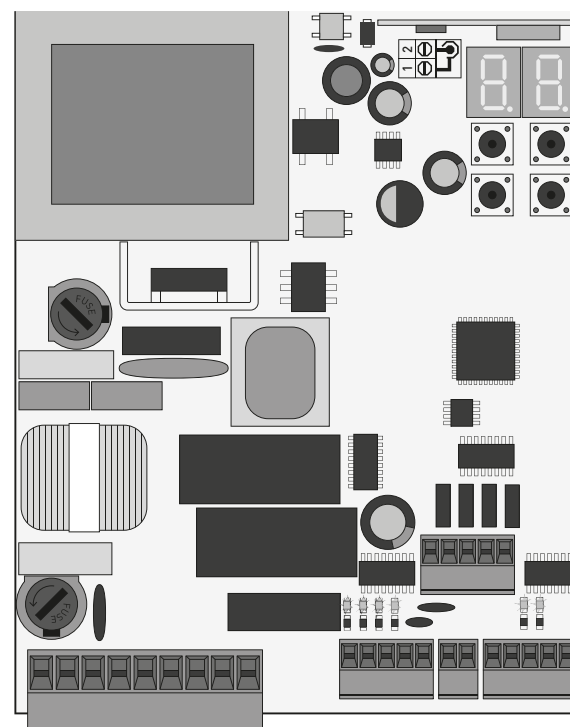
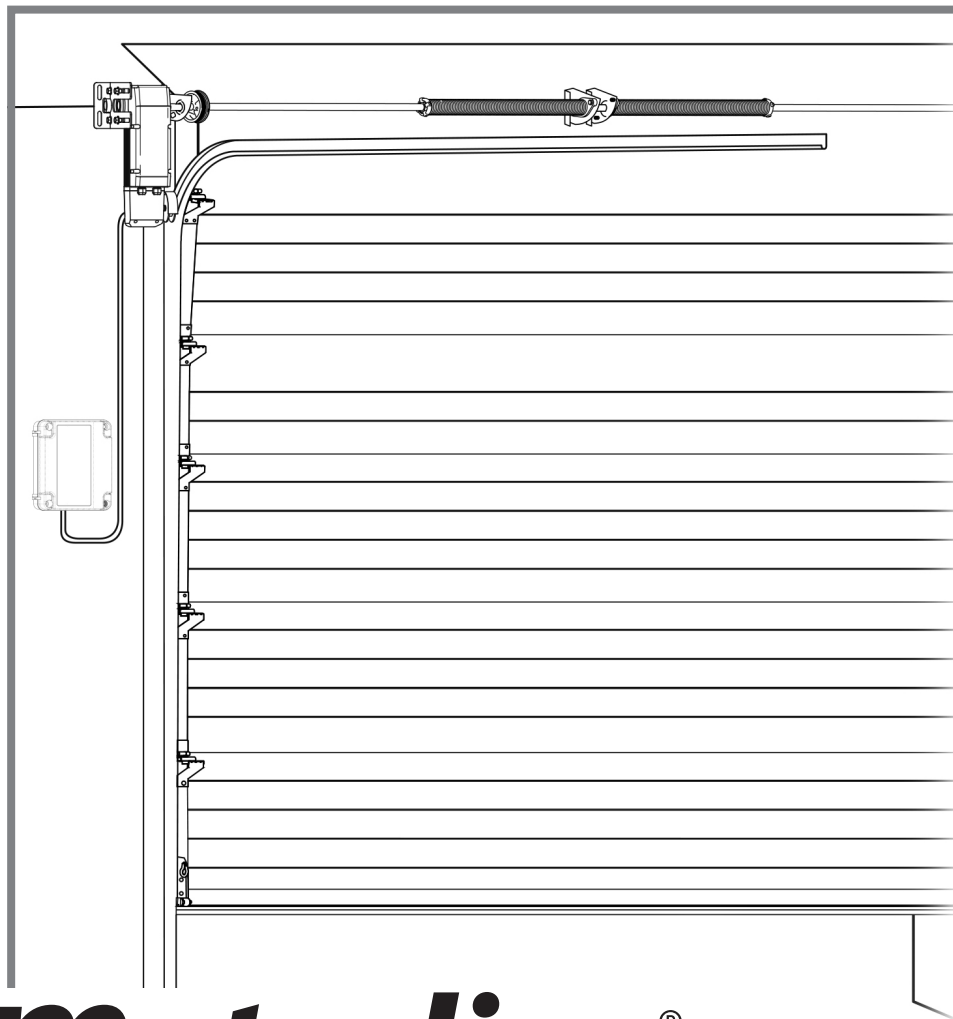




MC50SE

USER/INSTALLER MANUAL



01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW _____ 2A

02. THE CONTROL BOARD

TECHNICAL SPECIFICATIONS _____ 2B

PROGRAMMING PRE-RECOMENDATIONS _____ 3A

03. INSTALLATION

ESSENTIAL STEPS FOR INSTALLATION _____ 4A

TRANSMITTERS _____ 4B

"P" MENU FUNCTIONS _____ 5A

"E" MENU FUNCTIONS _____ 5B

04. PROGRAMMING (P)

P0-AUTOMATIC PROGRAMMING _____ 6A

P1-SETTING THE DECELERATION TIME _____ 6B

P2-SETTING STRENGTH AND SENSITIVITY _____ 7A

P4-PAUSE TIME _____ 7B

P5-PHOTOCELLS PROGRAMMING _____ 8A

P6-STOP _____ 8B

P7-OPERATING LOGIC _____ 9A

P8-FLASHING LIGHT _____ 9B

P9-DISTANCE PROGRAMMING _____ 10A

05. PROGRAMMING (E)

E0-PRESENT MAN _____ 10B

E1-SOFT START _____ 11A

E2-COURTESY LIGHT TIME _____ 11B

E3-FOLLOW ME _____ 12A

E6-DECELERATION SPEED _____ 12B

E7-MANEUVERS COUNTER _____ 13A

E8-RESET - RESTORE FACTORY VALUES _____ 13B

E9-RGB FLASHING LIGHT _____ 14A

06. DISPLAY

DISPLAY INDICATIONS _____ 14B

07. COMPONENTS TEST

TEST SCHEME _____ 15A

INPUTS TEST _____ 15B




08. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS/ TECHNICIANS _____ 16

09. CONNECTION SCHEME

CONTROL BOARD CONNECTIONS _____ 17

ATTENTION:

	This product is certified in accordance with European Community (EC) safety standards.
RoHS	This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
	(Applicable in countries with recycling systems). This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting from the uncontrolled disposal of waste, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Home users should contact the dealer where they purchased this product or the National Environment Agency for details on where and how they can take these items for environmentally safe recycling. Business users should contact their vendor and check the terms and conditions of the purchase agreement. This product and its electronic accessories should not be mixed with other commercial waste.
	This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

- It is important for your safety that these instructions are followed.
- Keep these instructions in a safe place for future reference.
- The **ELECTROCELOS S.A.** is not responsible for the improper use of the product, or other use than that for which it was designed.
- The **ELECTROCELOS S.A.** is not responsible if safety standards were not taken into account when installing the equipment, or for any deformation that may occur.
- The **ELECTROCELOS S.A.** is not responsible for insecurity and malfunction of the product when used with components that were not sold by the them.
- This product was designed and manufactured strictly for the use indicated in this manual.
- This control board is not appropriate for inflammable or explosive environments.
- Any other use not expressly indicated may damage the product and/or can cause physical and property damages, and will void the warranty.
- Do not make any changes to the automation components and/or their accessories.
- Control board for indoor use with 230V connection.
- Keep remote controls away from children, to prevent the automated system from being activated involuntarily.
- The customer shall not, under any circumstances, attempt to repair or tune the automatism. Must call qualified technician only.
- The installer must have certified professional knowledge at the level of mechanical assemblies in doors and gates and control board programming. He should also be able to perform electrical connections in compliance with all applicable regulations.
- The installer should inform the customer how to handle the product in an emergency and provide him the manual.

