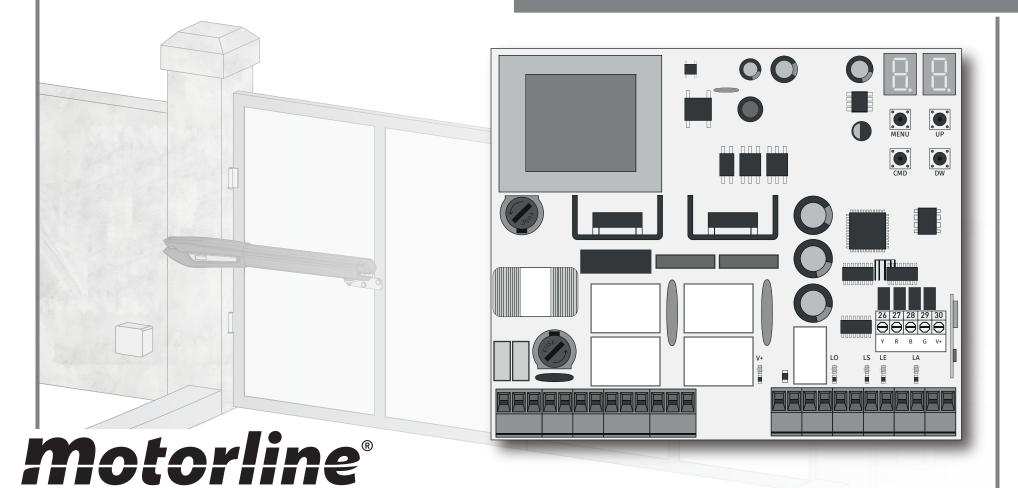




USER/INSTALLER MANUAL



00. CONTENT

INDEX

01. SAFETY INSTRUCTIONS	1B
02. THE CONTROL BOARD	
TECHNICAL SPECIFICATIONS	4A
LEDs	4A
CONNECTORS	4B
03. INSTALLATION	
INSTALLATION MAP	5
BASE INSTALLATION PROCESS	6A
04. PROGRAMMING	
PROGRAMMING AND DELETE REMOTE CONTROLS	6B
P MENUS	7A
E MENUS	7в
05. PROGRAMMING "P"	
<u>P0</u>	8A
<u>P1 - P2</u>	8B
P3 - P4	9A
<u>P5 - P6</u>	9В
P7 - P8	10A
<u>P9</u>	10B
06. PROGRAMMING "E"	
EO	10B
E1 - E2 - E3	11A
E4 - E5	11B
E6 - E7	12A
E8 - E9	12B
07. DISPLAY	
DISPLAY INDICATIONS	13A
08. COMPONENTS TEST MOTOR 230V/110V	13B
	13B
09. TROUBLESHOOTING FINAL CONSUMERS INSTRUCTIONS AND SPECIALIZED INSTALLERS	14
CONCOMENS MOTIOCHONO /NO OF CONCILED MOTIVEERS	14

01. SAFETY INSTRUCTIONS

ATTENTION:

CE

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 and with Delegated Directive (EU) 2015/863 from Commission.

(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.

01. SAFETY INSTRUCTIONS

GENERAL WARNINGS

- •This manual contains very important safety and usage information. very important. Read all instructions carefully before beginning the installation/usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
- •This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
- This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
- •The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.
- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- · When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
- •The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.

• Children shouldn't play with the product or opening devices to avoid the motorized door or gate from being triggered involuntarily.

WARNINGS FOR TECHNICIANS

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- · Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The central must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on the power supply cable. Please note that all the cables must enter the central from the bottom.
- If the automatism is to be installed at a height of more than 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16

01. SAFETY INSTRUCTIONS

September 2009.

- Attach the permanent label for the manual release as close as possible to the release mechanism.
- Disconnect means, such as a switch or circuit breaker on the electrical panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.
- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- •The product is only powered by low voltage satefy with central (only at 24V motors)

WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits. and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety conditions have been met.
- In the event of tripping of circuits breakers of fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

RESPONSABILITY

- Supplier disclaims any liability if:
 - Product failure or deformation result from improper installation use or maintenance!
 - · Safety norms are not followed in the installation, use and maintenance of the product.
 - Instructions in this manual are not followed.
 - Damaged is caused by unauthorized modifications
 - In these cases, the warranty is voided.

MOTORLINE ELECTROCELOS SA.

Travessa do Sobreiro. nº29 4755-474 Rio Côvo (Santa Eugénia) Barcelos, Portugal

SYMBOLS LEGEND:



 Important safety notices



Useful information



 Programming information



 Potentiometer information



 Connectors information



 Buttons information

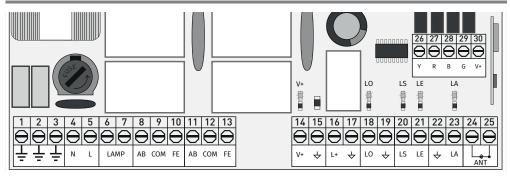
02. CONTROL BOARD

TECHNICAL SPECIFICATIONS

The MC52 is a single-phase control board with built-in radio control system designed for the automation of swing gates.

