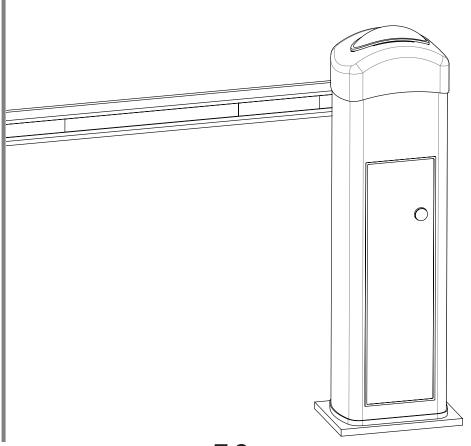
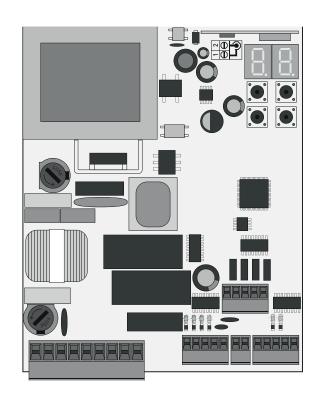




USER / INSTALLER MANUAL







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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.
- 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.
- 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 programmation. 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 MC50BR is a monophasic control board com a control system via incorporated rádio, developed for the automation of electromechanical barriers.

• 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

02. THE CONTROL BOARD

COL	WELLION 3 DESCRIPTION
CN1	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
CN2	 01 • Pedestrian Push input 02 • Total Push input 03 • Motor's opening limit-switch input (OPEN) 04 • Motor's closing limit-switch input (CLOSE) 05 • Common
CN3	01 • 24V DC 200mA max power supply 24V 02 • 24V DC 200mA max power supply ($\frac{1}{4}$)





02. THE CONTROL BOARD

TECHNICAL SPECIFICATIONS

02. THE CONTROL BOARD

PROGRAMMING PRE-RECOMENDATIONS

01 • Safety Edge

02 • Photocells

03 • Encoder (not used)

04 • Encoder (not used)

05 · Common

01 • +24V DC Auxiliary Power Supply for LED RGB flashing light

02 • Y output

03 · R output

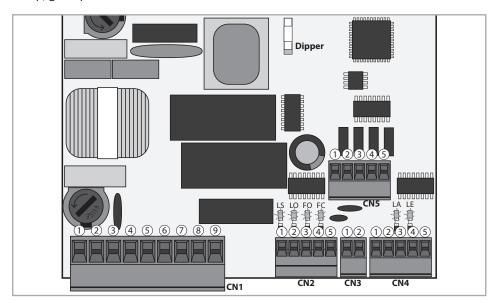
04 · G output

05 · B output

02. THE CONTROL BOARD

PROGRAMMING PRE-RECOMENDATIONS

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



LS • LED lit when the pedestrian push button is active

LO • LED lit when the total push button is active

FO · LED off when the opening limit switch is active

FC • LED off when the closing limit switch is active

LA • LED off when safety edge is active (when **P6** is active)

LE • LED off when photocells are active (when **P5** is active)

Courtesy light or flashing light:

08 and **09** • This output allows connection of a courtesy light or a flashing light (see **P8** in page 10B).

Limit switches:

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 thriggering is visible on the display. OP (opening limit switch activated) and CL (opening limit switch activated).

It is mandatory the use of limit switches.

Safety circuits:

01 • This input allows connection of safety bands. The device operates according to programming set in the **P6** menu (page 9A).

02 • This input allows connection of photocells. The device operates according to programming set in the **P5** menu (page 8B).

Shunt application is not necessary.

01 • Auxiliary output for flashing light or 24V DC LED.

Open collector for the management of auxiliary functions:

02 • The Y output is activated in intermittent mode, only with the closed barrier.

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



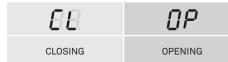
Put the dipper in this position.