The **MC50SE** is a monophasic control board com a control system via incorporated rádio, developed for the automation of sectional door.

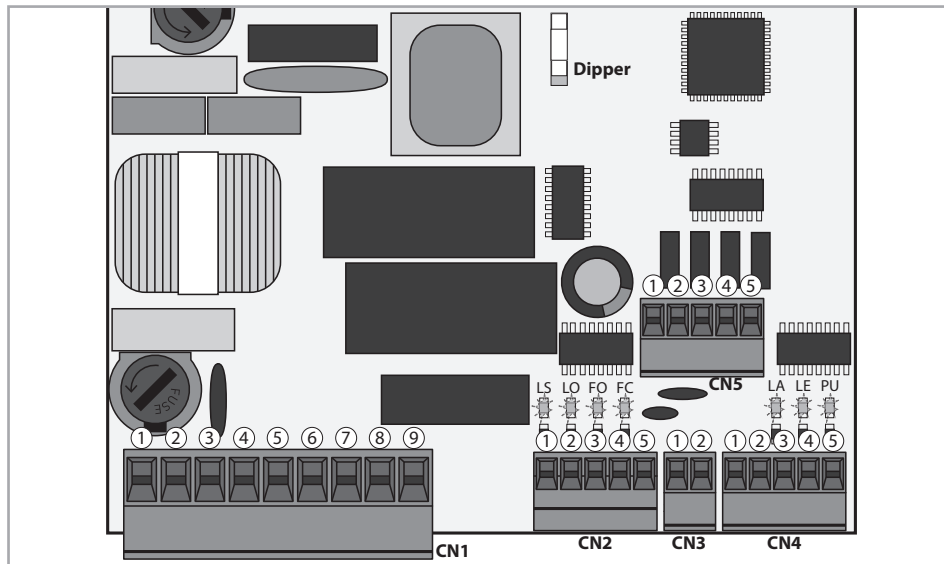
• Power supply	230V AC 50-60Hz
• Lightbulb's output	230V AC 50Hz 100W max.
• RGB Lightbulb's output	24V DC 100mA max.
• Motor's output	230V AC 50-60Hz 1000 W max.
• Auxiliary accessories output	24V DC 8 W max.
• Security and BT transmitters	24V DC
• Working temperature	-25°C to + 55°C
• Incorporated Radio Receptor	433,92 Mhz
• OP Transmitters	12bits or Rolling Code
• Maximum Memory Capacity	100 (full opening)
• Control board Dimensions	105x130 mm.

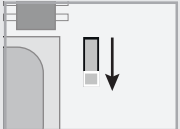
• CONNECTOR'S DESCRIPTION

CM1	01 • Grounding 02 • Grounding 03 • 230V Line Input (phase) 04 • 230V Line Input (neutral) 05 • 230V Motor's Output – Opening 06 • 230V Motor's Output – Common 07 • 230V Motor's Output - Closing 08 • AC 230V Lightbulb Output 09 • AC 230V Lightbulb Output
CM2	01 • Close Push Button input 02 • Open Push Button input 03 • Motor's opening limit-switch input (OPEN) 04 • Motor's closing limit-switch input (CLOSE) 05 • Common
CM3	01 • 24V DC 200mA max power supply 24V 02 • 24V DC 200mA max power supply (↓)

CN4	<ul style="list-style-type: none"> 01 • Safety Edge 02 • Photocells 03 • Encoder (not used) 04 • Encoder (not used) 05 • Common
CN5	<ul style="list-style-type: none"> 01 • +24V DC Auxiliary Power Supply for LED RGB flashing light 02 • Y output 03 • R output 04 • G output 05 • B output

To enhance knowledge about the control board operation, before proceeding to the setup, give special attention to the instructions that follow.



LEDS	<ul style="list-style-type: none"> LS • LED lit when the close push button is active LO • LED lit when the open push button is active FO • LED off when the opening limit switch is active FC • LED off when the closing limit switch is active ST • LED off when STOP is active (when P6 is active) LE • LED off when photocells are active (when P5 is active)
CN1	<p>Courtesy light or flashing light:</p> <p>08 and 09 • This output allows connection of a courtesy light or a flashing light (see P8 in page 9B).</p>
CN2	<p>Limit switches:</p> <p>03 and 04 • The control board needs a opening and closing limit-switches connection (both in NC). Triggering any limit-switch will make the immediate stoppage of the movement. The limit-switch triggering is visible on the display. OP (opening limit switch activated) and CL (opening limit switch activated). It is mandatory the use of limit switches.</p>
CN4	<p>Safety circuits:</p> <ul style="list-style-type: none"> 01 • This input allows connection of STOP device. The device could be activated or deactivated in the P6 menu (page 8B). 02 • This input allows connection of photocells. The device operates according to programming set in the P5 menu (page 8A) Shunt application is not necessary. 04 • It allows the connection of a pushbutton of singular button for up and down of the door.
CN5	<ul style="list-style-type: none"> 01 • Auxiliary output for flashing light or 24V DC LED. <p>Open collector for the management of auxiliary functions:</p> <ul style="list-style-type: none"> 02 • The y output is activated in the initial 2 seconds of the movement to control the second capacitor. 03 • The R output is activated in intermittent mode, only in closing phase. 04 • The G output is activated in intermittent mode, only in opening phase. 05 • The B output is activated in intermittent mode, only in pause time.
Dipper	<p>The dipper indicates the motor's power rating. Put the dipper in this position.</p> 



The installation process assumes that the gate has already limit switches plates installed. For more information consult the motor's manual.

01 • Make the connections of all the accessories according to the connection scheme (page 17).

02 • Connect the control board to a 230V power supply (3 and 4 - CN1 terminals).

03 • Make sure that the gate movement is the same as the one shown on the display:

		<p>If the display does not match the gate's movement, turn off the control board from the power supply e swap the 5 and 7 wires from CN1 and check if it is correct with 3 and 4 from CN2.</p>
CLOSING	OPENING	

04 • Check is the limit switches, so that the FC LED turns off during the closure and the LED FO turns off during the opening.

05 • Make an automatic programming - **P0** menu (page 6A).

06 • If necessary, adjust the gate of the deceleration time in opening and closing - **P1** menu (page 6B).

07 • Adjust the strength and sensitivity of the motor - **P2** menu (page 7A).

08 • Make an automatic programming of the course again - **P0** menu (page 6A).

09 • Enable or disable the use of photocells in the **P5** menu (page 8A).

10 • Enable or disable the use of safety band in the **P6** menu (página 8B).

11 • Program a transmitter (page 4B).

The control board is now fully configured!

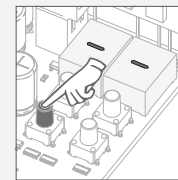
Check the menus from the programming pages in case you wish to configure other features of the plant.

SU Transmitter programming for total opening.

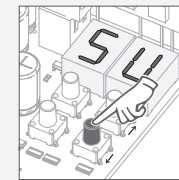
• PROGRAMMING TRANSMITTERS



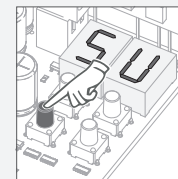
To program transmitters, you must close the gate or turn the power OFF and ON again.



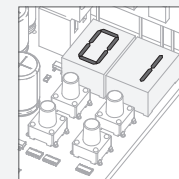
01 • Press the cmd button for 3sec.



02 • SU appears.



03 • Press cmd once to confirm.

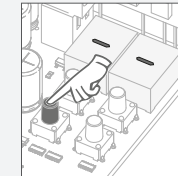


04 • The first free position appears.

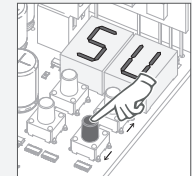


05 • Press the command button you want to program. The display will blink and move to the next free location.

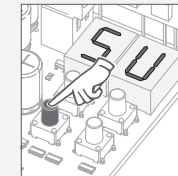
• ERASE TRANSMITTERS



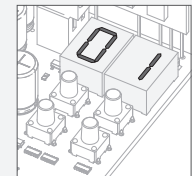
01 • Press the cmd button for 3sec.



