

Control panel for 230 V gearmotors

FA02003-EN

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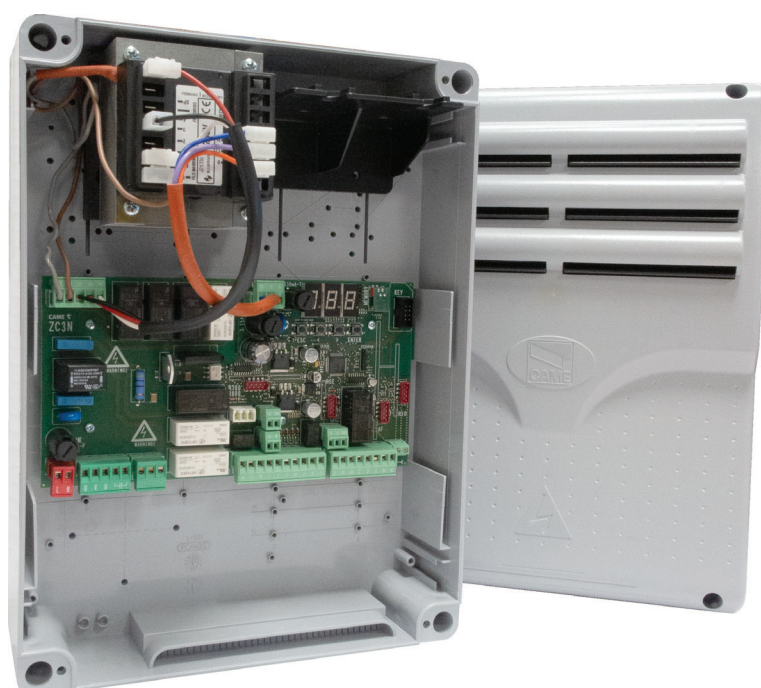
**ZC3N****ZC3NC****INSTALLATION MANUAL**

TABLE OF CONTENTS

GENERAL PRECAUTIONS FOR INSTALLERS	3
DISMANTLING AND DISPOSAL	4
PRODUCT DATA AND INFORMATION	5
Key	5
Description	5
Technical data	5
Fuse table.....	5
Description of parts	6
Only ZC3NC.....	7
Size	7
Cable types and minimum thicknesses	8
INSTALLATION	9
Preparing the control panel.....	9
Fastening the control panel.....	10
ELECTRICAL CONNECTIONS	11
Preparing the electrical cables.....	11
Mains power supply (230 V AC - 50/60 Hz)	11
Connecting up the gearmotor.....	12
Gearmotor without limit switch.....	12
Gearmotor with limit switch	12
Adjusting the motor torque	13
Capacitor connection	13
Connecting accessories.....	14
Power supply output for accessories 24 V	14
Maximum capacity of contacts.....	14
Power supply output for accessories 230 V	14
Auxiliary connection output.....	14
Command and control devices.....	14
Signalling devices.....	15
Photocells and sensitive edges	16
DIR photocells	16
DXR / DLX photocells	17
DFWN sensitive edge	17
Electric lock or electromagnetic lock.....	17
PROGRAMMING.....	18
Programming button functions and warning LEDs.....	18
Getting started.....	18
Functions menu.....	19
Import/export data	24
DISPLAY WARNINGS AND ERROR MESSAGES KEY	25
Display warnings	25
Error messages	26
FINAL OPERATIONS	26

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 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 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.

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.

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

- 801QA-0140**
230 V control panel for industrial doors with brake function.
- 801QA-0150**
230 V control panel for industrial doors with brake function and complete with safety lock and buttons.

Technical data

MODELS	ZC3N	ZC3NC
Power supply (V - 50/60 Hz)	230 AC	230 AC
Motor power supply (V)	230 AC	230 AC
Board power supply (V)	24 AC	24 AC
Power (W)	600	600
Maximum current draw (A)	4	4
Colour	RAL 7040	RAL 7040
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55
Storage temperature (°C)*	-25 ÷ +70	-25 ÷ +70
Protection rating (IP)	54	54
Insulation class	II	II
Average life (cycles)**	100.000	100.000

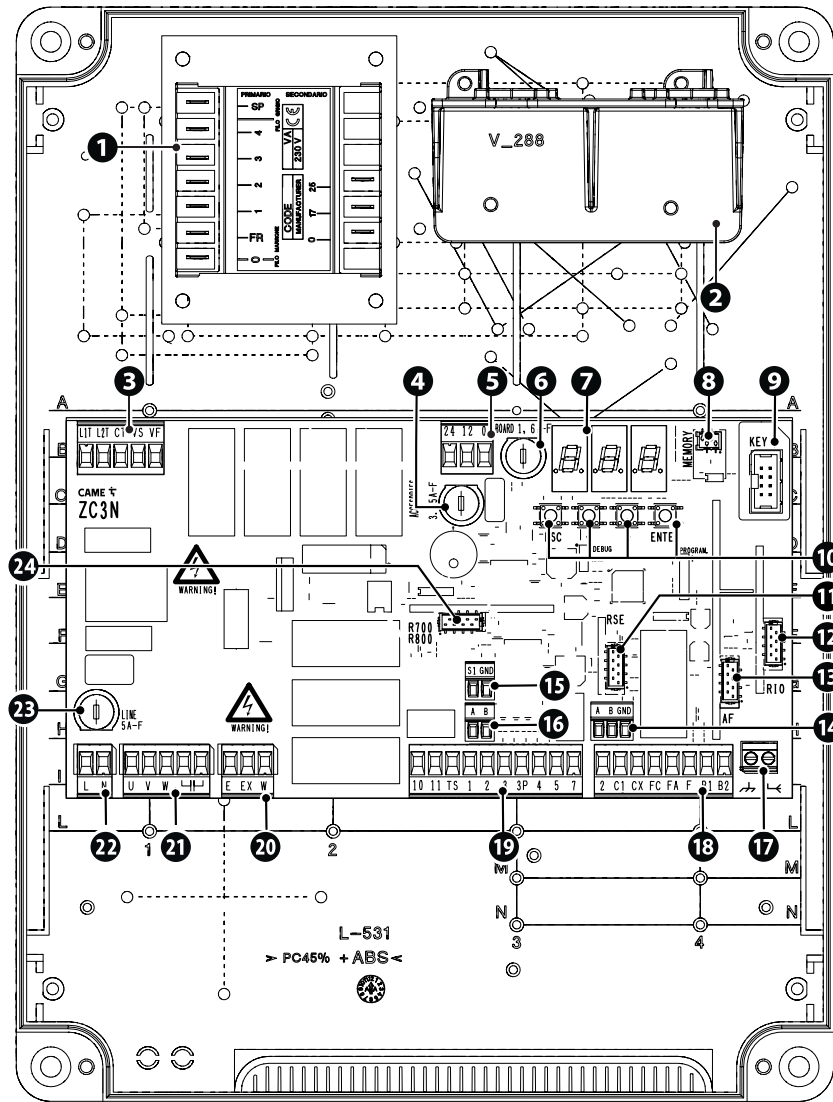
(*) Before installing the product, keep it at room temperature where it has previously been stored or transported at a very high or very low temperature.