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

- 01 · Make the connections of all the accessories according to the connection scheme (page 18).
- 02 Connect the control board to a 230V power supply (3 and 4 CN1 terminals).
- 03 Make sure that the barrier movement is the same as the one shown on the display:



If the display does not match the barrier'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.

ESSENTIAL STEPS FOR INSTALLATION

- 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 barrier of the deceleration time in opening and closing P1 menu (page 6B).
- 07 Adjust the strength and sensitivity of the motor P2 menu (page 7).
- 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 8B).
- 10 Enable or disable the use of safety band in the P6 menu (page 9A)
- 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.

511 Transmitter programming for total opening.

PROGRAMMING TRANSMITTERS



01 · Press the cmd button for 3sec.



02 · Select the function where you want to program the transmitters (SU and SP) using $\uparrow \downarrow$.



03 · Press cmd once to confirm the function (SE or SP).



04 • The first free position appears.







01 · Press the cmd button for 3sec.



02 · Select the function (SU or SP) using $\uparrow \downarrow$.



03 · Press cmd once to confirm the function (SU or SP).



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



05 • Press cmd for 3sec and the location will be empty.

The display will show the following location with memorized transmitter.

ERASE ALL THE TRANSMITTERS

location.



01 · Press the cmd button for 10sec.

05 • Press the command

The display will blink and

move to the next free

button you want to program.

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



· Whenever you save or delete a transmitter, the display will show the following location. You can add or delete transmitters without having to go back to point 01.



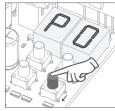
• If you do not press any key for 10 sec. the control board will return to standby.

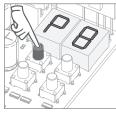


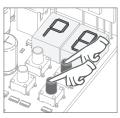












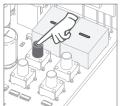
• To access the P menu • Use ↑↓ to navigate press the MENU key through the menus. for 2 sec.

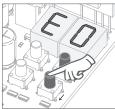
 Press MENU when you want to confirm access to a menu.

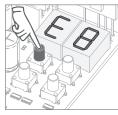
 Press ↑↓ simultaneously to exit programming.

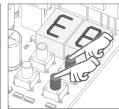
MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE	FACTORY VALUE	PAGE
PD	Course automatic programming	-	PR Automatic Programming	-	6A
88	Ramp adjustment	min. 0s 19s max.	dR Opening ramp dF Closing ramp	03 03	6B
P2	Force and sensibility adjustment	min. 1 9 max.	F 5 Sensibility adjustment	00	7A
88		INACCESS	SIBLE MENU		
PY	Pause time	min. (18) (1998) max.	RF Total closure pause time adjustment RP Pedestrian closure pause time adjustment	3 sec.	7B
85	Photocells programming	-	HE 00 photocells Disabled 01 photocells Activated HE 00 Photocells in closing Photocells in opening	00	8A
P5	Safety band	-	HE 00 Security Band Disabled 0 / Security Band Activated 00 8k2 input 0 / NC input 00 Band in closure	00 01 00	8B
88	OperatiNG logic	-	## Automatic mode function ### I Step by step mode function ### Mode condominium function	02	9A
<i>P8</i>	Flashing light	-	 GB Flashing (opening and closing) G I Step by step mode function G Courtesy light G Electromagnet 	00	9B
88	Distance programming	-	Distance PGM OFF Distance PGM ON	00	10A

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









• To access the E menu • Use ↑↓ to navigate press the MENU key through the menus. for 10sec.

 Press MENU when you want to confirm access to a menu.

 Press ↑↓ simultaneously to exit programming.

