PORTUGAL

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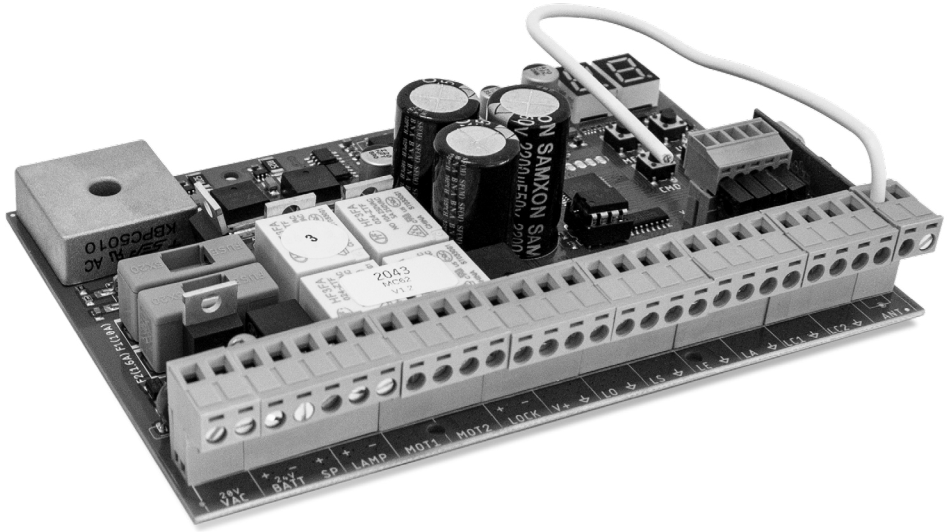
MC62

USER'S AND INSTALLER'S MANUAL



Motorline® PROFESSIONAL

v1.4
REV. 07/2021

00. CONTENT INDEX

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.
 	(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.

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 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.

SYMBOLS LEGEND:


• Important safety notices


• Useful information


• Programming information


• Potentiometer information


• Connectors information


• Buttons information

The MC62 is a control board with built-in radio control system, developed for the automation of 24V swing gates.

• **Power Supply**	20/24V AC
• **Flashing light's output**	24VDC 4W Max.
• **RGB Lightbulb's output**	24Vdc 100mA Máx.
• **Motor's output**	24Vdc 2 x 120W Máx.
• **Auxiliary accessories output**	24V DC 8 W Máx.
• **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) - 100 (pedestrian opening)
• **Control Board Dimensions**	150x100 mm

• CONNECTORS

VAC	**01** • Power Supply Input - 20/24Vac 120W **02** • Power Supply Input - 20/24Vac 120W
BATT	**01** • 24Vdc Input for Emergency Bettery **02** • COM Input (Solar Panel ou Emergency Bettery) **03** • 24Vdc Input for Solar Panel
LAMP	**01** • Flashing light's Output - 24Vdc 4W **02** • Flashing light's Output - 0V
MOT1	**01** • Motor 1 Output - 24Vdc 120W **02** • Motor 1 Output - 24Vdc 120W
MOT2	**01** • Motor 2 Output - 24Vdc 120W **02** • Motor 2 Output - 24Vdc 120W
LOCK	**01** • ElectricLock Output - 12/24Vdc 12W **02** • ElectricLock Output - 0V
V+	**01** • Accessories Output - 24Vdc 8W **02** • Accessories Output - 0V

02. CONTROL BOARD — CHARACTERISTICS

LO	**01** • Full Pulsing Input (NO) **02** • Common
LS	**01** • Pedestrian Pulsing Input (NO) **02** • Common
LE	**01** • Exterior Photocells (NC) **02** • Common
LA	**01** • Interior Photocells (NC) **02** • Common
LC1	**01** • Anti-crushing Photocells (NC) **02** • Common
LC2	**01** • Anti-crushing Photocells (NC) **02** • Common
ANT	**01** • Antenna **02** • GND

02. CONTROL BOARD — RECOMMENDATIONS PRIOR TO PROGRAMMING

To improve the knowledge about the operation of the plant, before setting up, pay particular attention to the following instructions.

LEDs	**LS** • LED On when pedestrian opening is active. **LO** • LED On when full opening is active. **LE** • LED on when the photocell is active or the LE circuit is closed. **LA** • LED on when the photocell is active or the LA circuit is closed. **LC1** • LED on when the circuit LC1 is closed (anti-crushing photocells). **LC2** • LED on when the circuit LC2 is closed (anti-crushing photocells).

