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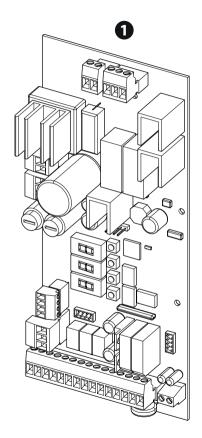
EN English

CAME S.P.A.

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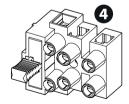
DESCRIPTION OF PARTS



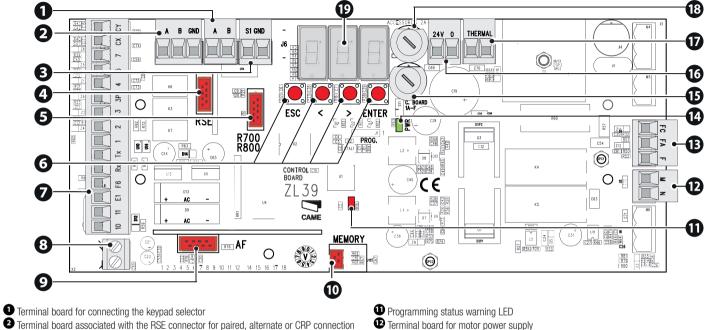








- 1 Control board ZL39B
- 2 Fuse 1.6A (line 230 V)
- Terminal block with fuse compartment
- 3 Fuse 3.15A (line 120 V)
- The board is not compatible with the LB38 battery charger. When battery operated, use LB39.
- Paired operation between operators with ZL38 and ZL39B is not available. Only activate operation on operators with the same control board.



- 3 Terminal board for connecting the transponder selector switch
- 4 RSE card connector
- **5** Connector for the R700 or R800 decoding card
- **6** Programming buttons
- Terminal board for connecting control and safety devices
- Terminal board for connecting the antenna
- Onnector for plug-in radio frequency card (AF)
- Memory Roll card connector

- 13 Terminal board for limit-switch micro-switches
- Power LED
- 1 Control board fuse
- 16 Terminal board for connecting the transformer
- Terminal board for connecting the transformer thermal cut-off switch
- Accessories fuse
- 1 Display

ELECTRICAL CONNECTIONS

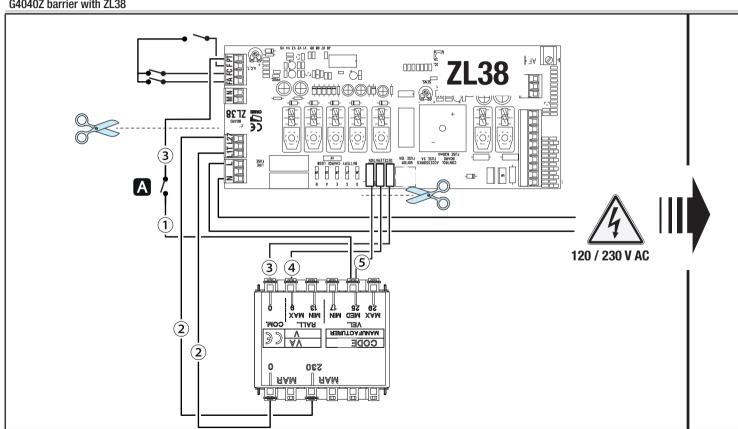
A Before working on the control panel, cut off the mains power supply.

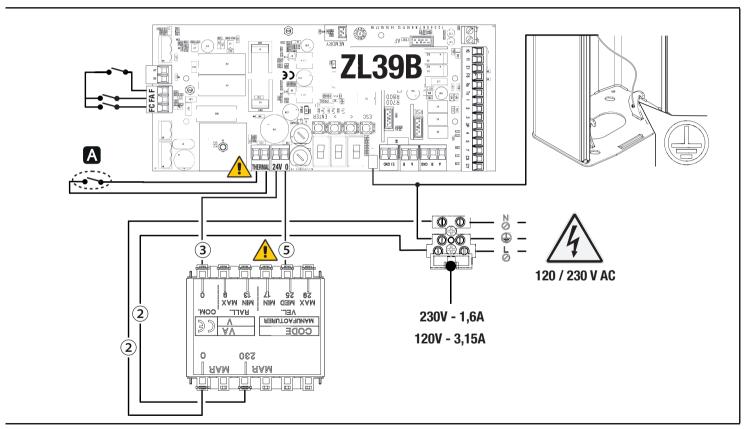
2 Brown cable 3 White cable 1 Blue cable