MENU	FUNCTION	MÁX. MIN. PROGRAMABLE	STATE	FACTORY VALUE	PAGE		
EO	Present Man	-	HP 00 Deactivates present man 01 Activates present man PL 00 Disables push buttons mode 01 Disables push buttons mode	00	10B		
BB	Soft start	+	Deactivates Soft start Activates Soft start	00	11A		
E2	Courtesy light time	min. 0 99 max.	Courtesy light time adjustment	03	11B		
88	Follow me -		Deactivates follow me Activates follow me	00	12A		
E4	INACCESSIBLE MENU						
E5	INACCESSIBLE MENU						
88	Deceleration speed	min. 1 11 9 max.	Deceleration speed adjustment	09	12B		
E 7	Operation counter	-	Shows the number of maneuvers	-	13A		
88	Reset - Restore factory settings	-	DD Deactivated	00	13B		
E9	RGB Output	-	00 Continued output 01 Intermittent output 02 Pre-Flashlight	01	14A		

TRANSMITTER	
Transmitter programming for total opening.	4B







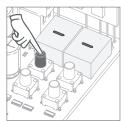


$P\Pi$ course automatic programming

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

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

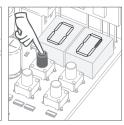
To carry out this programming is necessary that the limit switches are duly installed.



01 • Press MENU for 2 seconds.



02 • P0 appears. Press MENU for 2 seconds.



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



04 · When P1 appears, the automatic over. If you want to program P1, continue in step 03 from P1 menu. To exit the programming press $\uparrow \downarrow$ simultaneously.

04. PROGRAMMING "P"

RAMP ADJUSTMENT



dF

Set the position of the ramp and its duration.

Closing Ramp Sets the position of the ramp and its duration.









01 • Press MENU for 2 seconds.



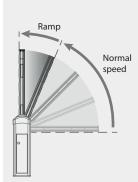




02 · P0 appears. Press ↓ once.



03 • P1 appears. Press MENU for 3 seconds.



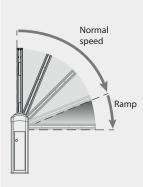


04 • dA appears. Press MENU for 2 seconds.

NOTE • The function allows you to adjust the ramp in the opening. It is necessary to adjust the value so that the boom has a correct slowdown until reaching the limit-switch.



05 • The ramp set by factory appears. If desired, change the ramp between 0 and 9, by using $\uparrow \downarrow$.





06 · dF appears.

Press MENU for 2 seconds.

NOTE • The function allows you to adjust the ramp in the opening. It is necessary to adjust the value so that the boom has a correct slowdown until reaching the limit-switch.



07 • The ramp set by factory appears. If desired, change the ramp between 0 and 9, by using $\uparrow \downarrow$.



08 · P2 appears.

To program P2, continue in step 3 from P2 menu (page 7A). To exit the programming press $\uparrow \downarrow$ 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 barrier.

00 (disables sensivity) **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.

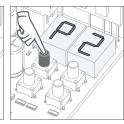




01 • Press MENU for 2 seconds.



02 · P0 appears. Press ↓ twice.



03 • P2 appears. Press MENU for 2 seconds.



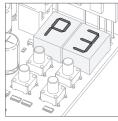
04 · FS appears. Press MENU for 2 seconds.



05 • Appears the value defined from factory. If you want, change the value from 1 to 9 using $\uparrow \downarrow$.



06 • Press MENU for 2 seconds, to save the defined value.



07 • P3 appears (not available menu). To program P4, continue in step 3 from P4 menu (page 7B). To exit the programming press $\uparrow \downarrow$ simultaneously.



P3 MENU INACCESSIBLE.

04. PROGRAMMING "P"



RR

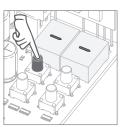
Pause time adjustment of the total closure

Allows you to set the time that the barrier will remain open.





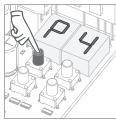
When the values are zero, the automatic closing ceases to exist.



01 • Press MENU for 2 **02** • P0 appears. seconds.



Press ↓ four times.



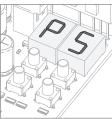
03 • P4 appears. Press MENU for 2 seconds.



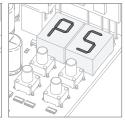
04 • AF appears. Press MENU for 2 seconds.



05 • Appears the time 06 • Press MENU for set from factory. If you want, change time between 1 and 99 sec., using ↑↓.



2 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 $\uparrow \downarrow$ simultaneously.





HB.