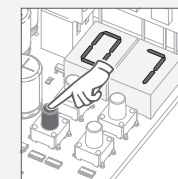
02 • SU appears.



03 • Press cmd once to confirm.



04 • Use ↑ ↓ to select the transmitter location you want to delete.



05 • Press cmd for 3sec. and the position is empty. The display will flash and the position will be available.

• ERASE ALL THE TRANSMITTERS



01 • Press the cmd button for 10sec.

02 • The display will show dL, confirming that all transmitters have been erased.

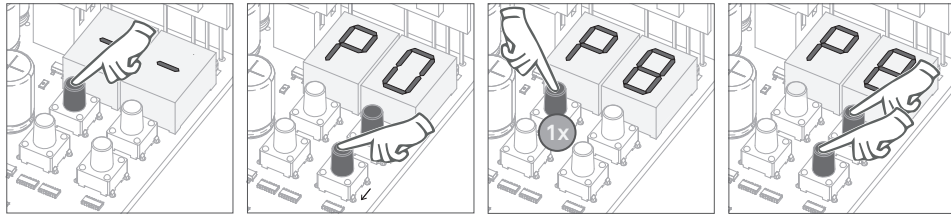


• Whenever you store or delete a command, the display will flash and show the next position. You can add or delete commands without having to go back to point 01.



• If you do not press any key for 10 sec. the control board will return to standby.

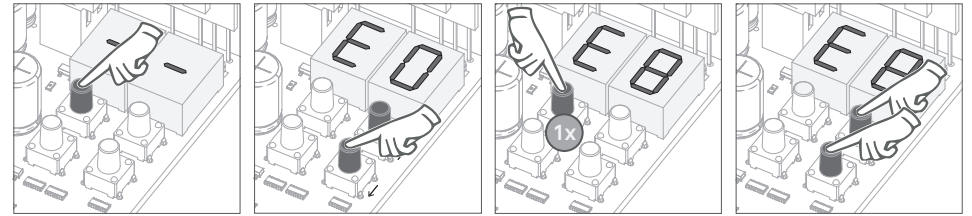
• We can only go into programming with a electrically closed gate.



- To access the P menu press the MENU key for 3sec.
- Use ↑↓ to navigate through the menus.
- Press MENU when you want to confirm access to a menu.
- Press ↑↓ simultaneously to exit programming.

MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE	FACTORY VALUE	PAGE
P0	Course automatic programming	-	PR Automatic Programming	-	6A
P1	Deceleration time adjustment	min. 0s max. 15s	dR Opening deceleration dF Closing deceleration	03	6B
P2	Force and sensibility adjustment	min. 1 max. 9	FS Sensibility adjustment	05	7A
P3	DISABLE MENU				
P4	Pause time	min. 1s max. 99s	RF Total closure pause time adjustment	10 sec	7B
P5	Photocells programming	-	HE 00 photocells Disabled 01 photocells Activated HC 00 Photocells in closing 01 Photocells in opening	00 00	8A
P6	STOP	-	HE 00 Security Band Disabled 01 Security Band Activated	01	8B
P7	OperatiNG logic	-	00 Automatic mode function 01 Step by step mode function 02 Mode condominium function	00	9A
P8	Flashing light	-	00 Flashing (opening and closing) 01 Step by step mode function 02 Courtesy light	00	9B
P9	Distance programming	-	00 Distance PGM OFF 01 Distance PGM ON	00	10A

• We can only go into programming with a electrically closed gate.




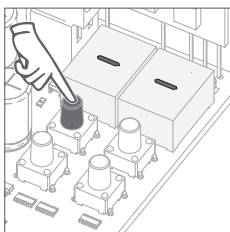
- To access the E menu press the MENU key for 10sec.
- Use ↑↓ to navigate through the menus.
- Press MENU when you want to confirm access to a menu.
- Press ↑↓ simultaneously to exit programming.

MENU	FUNCTION	MÁX. MIN. PROGRAMMABLE	STATE	FACTORY VALUE	PAGE
E0	Present Man	-	00 Deactivates present man HP 01 Activates present man 02 Activates present man - closing	00	10B
E1	Soft start	-	00 Deactivates Soft start 01 Activates Soft start	01	11A
E2	Courtesy light time	min. 0 max. 99	Courtesy light time adjustment	00	11B
E3	Follow me	-	00 Deactivates follow me 01 Activates follow me	00	12A
E5	DISABLE MENU				
E6	Deceleration speed	min. 1 max. 9	Deceleration speed adjustment	06	12B
E7	Operation counter	-	Shows the number of maneuvers	-	13A
E8	Reset - Restore factory settings	-	00 Deactivated 01 Reset activated	00	13B
E9	RGB Output	-	00 Continued output 01 Intermittent output	01	14A
TRANSMITTER					
SU	Transmitter programming for total opening.				4B

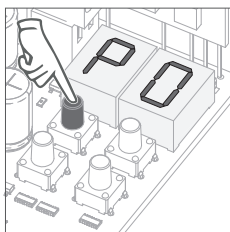
This menu allows you to set the motor's working time.
During the automatic programming, the motor performs the following maneuvers:

- 1º if it is open, closes with deceleration
- 2º opens normally
- 3º closes normally

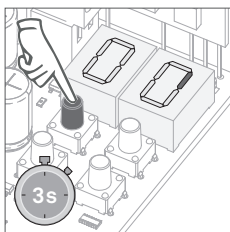
 To carry out this programming is necessary that the limit switches are duly installed.



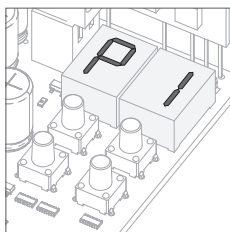
01 • Press MENU for 3 seconds.



02 • P0 appears. Press MENU for 3 seconds.



03 • Appears a circular motion on the display indicating that the automatic setting is in progress.



04 • When P1 appears, the automatic programming is over. If you want to program P1, continue in step 03 from P1 menu (page 6B). To exit the programming press ↑ ↓ simultaneously.

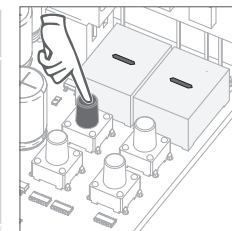
dA

Opening deceleration
It allows to define the slowdown time in the opening phase.

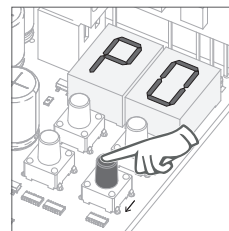
dF

Closing deceleration
It allows defining the slowdown time in the closing phase.

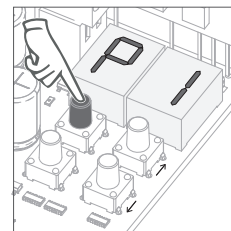
min. 0s max. 15s
(factory default 3)



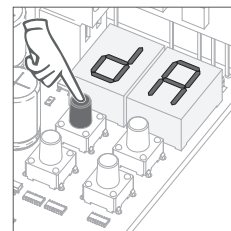
01 • Press MENU for 3 seconds.



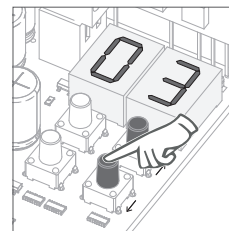
02 • P0 appears. Press ↓ once.



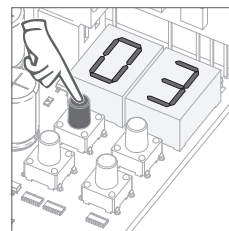
03 • P1 appears. Press MENU for 3 seconds.



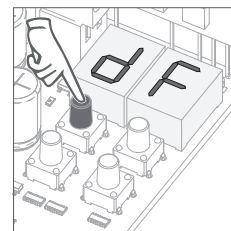
04 • dA appears. Press MENU for 3 seconds.



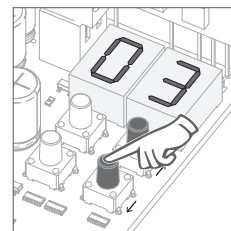
05 • Appears the time set from factory. If you want, change time between 1 and 15 sec., using ↑ ↓.