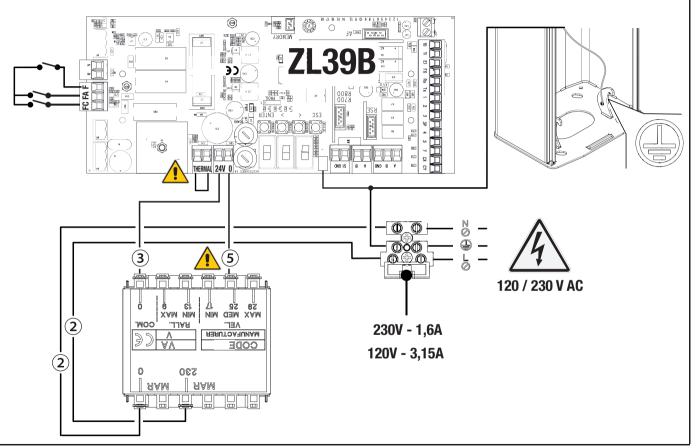
4 Red cable

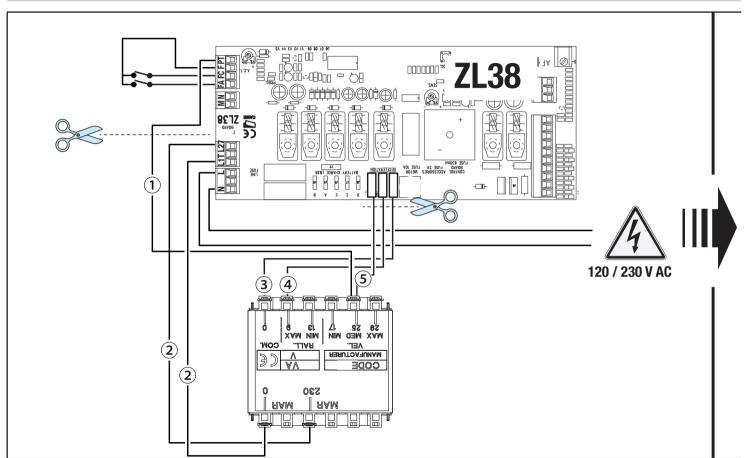
5 Black cable

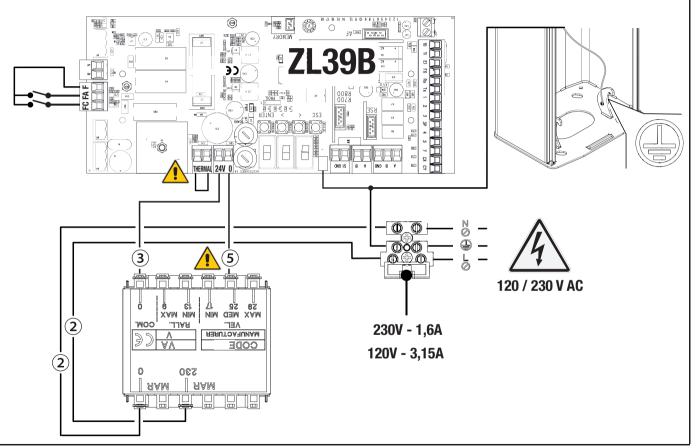
G4040Z barrier with ZL38











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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)	Power (W)
Accessories	10 - 11	24 AC	40
Additional light	10 - E1	24 AC	25
Flashing beacon	10 - E1	24 AC	25
Operator status warning light	10 - 5	24 AC	3

Command and control devices

1 STOP button (NC contact)

This stops the boom and excludes automatic closing. Use a control device to resume movement. $\overline{ }$

If the contact is not used, it must be deactivated 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 function

The contact must only be used for operators working in paired mode.

Control device (NO contact)

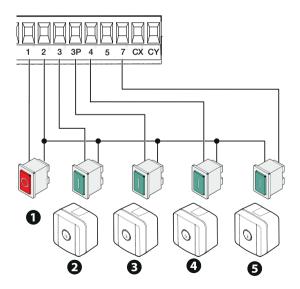
CLOSE ONLY function

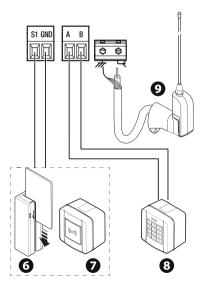
When the [HOLD-TO-RUN] function is active, the control device must be connected during CLOSING.