03. INSTALLATION — BASE INSTALLATION PROCESS

The installation process assumes that the gate already has mechanical or electrical limit switches installed. For more information read the motor's manual

01 • Connect all accessories according to the connections diagram **(page 22A).**
02 • Connect the control board to a 20V power supply
03 • Check if the gate movement is the same as shown on the display:

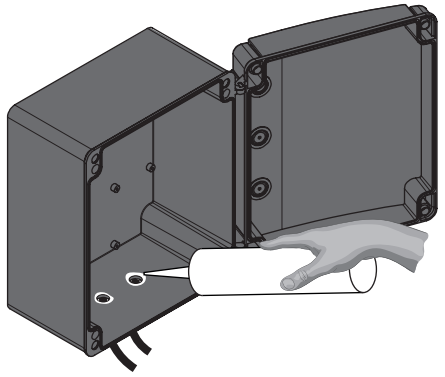
CL	OP
CLOSE	OPEN

If the display does not match the movement of the gate, switch off the power supply center and change the wires of Motor1 (0 and 0) and Motor2 (0 and 0).

04 • Make a course programming - menu **P0** (**page 9A**).
05 • If necessary, adjust the deceleration time of the gate at opening and closing - menu **P1** (**page 10A**).
06 • Adjust the gate force - menu **P2** (**page 10B**).
07 • Re-program the course - menu **P0** (**page 9A**).
08 • Enable or disable the use of Photocells in menu **P5 and P6** (**page 12B and 13A**).
09 • Program a Transmitter (**page 7A**).

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.

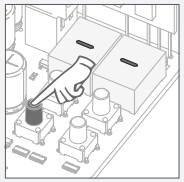
After completing the entire installation of the electrical panel, it is mandatory to seal with silicone all openings in the box (accesses, cable passages and slots) to prevent the entry of moisture and insects that could compromise the normal functioning of the electrical components.



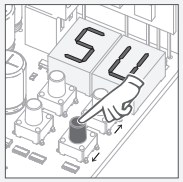
SU Transmitter programming for total opening.

SP Transmitter programming for pedestrian opening.

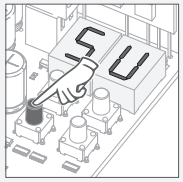
• PROGRAMMING TRANSMITTERS



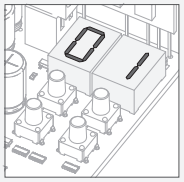
01 • Press the cmd button for 1 sec.



02 • Select the function where you want to program the commands (SU or SP) use ↓↑.



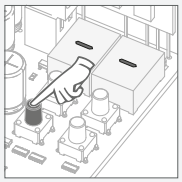
03 • Press cmd once to confirm. (SU or SP).



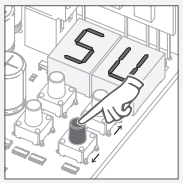
04 • The first free position appears.

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

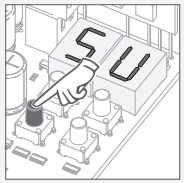
• ERASE TRANSMITTERS



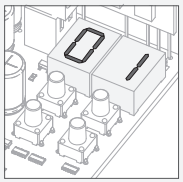
01 • Press the cmd button for 1 sec.



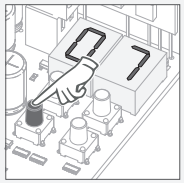
02 • Select (SU or SP) use↓↑.



03 • Press cmd once to confirm. (SU or SP).

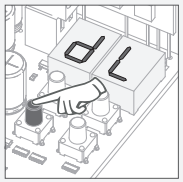


04 • Use ↓↑ to select the transmitter location you want to delete.



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 TRANSMITTERS



01 • Press the cmd button for 5 sec.

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

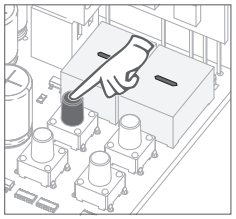
⚠ •Whenever you store or delete a the display will flash and show the next position. You can add or delete commands without needing back to point 01.