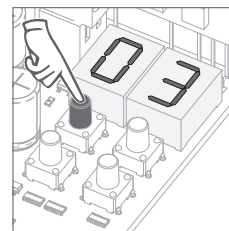
06 • Press MENU for 3 seconds, to save the chosen time.



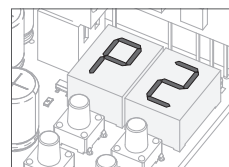
07 • dF appears. Press MENU for 3 seconds.



08 • Appears the time set from factory. If you want, change time between 1 and 15 sec., using ↑ ↓.



09 • Press MENU to save the chosen time.



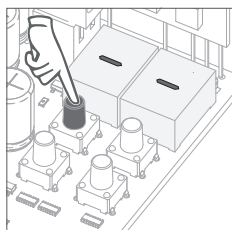
10 • P2 appears. To program P2, continue in step 3 from P2 menu (page 7A). To exit the programming press ↑ ↓ simultaneously.

If the control board has very high sensitivity values, you may see the **LI** error.
After four attempts, the **LI** error will turn **ER**.
You will have to wait 10 sec. to return to program the automatism.

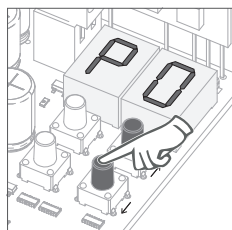
FS

Sensitivity adjustment

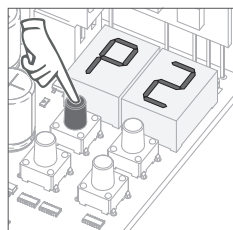
It allows you to adjust the engine sensitivity in detecting obstacles. The higher the sensitivity the less effort is needed to detect any obstacle and reverse the direction.



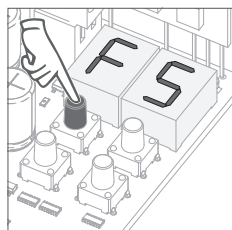
01 • Press **MENU** for 3 seconds.



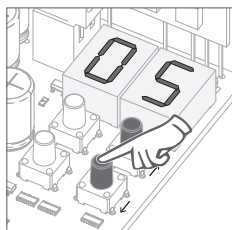
02 • P0 appears. Press ↓ twice.



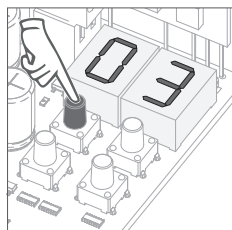
03 • P2 appears. Press **MENU** for 3 seconds.



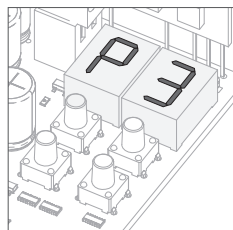
04 • FS appears. Press **MENU** for 3 seconds.



05 • Appears the value defined from factory. If you want, change the value from 1 to 9 using ↑↓.



06 • Press **MENU** for 3 seconds, to save the defined value.



07 • P3 appears (disable menu). To program P4, continue in step 3 from P4 menu (page 7B). To exit the programming press ↑↓ simultaneously.



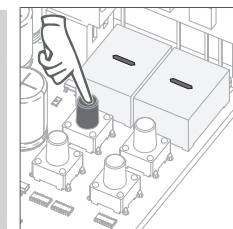
P3 MENU DISABLE.

AF

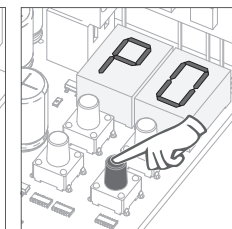
Pause time adjustment of the total closure
Allows you to set the time that the gate will remain open.



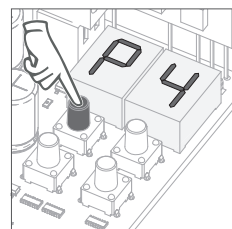
When the values are zero, the automatic closing ceases to exist



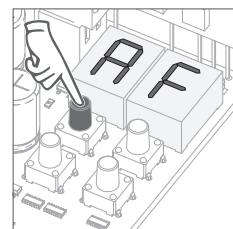
01 • Press **MENU** for 3 seconds.



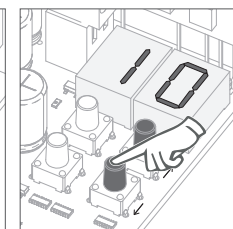
02 • P0 appears. Press ↓ four times.



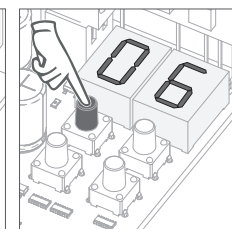
03 • P4 appears. Press **MENU** for 3 seconds.



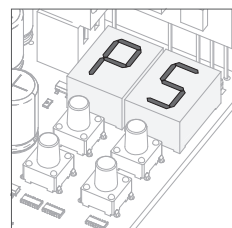
04 • AF appears. Press **MENU** for 3 seconds.



05 • Appears the time set from factory. If you want, change time between 1 and 99 sec., using ↑↓.



06 • Press **MENU** for 3 seconds to save the defined time.



07 • P5 appears. To program P5, continue in step 3 from P5 menu (page 8A). To exit the programming press ↑↓ simultaneously.

HE

00 (disables photocells)
01 (ables photocells)

With the photocells activated, when someone interrupts them, the gate reverses the direction set in HC.

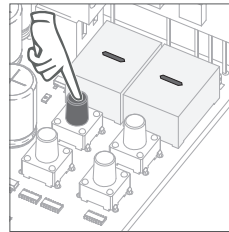
(factory default 00)

HC

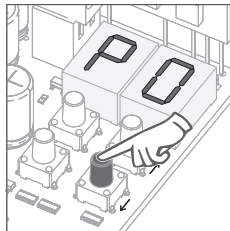
00 (photocells during the closing)
01 (photocells during the opening)

This menu can only be changed when the HE menu is active.
00 - photocell only intervenes during closure and reverses in full
01 - photocell only intervenes in opening and reverses for 2 sec.

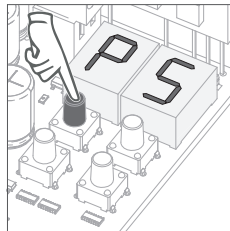
(factory default 00)



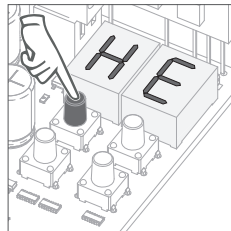
01 • Press MENU for 3 seconds.



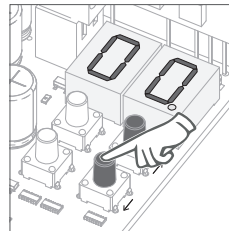
02 • P0 appears. Press ↓ five times.



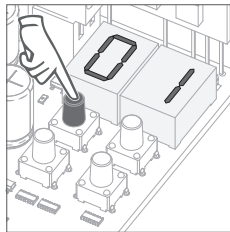
03 • P5 appears. Press MENU for 3 seconds.



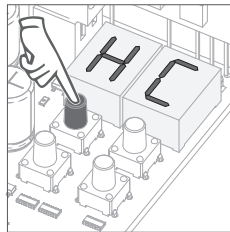
04 • HE appears. Press MENU for 3 seconds.



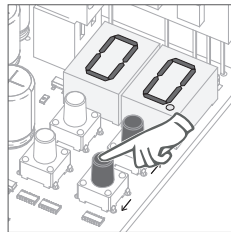
05 • Appears the function set from factory. If you want, change the it between 00 and 01 using ↑↓.



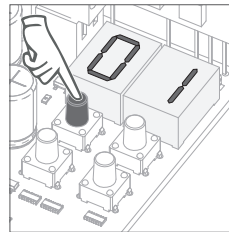
06 • Press MENU for 3 seconds to confirm the defined function.