5 Control device (NO contact)

OPEN-CLOSE function

- 6 Card reader
- **7** Transponder selector switch
- 8 Keypad selector
- Antenna with RG58 cable





Additional light

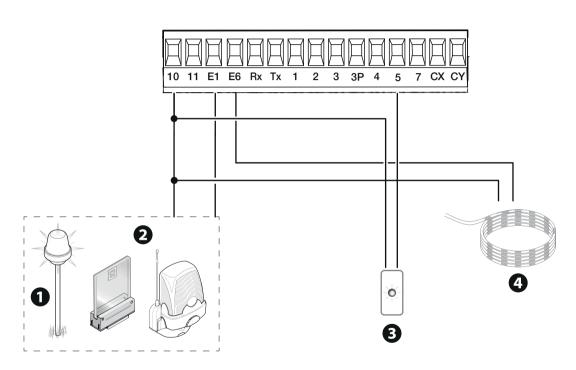
2 Additional flashing beacon

3 Operator status warning light

Rope light It flashes when the operator opens and closes.

It increases the light in the manoeuvring area. It flashes when the operator opens and closes.

It notifies the user of the operator status.



Safety devices

Connect the safety 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 not used, they must be deactivated during programming.

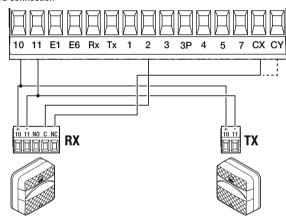
Multiple photocell pairs can be connected.

For Safety Devices Test mode, please see the [F5] function.

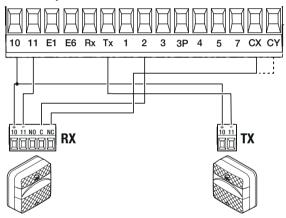
For Sleep mode, please see the [F60] function.