	110V version	230V version	
• Power Supply	110Vac 60Hz	230Vac 50-60Hz	
• Flashing light's output	110Vac 60Hz 500W max.	230Vac 50Hz 500W max.	
• RGB Flashing light's output	24Vdc 100mA max.		
Motor's output	110Vac 60Hz 500W max.	230Vac 50-60Hz 500W max.	
Auxiliary accessories output	24Vdc 8W max.		
• Security and BT Remote controls	24Vdc		
• Working temperature	-25°C to +55°C		
• Incorporated Radio Receptor	433,92 Mhz		
• OP Remote controls	12bits or Rolling Code		
Maximum Memory Capacity	100 (full opening) - 100 (pedestrian opening)		
• Control board Dimensions	125mm x 140mm		

LEDs



LEUS

- V+ LED On indicates that the line for V+ output is OK.
- LS LED On when pedestrian opening is active.
- LO · LED On when full opening is active.
- **LA** LED on when the photocell is active (P6 active) or the \downarrow LA circuit is closed.
- **LE** LED on when the photocells are active (P5 active) or the ↓ LE circuit is closed.

Motorline®

02. CONTROL BOARD

CONNECTORS

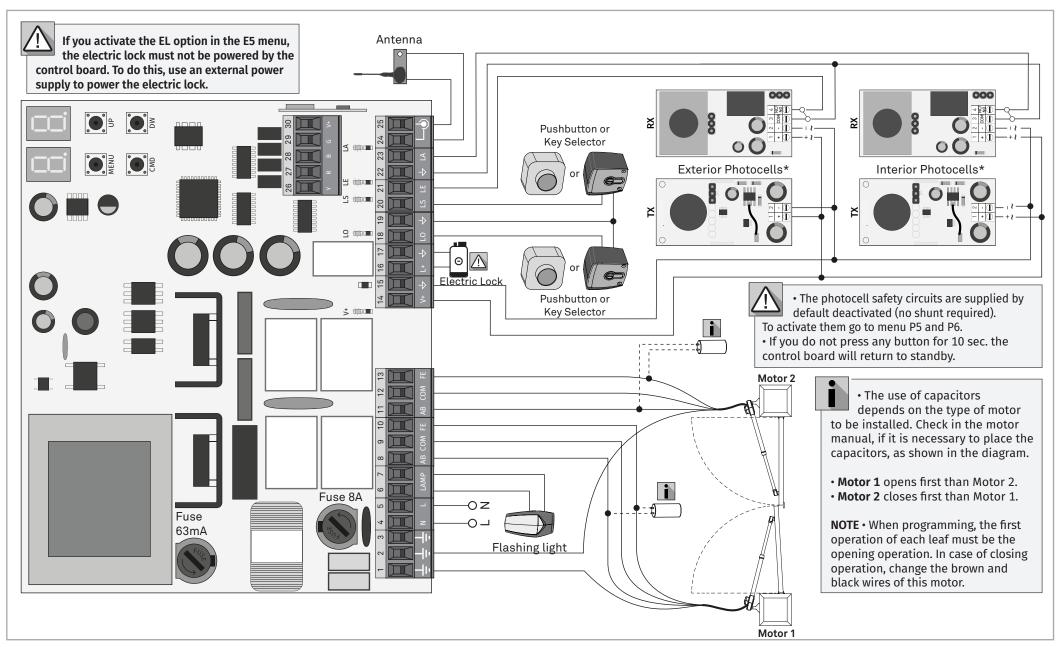


Make sure which version you are using (110Vac or 230Vac).

	01 • Grounding connection02 • Grounding connection03 • Grounding connection						
	04 • 110/230Vac (Neutral) (N) line input 05 • 110/230Vac (Phase) (L) line input	110/230Vac Power Supply					
CN1	06 • Flashing light Output - 110/230Vac 500W 07 • Flashing light Output - 110/230Vac 500W	Courtesy light or Flashing light: This output allows the connection of a courtesy light or a Flashing light.					
	08 • Motor 1 Output - Opening - 110/230Vac 500W 09 • Motor 1 Output - Common - 110/230Vac 500W 10 • Motor 1 Output - Closing - 110/230Vac 500W	Motor 1					
	11 • Motor 2 Output - Opening - 110/230Vac 500W 12 • Motor 2 Output - Common - 110/230Vac 500W 13 • Motor 2 Output - Closing - 110/230Vac 500W	Motor 2					
	14 • 24Vdc 200mA max. Power supply 15 • 24Vdc 200mA max. Power supply	24Vdc Auxiliary Power Supply					
	16 • Electric lock Output 12/24Vdc 15W 17 • Electric lock Output 12/24Vdc 15W	Electric lock: This output allows the connection of an electric lock. Note • The indicated power is for 2 sec. impulses.					
CN2	18 • Total opening Input (NA)19 • Common20 • Pedestrian opening Input (NA)	Pushbuttons: This circuit allows the connection of pushbuttons for full or pedestrian opening.					
	21 • Photocells 1 (NC) 22 • Common 23 • Photocells 2 (NC) 24 • Antenna	Safety circuits: This circuit allows the connection of photocells. Its operation depending on the configuration of the P5 and P6 menus (check page 9A).					
	25 • GND	Antenna					
CN3	26 • Output Y (GND) 27 • Output R (GND) 28 • Output B (GND) 29 • Output G (GND) 30 • Auxiliary output for Flashing light or 24Vdc LED	Open collector for the management of auxiliary functions: Output Y is activated in intermittent mode, only with the gate closed. Output R is activated in intermittent mode, only in the closing phase. Output B is activated in intermittent mode, only during the pause time. Output G is activated in intermittent mode, only during the opening phase.					