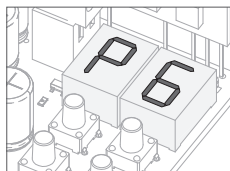
07 • HC appears. Press MENU for 3 seconds.



08 • Appears the function set from factory. If you want, change the it between 00 and 01 using ↑↓.



09 • Press MENU for 3 seconds to confirm the defined function.



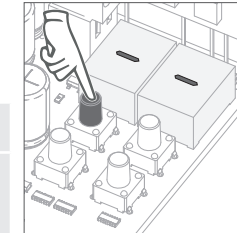
10 • P6 appears. To program P6, continue in step 3 from P6 menu (page 8B). To exit the programming press ↑↓ simultaneously.

HE

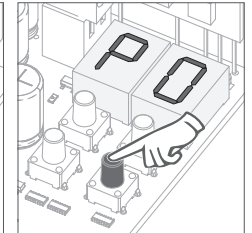
00 (disables STOP)
01 (ables STOP)

The menu allows you to enable/disable its operation.

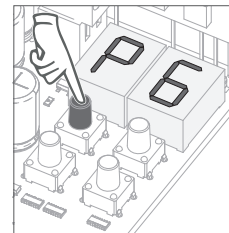
(factory default 01)



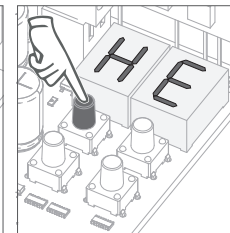
01 • Press MENU for 3 seconds.



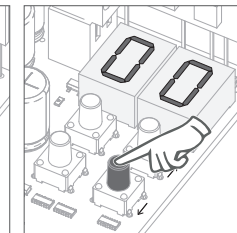
02 • P0 appears. Press ↓ six times.



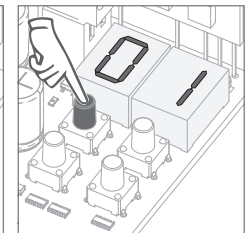
03 • P6 appears. Press MENU for 3 seconds.



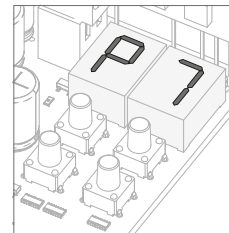
04 • HE appears. Press MENU for 3 seconds.



05 • Appears the function set from factory. If you want, change the it between 00 and 01 using ↑↓.



06 • Press MENU for 3 seconds to confirm the defined function.



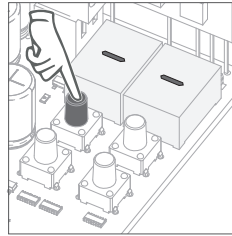
06 • P7 appears. To program P7, continue in step 3 from P7 menu (page 9A). To exit the programming press ↑↓ simultaneously.

04. PROGRAMMING "P"

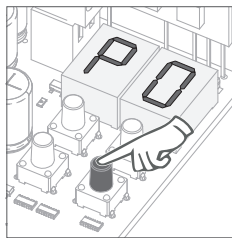
P7 OPERATING LOGIC

00	01	02
Functioning in automatic mode 1st impulse - OPENS 2nd impulse - STOPS, TIMER AND CLOSES (IF P4>00) 3rd impulse - INVERTS	Functioning in step by step mode 1st impulse - OPENS 2nd impulse - STOPS 3rd impulse - CLOSES 4th impulse - STOPS If is fully open and timed, the gate closes	Functioning in condominium mode Does not accept orders during opening and pause time, in closure it reverses (either by transmitter or control board start button)
factory default (00)	factory default (00)	factory default (00)

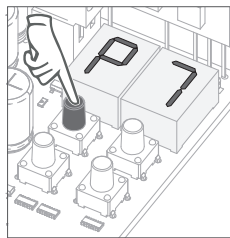
This menu allows you to set the gate's operating mode.



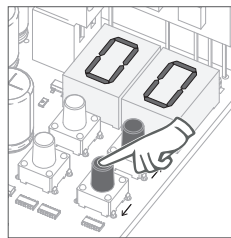
01 • Press MENU for 3 seconds.



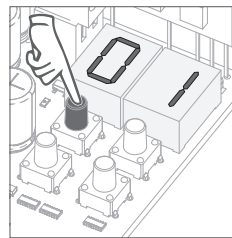
02 • P0 appears. Press ↓ seven times.



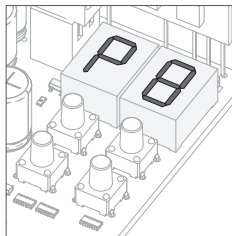
03 • P7 appears. Press MENU for 3 seconds.



04 • Appears the function currently set. If you want, change the function to 00, 01 or 02, using ↑↓.



05 • Press MENU to save the defined function.

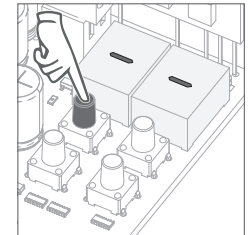


06 • P8 appears. To program P8, continue in step 3 from P8 menu (page 9B). To exit the programming press ↑↓ simultaneously.

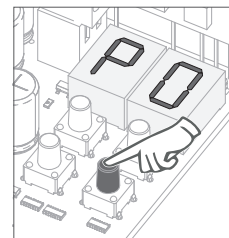
04. PROGRAMMING "P"

P8 FLASHING LIGHT

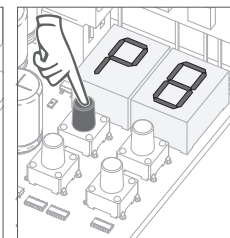
00	01	02
Intermittent (opening and closing) During the gate's opening/closing movement, the flashing light will work intermittently.	During movement of the gate (opening and closing), the flashing light will remain lit.	Courtesy light During operation it converts the firefly output into courtesy light according to the time defined in E2. (p.11B).
Factory default (00)		



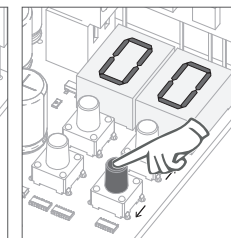
01 • Press MENU for 3 seconds.



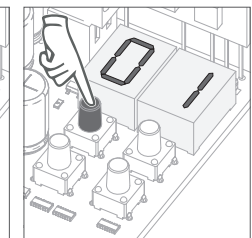
02 • P0 appears. Press ↓ eight times.



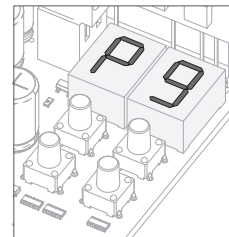
03 • P8 appears. Press MENU for 3 seconds.



04 • Appears the function currently set. If you want, change the function to 00, 01 or 02, using ↑↓.



05 • Press MENU to save the defined function.



06 • P9 appears. To program P9, continue in step 3 from P9 menu (page 10A). To exit the programming press ↑↓ simultaneously.

04. PROGRAMMING "P"

P9 DISTANCE PROGRAMMING

00

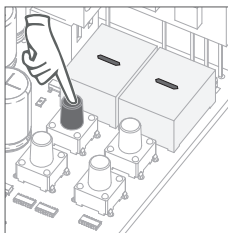
distance PGM OFF

01

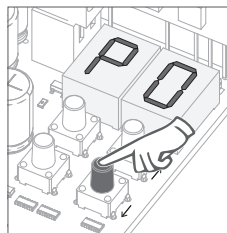
distance PGM ON

This menu allows you to enable or disable the new transmitters programming without access directly to the control board by using a previously stored transmitter (memorize transmitters page 4B).

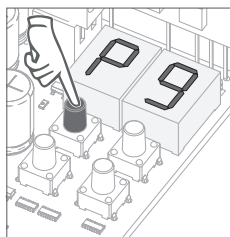
Factory default (00)



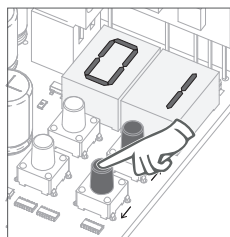
01 • Press MENU for 3 seconds.