DELTA photocells

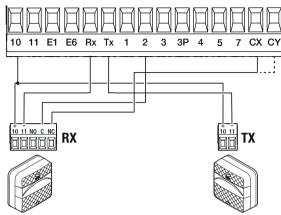
Standard connection



Connection with safety test

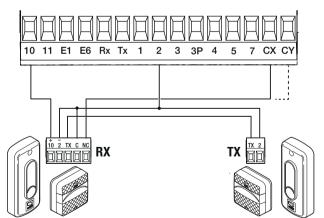


Connection with Sleep Mode

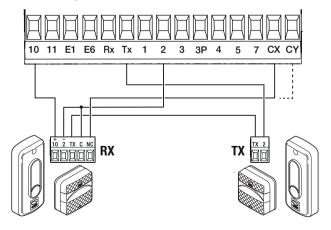


DIR / DELTA-S photocells

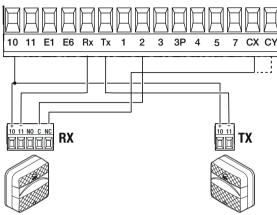
Standard connection



Connection with safety test

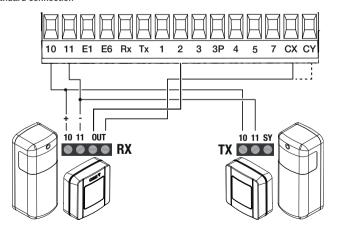


Connection with Sleep Mode

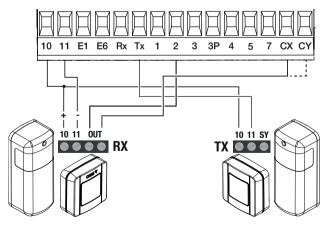


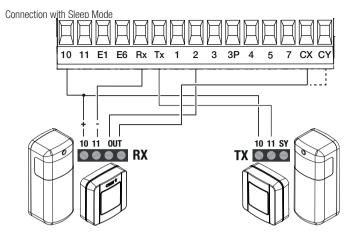
DXR/DLX photocells

Standard connection



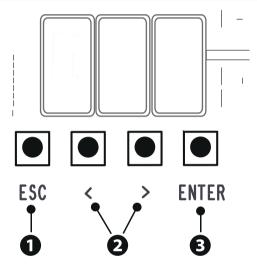
Connection with safety test





PROGRAMMING

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

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

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Getting st	etting started			
Once the electrical connections have been made, proceed with commissioning. Only skilled and qualified staff may perform this operation. Check the warning and safety devices are working properly.				
Make sure that there are no obstacles in the way. Power up and proceed with the operations indicated below. Motor test				
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. It the end of commissioning, check the correct operation of the device using the buttons near the display. Check that the accessories also work correctly.				
Total stop This stops t	the boom and excludes automatic closing.	Use a control device to resume movement.		
F1	Total stop	0 =Deactivated (Default) 1 = Activated		
nputs CX CY associate a function with the input CX CY				
F2 F3	CX input CY input	0 =Deactivated (Default) 1 = C1 = Reopening while closing (Photocells) 4 = C4 = Obstacle wait (Photocells)	$\begin{array}{l} 5=\text{C5} = \text{Immediate closing at the opening travel end} \\ 9=\text{C9} = \text{immediate closing at the travel end during opening with} \\ \text{obstacle waiting, during closing} \end{array}$	

Safety devices test

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

F5

Safety devices test

0 =Deactivated (Default)

1 = CX

2 = CY

3 = CX + CY

Hold-to-run

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

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

F6

Hold-to-run

0 = Deactivated (Default)

1 = Activated

Obstacle with motor stopped

With the function active, the boom remains stopped if the safety devices detect an obstacle. The function activates with: closed boom, open boom or after a complete stop.

F9

Obstacle with motor stopped

0 =Deactivated (Default)

1 = Activated

Open warning light

Barrier status warning. Device connected to the 10-5 output.

F10

Open warning light

0 = Warning light on (default) - The light stays on when the boom is moving or open.

1 = Warning light flashing - The warning light flashes every half a second when the boom is opening and remains on when the boom is open. The light flashes every second when the boom is closing, and remains off when the boom is closed.

Sensor type

Set the type of control device.

F14

Sensor type

0 = Transponder

1 = Keypad (Default)

Flashing rope light Choose how you wou

Choose how you would like the barrier status to be signalled using the rope light flash settings.

F15

Flashing rope light

0 = The rope light flashes when the boom is moving (Default).

1 = The rope light flashes when the boom is moving and when closed.

Light E1

Choose the type of device connected to the output.

F18

Light E1

0 =Flashing beacon (Default)

1 = Cycle light

This parameter does not appear if there [Automatic Close] function is deactivated.

2 = Courtesy light.

The lighting device remains on for the time set for the [Courtesy time] function.

Automatic closure

Set the time before automatic closure is activated, once the opening travel end point has been reached.

The function does not work if any of the safety devices are triggered when an obstacle is detected, after a complete stop, during a power outage or if there is an error.

F19

Automatic closure

0 =Deactivated (Default) From 1 to 180 seconds

Pre-flashing time

Set the time for which the beacon is activated before each manoeuvre.

F21

Pre-flashing time

0 =Deactivated (Default)

1 to 10 seconds

Operating time

Set the gearmotor working time during opening and closing.

F22

Operating time

5 to 120 seconds (default 20 seconds)

Courtesy time

Set the lighting device operation time.

F25

Courtesy time

60 to 180 seconds (Default 180 seconds)

Opening and closing speed

Set the opening and closing speed

For booms complete with accessories (swing rest and/or skirt), reduce the speed.

F28

Opening and closing speed

MIN = minimum speed (Default)

MED = average speed MAX = maximum speed

Slow-down speed

Set the slowdown speed.

F30

Slow-down speed

MIN = minimum slowdown speed (Default)

MED = average slowdown speed

 $\mathsf{MIN} = \mathsf{maximum} \; \mathsf{slowdown} \; \mathsf{speed}$

Calibration speed

Set the travel self-learning speed (percentage of maximum speed) and first manoeuvre speed

F33

Calibration speed

20% to 30%

Travel sensitivity

Adjust the obstruction detection sensitivity during boom travel.

F34

Travel sensitivity

10% to 100% (Default 100%) - 10% = maximum sensitivity - 100% = minimum sensitivity

Slowdown sensitivity

Adjust the obstacle-detection sensitivity level during slowdown.

F35

Slowdown sensitivity

10% to 100% (Default 98%) - 10% = maximum sensitivity - 100% = minimum sensitivity

RSE

Configure the function to be performed by the card inserted in the RSE1 connector.

F49

RSE 0 =Deactivated (Default)

1 = Paired

2 = Compass

3 = CRP/CAME KEY

Save data

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

F50

Save data

0 = Deactivated (Default)

1 = Activated

Read data

Upload user data, timings and configurations from the memory device (memory roll or USB key).

F51

Read data

0 = Deactivated (Default)

1 = Activated

Transferring MASTER-SLAVE parameters

Enable the sharing of parameters programmed on the Master barrier with the Slave barrier.