03. INSTALLATION

INSTALLATION MAP



03. INSTALLATION

BASE INSTALLATION PROCESS



The installation process assumes that the gate already has mechanical or electrical limit switches installed.

- 01 Connect all accessories according to the connections diagram (page 5).
- **02** Connect the control board to a 230V power supply (terminals 4 and 5 CN1).
- 03 Check if the gate movement is the same as shown on the display.
- 04 · Make a course programming menu P0 (page 8A).
- 05 · If necessary, adjust the deceleration time of the gate at opening and closing menu P1 (page 8A).
- 06 · Adjust the gate force menu P2 (page 8B).
- 07 Re-program the course menu PO (page 8A).
- 08 Enable or disable the use of Photocells in menu P5 and P6 (page 9A).
- 09 · Program a remote control (page 6B).

The control board is now fully configured!

Check the pages of the menu programming if you want to configure other features of the Control board.

04. PROGRAMMING

PROGRAMMING AND DELETE REMOTE CONTROLS

50 Remote controls programming for total opening.

58 Remote controls programming for pedestrian opening.

PROGRAMMING REMOTE CONTROL



01 · Press the cmd button for 3 sec.



using $\uparrow \downarrow$.



02 · Select (SU)



ERASE REMOTE CONTROL

01 · Press the cmd button for 3 sec.





03 · Press cmd once to confirm.



04 · The first free position appears.



03 · Press cmd once to confirm.



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



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



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

The display will blink and the position will be free.

ERASE ALL THE REMOTE CONTROL

- 01 · Press the cmd button for 10 sec.
- 02 The display will show SU.
- 03 · SU will flash.
- 04 · LU flashes, confirming that all remote control have been deleted.



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









04. PROGRAMMING

P MENUS

- We can only enter programming with the gate stopped (electrically).
- To access the P menu press the MENU button for 3 sec.
- Use ↓↑ to navigate through the menus.
- Press MENU when you want to confirm access to a menu.
- Press ↓ ↑ simultaneously to exit programming.

MENU	FUNCTION	MIN.	MAX.	STATE	FACTORY VALUE	PAGE	
00				$\tilde{a} \mathcal{B}$ Manual Programming	-		
88	Course Programming	-	-	58 88 1 motor 88 2 motors	02	8A	
				88 Opening deceleration (Leaf 1)			
88	Deceleration time	0s	25s	$\partial \mathcal{E}$ Closing deceleration (Leaf 1)	03	8A	
	adjustment	03	233	88 Opening deceleration (Leaf 2)	03	OA.	
				88 Closing deceleration (Leaf 2)			
88	Force adjustment	0	9	FO Force adjustment	04	8B	
88	Pedestrian Course time	0s	99s	Time adjustment in pedestrian course	10	8B	
		0s	99s	AF Total pause time	00		
88	Borne Control Sales Into	0s	99s	$\it BP$ Pedestrian pause time	00	0.0	
	Pause time and gates delay	0s	25s	88 Opening gates delay	02	8B	
		0s	25s	$\it BE$ Closing gates delay	02		
	Photocells 1 programming	0	1	&& & Disables & Active	00		
88		0	1	HG 00 In Opening BB In Closing	01	9A	
		0	2	00 Invert 80 03 Stop 02 Invert 2 sec. and Stop	00		
		0	1	LR 00 Disables 01 Active	00		
88	Photocells 2 programming	0	1	HE BB In Opening In Closing	00	9A	
	programming	programming	0	2	88 Invert HE 89 Stop 82 Invert 2 sec. and Stop	01	
				②② Automatic mode function			
88	Operating logic	0	2	88 Step by step mode function	00	9B	
				<i>B∂</i> Condominium mode function			
00				00 Flashing (opening and closing)			
88	Flashing light	0	2	8 Step by step mode function	00	9B	
				02 Courtesy light			
88	Remote programming	0	1	00 Distance PGM OFF	00	9B	
				🛮 🗗 Distance PGM ON			