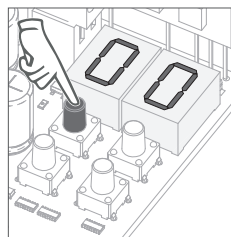
02 • P0 appears. Press ↓ nine times.



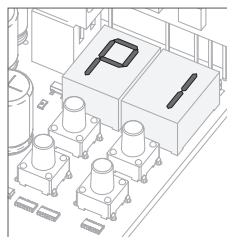
03 • P9 appears. Press MENU for 3 seconds.



04 • Appears the function currently set. If you want, change the function to 00 or 01, using ↑ ↓.



05 • Press MENU to save the defined function.



06 • P1 appears. To exit the programming press ↑ ↓ simultaneously.

Distance programming operation (PGM ON):



- Press the keys indicated in the picture at the same time for 10 seconds and the flashing light will start to flash (the display shows the 1st free position).

Whenever you memorize a transmitter, the control board will leave the distance programming mode. If you want to program more transmitters, you will need to repeat the process of pressing simultaneously the transmitter buttons for 10 seconds for each new transmitter.

05. PROGRAMMING "E"

E0 SOFT START

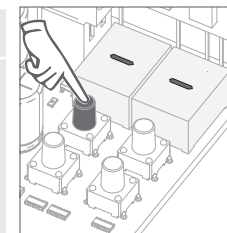
HP

02 (activates present man at the closing)
The present man is active only in closing.

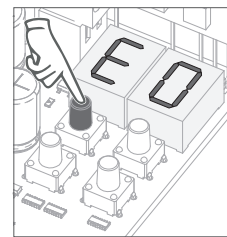
01 (activates present man)
The motor only works if you hold down the pushbutton LS or LO.

00 (deactivates present man)
Whenever an order is sent to the LS and LO the motor performs a complete maneuver.

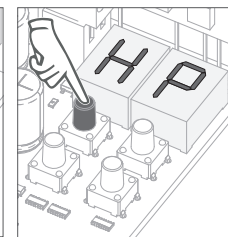
(Factory default 00)



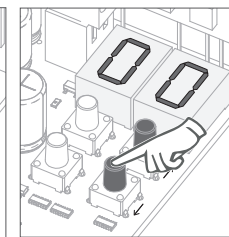
01 • Press MENU for 10 seconds.



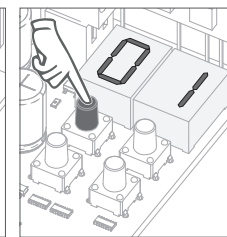
02 • E0 appears. Press MENU for 3 seconds.



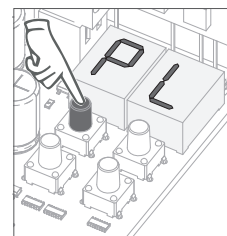
03 • HP appears. Press MENU for 3 seconds.



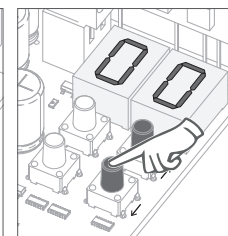
04 • Appears the function currently set. If you want, change the function to 00 or 01, using ↑ ↓.



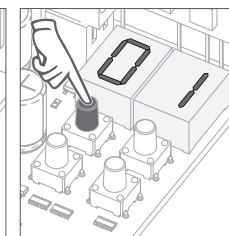
05 • Press MENU for 3 seconds to confirm the defined time.



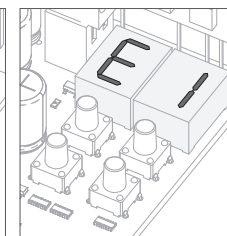
06 • PL appears. Press MENU for 3 seconds.



07 • Appears the function currently set. If you want, change the function to 00 or 01, using ↑ ↓.



08 • Press MENU for 3 seconds to confirm the defined function.

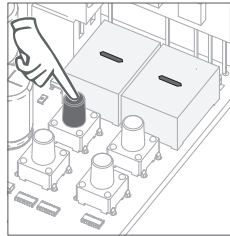


09 • E1 appears. To program E1, continue in step 3 from E1 menu (page 11A). To exit the programming press ↑ ↓ simultaneously.

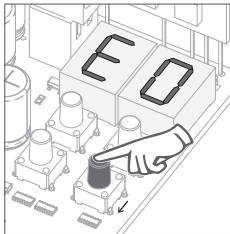
**00 disabled function
01 enabled function**

This menu allows you to enable/disable soft start. With soft start function enabled, at each motion beginning, the control board will manage the start of the motor, gradually increasing in the first second of working.

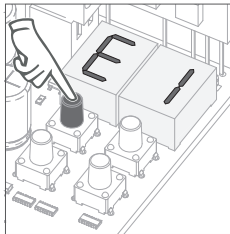
(Factory default 01)



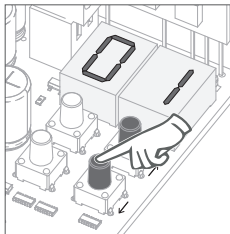
01 • Press MENU for 10 seconds.



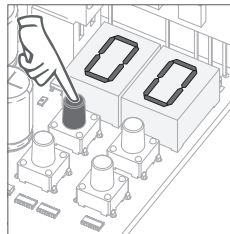
02 • E0 appears. Press ↓ once.



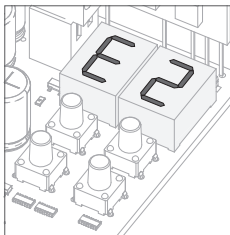
03 • E1 appears. Press MENU for 3 seconds.



04 • Appears the function currently set. If you want, change the function to 00 or 01, using ↑ ↓.



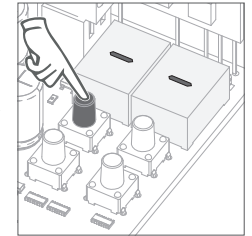
05 • Press MENU to save the defined function.



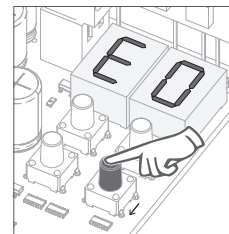
06 • E2 appears. To program E2, continue in step 3 from E2 menu (page 11B). To exit the programming press ↑ ↓ simultaneously.

This menu allows you to define the time (from 1 to 99 minutes) that the courtesy light stays on after the gate has completed an opening or closing operation. This menu is only available if the Courtesy Light function is active in the P8 menu (see page 9B)

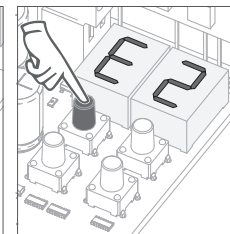
(Factory default 01)



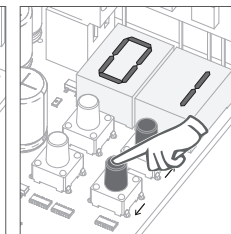
01 • Press MENU for 10 seconds.



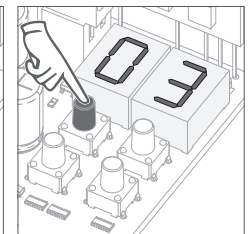
02 • E0 appears. Press ↓ twice.



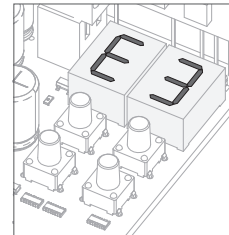
03 • E2 appears. Press MENU for 3 seconds.



04 • Appears the time set from factory. If you want, change time between 1 and 99 sec., using ↑ ↓.



05 • Press MENU to save the defined time.



06 • E3 appears. To program E3, continue in step 3 from E3 menu (page 12A). To exit the programming press ↑ ↓ simultaneously.

05. PROGRAMMING "E"

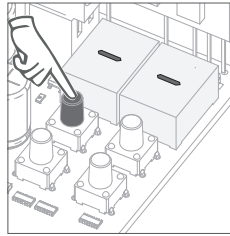
E3 FOLLOW ME

00 disabled function
01 enabled function

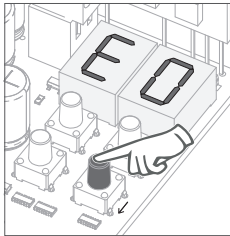
This menu allows you to activate the option Follow me. With this function activated whenever the photocells detect the passage of a user/obstacle, the control board triggers the closing operation after 3 seconds.