This only appears if the F49 function is set to Paired or Alternate.

F52

Transferring MASTER-SLAVE

0 =Deactivated (Default)

parameters 1 = Activated

CRP address

Assign a unique identification code (CRP address) to the control board. It is used where there are multiple operators connected via CRP.

F56 CRP address from 1 to 255

Sleep mode

This reduces the consumption of the photocells when they are in standby.

F60 Sleep mode 0 =Deactivated (Default) 1 = Activated

Pre-flashing

Choose the type of manoeuvre that activates the flashing beacon in advance.

Set how much earlier the flashing beacon is activated under the function [Pre-flashing time].

F61	Pre-flashing	0 = when opening and closing (Default)
		1 = only when closing
		2 = only when opening

RSE speed

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

F63	RSE speed	0 = 1200 bps 1 = 2400 bps 2 = 4800 bps	5 = 19200 bps 6 = 38400 bps (default) 7 = 57600 bps
		2 = 4000 bps 3 = 9600 bps 4 = 14400 bps	7 = 37600 bps 8 = 115200 bps

New user

Register a maximum of 25 users and assign a function to each one.

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

U1

New user

1 = Step-by-step3 = Open

4 = Partial opening

When the barrier is in [Paired] mode, the [Partial opening] command opens the Master barrier.

Choose the function to be assigned to the user.

Press ENTER to confirm.

You will be asked to enter your user code.

Send the code from the control device.

Repeat the procedure to add other users.

Remove user

Remove one of the registered users.

U2

Remove user

Use the arrows to choose the number associated with the user you want to remove.

No.: 1 > 25

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

Press ENTER to confirm.

Remove all

Remove all registered users.

U3

Remove all

0 =Deactivated (Default)

1 = Activated

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Radio	decoding	9
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Choose the type of radio coding for the transmitters enabled to control the operator.

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

U4

 $\begin{tabular}{ll} \mbox{Radio decoding} & 1 = \mbox{All (Default)} \\ 2 = \mbox{Rolling code} \\ 3 = \mbox{TW key block} \\ \end{tabular}$

Motor test

Check the boom opens in the correct direction.

If the keys do not execute the commands correctly, invert the boom opening direction.

A2

Motor test

The button > makes the motor turn in clockwise direction.

The button < makes the motor turn in an anticlockwise direction.

Parameter reset

Restore factory settings except for the functions: [Radio decoding], [Boom length] and the settings related to travel calibration.

A4

Parameter reset

0 = Deactivated (Default)

1 = Activated

Manoeuvre counter

View the number of manoeuvres performed by the operator (1 = 1000 manoeuvres).

A5

Manoeuvre counter

1 = 1000 maneuvers

FW version

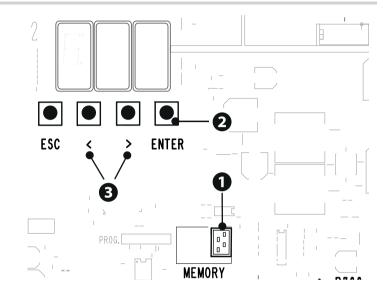
Display the firmware version number.

H1

FW version

Import/export data

- 1 Insert the MEMORY ROLL card into the corresponding connector on the control board.
- 2 Press the "Enter" button to access programming.
- 3 Use the arrows to choose the desired function.
- -F50 Save user data, timings and configurations to the memory device (memory roll or USB key).
- -F51 Upload user data, timings and configurations from the memory device (memory roll or USB key).
- The functions are displayed only when a MEMORY ROLL card is inserted.
- ⚠ Before inserting and removing the MEMORY ROLL card, DISCONNECT THE MAINS POWER SUPPLY TO THE LINE.
- Remove the MEMORY ROLL card after the data has been loaded.



PAIRED OPERATION

Two connected operators are controlled with one command.

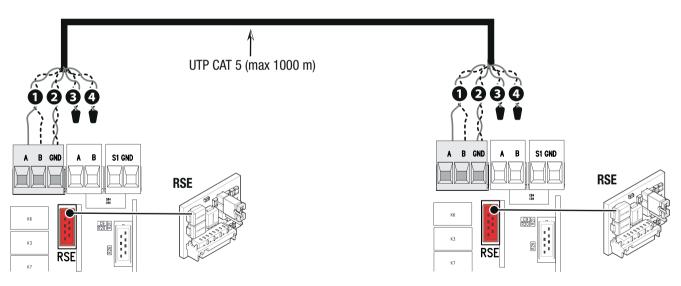
Electrical connections

Connect the two electronic boards with a UTP CAT 5 cable.