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

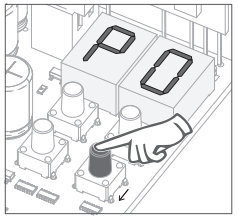
⚠ **We can only go into programming with the gate electrically stumbled.**

The functions of the plant are divided into 2 areas:
- Main Menus "P"
- Extra Menus "E"

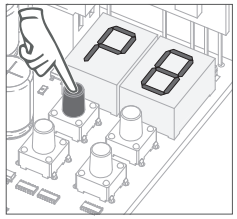
P MENU



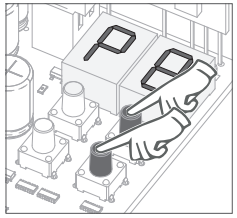
• To access the P menu press the MENU key for 2 sec.



• Use ↓↑ to navigate through the menus.

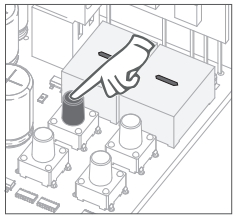


• Press MENU when you want to confirm access to a menu.

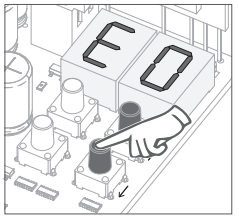


• Press ↓↑ simultaneously to exit programming.

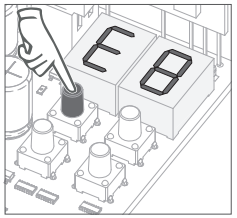
E MENU



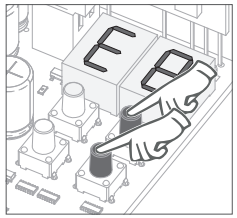
• To access the E menu press the MENU key for 10 sec.



• Use ↓↑ to navigate through the menus.



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



• Press ↓↑ simultaneously to exit programming.

MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE		FACTORY VALUE	PAGE
P0	Course Programming	-	MA Manual Programming		-	9A
			MO 1 motor 2 motors			
P1	Deceleration time adjustment	min. 0s max. 25s	dA Opening deceleration dF Closing deceleration	Leaf 1	3s	9A
			bA Opening deceleration bF Closing deceleration	Leaf 2		
P2	Force adjustment	min. 0 9 max.	FO Force adjustment FS Sensibility adjustment		05	9B
P3	Pedestrian Course time	min. 0s max. 99s	Time setting in pedestrian mode		10s	10A
P4	Pause time and Doors delay	min. 0s max. 4m	AF Full closing pause time adjustment AP Pedestrian lock pause time adjustment		0s	10A
		min. 0s max. 25s	Ac Door delay in closing Ao Door delay in opening		2s	
P5	Photocells 1 programming	-	LE 00 Disables 01 Ative		00	10B
			HC 00 In Opening 01 In Closing		01	
			HL 00 Invert 01 Stop 02 Invert 2 sec. and Stop		00	
			Lc 00 Disables photocells anti-crushing LC1 01 Activates photocells anti-crushing LC1		00	
P6	Photocells 2 programming	-	LA 00 Disables 01 Ative		00	11A
			HC 00 In Opening 01 In Closing		00	
			HL 00 Invert 01 Stop 02 Invert 2 sec. and Stop 03 Invert at close/stop 2sec at opening		01	
			Lc 00 Disables photocells anti-crushing LC2 01 Activates photocells anti-crushing LC2		00	
P7	Operating logic	-	00 Automatic mode function 01 Step by step mode 02 Condominium mode function		01	11A
P8	Flashing light	-	00 Flashing (opening and closing) 01 Step by step mode 02 Courtesy light		00	11B
P9	Remote programming	-	00 Distance PGM OFF 01 Distance PGM ON		00	11B

MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE		FACTORY VALUE	PAGE
E0	Present Man	-	HP 00 Desactivates present man 01 Activates present man		00	12A
			PL 00 Disables push buttons mode 01 Activates push buttons mode		00	
			LS 00 Disables input for emergency stop devices 01 Enables input for emergency stop (NC) devices		00	
E1	Soft start	-	00 Deactivates Soft start 01 Activates Soft start		00	12B
E2	Courtesy light time	min. 0 99 max.	Courtesy light time adjustment		00	12B
E3	Follow me	-	00 Desactivates follow me		00	13A
			01 Follow me it only works when it is open			
			02 Follow me acts when the gate is open and when it is open			
E4	Course time adjustment	min. 1m max. 4m	oM Opening course time (minutes)	Leaf 1	00	13A
		min. 0s max. 59s	oS Opening course time (seconds)		10s	
		min. 1m max. 4m	cM Closing course time (minutes)		00	
		min. 0s max. 59s	cS Closing course time (seconds)		10s	
		min. 1m max. 4m	oM Opening course time (minutes)	Leaf 2	00	
		min. 0s max. 59s	oS Opening course time (seconds)		10s	
		min. 1m max. 4m	cM Closing course time (minutes)		00	
		min. 0s max. 59s	cS Closing course time (seconds)		10s	
E5	Brake/Lock/ Strokes	-	Eb 00 Disables electronic brake 01 Active electronic brake		00	13B
			EL 00 Activates electric lock on opening 2 sec. 01 Activates electric lock whenever moving		00	
			Po 00 Disables opening push 01 Active opening push		00	
			Pc 00 Disables closing push 01 Active closing push		00	
			Pr 00 Motor lock on the deactivated closure 01 Motor lock on activated closure		00	
E6	Deceleration Speed	min. 0 9 max.	Sd Deceleration Speed adjustment		05	13B
E7	Manuevers counter	-	Shows the number of maneuvers		-	14A
E8	Reset - Restore factory settings	-	00 Deactivated 01 Reset activated		00	14B
E9	RGB Output	-	00 Continued output 01 Intermittent output		00	14B

04. PROGRAMMING "P" — P0 COURSE PROGRAMMING

nA	n0
Programmation This menu allows automatic motor and relaxation programming. ⚠ To cancel the programming press the UP and DOWN keys simultaneously. You can use the Controller instead of the MENU key.	**Motors** This menu allows you to program whether the control unit will work with 1 or 2 motors. 01 motor 02 motors (Default value **2**)

DISPLAY INDICATIONS	
	Normal rotation – Leaf 1 in opening programming (normal speed) Slow rotation – Leaf 1 in opening programming (slow down speed)
	Normal rotation – Leaf 2 in opening programming (normal speed) Slow rotation – Leaf 2 in opening programming (slow down speed)
	Normal rotation – Leaf 2 in closing programming (normal speed) Slow rotation – Leaf 2 in closing programming (slow down speed)
	Normal rotation – Leaf 1 in closing programming (normal speed) Slow rotation – Leaf 1 in closing programming (slow down speed)

Manual programming:
01 • Press MENU for 2 sec. until it appears P0.
02 • Press MENU until appears nA.
03 • Press MENU to start programming.

2 MOTORES (nA = 02)	1 MOTOR (nA = 01)
04 • Leaf 1 starts to open automatically. **05** • Press MENU to start the deceleration at the opening of the leaf 1. **06** • Press MENU to finish. **07** • Leaf 2 starts to open automatically. **08** • Press MENU to start the deceleration at the opening of the leaf 2. **09** • Press MENU to finish. **10** • Leaf 2 starts to close automatically. **11** • Press MENU to start the deceleration at the closing of the leaf 2. **12** • Press MENU to finish. **13** • Leaf 1 starts to close automatically. **14** • Press MENU to start the deceleration at the closing of the leaf 1. **15** • Press MENU to finish.	**04** • Leaf 1 starts to open automatically. **05** • Press MENU to start the deceleration at the opening of the leaf 1. **06** • Press MENU to finish. **07** • Leaf 1 starts to close automatically. **08** • Press MENU to start the deceleration at the closing of the leaf 1. **09** • Press MENU to finish.

Note • You can use a programmed remote control instead of the MENU key.

04. PROGRAMMING "P" — P1 DECELERATION TIME ADJUSTMENT

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

dA	dF
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.
bA	bF
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. 05s max. 25s (Default value **3**)	

01 • Press MENU for 2 sec. until it appears P0.
02 • Use UP until appears P1.
03 • Press Menu will appear dA . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P2 FORCE AND SENSIBILITY ADJUSTMENT

⚠ A very low value in this parameter may cause the engine to not have enough torque to move the gate.