(**) The average product life 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 (where present, see the MCBF table). The average product life should not be confused with the product warranty.

Fuse table

MODELS	ZC3N	ZC3NC
Line fuse	5 A F	5 A F
Control-board fuse	1.6 A F	1.6 A F
Accessory fuse	3.15 A F	3.15 A F

Description of parts

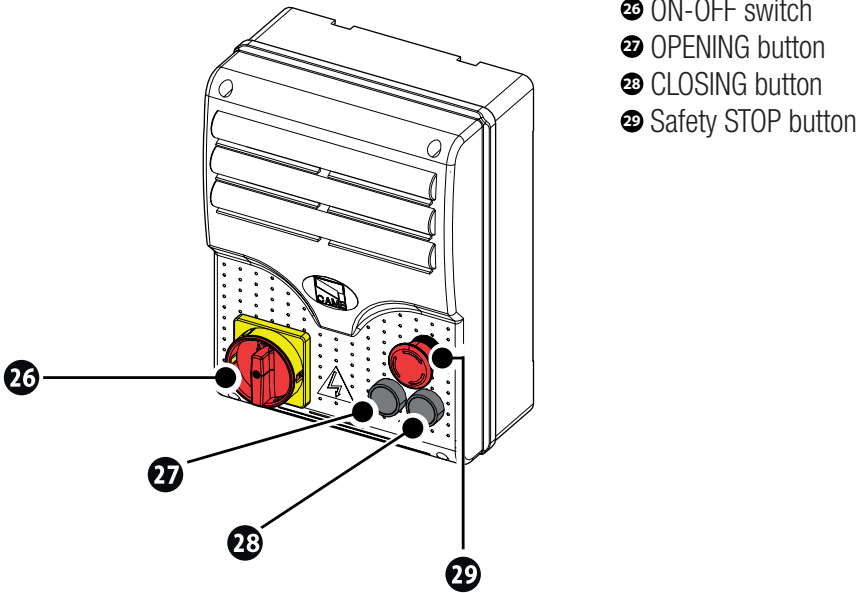


- ❶ Transformer
- ❷ Capacitor housing
- ❸ Terminal board for connecting the capacitor
- ❹ Accessories fuse
- ❺ Terminal board for power supply to the control board
- ❻ Control board fuse
- ❼ Display
- ❽ Memory Roll card connector
- ❾ Connector for CAME KEY device / Wi-Fi – BLE Gateway / Slave module
- ❿ Programming buttons
- ⓫ RSE card connector
- ⓬ RIO CONN card connector
- ⓭ Connector for plug-in radio frequency card (AF)

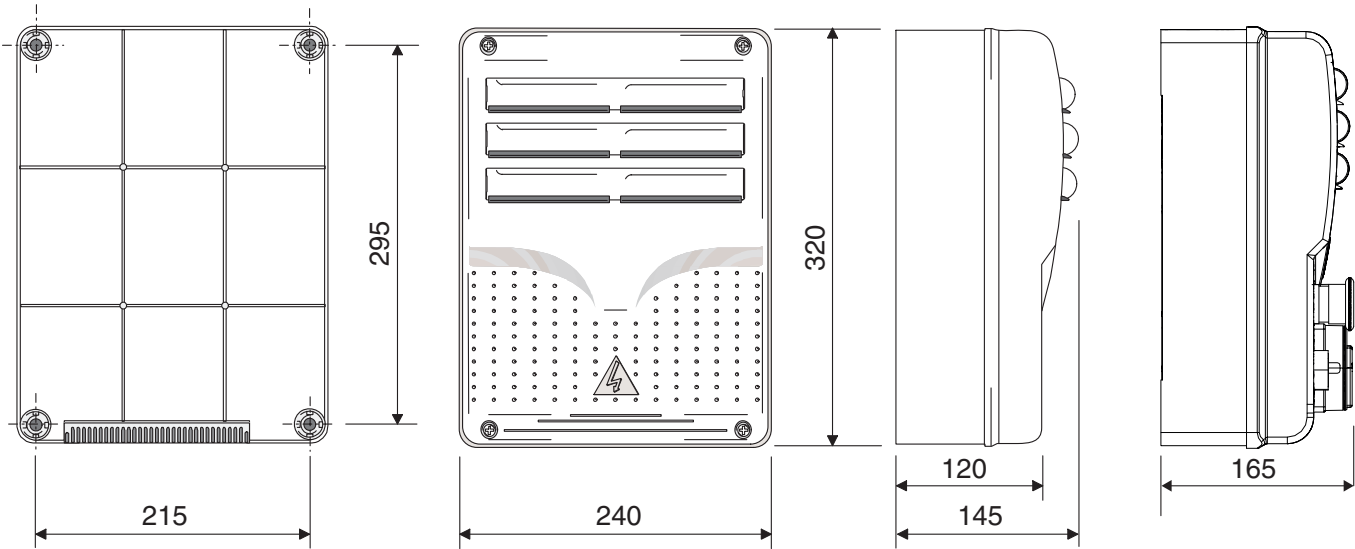


- ⓮ Terminal board for CRP connection
- ⓯ Terminal board for connecting the transponder selector switch
- ⓰ Terminal board for connecting the keypad selector
- ⓱ Terminal board for connecting the antenna
- ⓲ Safety device terminal board, micro limit switches and auxiliary contact
- ⓳ Terminal board for connecting control devices
- ⓴ Terminal board for connecting the signalling devices
- ⓵ Terminal board for motor connection and capacitor
- ⓶ Power supply terminal board
- ⓷ Line fuse
- ⓸ Connector for the R700 or R800 decoding card
- ⓹ Breakaway capacitor connection cables

Only ZC3NC



Size



Cable types and minimum thicknesses

Cable length (m)	up to 20	from 20 to 30
Flashing beacon 230 V AC	2 x 1 mm ²	2 x 1 mm ²
Electric lock or electromagnetic lock	2 x 1 mm ²	2 x 1 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
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 / 400 V and outdoors, use H05RN-F-type cables that are 60245 IEC 57 (IEC) compliant; when indoors, use H05VV-F-type cables that are 60227 IEC 53 (IEC) 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).