00 (disables photocells) 01 (ables photocells)

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

HI

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

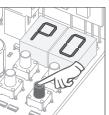
This menu can only be changed when the HE menu is active. 00 - photocell only intervenes during closure and reverses in full 01 - photocell only intervenes in opening and reverses for 2 sec.

(factory default 00)

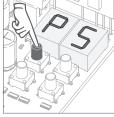


01 • Press MENU for 2 seconds.

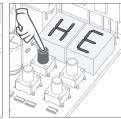
(factory default 00)



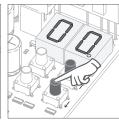
02 · P0 appears. Press \downarrow five times.



03 · P5 appears. Press MENU for 2 seconds.



04 • HE appears. Press MENU for 2 seconds.



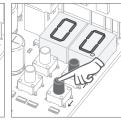
05 • Appears the function set from factory. If you want, change the it between 00 and 01 using $\uparrow \downarrow$.



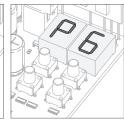
06 • Press MENU for 2 seconds to confirm the defined function.



07 · HC appears. Press MENU for 2 seconds.



08 • Appears the function set from factory. If you want, change the it between 00 and 01 using $\uparrow \downarrow$.



09 · Press MENU for 2 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 $\uparrow \downarrow$ simultaneously.



8A

HE

04. PROGRAMMING "P"

00 (disables safety band) 01 (ables safety band)

The menu allows you to enable/disable its operation.

HA 00 (8k2 input) 01 (NC input)

You can only program HA if it has HE enabled (page 9A). Therefore, you can choose safety band with 8k2 resistive type (00) or safety band with normally closed contact, NC (01).

(factory default 00)

(factory default 01)

HL

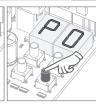
00 (band during closure) 01 (band during opening)

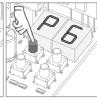
You can only program HA if it has HE enabled (page 9A) and after choose the type of safety band in HA. In closure (00) the barrier reverses, in opening (01) reverses only 2 seconds.

(factory default 00)



01 · Press MENU for 2 seconds.





02 • P0 appears. **03** • P6 appears. Press ↓ six times. Press MENU for 2 Press MENU for 2 seconds.



04 · HE appears. seconds.



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



06 • Press MENU for 2 seconds to confirm the defined function.



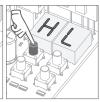
07 • HA appears. Press MENU for 2 function set from for 2 seconds seconds.



08 • Appears the **09** • Press MENU factory. If you it between 00 and



to confirm the want, change the defined function.



10 · HL appears. Press MENU for 2 seconds.



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



12 · Press MENU for 2 seconds to confirm the defined function.

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





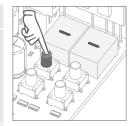
88

Functioning in automatic mode

1st impulse - OPENS 2nd impulse - STOPS, TIMER AND CLOSES (IF P4>00) 3rd impulse - INVERTS

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)

88



01 • Press MENU for 2

seconds.

P 7 OPERATING LOGIC

the barrier closes factory default (02)

Functioning in step by

step mode

1st impulse - OPENS

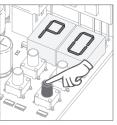
2nd impulse - STOPS

3rd impulse - CLOSES

4th impulse - STOPS

If is fully open and timed,

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



02 · P0 appears. Press ↓ seven times.



03 • P7 appears. Press MENU for 2 seconds.



04 • Appears the function currently set. If you want, change the function to 00, 01 or 02, using $\uparrow \downarrow$.



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 $\uparrow \downarrow$ simultaneously.

88

Intermittent (opening and closing) During the barrier's opening/closing movement, the flashing light will work intermittently.

During movement of

 ΠI

the barrier (opening and closing), the flashing light will remain lit.

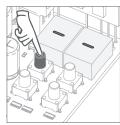
88

Courtesy light The light will remain lit during the time defined in the E2 menu (page 12B).

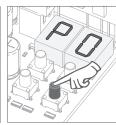
Π

Electromagnet With the barrier closed, the control board continuously feeds the magnetic lock for a second before it initiates any opening maneuvers. The output is fed again for a second before it fully closes, so as soon as the maneuver is completed, the boom is attached with the electric lock.