F0	FS
Force adjustment Allows you to set the force that is injected into the motor when it moves at normal speed.	**Sensibility adjustment** Allows to adjust the sensitivity of the engine in the presence of obstacles. The higher the sensitivity, the less effort it will take to detect any obstacle and reverse direction.
min. 1 9 max. (Default value **5**)	min. 1 9 max. (Default value **5**)

04. PROGRAMMING "P" — P2 FORCE AND SENSIBILITY ADJUSTMENT

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P2 .
03 • Press Menu will appear F0 .
04 • Press MENU to edit the value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P3 PEDESTRIAN COURSE TIME

The pedestrian mode allows the gate to be opened for the passage of people, without it needing to open in its entirety.
In this function you can schedule the time you want the gate to open.

⚠ **For pedestrian mode to work, it is necessary that the minimum work is 1 second, and 0 disables the pedestrian.**

(Default value **10 secondes**)

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P3 .
03 • Press MENU. The factory set time appears.
04 • Use UP and DW to change the value.
05 • Press MENU to save the new value.

04. PROGRAMMING "P" — P4 PAUSE TIME AND DOORS DELAY

AF	AP	Ac	Ao
Full closing pause time adjustment This menu allows you to set the total opening pause time.	**Pedestrian lock pause time adjustment** Allows you to set the pause time at the pedestrian opening.	**Door delay in closing** Allows you to set the delay time for closing leaf 1 relative to leaf 2.	**Door delay in opening** Allows you to set the delay time for opening leaf 1 relative to leaf 2.
min. 0s 99s max. (Default value **0**)	min. 0s 99s max. (Default value **0**)	min. 0s 25s max. (Default value **2**)	min. 0s 25s max. (Default value **2**)

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

04. PROGRAMMING "P" — P4 PAUSE TIME AND DOORS DELAY

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P4 .
03 • Press Menu will appear AE . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P5 PHOTOCELLS 1 PROGRAMMING

Allows you to program le security behavior (photocell 1).

LE	HC	HL	Lc
00 (off) **01 (active)** Enable or disable security entry.	**00 (opening photocells)** **01 (closing photocells)** Define if this security will act when opening or closing of the gate.	**00 (the gate is reversed)** **01 (gate to and resumes 5 sec after security is disabled)** **02 (gate reverses for 2 sec. and stop)** Allows you to set the behavior that the gate will have when this security is activated.	**00 (disables photocells)** **01 (activates photocells)** Allows you to turn LC1 input on or off (photocell anti-crushing 1)
(Default value **0**)	(Default value **1**)	(Default value **0**)	(Default value **0**)

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

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P5 .
03 • Press Menu will appear AE . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P6 PHOTOCELLS 2 PROGRAMMING

Allows to program le security behavior (photocell 2).

LA	HC	HL	LC
00 (off) **01 (active)** Enable or disable security entry.	**00 (opening photocells)** **01 (closing photocells)** This menu can only be changed when the HE menu is active. Allows you to define whether this security will act on the opening or closing of the gate.	**00 (the gate is reversed)** **01 (gate to and resumes 5 sec after security is disabled)** **02 (gate reverses for 2 sec. and stop)** **03 (the gate reverses at the clasp, stops and reverses 2 sec. at the opening)** Allows to set the behavior that the gate will have when this security is activated.	**00 (disables photocells)** **01 (activates photocells)** Allows you to turn LC2 input on or off (photocell anti-crushing 2)
(Default value **0**)	(Default value **0**)	(Default value **1**)	(Default value **0**)

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

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P5 .
03 • Press MENU will appear HE . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P7 OPERATING LOGIC

This menu allows to set the operating logic of the automation

00	01	02
Automatic Mode **Whenever there is an order the movement is reversed.**	**Step by step mode** **1st impulse - OPEN** **2nd impulse - STOP** **3rd impulse - CLOSED** **4th impulse - STOP** Stopping movement during closing disables automatic closing.	**Condominium Mode** Does not respond to orders during opening and break time.

Default value (**01**)

04. PROGRAMMING "P" — P7 OPERATING LOGIC

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P7 .
03 • Press Menu will appear 00 .
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P8 FLASHING LIGHT

This menu allows to set the operation mode of the flashing light (LAMP).

00	01	02
Intermittent (opening and closing) On opening the flashing is 2 seconds and 1 second on closing.	**In the opening and closing movement,** the flashing light is permanently on.	**Courtesy light** When stopped or closed, remains on for the time set in E2.

Default value (**00**)

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P8 .
03 • Press Menu will appear 00 .
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

04. PROGRAMMING "P" — P9 REMOTE PROGRAMMING

00	01
Distance PGM OFF	**Distance PGM ON**

This menu allows to enable or disable the programming of new commands without directly accessing the central, using a previously stored command (memorize commands page 5B).