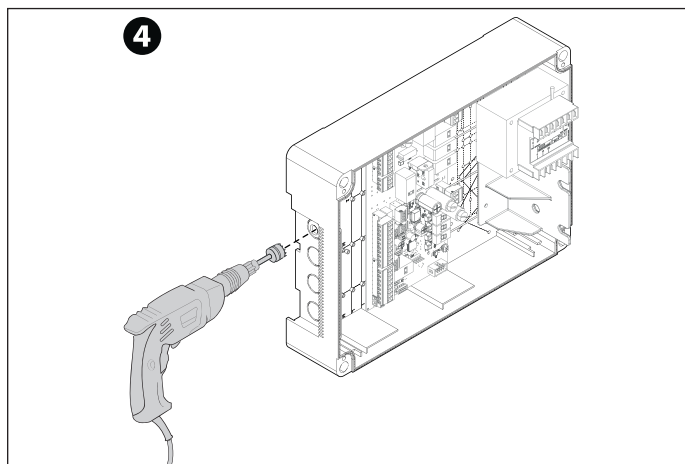
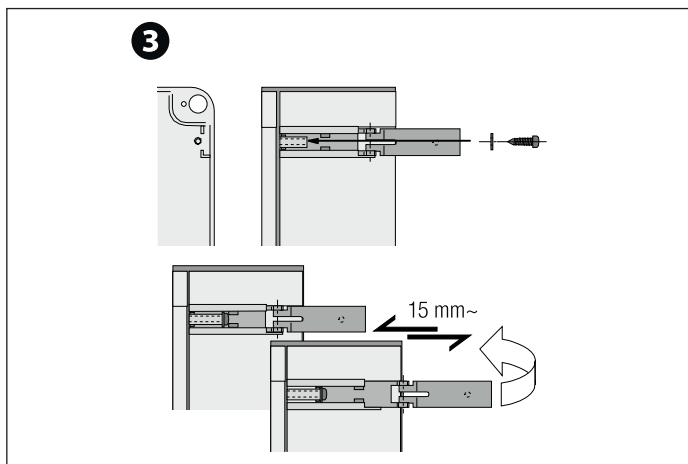
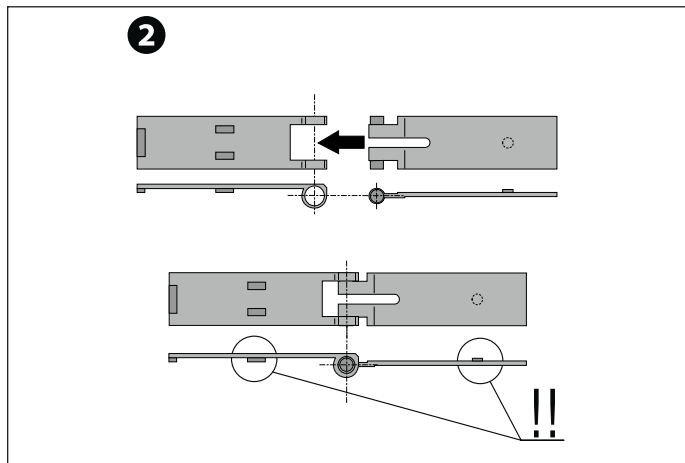
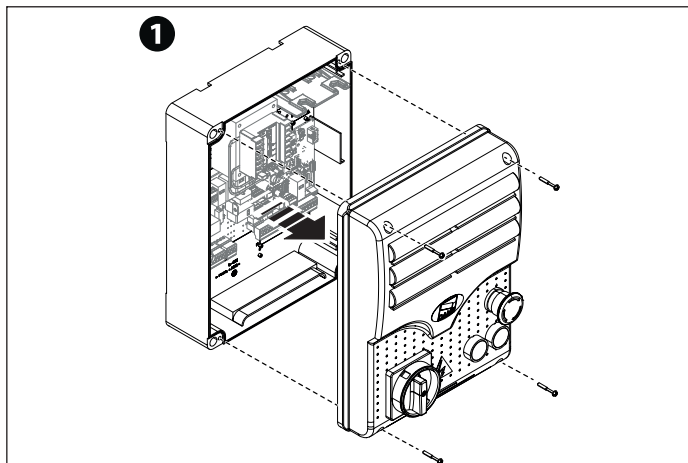
 If the cable lengths differ from those specified in the table, define the cable cross-sections according to the actual power draw of the connected devices and in line with regulation CEI EN 60204-1.

 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

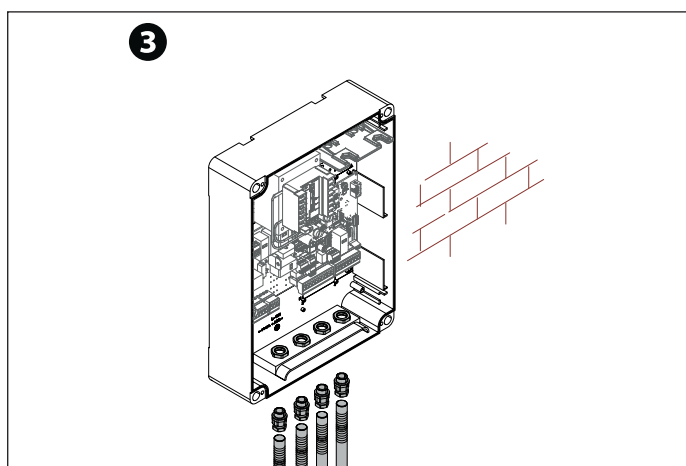
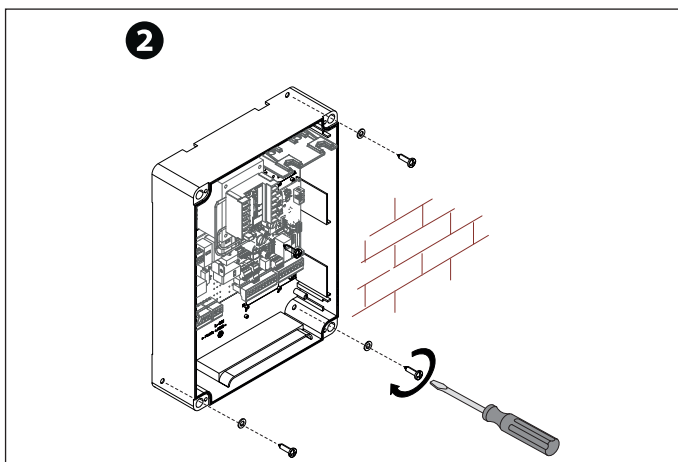
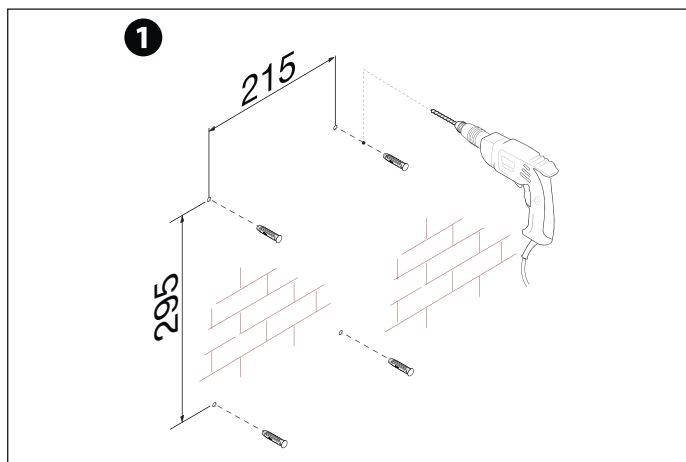
Preparing the control panel

- ❶ Separate the parts of the control panel.
- ❷ Assemble the pressure hinges.
- ❸ Insert the hinges into the box (either on the left or the right) and fasten them using the screws and washers supplied. The hinges slide to rotate.
- ❹ Drill the pre-marked holes. The diameter of the holes is 20 mm.