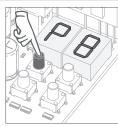
Factory defaut (00)



01 • Press MENU for 2 seconds.



02 · P0 appears. Press ↓ eight times.



03 · P8 appears. Press MENU for 2 seconds.



04 • Appears the function currently set. If you want, change the function to 00, 01 or 02, using $\uparrow \downarrow$.



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 $\uparrow \downarrow$ simultaneously.





88 Π 1 distance PGM OFF 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)

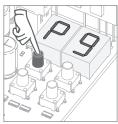


01 • Press MENU for 2 **02** • P0 appears. seconds.



P g distance programming

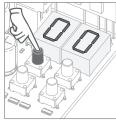
Press ↓ 9 times.



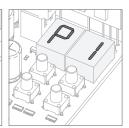
03 · P9 appears. Press MENU for 2 seconds.



04 • Appears the function currently set. If you want, change the function to 00 or 01, using $\uparrow \downarrow$.



05 • Press MENU to save the defined function.

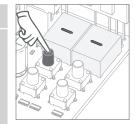


06 • P1 appears. To exit the programming press $\uparrow \downarrow$ simultaneously.

Push button mode

	LS Button	LO Button
01 ACTIVATED	Total Opening	Total Closing
00 ACTIVATED	-	Normal button (open/close)





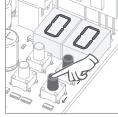
01 • Press MENU for 10 seconds.



02 · E0 appears. Press MENU for 2 seconds.



03 · HP appears. Press MENU for 2 seconds.



04 • Appears the function currently set. If you want, change the function to 00 or 01, using $\uparrow \downarrow$.



05 • Press MENU for 2 seconds to confirm the defined time.

Distance programming operation (PGM ON):

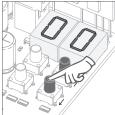


• Press the keys indicated in the picture at the same time for 10 seconds and the flashing light will start to flash (the display shows the 1st free position).

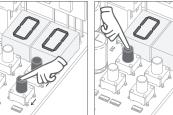
Whenever you memorize a transmitter, the control board will leave the distance programming mode. If you want to program more transmitters, you will need to repeat the process of pressing simultaneously the transmitter buttons for 10 seconds for each new transmitter.



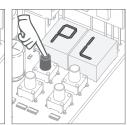
06 • PL appears. Press MENU for 2 seconds.



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



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



09 • E1 appears. To program E1, continue in step 3 from E1 menu (page 11B). To exit the programming press $\uparrow \downarrow$ simultaneously.

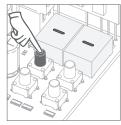




00 disabled function 01 enabled function

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.





E | SOFT START

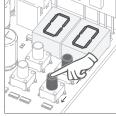
01 · Press MENU for 10 seconds.



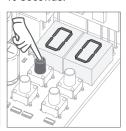
02 · E0 appears. Press ↓ once.



03 • E1 appears. Press MENU for 2 seconds.



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

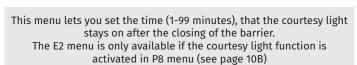


05 • Press MENU to save the defined function.

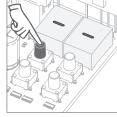


06 • E2 appears.

To program E2, continue in step 3 from E2 menu (page 11B). To exit the programming press $\uparrow \downarrow$ simultaneously.



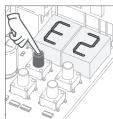




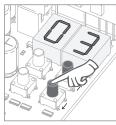
01 · Press MENU for 10 seconds.



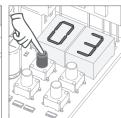
02 · E0 appears. Press ↓ twice.



03 • E2 appears. Press MENU for 2 seconds.



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



save the defined time.



06 • E3 appears.

To program E3, continue in step 3 from E3 menu (page 12A). To exit the programming press $\uparrow \downarrow$ simultaneously.

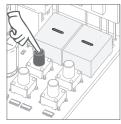


00 disabled function 01 enabled function

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 / HC = 00 (see page 9A)





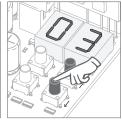
01 • Press MENU for 10 seconds.