Motorline®

04. PROGRAMMING

E MENUS

FUNCTION	MIN	MAX.	STATE	FACTORY VALUE	PAGE.			
			HP 00 Deactivates Human presence Activates Human presence					
Human presence	0	1	$ ho_{E}$ $\stackrel{\partial O}{\partial \mathcal{A}}$ Disables push buttons mode Activates push buttons mode	00	10A			
Soft start	0	1	00 Deactivates Soft start	00	10A			
Courtesy light time	0m	99m	Courtesy light time adjustment (minutes)	00	10A			
			88 Deactivates follow me					
Follow mo			$g_{\mathcal{F}}$ Follow me does not act when the gate is opening. It only works when it is open.					
rottow me		_	82 Follow me acts when the gate is open and when it is open.	00	10A			
	0m	3m	Opening course time (minutes) - Leaf 1	00				
	0s	59s	Opening course time (seconds) - Leaf 1	30				
	0m	3m	Closing course time (minutes) - Leaf 1	00				
Course time	0s	59s	Closing course time (seconds) - Leaf 1	30	10B			
adjustment	0m	3m	Opening course time (minutes) - Leaf 2	00	100			
	0s	59s	Opening course time (seconds) - Leaf 2	30				
	0m	3m	Closing course time (minutes) - Leaf 2	00				
	0s	59s	Closing course time (seconds) - Leaf 2	30				
Prake / Lock / Strokes			$ \begin{tabular}{lll} ${\cal B}{\cal B}$ & Disables electronic brake \\ & {\cal B}{\cal B} & {\it Active electronic brake} \\ \end{tabular} $					
	Brako /Lock/Strokos	Prako/Lock/Strokos	Brake/Lock/Strokes	Brake/Lock/Strokes	rako/Lock/Strokos 0	0 1	$ \begin{array}{ccc} \mathcal{B}\mathcal{B} & \text{Activates electric lock on opening 2 sec.} \\ \text{Activates electric lock whenever moving} \end{array} $	00
Brake, Edek, Strokes	Ü	-	$\rho_{\vec{a}} \stackrel{\partial B}{\partial \beta}$ Disables opening push Active opening push	00	105			
			$\begin{array}{ccc} gg & \text{Disables closing push} \\ gg & \text{Active closing push} \end{array}$					
Deceleration Speed	0	9	Deceleration Speed adjustment	05	10B			
Manuevers counter	-	-	Shows the number of maneuvers	-	10B			
Reset - Restore factory settings	0	1	88 Deactivated	00	11A			
RGB Output	-	-	88 Continued output	00	11A			
			REMOTE CONTROL					
Remote control programming for total opening. 6B								
Remote control progr	amming	g for peo	destrian opening.		6B			
7B			m	otori	ine°			
	Human presence Soft start Courtesy light time Follow me Course time adjustment Brake/Lock/Strokes Deceleration Speed Manuevers counter Reset - Restore factory settings RGB Output Remote control progr	Human presence 0 Soft start 0 Courtesy light time 0m Follow me - Course time adjustment 0s 0m 0s 0m 0s 0m 0s Brake/Lock/Strokes 0 Deceleration Speed 0 Manuevers counter - Reset - Restore factory settings RGB Output - Remote control programming Remote control programming	Human presence	Human presence 0 1 RP 00 Deactivates Human presence	Human presence Human presence			

PII course programming

88	88
Course Manual Programming This menu allows you to manually set the course of the leaf/leaves.	Number of Motors Allows you to define the number of motors connected to the control board
Default value (NA)	Default value (02)

DIRECTION OF DISPLAY ROTATION	COURSE PROGRAMMING OF TWO MOTORS
88	Normal rotation - leaf 1 starts opening (normal speed) Slow rotation - leaf 1 goes into opening slowdown (slowdown speed)
88	Normal rotation – leaf 1 stops and leaf 2 starts opening (normal speed) Slow rotation - leaf 2 goes into opening slowdown (slowdown speed)
88	Normal rotation – leaf 2 stops and starts closing (normal speed) Slow rotation - leaf 2 goes into closing speed (slowdown speed)
48	Normal rotation - leaf 2 stops and leaf 1 starts opening (normal speed) Slow rotation - leaf 1 goes into closing slowdown (slowdown speed)
	COURSE PROGRAMMING OF ONE MOTOR (PEDESTRIAN)
88	Normal rotation - leaf starts opening (normal speed) Slow rotation - the leaf goes into opening slowdown (slowdown speed)
88	Normal rotation - the leaf stops and starts closing (normal speed)
8	Slow rotation - the leaf goes into closing slowdown (slowdown speed)

Manual programming:

- 01 Press MENU for 2 sec. until PD appears.
- **02** Press MENU once until BB appears.
- 03 Press MENU (or remote control) to start programming the opening time.