Default value (**00**)

04. PROGRAMMING "P" — P9 REMOTE PROGRAMMING

01 • Press MENU for 2 sec. until it appears P0 .
02 • Use UP until appears P9 .
03 • Press Menu will appear 00 .
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

Remote Programming Operation (PGM ON):

• Press the keys 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 command, the control board will exit remote programming. If you want to memorize more commands, you will always have to repeat the process of pressing the command keys simultaneously for 10 seconds for each new command.

05. PROGRAMMING "E" — E0 PRESENT MAN

HA

00 (disables present man)
Whenever a order to ls input and motorperforms a complete manoeuvre.

Man present
01 (active present man)
The motor only works if you keep the LS button pressed.

⚠

With the man present active the RF commands do not work.

PL

00 (disables pushbutton mode)

01 (active pushbutton mode)

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

LS

Allows you to define the way Operation of the LS input

00 (disables input to emergency stop device)

01 (input for emergency stop)

⚠

If you have the LS flyout in 01 (active) and the PL flyout in 01 (active), the error appears BL.

(Default value **00**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Press MENU until it appears HA . Use UP or DW to navigate the parameters.
03 • Press MENU to edit the chosen parameter value.
04 • The factory set time appears. Use UP and DW to change the value.
05 • Press MENU to save the new value.

05. PROGRAMMING "E" — E1 SOFT START

00 off
01 active

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

(Default value **00**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E1 .
03 • Press Menu will appear 00 .
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 "E" — E2 COURTESY LIGHT TIME

Allows to adjust the courtesy light time. The courtesy light is activated the set time when the gate is in the closed, open and standing position.

The E2 menu will only be available in the case of the courtesy to be activated in the P8 menu option 2 (see page 11B)

(Default value **00**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E2 .
03 • Press Menu will appear 00 .
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 "E" — E3 FOLLOW ME

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

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

(Default value **00**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E3 .
03 • Press MENU. The factory set time appears.
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 "E" — E4 COURSE TIME ADJUSTMENT

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

Leaf 1			
o1	o5	c1	c5
Opening stroke time (minutes)	**Opening stroke time (secondes)**	**Closing stroke time (minutes)**	**Closing stroke time (secondes)**
(Default value **0**)	(Default value **10**)	(Default value **0**)	(Default value **10**)
Leaf 2			
o1	o5	c1	c5
Opening stroke time (minutes)	**Opening stroke time (secondes)**	**Closing stroke time (minutes)**	**Closing stroke time (secondes)**
(Default value **0**)	(Default value **10**)	(Default value **0**)	(Default value **10**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E4 .
03 • Press MENU will appear o1 . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E5 BRAKE/LOCK/PUSH

Allows to program gate behavior

Eb	EL	Po	Pc	Pr
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 stroke) 01 (active opening stroke)** Allows you to activate the opening stroke (ram).	**00 (disables closing stroke) 01 (active closing stroke)** Allows you to activate the closing stroke.	**00 (disables engine lock on the closing) 01 (activates motor lock on the closing)** Allows you to activate the locking of the motors in the closed position. **Serves mainly for hydraulic motors.**
(Default value **0**)	(Default value **0**)	(Default value **0**)	(Default value **0**)	(Default value **0**)

01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E5 .
03 • Press MENU will appear Eb . Use UP or DW to navigate the parameters.
04 • Press MENU to edit the chosen parameter value.
05 • The factory set time appears. Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E6 DECELERATION SPEED

This menu allows you to adjust the slowdown speed.

The higher the level, the faster the slowdown.

min. 0 9 max.

(Default value **05**)

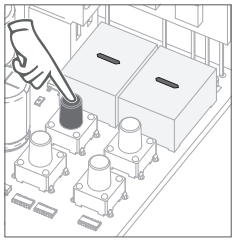
01 • Press MENU for 10 sec. until it appears E0 .
02 • Use UP until appears E6 .
03 • Press MENU will appear Sd .
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

05. PROGRAMMING "E" — E7 MANUEVERS COUNTER

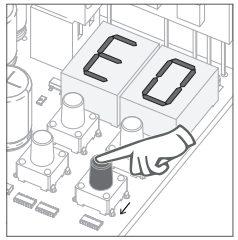
This menu allows you to view the number of maneuvers performed.
(complete maneuver means opening and closing).