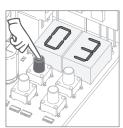
02 • E0 appears. Press ↓ three times.



03 • E3 appears. Press MENU for 2 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.



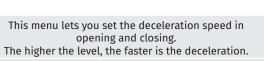
06 • E4 and E5 menus not available. To program E6, continue in step 3 from E6 menu (page 12B). To exit the programming press ↑↓ simultaneously.



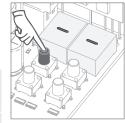
E4 MENU NOT AVAILABLE. E5 MENU NOT AVAILABLE.

05. PROGRAMMING "E"

EE COURTESY LIGHT TIME







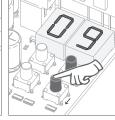
01 • Press MENU for 10 seconds.



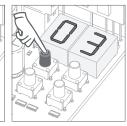
02 • E0 appears. Press ↓ six times.



03 • E6 appears. Press MENU for 2 seconds.



04 • Appears the value currently set. If you want, change the function to 01 or 09, using $\uparrow \downarrow$.



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 $\uparrow \downarrow$ simultaneously.

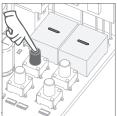


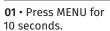


This menu allows you to check how many complete maneuvers were performed by the control board (complete maneuver it is understood by opening and closing).

!\ The control board reset does not erase the maneuvers count.

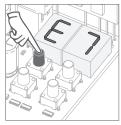
Example: 13456 maneuvers 01- Hundreds of thousands / 34- Thousands / 56- Dozens







02 • E0 appears. Press ↓ six times.



03 • Press MENU for 2 seconds.



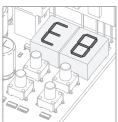
display flashes







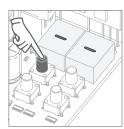
04 • Appears the maneuvers counting in the following order (example 130 371):



06 • E8 appears.

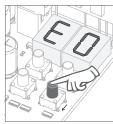
To program E8, continue in step 3 from E8 menu (page 13B). To exit the programming press $\uparrow \downarrow$ simultaneously.

When resetting, all factory values will be reset. The memorized commands will be maintained. Only the maneuver counter will always have the data stored.

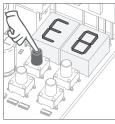


05. PROGRAMMING "E"

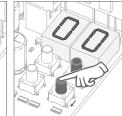
01 • Press MENU for 10 seconds.



02 • E0 appears. Press ↓ eight times.



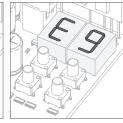
03 • E8 appears. Press MENU for 2 seconds.



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



05 • Press MENU for 2 **06** • E9 appears. seconds to reset. To program E9,



06 • E9 appears.
To program E9, continue in step 3 from E9 menu (page 14A). To exit the programming press ↑ ↓ simultaneously.

06. DISPLAY

88	0 /	02		
Continuous light	Flashing light	Pre-Flashlight		
The control board activates the output during the opening, pause and close in continuous mode.	The control board activates the output during the opening, pause and close in flashing mode.	The control board activates the flashing light output for 3 seconds before starting any opening or closing maneuver.		

(factory default 01)

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



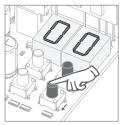
01 • Press MENU for 10 seconds.



02 • E0 appears. Press ↓ nine times.



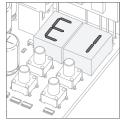
03 • E9 appears. Press MENU for 2 seconds.



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



05 • Press MENU for 3 **06** • E1 appears. seconds to save the defined function.



To exit the programming press $\uparrow \downarrow$ simultaneously.