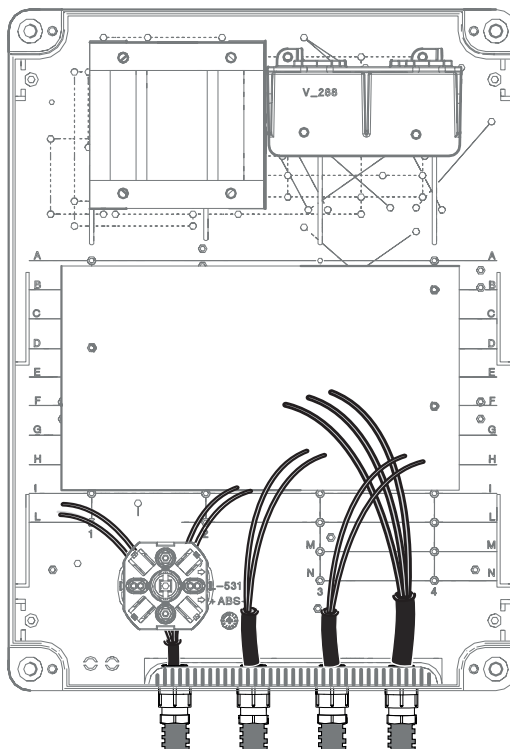


Fastening the control panel

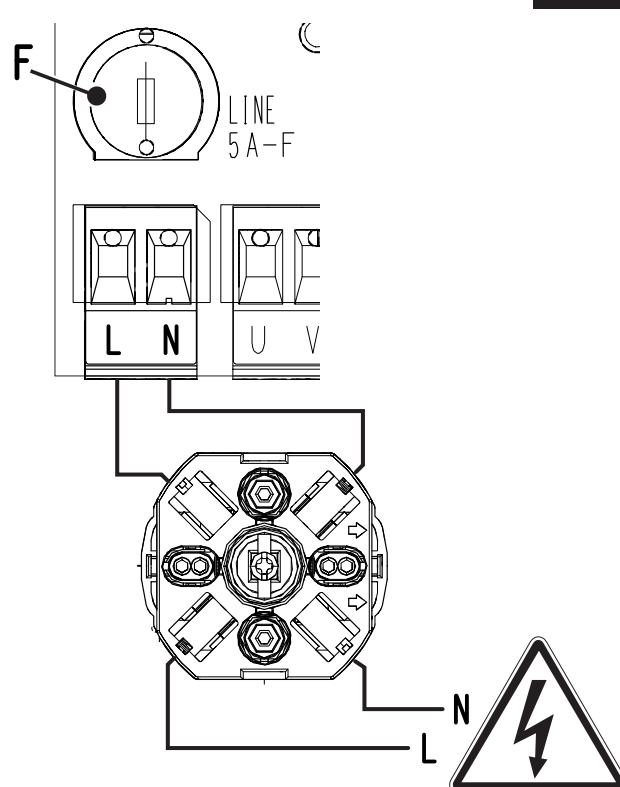
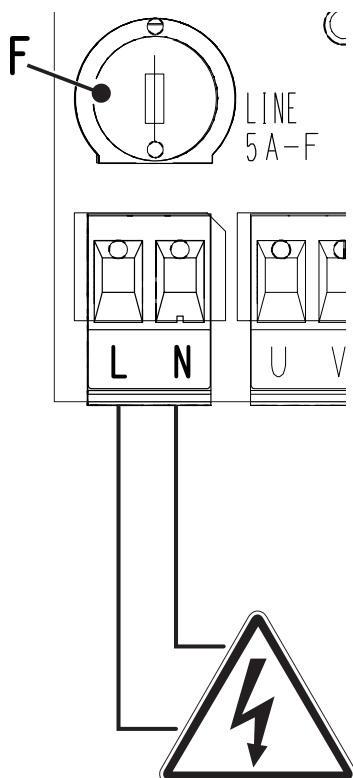
- ❶ Drill the fixing points in the control panel in a protected area.
 - ❷ Fasten the base using screws and plugs.
- 📖 Use Phillips round head screws (maximum diameter 6 mm).
- ❸ Insert the cable gland with the corrugated tubes for threading the electrical cables



- 📖 Connect all wires and cables in compliance with the law.
- 📖 Use cable glands to connect the devices to the control panel. One of these must be intended exclusively for the power supply cable.



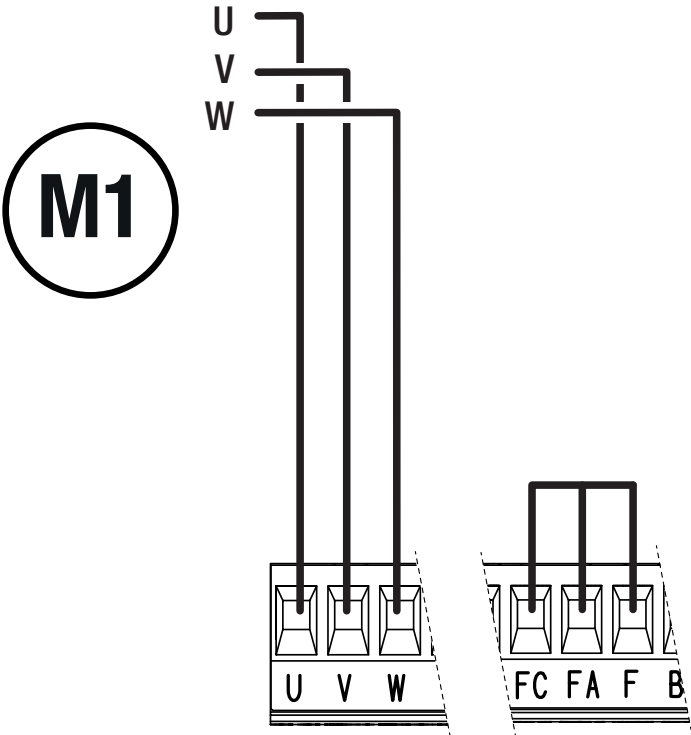
L -Phase N -Neutral F -Line fuse



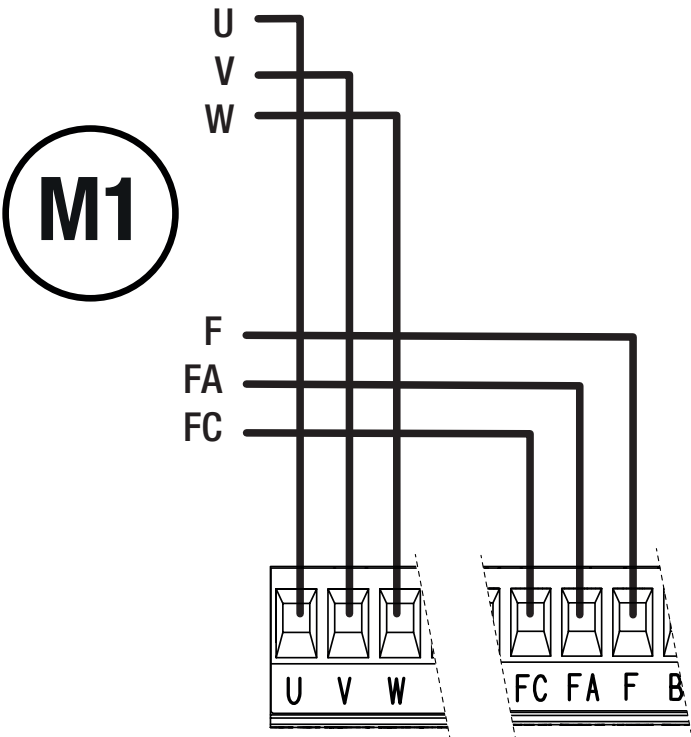
Connecting up the gearmotor

Gearmotor without limit switch

⚠ If unused, short circuit the limit-switch terminals.