2 MOTORS (ĀĤ = Ūਟੋ)	1 MOTOR (PEDESTRIAN) ($\bar{\alpha}B$ = \bar{B} †)
04 • Press MENU to start slowdown. 05 • Press MENU to stop leaf 1 (leaf 2 starts opening automatically). 06 • Press MENU to start slowdown. 07 • Press MENU to finish opening and start closing leaf 2. 08 • Press MENU to start slowdown. 09 • Press MENU to stop leaf 2 (leaf 1 starts closing automatically). 10 • Press MENU to start slowdown. 11 • Press MENU to finish closing leaf 1. Display will show 22 signaling that leaves are closed.	 04 • Press MENU to start the opening slowdown of the leaf. 05 • Press MENU to stop the leaf and start programming the closing time. 06 • Press MENU to start the closing slowdown of the leaf. 07 • Press MENU once to display ōŪ, leaf 1 stops. 08 • Use UP and DW to display PU to exit programming mode. 09 • Use UP and DW to stay in Standby.



You can use the remote instead of the MENU button. Whenever a leaf touches a stop, wait 1 second before clicking on the MENU.

05. PROGRAMMING "P"

DECELERATION TIME ADJUSTMENT



Whenever there is a reversal of the direction of travel, the preset deceleration time is increased by 2 sec. up to 25 sec. maximum.

This menu allows you to set the deceleration time of each leaf at opening and closing.

88	88
Slowing down on opening leaf 1 It allows to define the time that the gate will act with slowdown in the opening.	Slowing down on closing leaf 1 It allows to define the time that the gate will act with slowdown in the closing.
88	88
Slowing down on opening leaf 2 It allows to define the time that the gate will act with slowdown in the opening.	Slowing down on closing leaf 2 It allows to define the time that the gate will act with slowdown in the closing.
min. los	max. (Default value 3)

- **01** Press MENU for 2 sec. until it appears ₱①.
- 02 · Use UP until appears 28.
- $03 \cdot \text{Press Menu will appear } BB$. Use UP or DW to navigate the parameters.
- **04** Press MENU to edit the chosen parameter value.
- 05 The currently set value appears. Use UP and DW to change the value.
- 06 Press MENU to save the new value.

05. PROGRAMMING "P"

FORCE ADJUSTMENT

This menu allows you to set the force that is injected into the motor when it moves at normal speed. The default value is 4.

- 01 Press MENU for 2 sec. until it appears PD.
- 02 · Use UP until appears P.P. .
- **03** Press Menu will appear FB.
- 04 Press MENU to edit value.
- **05** The currently set value appears. Use UP and DW to change the value.
- 06 Press MENU to save the new value.

PF PHOTOCELLS 2 PROGRAMMING

when this security is activated.

Allows you to set the pedestrian course time. The default value is 10.

- **01** Press MENU for 2 sec. until it appears PD.
- **02** Use UP until appears ₽₽.
- **03** Press Menu the value set by the factory will appear.
- 04 Press MENU to edit the value.
- 05 Use UP and DW to change the value.
- 06 Press MENU to save the new value.

05. PROGRAMMING "P"

PAUSE TIME AND GATES DELAY



When the values are at zero, there is no automatic closing.

88	88	88	88
Full closing pause time adjustment This menu allows you to set the total opening pause time.	Pedestrian closing pause time adjustment Allows you to set the pause time at the pedestrian opening.	Gate delay in closing Allows you to set the delay time for closing leaf 1 relative to leaf 2.	Gate delay in opening Allows you to set the delay time for opening leaf 2 relative to leaf 1.
min. (Default value 0)	min. min. max. (Default value 0)	min. Os max. (Default value 2)	min. (Default value 2)

- **01** Press MENU for 2 sec. until it appears ρg
- **02** Use UP until appears ₽9.
- $03 \cdot \text{Press Menu will appear } BE$. Use UP or DW to navigate the parameters.
- **04** Press MENU to edit the chosen parameter value.
- **05** The currently set value appears. Use UP and DW to change the value.
- 06 Press MENU to save the new value.

88	H8	88			
00 (deactivate) 01 (active) Enable or disable security.	00 (photocells in opening) 01 (photocells in closing) Define if this security will act on opening or closing.	00 (the movement of the gate is reversed) 01 (gate movement stops and resumes 5 sec after security is disabled) 02 (the movement of the gate reverses for 2 seconds and stops) Define the behavior that the gate will have when this security is activated.			
(Default value 0)					

- 01 Press MENU for 2 sec. until it appears PD
- **02** Use UP until appears BS .

05. PROGRAMMING "P"

- **03** Press Menu will appear &\mathbb{B}. Use UP or DW to navigate the parameters.
- **04** Press MENU to edit the chosen parameter value.
- **05** The currently set value appears. Use UP and DW to change the value.
- 06 Press MENU to save the new value.