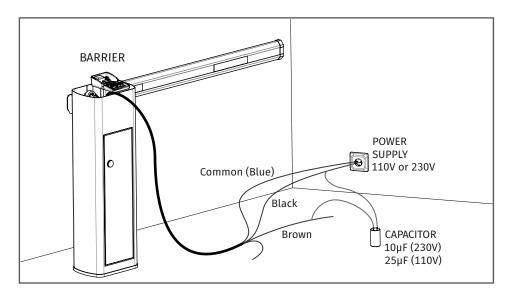
MENU	DESCRIPTION	MENU	DESCRIPTION
88	Opening limit-switch enabled	88	Stress detection
88	Closing limit-switch enabled	88	obstructed photocells
88	Opening and Closing lim- it-switches actuated	88	Security Band under pressure
88	In pause time	88	Pedestrian button being pressed
88	In pedestrian pause time	88	Start button being pressed
88	Memory full	88	Exceeded working time
88	Memory full (pedestrian)		

To detect which components have problems in an electromechanical barrier installation, sometimes is necessary to conduct tests with a direct connection to a 110V or 230V power supply. For it is necessary to connect capacitor between the automation and the power supply in order to test.

In the scheme below it is shown how this connection should be done and how the different component wires should be connected.

NOTES:

- To perform the test it is not needed to remove the automatism from the instalation, because in this way it's easier to understand if the automatism connected directly to the power supply can function correctly;
- The linking order between the capacitator and the automatism wires is not important, as long as it is connected, one with the brown wire and the other with the black wire;
- The common wire must always be connected to the power supply.
- To reverse the automatism operating direction just swap the automatism black wire with brown wire in the power supply direct's connection.





All tests must be carried out by specialized technicians due to the serious danger related to 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;	control bo connectin supply in	nect barrier from hard and test them by g directly to power order to find out if they lems (see page 15A).	4 • If the barrier works problem is on the cont Pull it out and send it t MOTORLINE technical for diagnosis;	rol board. to our	5 • If the barrier doesn't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
Motor doesn't move but makes	 Unlock motor and move the barrier by hand to check for 	• Encountered problems?	• Consult a qualified barrier technician.	1 • Check motion axis and associated motion systems related with the motor and the barrier to find out what is the problem.			t is the problem.		
noise	mechanical problems on the movement	• The barrier moves easily?	• Consult a qualified MOTORLINE technician.	1 • Check capacitors, testing operator with new capacitor;	erator with new capacitor; problem, disconnect motor from control board and it them by connecting directly to power M		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.
Barrier doesn't make complete route	Unlock motor and move the barrier by hand to closed position. Lock motor again and turn of power supply for 5 seconds. Reconnect it and send order to open barrier using transmitter.	Barrier 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 barrier are jammed and sending permanent signal to control unit; 3 • Consult a qualified MOTORLINE technician.	All MOTORLINE control boards have that easily allow to conclude which are with anomalies. All safety dev (LA and LE) in normal situations re On. All "START" circuits LEDs in resituations remain Off. If LEDs devices are not all On, the security systems malfunction (phesafety edges), etc. If "START" circuits are turn On, there is a control devipermanent signal.	Lude which devices LEDs tafety devices LEDs auations remain LEDs in normal to the control board (check manual of the control board in question). If the automated system starts working normally check for the problematic device. 1 • Close with a shunt all safety systems on 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		1 • Disconterminal i 2 • If the Lone device defective NOTE: In case pray A) and B)	ocedures described in sections don't result, remove control board to our technical services for	
 Motor opens but doesn't close 	 Unlock motor and move barrier by hand to check for 	• Encountered problems?	• Consult a qualified barrier technician.	1 • Check all motion axis and asso	ciated moti	on systems related with t	he barrier to find out wh	nat is the pr	oblem.
	mechanical problems on the barrier.	• The barrier 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.	barrier at entire cou from cont trimmer o new worki giving suff and closir force (pag for MBM6 5 • If this o	or work well and move full force during the urse, the problem is roller. Set force using n the board. Make a ing time programming, fient time for opening with appropriate to 08.B of this manual 230V). doesn't work, remove hit and send it to	MOTORLINE technical services.	services	NOTE: Setting force of the controller should be sufficient to make the barrier open and close without stopping, but should stop and invert with a little effort from a person. In case of safety systems failure, the barrier shall never cause physical damaged to obstacles (vehicles, people, etc.).



