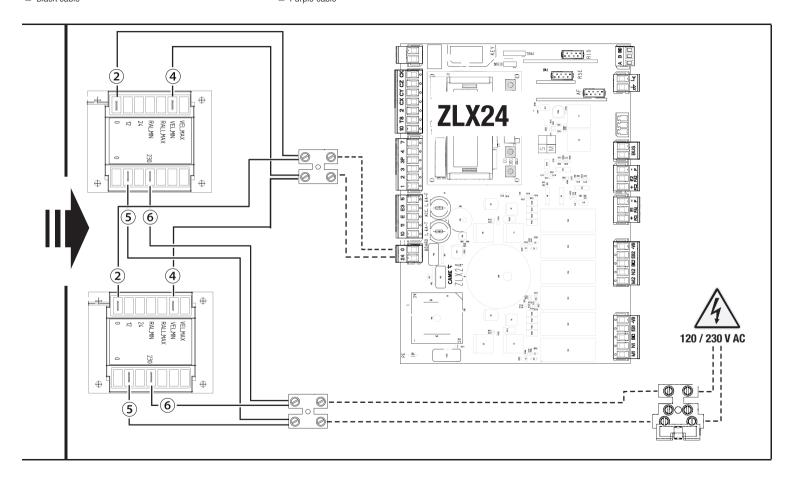
Brown cableBlue cable

② White cable

4 Black cable

6 Purple cable





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	26 AC	20
Additional light	10 - E3	26 AC	10
Flashing beacon	10 - E	26 AC	10
Operator status warning light	10 - 5	26 AC	3

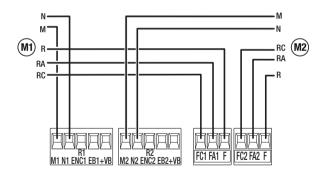
The outputs deliver 24 V DC when the batteries start operating, if they are installed.

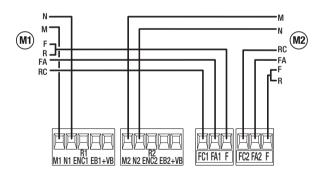
Device	Output	Power supply (V)	Power (W)
Auxiliary contact	B1 - B2	-	24 (24V AC/DC)

Connecting gearmotors without R interface (control board 119RIR267)

Connection with slowdown microswitch

Connection with limit-switch/slowdown microswitch





Set the function [F72 - Limit-switch function] taking into account the chosen connection.

Command and control devices

STOP button (NC contact)

 $\underline{\text{Stop}}$ the gate and exclude automatic closing. Use a control device to resume movement.

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

2 Control device (NO contact)

OPEN ONLY function

When the [HOLD-TO-RUN] function is active, the control device must be connected during OPENING.

3 Control device (NO contact)

PARTIAL OPENING or PEDESTRIAN OPENING function

See [Adjusting partial opening] function.

Control device (NO contact)

CLOSE ONLY function

When the [HOLD-TO-RUN] function is active, the control device must be connected during CLOSING.

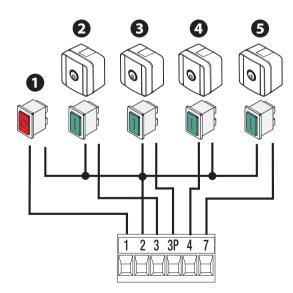
5 Control device (NO contact)

OPEN-CLOSE function

OPEN-STOP-CLOSE-STOP function

See control function 2-7.

6 Antenna with RG58 cable





Flashing beacon

It flashes when the operator opens and closes.

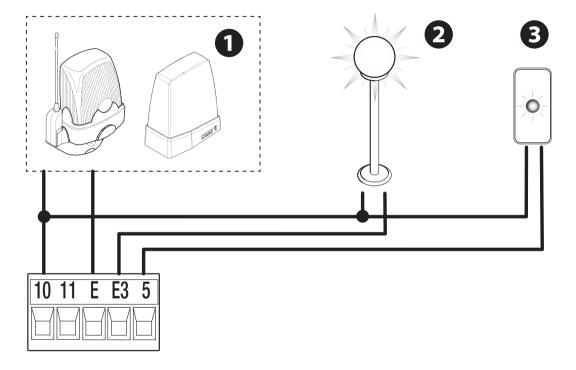
2 Additional light

It increases the light in the manoeuvring area. See [Additional light] function.

3 Operator status warning light

It notifies the user of the operator status.

See function [Passage-open warning light].