To activate Follow me function, P5 have to be set with:
HE = 01 (see page 9A)

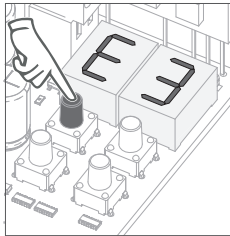
(Factory default 01)



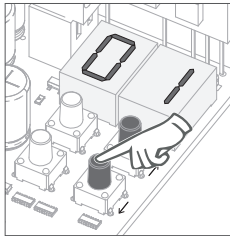
01 • Press MENU for 10 seconds.



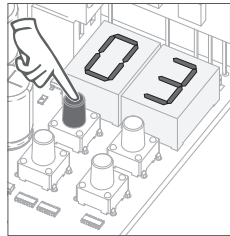
02 • E0 appears. Press ↓ three times.



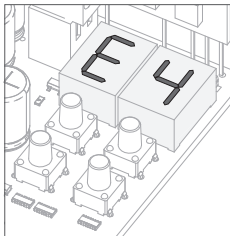
03 • E3 appears. Press MENU for 3 seconds.



04 • Appears the function currently set. If you want, change the function to 00 or 01, using ↑ ↓.



05 • Press MENU to save the defined function.



06 • The E4 and E5 menus are inactive. To program E6, continue in step 3 from E6 menu (page 12B). To exit the programming press ↑ ↓ simultaneously.



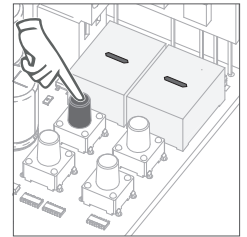
E4 MENU DISABLE.
E5 MENU DISABLE.

05. PROGRAMAR "E"

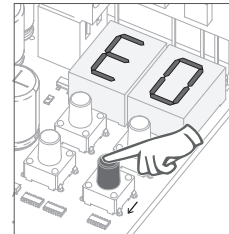
E6 DECELERATION SPEED

This menu lets you set the deceleration speed in opening and closing. The higher the level, the faster is the deceleration.

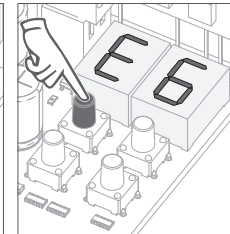
min. **1** max. **9**
(Factory default **06**)



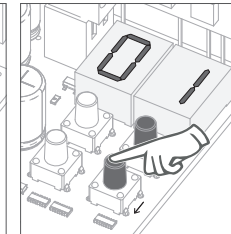
01 • Press MENU for 10 seconds.



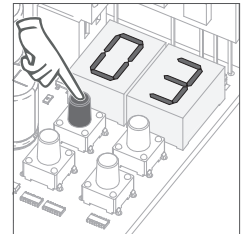
02 • E0 appears. Press ↓ six times.



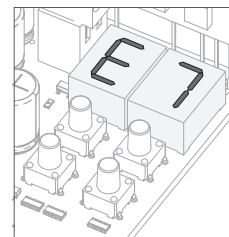
03 • E6 appears. Press MENU for 3 seconds.



04 • Appears the value currently set. If you want, change the function to 01 or 09, using ↑ ↓.



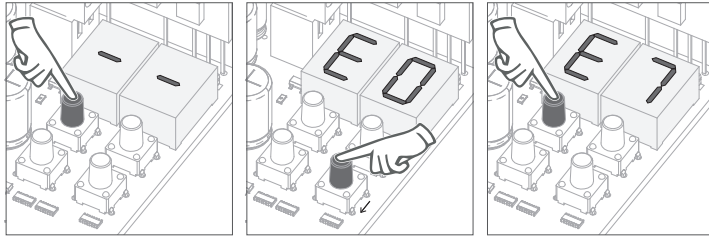
05 • Press MENU to save the defined value.



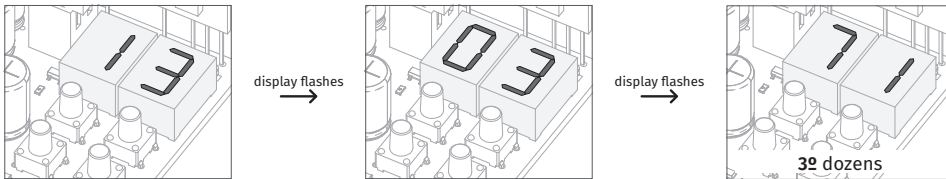
06 • E7 appears. To program E7, continue in step 3 from E7 menu (page 13A). To exit the programming press ↑ ↓ simultaneously.

This menu allows you to check how many complete maneuvers were performed by the control board (complete maneuver it is understood by opening and closing).
 ⚠ The control board reset does not erase the maneuvers count.

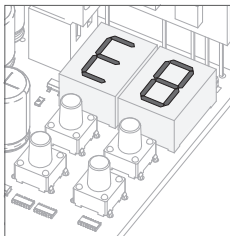
Example: 13456 maneuvers
 01- Hundreds of thousands / 34- Thousands / 56- Dozens



01 • Press MENU for 10 seconds.
02 • E0 appears. Press ↓ six times.
03 • Press MENU for 3 seconds.

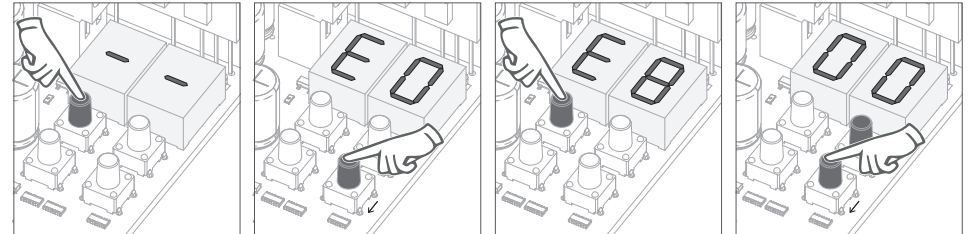


04 • Appears the maneuvers counting in the following order (example 130 371):

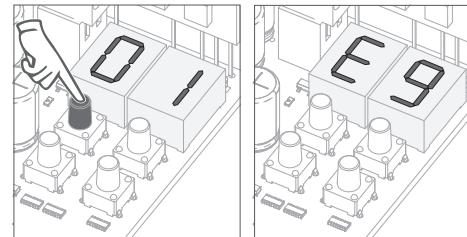


06 • E8 appears.
 To program E8, continue in step 3 from E8 menu (page 13B).
 To exit the programming press ↑ ↓ simultaneously.

By doing reset, all factory settings will be restored and all saved commands will be deleted.
 Only the maneuvers counter will have the data memorised.



01 • Press MENU for 10 seconds.
02 • E0 appears. Press ↓ eight times.
03 • E8 appears. Press MENU for 3 seconds.
04 • Appears the function currently set. If you want to reset, change the function to 01, using ↑ ↓.



05 • Press MENU for 3 seconds to reset.
06 • E9 appears. To program E9, continue in step 3 from E9 menu (page 14A). To exit the programming press ↑ ↓ simultaneously.

05. PROGRAMMING "E"

E9 RGB OUTPUT

00

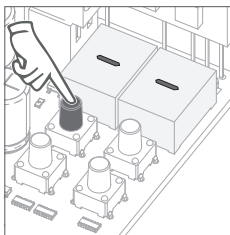
Continuous light

01

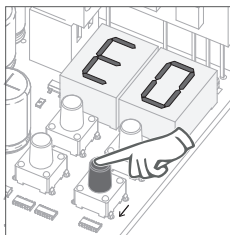
Flashing light

(factory default 01)

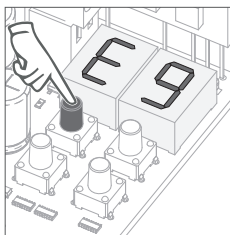
This menu allows you to select the functioning mode of the four signs, fixed or intermittent output. page 10A)



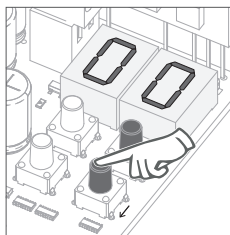
01 • Press MENU for 10 seconds.