88	88	88
00 (deactivate) 01 (active) Enable or disable	00 (photocells in opening) 01 (photocells in closing) Define if this security will	00 (the movement of the gate is reversed) 01 (gate movement stops and resumes 5 sec after security is disabled)
security.	act on opening or closing.	02 (the movement of the gate reverses for 2 seconds and stops) 03 (whenever the photocells are obstructed, the gate will stop working. As soon as the obstacle is removed, when closing, the gate reverses its movement and when opening, it continues to open) Define the behavior that the gate will have

(Default value 0)

- **01 ·** Press MENU for 2 sec. until it appears ₱□.
- 02 · Use UP until appears 85.
- **03** Press Menu will appear BB. Use UP or DW to navigate the parameters.
- **04** Press MENU to edit the chosen parameter value.
- **05** The currently set value appears. Use UP and DW to change the value.
- 06 Press MENU to save the new value.







05. PROGRAMMING "P"

OPERATING LOGIC

This menu allows to set the operating logic of the automation.						
88	88	88				
Automatic Mode	Step by step mode	Condominium Mode				
Whenever there is an order the movement is reversed.	1st impulse - OPEN 2nd impulse - STOP 3rd impulse - CLOSE 4th impulse - STOP If it is fully open and timed, it closes.	Does not respond to orders during opening and pause time.				
	(Default value 00)					

01 • Press MENU for 2 sec. until it appears P.B.

02 • Use UP until appears ₽₽.

03 • Press Menu will appear ∄∄.

04 • Press MENU to edit the value.

05 · Use UP and DW to change the value.

06 • Press MENU to save the new value.

05. PROGRAMMING "P"

PA FLASHING LIGHT

This menu allows you to set the operation mode of the flashing light (LAMP).						
88	88	88				
Flashing (opening and closing) During the opening/closing movement of the gate, the flashing light will work intermittently.	Step by step mode The opening and closing movement, the flashing light is permanently on.	Courtesy light The light will stay on for the time set in the E2 menu.				
(Default value 00)						

01 • Press MENU for 2 sec. until it appears *PD*.

02 • Use UP until appears ₽8 .

03 • Press Menu will appear ∂∂ .

04 • Press MENU to edit the value.

05 · Use UP and DW to change the value.

06 · Press MENU to save the new value.

05. PROGRAMMING "P"

REMOTE PROGRAMMING

Allows you to activate/deactivate the programming of new remote controls without directly accessing the control board, using a previously memorized remote control.

01 • Press MENU for 2 sec. until it appears 88.

02 • Use UP until appears *PD*.

03 • Press Menu will appear $\partial \partial$.

04 • Press MENU to edit the value.

05 · Use UP and DW to change the value.

06 · Press MENU to save the new value.

(Default value 00)

Remote Programming Operation (PGM ON):



• Press the buttons indicated in the image simultaneously for 10 seconds and the flashing light will flash (the 1st free position appears in the display).

Each time you store 1 remote controls, the control board will exit remote programming. If you want to memorize more remote control. you will always have to repeat the process of pressing the remote controls buttons simultaneously for 10 seconds for each new remote control.

06. PROGRAMMING "E"

HUMAN PRESENCE

HP.

00 (deactivate) 01 (active)

Enable or disable human presence.

Note • With active human presence RF remote controls do not work.

PL

00 (deactivate) 01 (active)

Allows you to activate or deactivate the pushbutton mode.

	LS	LO		
01 ACTIVE	Full closing	Full opening		
00 DEACTIVATE	Pedestrian maneuvers	Total maneuvers		

(Default value 00)

01 • Press MENU for 10 sec. until it appears EB.

02 • Press Menu will appear HP. Use UP or DW to navigate the parameters.

03 • Press MENU to edit the chosen parameter value.

04 • The currently set value appears. Use UP and DW to change the value.

05 • Press MENU to save the new value.

06. PROGRAMMING "E"

SOFT START

Enables or disables the soft start. With the soft start function activated, at each start of movement the control board will control the motor start, increasing the speed gradually in the first second of operation.

The default value is **0** (deactivated).

- **01** Press MENU for 10 sec. until it appears $\mathcal{E}\mathcal{B}$.
- **02** Use UP until appears $\mathcal{E}\mathcal{B}$.
- **03** Press Menu will appear $\partial \theta$.
- 04 Press MENU to edit the value.
- 05 Use UP and DW to change the value.
- 06 Press MENU to save the new value.

06. PROGRAMMING "E"

F7 COURTESY LIGHT TIME



This parameter is only activated if option 2 is selected in P8.

This menu allows you to adjust the courtesy light time for all positions of the gate (closed, opened and stopped). The default value is 0 (Courtesy light deactivated)

- **01** Press MENU for 10 sec. until it appears BB.
- **02** Use UP until appears $\mathbb{Z}\mathbb{Z}$.
- **03** Press Menu will appear ∄∄.
- 04 Press MENU to edit the value.
- 05 · Use UP and DW to change the value.
- 06 · Press MENU to save the new value.

06. PROGRAMMING "E"

F 7 FOLLOW ME

Allows you to activate the Follow me option. With this option activated, the control board, when in the open position or in opening, gives a closing order of 5 sec. after the safety device detects the passage of an object / user.