Safety devices

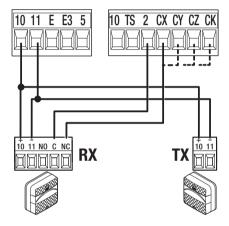
During programming, configure the type of action that must be performed by the device connected to the input.

Connect the safety devices to the CX and/or CY and/or CZ and/or CK inputs.

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

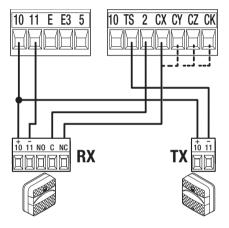
DELTA photocells

Standard connection

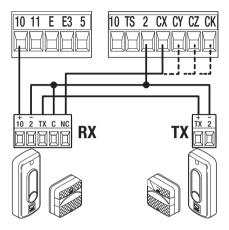


Connection with safety test

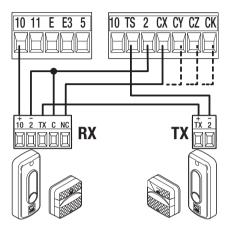
See [Safety devices test] function.

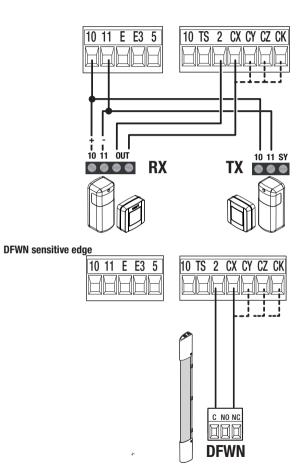


DIR / DELTA-S photocells Standard connection



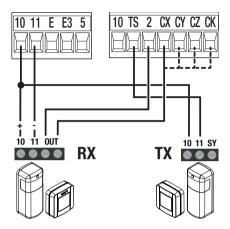
Connection with safety test See [Safety devices test] function.



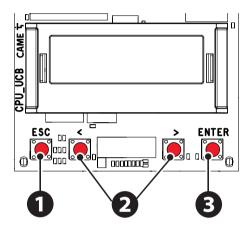


Connection with safety test

See [Safety devices test] function.



Programming button functions



1 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

2 < > buttons

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

Navigate the menu

Increase or decrease values

3 ENTER button

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

Access menus

Confirm choice

Outside the menu, the ESC key stops the gate and the < > keys open and close the gate.

Getting started

- Once the electrical connections have been made, proceed with commissioning. Only skilled and qualified staff may perform this operation.
- Please see the full control panel manual for information on the additional functions relating to the encoder, limit switch and slowdown switches.

Make sure that there are no obstacles in the way.

Power up the device and begin programming.

With mechanical and electronic stops, follow the configuration below.

GENERIC MOTOR	
Configuration>	Motor settings>
Motor type Generic	
Number of motors Motor test The > button opens gate The < button opens gate Check that both le	
configuration>	Wired safety devices>
CX input CY input CZ input CK input configuration>	Motor settings>
Limit-switch function* Off With the limit swit Stop in FA, stop in FC Slowdown in FA/FC (Defa Stop in FA, slowdown in	<i>'</i>
nput type FC/FA* N.O. (Default) N.C. N.C. for FA input, N.O. fo	r FC input
Motor power Minimum power [up to 1 Medium power (Default) Maximum power [more t	[up to 200W]
Complete programming	croswitches used. IED appears on the display, you must calibrate the travel. The panel will not accept motion commands, except for the motor test. Is and check the warning and safety devices are working properly. Is system, the first manoeuvre is always to open the gate Wait for the manoeuvre to be completed.

1CO	
	r STOP button immediately in the event of any faults, malfunctions, strange noises or vibrations, or unexpected behaviour in the system.
	INTERFACE (control board 119RIR267)
Configuration>	Motor settings>
Motor type Generic	
Number of motors Motor test	Wired cofety devices
•	Wired safety devices>
CX input CY input CZ input	
CK input Configuration>	Motor settings>
Stop in FA, slowdown in	ter if both microswitches are used for slowdown.
N.O. (Default)	ter if both microswitches are normally open. or FC input
Select the parameter is	f the closing microswitch is normally open and the opening microswitch is normally closed.
Motor power Minimum power [up to 1 Medium power (Default) Maximum power [more t	[up to 200W]
Configuration>	Gate travel settings>
Opening approach space Closing approach space	Set a value below 5%
Slowdown AST control Deactivated (Default)	
Configuration>	Motor settings>
Travel calibration	

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If CALIBRATION REQUIRED appears on the display, you must calibrate the travel. The panel will not accept motion commands, except for the motor test.
Complete programming and check the warning and safety devices are working properly.
After powering up the system, 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.