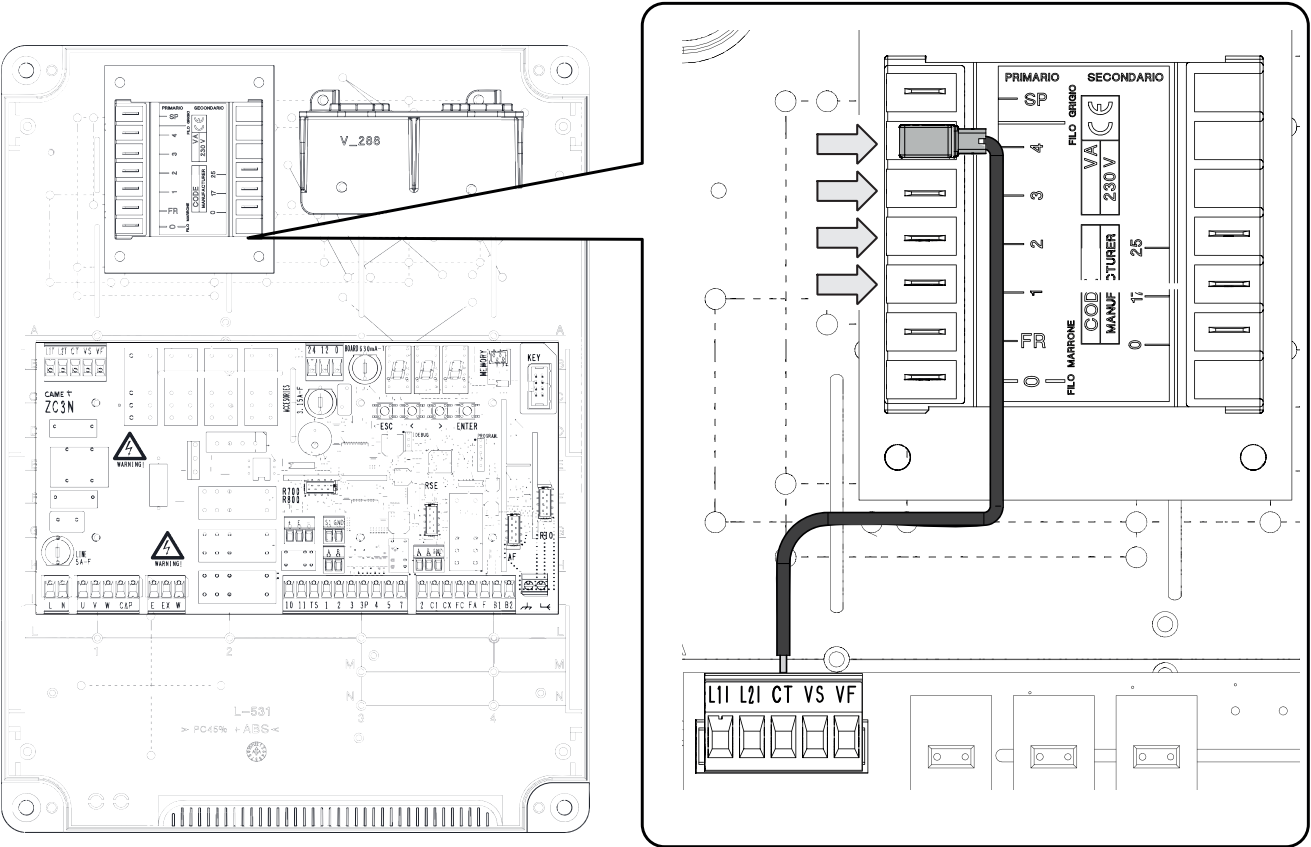


Gearmotor with limit switch

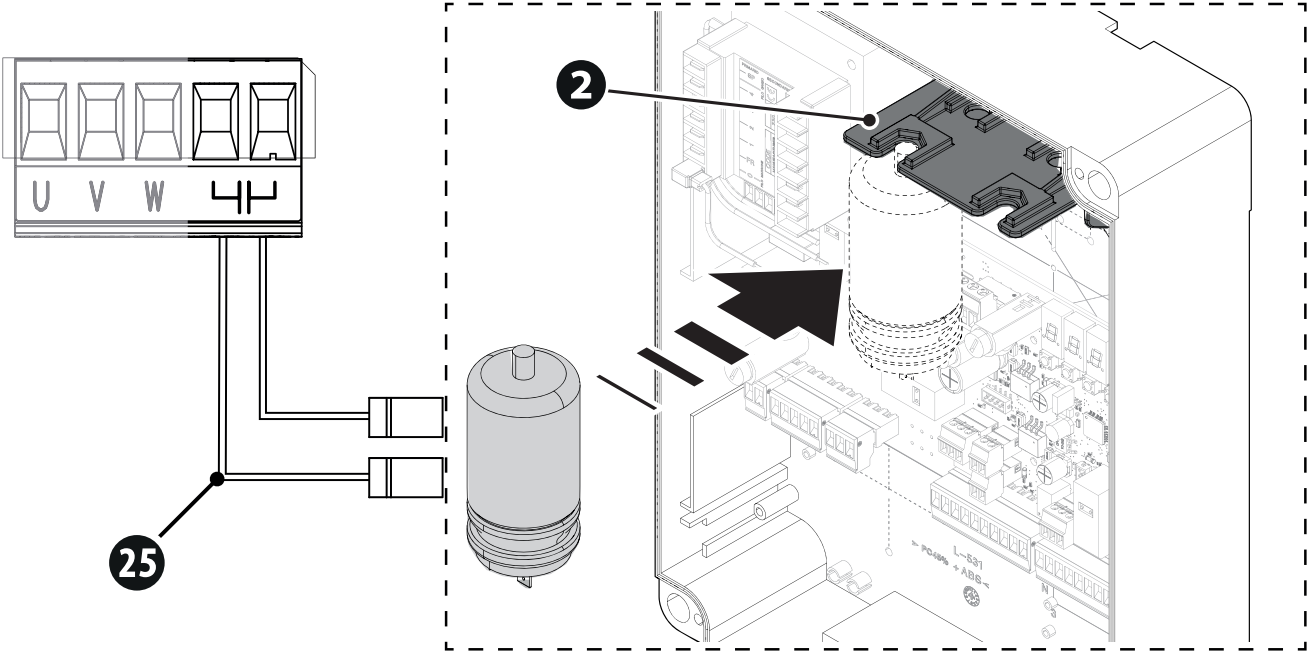


Adjusting the motor torque

 To vary the motor torque, move the corresponding Faston terminal to one of the four positions; from 1 (minimum) to 4 (maximum).