Fit an RSE card on both control boards using the RSE connector.

Connect up the electrics for the devices and accessories.

- For information on connecting the electrics for the devices and accessories, please see the "ELECTRICAL CONNECTIONS" section.
- The devices and accessories must be connected to the control board which will be set as the MASTER.
- Deactivate function F19 on the SLAVE operator control panel.



Programming

All programming operations described below must be performed only on the control board set as the MASTER.

Select function F49. Press ENTER to confirm. Select function F52. Select 1.

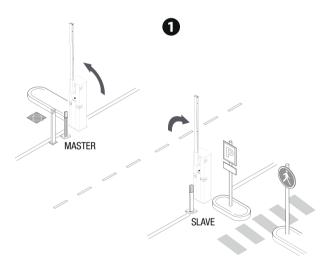
Select 1.

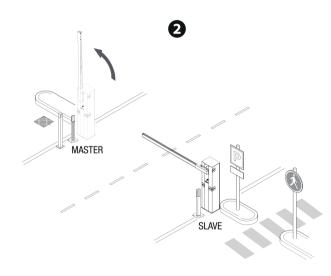
For user storage operations, see function U1.

Operating modes

STEP-BY-STEP or OPEN ONLY command

2 PARTIAL OPENING command (2-3P)





ALTERNATE OPERATION

The first barrier opens, the vehicle passes, the first barrier closes, the second barrier opens, the vehicle passes and the second barrier closes.

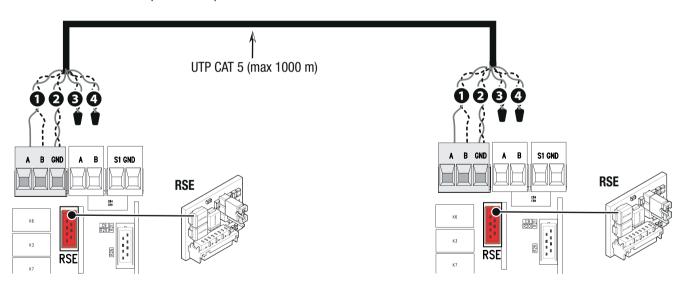
Electrical connections

Connect the two electronic boards with a UTP CAT 5 cable.

Fit an RSE card on both control boards using the RSE connector.

Connect up the electrics for the devices and accessories.

- For information on connecting the electrics for the devices and accessories, please see the "ELECTRICAL CONNECTIONS" section.
- The control and safety devices must be connected on both electronic boards.
- Deactivate function F19 on the SLAVE operator control panel.



Select function F49.

All programming operations described below must be performed only on the control board set as the MASTER.

Press ENTER to confirm.

Select function F52. Select 1.

Select 2.

For user storage operations, see function U1.

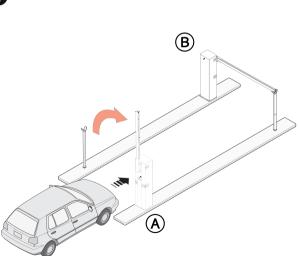
Operating modes

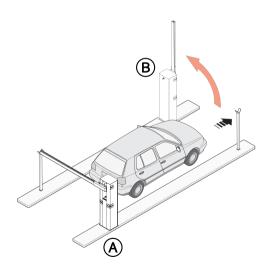
The MASTER barrier is marked A; the SLAVE barrier is marked B.

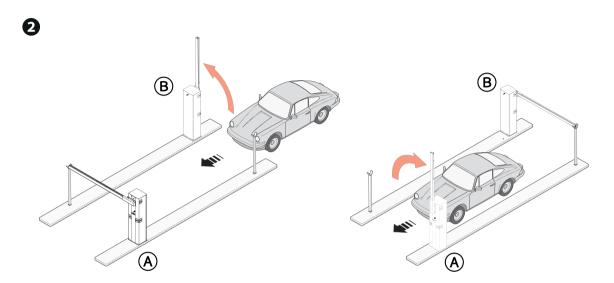
ONLY OPEN command (2-3) on barrier A

Barrier B opens automatically when barrier A closes.









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ERROR MESSAGES		
E4	Service test failure error	
E6	Maximum number of detected obstructions	
E7	Transformer overheating Release mechanism activated Open contact on thermal terminal	
E8	Both limit switches are open	
E15	Incompatible transmitter error	



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