Functions menu

runctions menu				
Configuration >	Motor settings	Number of motors	M1+M2 (Default) M2	
Configuration >	Motor settings	Motor type	Generic STYLO-ME STYLO-RME FTX FAST-70 AXI AMICO FERNI FERNI-V	AX0 A3024N/A5024N FR0G-A24 FR0G-A24E (Default) ATS F1024 F4024E F4024EP
Configuration >	Motor settings	Encoder	Activated (Default) Off	
Configuration >	Motor settings	Reduce speed	Deactivated (Default) 1% to 50%	
Configuration >	Motor settings	Limit-switch function	Off Stop in FA, stop in FC Slowdown in FA/FC (Default) Stop in FA, slowdown in FC	
Configuration >		Input type FC/FA	N.O. (Default) N.C. N.C. for FA input, N.O. for FC input	
Configuration >	Motor settings	Motor test	The > button opens gate leaf M2 The < button opens gate leaf M1	
Configuration >	Motor settings	Travel calibration		

Configuration >	Motor settings	Motor power		Minimum power [up to Medium power (Default Maximum power [more) [up to 200W]		
Configuration >	Motor settings	Configure motor M1	Motor type Encoder Limit-switch fu Input type FC/I Motor power		See the specific par	ameters for each function.	
Configuration >	Motor settings	Configure motor M2	Motor type Encoder Limit-switch fu Input type FC/I Motor power		See the specific par	ameters for each function.	
Configuration >	Gate travel settings	Opening speed		40% to 100% (Default	70%)		
Configuration >	Gate travel settings	Closing speed	Closing speed		40% to 100% (Default 70%)		
Configuration >	Gate travel settings	Travel AST control		Deactivated (Default) Maximum thrust sensitivity. Minimum Average Maximum* (*) Minimum thrust ar sensitivity.		Customised Customised closing Customised opening	
Configuration >	Gate travel settings	Adjusting the partial opening		10% to 100% (Default 100%)			
Configuration >	Gate travel settings	Opening approach spa	ace	0.5% to 25.0% (Default	t 8.0%)		
Configuration >	Gate travel settings	Closing approach spa	ce	0.5% to 25.0% (Default	t 8.0%)		

Configuration >	Gate travel settings	Opening slowdown point		Deactivated (Default) 1% to 50%		
Configuration >	Gate travel settings	Closing slowdown poi	int	Deactivated (Default) 1% to 50%		
Configuration >	Gate travel settings	Opening slowdown sp	peed	10% to 50% (Default 40	0%)	
Configuration >	Gate travel settings	Closing slowdown spe	eed	10% to 50% (Default 40	0%)	
Configuration >	Gate travel settings	Slowdown AST control		Deactivated (Default) Maximum thrust and low obstruction sensitivity. Customised Customised closing Customised opening Customised opening		Customised closing
Configuration >	Gate travel settings	Impact test		Activate test mode Deactivate test mode		
Configuration >	Gate travel settings	Configure travel M1	Opening speed Closing speed Opening approa Opening slowd Closing slowd Opening slowd Closing slowd Closing slowd	oach space ach space down point own point down speed	See the specific par	rameters for each function.

Configuration >	Gate travel settings	Configure travel M2	Opening speed Closing speed Opening approach space Closing approach space Opening slowdown point Closing slowdown point Opening slowdown speed Closing slowdown speed		See the specific parameters for each funct	ion.
Configuration >	Wired safety devices	Total stop		Deactivated (Default) On		
Configuration >	Wired safety devices	CX input CY input CZ input CK input		C4 = Obstacle standby C7 = Reopen while clos C8 = Reclose while ope C13 = Reopen while clo gate is not in motion r7 = Reopen while closi r8 = Reclose while oper r7 (two sensitive edges)	ning (photocells) ith [Automatic close] activated. (photocells) ing (sensitive edges)	8K2 resistor)
Configuration >	Wired safety devices	Safety devices test		Deactivated (Default) CX CY CX _ CY CZ _ CX _ CZ CY _ CZ CY _ CZ CX _ CX _ CX _	CX CY CZ CK CX CK CY _ CK CY _ CK CZ CK CZ CK CX _ CZ CK CY CZ CK _ CY CZ CK	