Capacitor connection



Connecting accessories

Power supply output for accessories 24 V

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	20
Passage-open warning light	10 - 5	24 AC	3

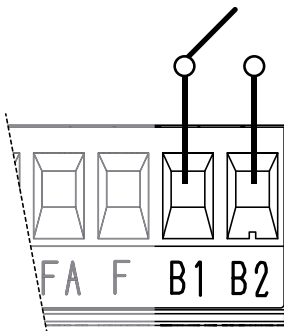
Power supply output for accessories 230 V

Device	Output	Power supply (V)	Frequency (Hz)	Maximum power (W)
Flashing beacon	E - W	230 AC	50/60	25
Additional light	EX - W	230 AC	50/60	60

Auxiliary connection output

Device	Output	Rated current (A)	Rated current (V)
Auxiliary contact	B1 - B2	1	24 AC/DC

📖 See function [F91 - Output B1-B2].



Command and control devices

1

2

STOP button (NC contact)

📖 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 command

📖 See function [F71 - 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].

Card reader

Transponder selector switch

S1
GND

📖 Insert the R700 card into the corresponding connector.
📖 See function [F14 Sensor type].

A
B

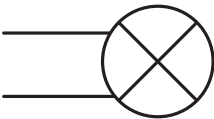
Keypad selector
📖 Insert the R800 card into the corresponding connector.
📖 See function [F14 Sensor type].



Antenna with RG58 cable
Use this terminal to connect the antenna.

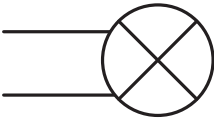
Signalling devices

E
W



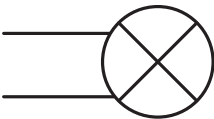
Flashing beacon
It flashes when the operator opens and closes.

W
EX



Additional light
It increases the light in the manoeuvring area.
📖 See function [F18 - Additional light].

10
5



Operator status warning light (Passage-open warning light)
📖 See function [F10 - Passage-open warning light].

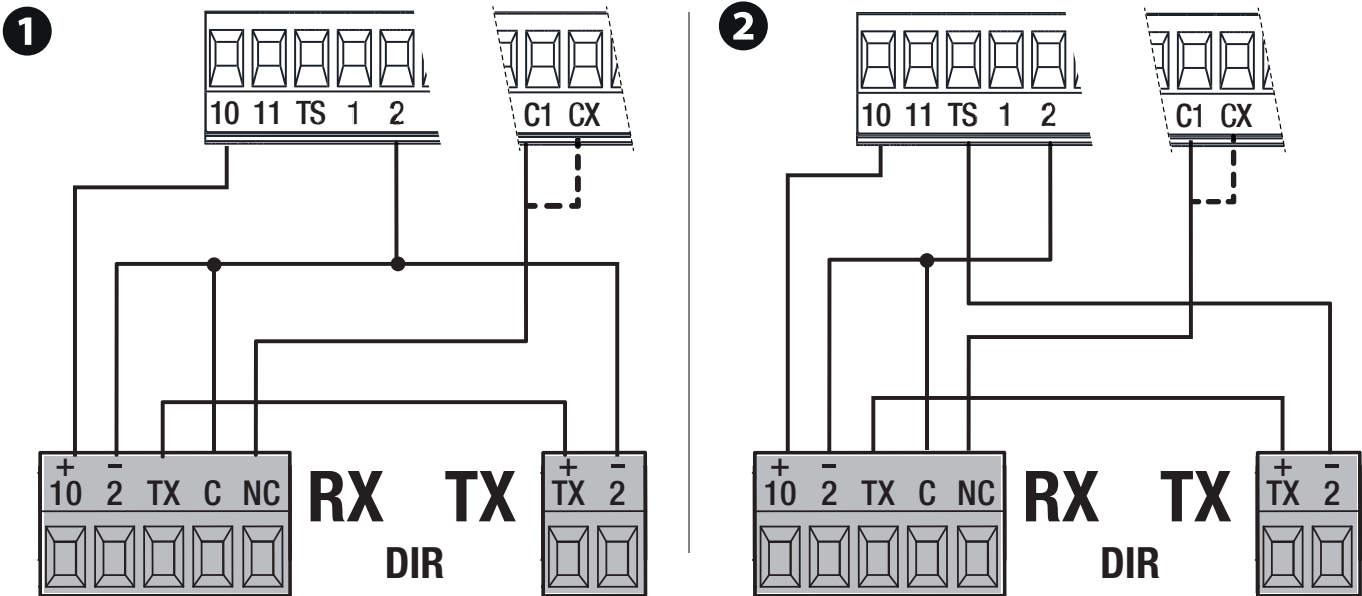
Photocells and sensitive edges

Connect the devices to inputs C1 and/or CX.
During programming, configure the type of action that must be performed by the device connected to the input.

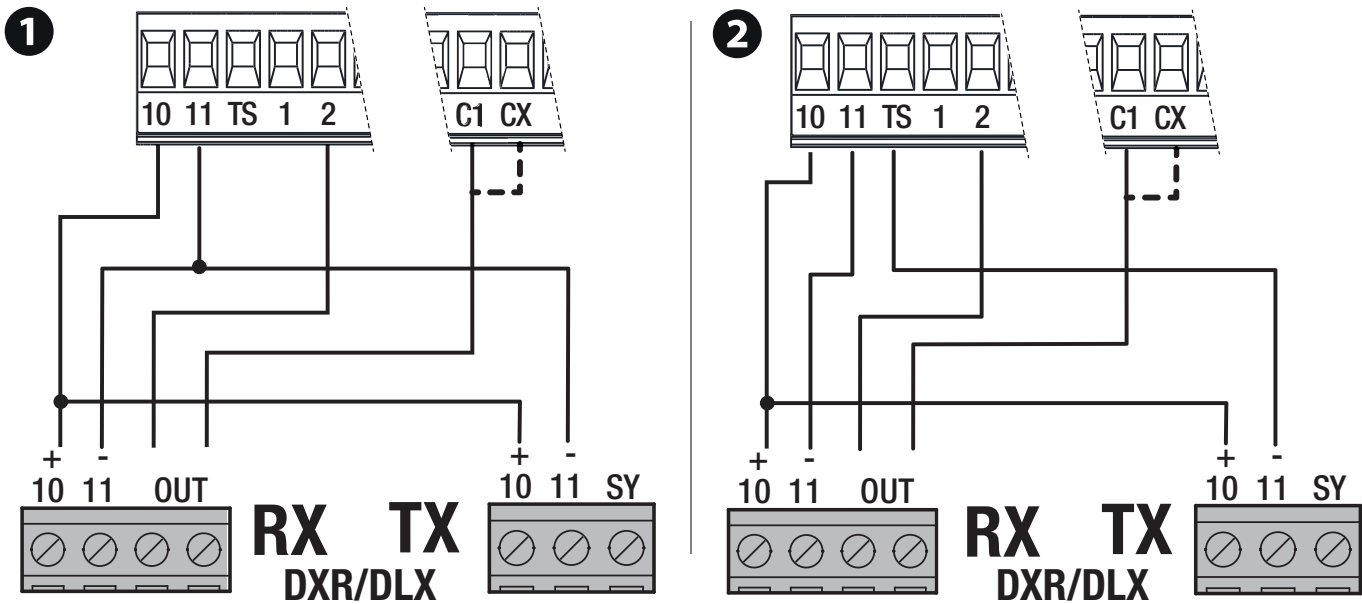
- 📖 If contacts C1 and CX are used, they must be configured during programming.
- 📖 For systems with multiple pairs of photocells, please see the manual for the relevant accessory.