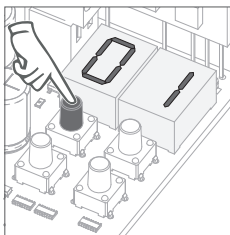
02 • E0 appears. Press ↓ nine times.



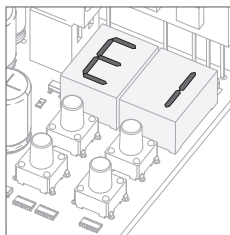
03 • E9 appears. Press MENU for 3 seconds.



04 • Appears the function currently set. If you want, change the function to 00 or 01, using ↑ ↓.



05 • Press MENU for 3 seconds to save the defined function.



06 • E1 appears. To exit the programming press ↑ ↓ simultaneously.

06. DISPLAY

DISPLAY INDICATIONS

MENU	DESCRIPTION	MENU	DESCRIPTION
0P	Opening limit-switch enabled	01	Inversion by effort
0U	Closing limit-switch enabled	0E	Obstructed photocells
0F	In pause time	0S	Stop button being pressed
0P	In pedestrian pause time	05	close button being pressed
0U	Memory full	00	Open button being pressed
0F	Opening and closing limit-switches enabled	0A	Sensibility detection failure

To detect which components have problems during a sectional door installation, sometimes it's necessary to conduct tests with a direct connection to a 230V power supply.

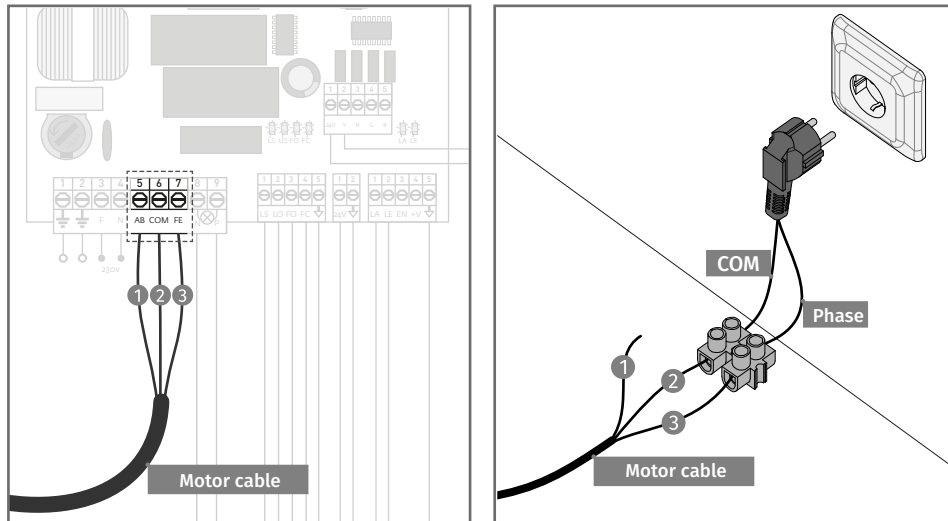
In the below diagram is shown how this connection must be made and how to merge the different component wires.

NOTES:

- To perform the tests you don't need to remove the automatism from its place, because this way you can understand if the automatism, directly connected to the power, can function correctly.
- The common wire of the motor must always be connected to the power supply;
- To reverse the automatism functioning direction, switch the Black wire with the Brown wire of the automatism.



For your safety, do not change the connections without it being disconnected from the electric current.



01 • Remove the 3 wires from the motor in the control board.

02 • Connect the motor wires to a terminal. Add a plug to the terminal, taking into account that the wires order indicated in the image must be respected.



All tests must be performed by skilled technicians due to serious danger associated with the misuse of electrical systems!

In the position corresponding to each transmitter input in low voltage, the control board has a LED to identify the condition of it. The LED on indicates that the input is closed, while the LED off indicates that the input is open.

Anomaly	Procedure	Behavior	Procedure II	Discovering the origin of the problem			
• Motor doesn't work	• Make sure you have 230V power supply connected to control board and if it is working properly	• Still not working.	• Consult a qualified MOTORLINE technician.	1 • Open control box and check if it has 230V power supply; 2 • Check input fuses;	3 • Disconnect gate from control board and test them by connecting directly to power supply in order to find out if they have problems (see page 15A).	4 • If the gate works, the problem is on the control board. Pull it out and send it to our MOTORLINE technical services for diagnosis;	5 • If the gate doesn't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
• Motor doesn't move but makes noise	• Unlock motor and move the gate by hand to check for mechanical problems on the movement	• Encountered problems?	• Consult a qualified gates technician.	1 • Check motion axis and associated motion systems related with the motor and the gate to find out what is the problem.			
		• The gate moves easily?	• Consult a qualified MOTORLINE technician.	1 • Check capacitors, testing operator with new capacitor;	2 • If capacitors are not the problem, disconnect motor from control board and it them by connecting directly to power supply in order to find out if it has problems (see page 15A).	3 • If the motor works, the problem is from control board. Pull it out and send it to our MOTORLINE technical services for diagnosis;	4 • If the motor doesn't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
• Gate doesn't make complete route	• Unlock motor and move the gate by hand to closed position. Lock motor again and turn of power supply for 5 seconds. Reconnect it and send order to open gate using transmitter.	• Gate opened but didn't close again.	1 • Check if there is any obstacle in front of the photocells; 2 • Check if any of the control devices (key selector, push button, video intercom, etc.) of the gate are jammed and sending permanent signal to control unit; 3 • Consult a qualified MOTORLINE technician.	All MOTORLINE control boards have LEDs that easily allow to conclude which devices are with anomalies. All safety devices LEDs (LA and LE) in normal situations remain On. All "START" circuits LEDs in normal situations remain Off. If LEDs devices are not all On, there is some security systems malfunction (photocells, safety edges), etc. If "START" circuits LEDs are turn On, there is a control device sending permanent signal.	A) SECURITY SYSTEMS: 1 • Close with a shunt all safety systems on the control board (check manual of the control board in question). If the automated system starts working normally check for the problematic device. 2 • Remove one shunt at a time until you find the malfunction device . 3 • Replace it for a functional device and check if the motor works correctly with all the other devices. If you find another one defective, follow the same steps until you find all the problems.	B) START SYSTEMS: 1 • Disconnect all wires from LS and LO terminal input (terminal 3 of CN3 connector). 2 • If the LED turned Off, try reconnecting one device at a time until you find the defective device. NOTE: In case procedures described in sections A) and B) don't result, remove control board and send to our technical services for diagnosis.	
• Motor opens but doesn't close	• Unlock motor and move gate by hand to check for mechanical problems on the gate.	• Encountered problems?	• Consult a qualified gates technician.	1 • Check all motion axis and associated motion systems related with the gate to find out what is the problem.			
		• The gate moves easily?	• Consult a qualified MOTORLINE technician.	1 • Check capacitors, testing with new capacitors; 2 • If capacitors are not the problem, disconnect motor from control board and test it by connecting directly to power supply in order to find out if it is broken; 3 • If the motor doesn't work, remove it from installation site and send to our MOTORLINE technical services for diagnosis.	4 • If motor work well and move gate at full force during the entire course, the problem is from controller. Set force using trimmer on the board. Make a new working time programming , giving sufficient time for opening and closing with appropriate force (page 08.B of this manual for MBM6 230V). 5 • If this doesn't work, remove control unit and send it to	MOTORLINE technical services services.	NOTE: Setting force of the controller should be sufficient to make the gate open and close without stopping, but should stop and invert with a little effort from a person. In case of safety systems failure, the gate shall never cause physical damaged to obstacles (vehicles, people, etc.).