00 function disabled 01 function activated after opening 02 function activated on opening

(Default value 00)

- **01** Press MENU for 10 sec. until it appears $\mathbf{E}\mathbf{B}$.
- **02** Use UP until appears $\mathcal{E}\mathcal{B}$.
- **03 ·** Press Menu will appear []. [].
- **04** Press MENU to edit the value.
- **05** Use UP and DW to change the value.
- 06 Press MENU to save the new value.

06. PROGRAMMING "E"

E 4 COURSE TIME ADJUSTMENT

It allows to adjust the working time for the opening and closing courses of the two leafs.

Leaf 1							
88	88	88	88				
Opening course time (minutes)	Opening course time (seconds)	Closing course time (minutes)	Closing course time (seconds)				
(Default value 0)	(Default value 15)	(Default value 0)	(Default value 15)				
Leaf 2							
88	88	88	88				
Opening course time (minutes)	Opening course time (seconds)	Closing course time (minutes)	Closing course time (seconds)				
(Default value 0)	(Default value 15)	(Default value 0)	(Default value 15)				

01 • Press MENU for 10 sec. until it appears ∏ .

02 • Use UP until appears BB.

03 • Press Menu will appear $2\overline{a}$. Use UP or DW to navigate the parameters.

04 • Press MENU to edit the chosen parameter value.

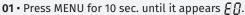
05 • The currently set value appears. Use UP and DW to change the value.

06 • Press MENU to save the new value.

06. PROGRAMMING "E" $\mathcal{E}_{\mathcal{S}}$ BRAKE/LOCK/PUSH

It allows to activate or deactivate the functions of the electronic brake, the lock's operating mode and to activate or deactivate pushes on opening and closing.

8.8	8.8	88	8.8		
00 (disables electronic brake) 01 (activates electronic brake) Allows you to activate the electronic brake.	00 (active lock on opening 2 sec.) 01 (activates lock whenever in motion) Allows you to select the lock's operating mode. The default value is 0 (2 second pulse on opening). Note: If you select option 2, you must take into account the maximum current value provided by the control board.	00 (disable opening push) 01 (active opening push) Allows you to activate the opening push (ram).	00 (disables closing push) 01 (active closing push) Allows you to activate the closing push.		
(Default value 0)	(Default value 0)	(Default value 0)	(Default value 0)		



02 • Use UP until appears BS_.

 $03 \cdot \text{Press Menu will appear } EB$. Use UP or DW to navigate the parameters.

04 • Press MENU to edit the chosen parameter value.

05 • The currently set value appears. Use UP and DW to change the value.

06 • Press MENU to save the new value.

06. PROGRAMMING "E"

F F DECELERATION SPEED

This menu allows you to adjust the deceleration speed. The higher the slowdown level, the faster the slowdown.

The default value is 4.

01 • Press MENU for 10 sec. until it appears EB.

02 • Use UP until appears BB.

03 • Press Menu the value set by the factory will appear.

04 • Press MENU to edit the value.

05 • Use UP and DW to change the value.

06 · Press MENU to save the new value.

06. PROGRAMMING "E"

F 7 MANUEVERS COUNTER

This menu allows you to view the number of maneuvers performed. (complete maneuver means opening and closing).

 \triangle Resetting the control board does not clear the maneuver count.

Example: 13456 maneuvers 01- Hundred thousand / 34- Thousands / 56- Dozens



01 • Press MENU for 10 seconds.



02 • E0 appears. Press UP until appears E7.



03 · Press MENU.

12 hundred thousand

06. PROGRAMMING "E"

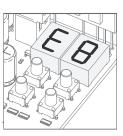








04 • The maneuvers count is displayed in the following order (example: 130 371):



05 • E8 appears.

06. PROGRAMMING "E"

EB reset - reset factory values

This menu allows you to reset to factory defaults.

The default value is 0 (deactivated).

01 • Press MENU for 10 sec. until it appears EB.

02 · Use UP until appears $\mathcal{B}\mathcal{B}$.

03 • Press Menu will appear $\ensuremath{B}\ensuremath{B}$.

04 • Press MENU to edit the value. **05** • Use UP and DW to change the value.

06 • Press MENU to save the new value.

06. PROGRAMMING "E"

F 9 RGB OUTPUT

This menu allows you to set the operation mode of RGB outputs.

The default value is 0 (continuous output).

01 • Press MENU for 10 sec. until it appears $\mathbb{A}\mathbb{B}$.

02 · Use UP until appears $\mathcal{B}\mathcal{B}$.

 ${\bf 03} \cdot {\sf Press}$ Menu will appear ${\it []}{\it []}$.

04 • Press MENU to edit the value.

05 • Use UP and DW to change the value.

06 • Press MENU to save the new value.