- ❶ Standard connection
- ❷ Connection with safety test
- 📖 See [Safety devices test] function.

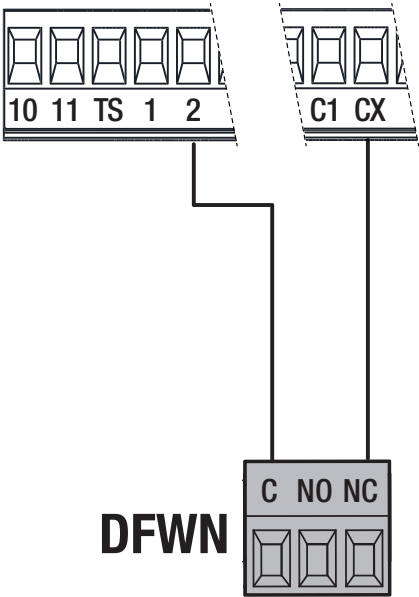
DIR photocells



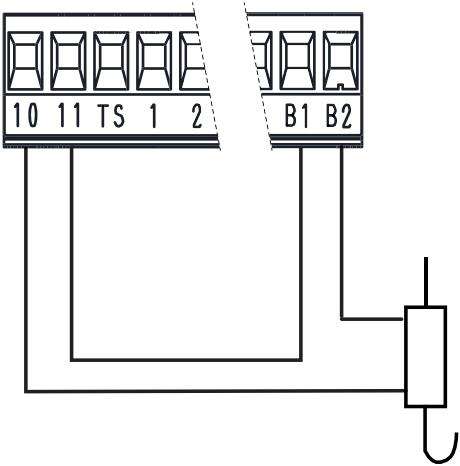
DXR / DLX photocells



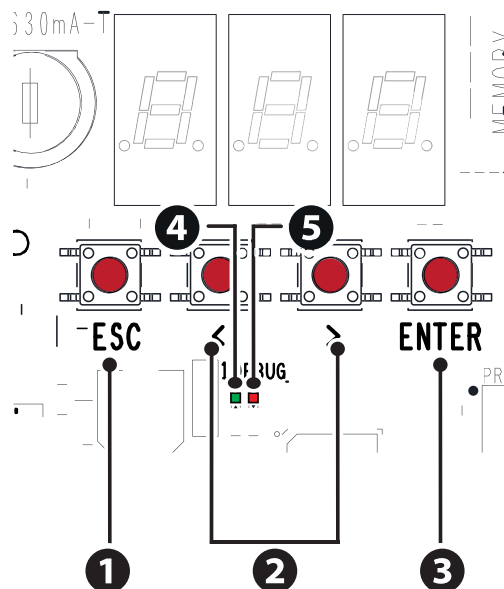
DFWN sensitive edge



Electric lock or electromagnetic lock



Programming button functions and warning LEDs



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)

ENTER button

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

Access menus

Confirm choice

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

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.

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.

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

Function		Parameters	Function description
F1	Total stop	OFF (Default) ON	This stops the operator and excludes automatic closing. Use a control device to resume movement.
F2	CX input	OFF (Default) C1 = Reopen while closing (photocells) C3 = Partial stop Only with [F19 - Automatic close] activated. C4 = Obstacle standby (photocells) C7 = Reopen while closing (sensitive edges). Inhibited in the fully closed position. r7 = Reopen while closing (sensitive edges with 8K2 resistor). Inhibited in the fully closed position.	Associate a function with the CX input.
F3	Input C1	OFF C1 = Reopen while closing (photocells)	Associate a function with input C1.
F5	Safety devices test	OFF (Default) 1 = CX 2 = C1 3 = CX+C1	Check that the photocells connected to the inputs are operating correctly, after each opening and closing command.
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 and the operator stopped, an open or close command is not performed if the safety devices detect an obstacle. The function is active when the passage is closed or open, or after a complete stop.

Function		Parameters	Function description
F10	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.
F14	Sensor type	1 = Keypad (Default) 0 = Transponder	Choose the type of access device.
F16	Thrust	OFF (Default) ON	Before every opening manoeuvre, the leaves thrust inwards to release the electric lock.  The function is visible only with the electric lock active [Function F17 set to 1].
F17	Lock	OFF (Default) 1 = Electric lock 4 = Electromagnetic lock	Choose the operation type to associate with the electromagnetic lock or electric lock.
F18	Additional light	OFF (Default) 1 = Cycle light - The lamp stays on during the manoeuvre.  The parameter only appears if an automatic closing time is set [F19 - Automatic closing]. 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].	Choose the operating mode of the lighting device connected to the output W-EX.
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.  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 partial opening	1 to 180 seconds (Default 10)	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, after a complete stop, during a power outage or if there is an error.

Function		Parameters	Function description
F21	Pre-flashing time	OFF (Default) 1 to 10 seconds	Adjust the time for which the beacon is activated before each manoeuvre.
F22	Operating time	10 to 150 seconds (Default 150)	Set the gearmotor working time during opening and closing.
F25	Courtesy light 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.
F26	Thrust time	1 to 2 seconds (Default 1)	Adjust the gearmotor closing thrust after an opening command.  The function is visible only with the electric lock active [Function F17 set to 1].
F27	Electric lock time	1 to 4 seconds (Default 1)	Adjust the electric lock release time after an opening command.  The function is visible only with the electric lock active [Function F17 set to 1].
F48	Manoeuvre thrust activation	OFF ON (Default)	Adjust the thrust torque increase during opening and closing.
F50	Save data	OFF (Default) 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 (Default) 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	from 1 to 255 (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.