⚠ **Resetting the control board does not clear the maneuver count.**

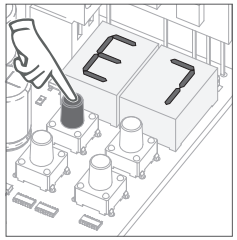
Example: 13456 maneuvers
01- Hundred thousand / 34- Thousands / 56- Dozens



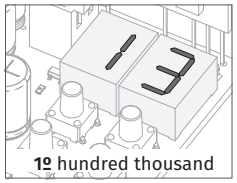
01 • Press MENU for 10 secondes.



02 • E0 appears. Press UP until appears E7.

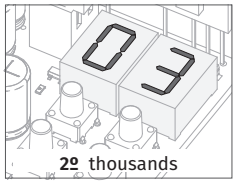


03 • Press MENU.



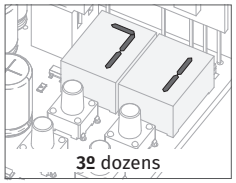
1º hundred thousand

display flashes →



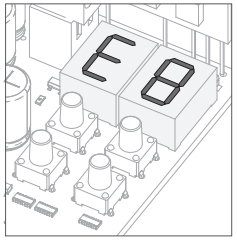
2º thousands

display flashes →



3º dozens

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



05 • E8 appears.

05. PROGRAMMING "E" — E8 RESET - RESET FACTORY VALUES

When you reset, all factory values will be reset and all commands will be erased.

Only the maneuver counter will always have the data stored.

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E8.
03 • Press MENU will appear 00.
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 "E" — E9 RGB OUTPUT

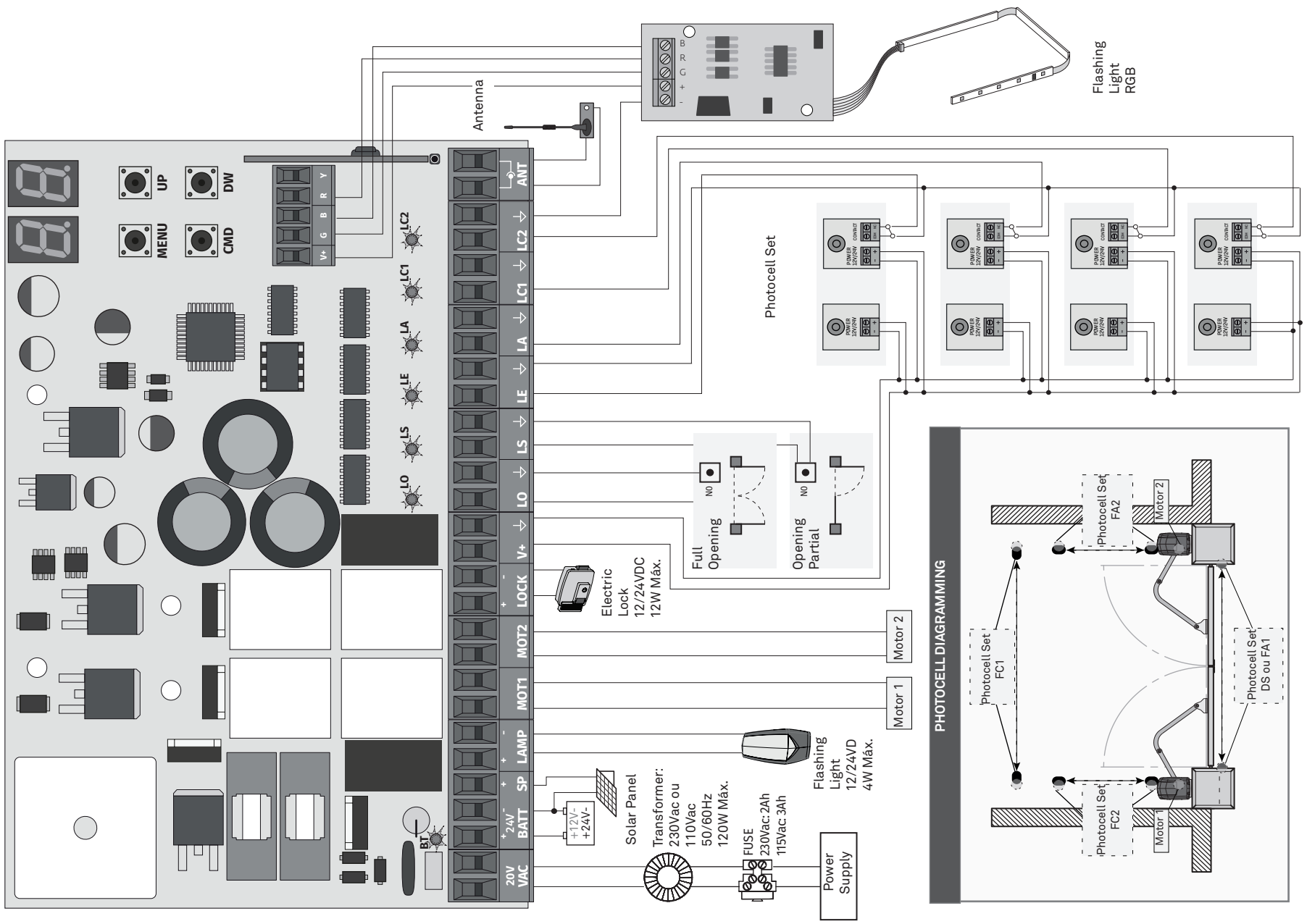
00	01
Continuous light	**Flashing light**