Configuration >	Command inputs	Command 2-7	Step-by-step (Default) Sequential	
Configuration >	Functions	Electric lock	Deactivated (Default) From open From closed	From open and closed Continue
Configuration >	Functions	Closing thrust	Deactivated (Default) Minimum Medium Maximum	
Configuration >	Functions	Thrust	Deactivated (Default) On	
Configuration >	Functions	Removing obstacles	Deactivated (Default) On	
Configuration >	Functions	B1-B2 output	Bistable Monostable: on from 1 to 180 seconds (Default 1)	
Configuration >	Functions	Hold-to-run	Deactivated (Default) On	
Configuration >	Times	Automatic closure	Deactivated (Default) From 1 to 180 seconds	
Configuration >	Times	Automatic closing after either partial or pedestrian opening	Off 1 to 180 seconds (Default 10)	
Configuration >	Times	M1 opening delay time	Off 1 to 10 seconds (Default 2)	
Configuration >	Times	M2 closing delay time	Off 1 to 25 seconds (Default 2)	

Configuration >	Manage lights	Passage-open warning light	Warning light on (Default) - The warning light stays on when the gate is moving or open. 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.		
Configuration >	Manage lights	Additional light	Disabled (Default) Cycle lamp - The lamp stays on during the manoeuvre. 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 [Courtesy time].		
Configuration >	Manage lights	Courtesy time	60 to 180 seconds (Default 60 seconds)		
Configuration >	Manage lights	Pre-flashing time	Deactivated (Default) 1 to 10 seconds		
Configuration >	RSE communication	CRP address	1 to 254 (Default 1)		
Configuration >	RSE communication	RSE speed	4800 bps 9600 bps 14400 bps 19200 bps	38400 bps (Default) 57600 bps 115200 bps	
Configuration >	External memory	Save data			
Configuration >	External memory	Read data			
Configuration		Parameter reset	Confirm? NO Confirm? YES		
Configuration		Guided procedure (Wizard)			
Manage users		New user	Step-by-step Sequential Open	Partial opening B1-B2 output	

Manage users	Remove user	Use the arrows to choose the number associated w Confirm? NO Confirm? YES	ith the user you want to remove.
Manage users	Remove all	Confirm? NO Confirm? YES	
Manage users	Radio decoding	All decoding (Default) Rolling code TW Key block	Confirm? NO Confirm? YES
Manage users	Self-Learning Rolling	Deactivated (Default) On	
Manage users	Change mode	Step-by-step Sequential Open Partial opening B1-B2 output	Confirm? NO Confirm? YES
Information	FW version	FW MC.x.x.xx (motor board firmware version) FW Ul.x.x.xx (display board firmware version) GUl x.x (graphics)	
Information	Manoeuvre counter	Total manoeuvres Manoeuvres performed since the operator was insta Partial manoeuvres Manoeuvres carried out after the last maintenance.	alled.
Information	Configure maintenance	Deactivated (Default) 1X100 to 500X100	
Information	Maintenance reset	Confirm? NO Confirm? YES	

		Summer changeover: +1 hour on the last Sunday in March (change to daylight saving time). Winter changeover: -1 hour on the last Sunday in October (change to standard time).			
Timer management	Time format	24-hour 12-hour			
Timer management	Create new timer	Open Partial opening B1-B2 output	Start time End time		Days of the week Select days All week
Timer management	Remove timer	0 = [Opening] P = [Partial opening] B = [Output B1-B2]			
	Language	Italiano (IT) English (EN) (Default) Français (FR) Deutsch (DE) Español (ES) Português (PT) Русский (RU)		Polski (PL) Românesc (RO) Magyar (HU) Hrvatski (HR) Український (U <i>I</i> Nederlands (NL))
Password	Enable password	Use the arrows and the Enter button to dial the desired code.			
Password	Remove password	Confirm? NO Confirm? YES			
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Confirm? NO Confirm? YES

Deactivated (Default)

On

Use the arrows and the Enter button to enter the desired values.

Information

Timer management

Timer management

Timer management

Errors list

Show clock

Set the clock

Automatic DST

Password Use the arrows and the Enter button to dial the desired code.

Forgotten password

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

Factory reset

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.

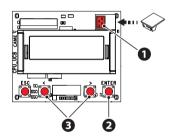
Continue to press and hold the < > buttons until [Factory reset] is displayed.

Select [Confirm YES].

Press ENTER to confirm.

🛆 When you reset the control board, all saved users, set times, manoeuvre configurations 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.

Insert the MEMORY ROLL card into the Press the "Enter" button to access Use the arrows to choose the desired function.

corresponding connector on the control board. programming.

programming.

Ose the arrows to choose the desired function

Configuration > External memory > Save data

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

ERROR MESSAGES		
E1	Motor M1 calibration error	
E2	Motor M2 calibration error	
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	BUS device communication error	
E25	Address settings error on BUS devices	



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