Function		Parameters	Function description
F63	RSE speed	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	Set the remote connection system communication speed on the RSE port.
F65	RIO ED T1	OFF (Default) P0 = It stops the gate and excludes automatic closing. Use a control device to resume movement. P7 = Reopen while closing (sensitive edges). Inhibited in the fully closed position.	Associate one of the available functions with a wireless safety device. The function only appears if the RIO CONN interface board is present.
F66	RIO ED T2		
F67	RIO PH T1	OFF (Default) P1 = Reopen while closing. P3 = Partial stop. Only with [Automatic close] activated. P4 = Obstacle standby.	Associate one of the available functions with a wireless safety device. The function only appears if the RIO CONN interface board is present.
F68	RIO PH T2		
F69	Motor brake	See the table below for the parameters.	Enable the motor brake.

Key

Closing brake: This applies to the motor stop when the operator is closing.

Opening brake: This applies to the motor stop when the operator is opening.

Closing limit-switch brake: This applies to the motor stop when the operator reaches the closing limit switch.

Brake mode	Closing brake	Opening brake	Closing limit-switch brake
OFF = Deactivated	No	No	No
1 = Transformer brake It can only be used with the FR output available on the transformer.	Yes	Yes	Yes
2 = Brake with inversion thrust (closing)	Yes	No	No
3 = Brake with inversion thrust	Yes	Yes	No
4 = Brake with inversion thrust	Yes	No	Yes
5 = Brake with inversion thrust	Yes	Yes	Yes

F71	Partial opening time	3 to 40 seconds (Default 5)	Adjust the partial opening time.
F91	B1-B2 output	0 = bistable 1-180 seconds (default 1) = Monostable The contact remains closed for 1 to 180 seconds.	Configure the contact B1-B2. The function only appears if [F17 - Lock] is set to OFF.

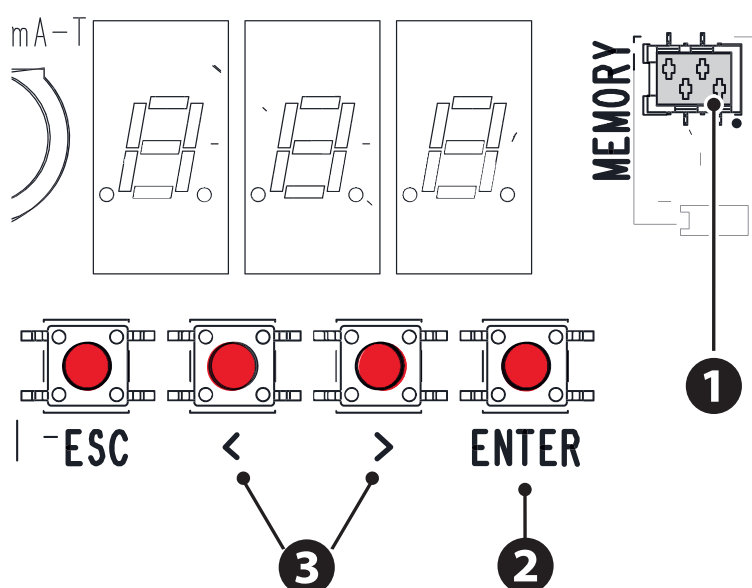
Function		Parameters	Function description
U1	New user	1 = Step-by-step - The first command is to open and the second to close. 2 = Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP. 3 = Open 4 = Partial opening 5 = Output B1-B2 Choose the function 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.	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.
U2	Remove user	Use the arrows to change the status from OFF to ON and press ENTER to confirm. Use the arrows to choose the number associated with the user you want to remove. No. 1 > 250 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 one of the registered users.
U3	Remove all	OFF (Cancel operation) ON (Run operation)	Remove all registered users.
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 with a different type of radio coding 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.

	Function	Parameters	Function description
A4	Parameter reset	ON (Run operation) OFF (Cancel operation)	Restore the factory configurations except for:[users], [CRP address]
A5	Manoeuvre counter	001 = 100 manoeuvres / 010 = 1000 manoeuvres / 100 = 10000 manoeuvres / 999 = 99900 manoeuvres / CSI = maintenance job	View the number of operator manoeuvres.

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.

H1	FW version	Display the firmware version.
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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.

F50	Save data	OFF (Default) ON (Run operation)	Save user data, timings and configurations to the memory device (memory roll).
F51	Read data	OFF (Default) ON (Run operation)	Upload user data, timings and configurations to the memory device (memory roll).

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

Once the data have been saved and loaded, remove the MEMORY ROLL card.

DISPLAY WARNINGS AND ERROR MESSAGES KEY

Display warnings

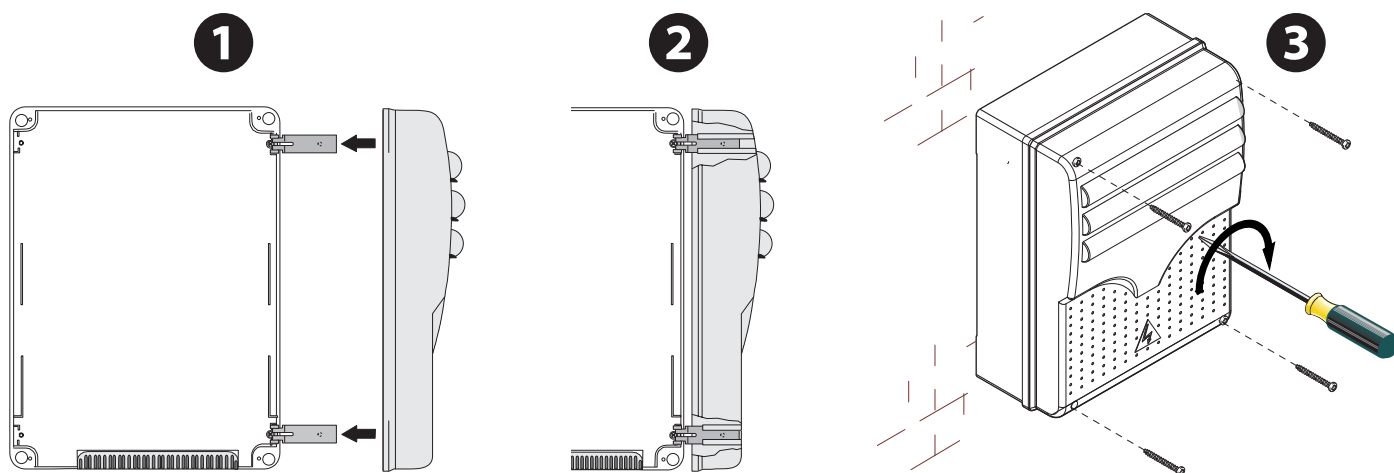
C<n>	Wired safety device active  The <n> value is associated with the selected parameter for the functions [F2 - CX input] [F3 - CY input] [F4 - CK input] [F90 - CZ input].
r7	R7 safety device (sensitive edge) active
C0	Total stop active
P<n>	RIO safety device active  The <n> value is associated with the selected parameter for the functions [RIO ED T1 - RIO ED T2] and [RIO PH T1 - RIO PH T2]
OP.	Passage fully open
CL.	Passage fully closed

Error messages

E4	Service test failure error
E9	Consecutive obstacles detected during closing
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

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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