(Default value **00**)

01 • Press MENU for 10 sec. until it appears E0.
02 • Use UP until appears E9.
03 • Press MENU will appear 00.
04 • Press MENU to edit the value.
05 • Use UP and DW to change the value.
06 • Press MENU to save the new value.

MENU	DESCRIPTION	MENU	DESCRIPTION
AA	In the still position, fully open	dL	All commands erased
A-	In the still position, intermediate position	000102	Command triggered from the indicated position
A8	In the still position, fully closed	LE	Obstructed photocell
LO	Full opening button pressed	LA	Obstructed photocell
LS	Pedestrian opening button pressed	AF	In pause time
OP	Central to run the opening course	AP	In time of pedestrian pause
CL	Central to run the closing course	o1	Motor overcurrent detection 1
FO	End of opening course time	o2	Motor overcurrent detection 2
FC	End of closing course time	BL	Emergency stop circuit open. Check that the security is turned on correctly.
LU	Full memory		

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 technician **MOTORLINE.**	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 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.	• Is the gate stuck?	• Consult a qualified gates technician.	1 • Check all motion axis and associated motion systems related with the gate and automatisme (rails, pulleys, bolts, hinges, etc) 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 motors from control board and it them by connecting directly to power supply in order to find out if it has problems (see page 11B). 3 • f the motors work, the problem is from control board. Pull it out and send it to our **MOTORLINE** technical services for diagnosis; 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 motor(s) and move the roller 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 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 Cl), 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 connected to the START 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 **MOTORLINE** technical services for diagnosis.
• Motor doesn't make complete course.	• Unlock motor and move gate by hand to check for mechanical problems on the gate.	• Encountered problems?	• Consult an experienced gates expert.	1 • Check all motion axis and associated motion systems related with the gate and automatisme (rails, pulleys, bolts, hinges, etc) to find out what is the problem.
		• The gate moves easily?	• Consult a qualified technician **MOTORLINE**.	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, 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 suffient time for opening and closing with appropriate force (consult control board manual). 5 • If this doesn't work, remove control board and send it to **MOTORLINE** technical services. **NOTE:** Setting force of the controller should be suficiente 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.).


Antenna
Flashing Light RGB
Photocell Set
UP
DW
MENU
CMD
LC2
LC1
LA
LE
LS
LO
ANT
LC2
LC1
LA
LE
LS
LO
V+
LOCK
MOT2
MOT1
LAMP
SP
BATT
20V VAC
Full Opening
Opening Partial
Electric Lock 12/24VDC 12W Máx.
Motor 2
Motor 1
Flashing Light 12/24VD 4W Máx.
Solar Panel
+12V- +24V-
Transformer: 230Vac ou 110Vac 50/60Hz 120W Máx.
FUSE 230Vac: 2Ah 115Vac 3Ah
Power Supply
PHOTOCELL DIAGRAMMING
Photocell Set FA2
Motor 2
Photocell Set FC1
Photocell Set DS ou FA1
Photocell Set FC2
Motor 1