07. DISPLAY

DISPLAY INDICATIONS

8.8.	IN STOP POSITION, FULLY OPENED
8.8.	IN STOP POSITION, MIDDLE POSITION
8.8	IN STOP POSITION, FULLY CLOSED
88	TOTAL OPENING BUTTON PRESSED
88	PEDESTRIAN OPENING BUTTON PRESSED
88	CONTROL BOARD PERFOMS OPENING COURSE
8.8	CONTROL BOARD PERFOMS CLOSING COURSE
8.8	END OF OPENING COURSE TIME
8.8	END OF CLOSING COURSE TIME
88	ALL REMOTE CONTROLS DELETED
88 88 88	REMOTE CONTROL ADDED IN THE INDICATED POSITION
8.8	OBSTRUCTED PHOTOCELL
88	OBSTRUCTED PHOTOCELL
88	IN PAUSE TIME
88	IN PEDESTRIAN PAUSE TIME

08. COMPONENTS TEST

230V/110V MOTOR

To detect if the problem is in the control board or in the motor, sometimes it's necessary to conduct tests with a direct connection to a 230V/110V power supply.

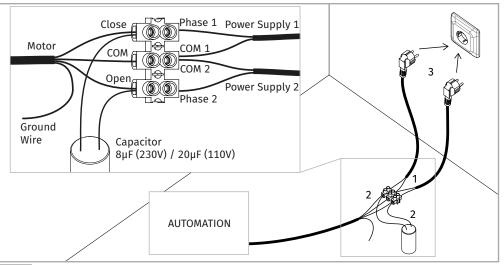
For this, it's necessary to interpose a capacitor on the connection so that the motor can work (check the capacitor type to be used in the product's manual). In the below diagram is shown how this connection must be made and how to merge the different component wires.

NOTES:

- To perform the tests you don't need to remove the automatism from it's place, because this way you can understand if the automatism, directly connected to the power, can function correctly.
- A new capacitor should be used during this test to ensure that the problem is not in the capacitor.
- 01 Connect the power wires to the terminal as shown below.
- **02** Connect the automation wires to the terminal, interleaving a capacitor into the opening and closing wires.
- **03** After these connections are complete, connect to a 230V/110V power socket, depending on the motor/control board being tested.



The use of capacitors depends on the type of motor to be installed. Check in the motor manual, if it is necessary to place the capacitors, as shown in the diagram.





All tests must be performed by qualified personnel due to serious danger associated with the misuse of electrical systems.







09. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS

INSTRUCTIONS FOR TECHNICIANS

Anomaly	Procedure	Behavior	Procedure II	Discovering the origin of the problem					
• Motor doesn't work.	Make sure you have 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 motors from control board and test them by connecting directly to power supply in order to find out if they have problems (see page 11B).		4 • If the motors work, the problem is on the control board. Pull it out and send it to our MOTORLINE technical services for diagnosis;		5 • If the motors don't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
• Motor	Unlock motor	• Is the gate stuck?	• Consult a qualified gates technician.	1 • Check all motion axis and associated motion systems related with the gate and automation (rails, pulleys, bolts, hinges, etc) to find out what problem.					oolts, hinges, etc) to find out what is the
doesn't move but makes noise.	and move the gate by hand to check for mechanical problems on the movement.	• The gate moves easily?	Consult a qualified MOTORLINE technician.	motor with new capacitor; by connecting directly to power supply in order to find out if they		is with control board. Pull it out remove and send it to our MOTORLINE site an		4 • If the motors don't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.	
• Motors open but doesn't close.	Unlock motorand move the gate by hand to closed position. Block the motor again and turn off power supply for 5 seconds. Reconnect it and send order to open gate using remote control.	• 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, Pushbutton, Video Intercom, etc.) are stucked and sending permanent signal to control board; 3 • Consult a qualified MOTORLINE technician.	All control boards MOTORLINE have LEDs that easily allow to conclude which devices are with anomalies. All safety devices LEDs (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). If "START" circuits LEDs are turn (Op and CI), there is a control device sending permanent signal. A) SECURITY SYSTEMS: 1 •Close with a shunt all son the control board (che control board in question system starts working no the problematic device. 2 • Remove one shunt at the malfunction device. 3 • Replace it for a function check if the motor works the other devices. If you defective, follow the sam all the problems.		all safety systems theck manual of the ion). If the automated normally check for a. at a time until you find a. ctional device and ks correctly with all ou find another one	NOTE: In case procedures described in sections A) and B) don't result, remove control board and send to our MOTORLINE technical services for		
		• Encountered problems?	• Consult an experienced gates expert.	1 • Check all motion axis and associated motion systems related with the gate and automation (rails, pulleys, bolts, hinges, etc) to find out what is th problem.					oolts, hinges, etc) to find out what is the
Motor doesn't make complete course.	Unlock motor and move gate by hand to check for mechanical problems on the gate.	• 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(s) doesn't work, 	and send to technical send of technical send of the se	from installation site to our MOTORLINE services for diagnosis. From work well and move I force during the entire e problem is with control force using trimmer on Make a new working ramming, giving enough pening and closing with	appropriate force (cons board manual). 5 • If this doesn't work, control board and send MOTORLINE technical s	remove it to	NOTE: Setting force of the control board should be enough 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.).