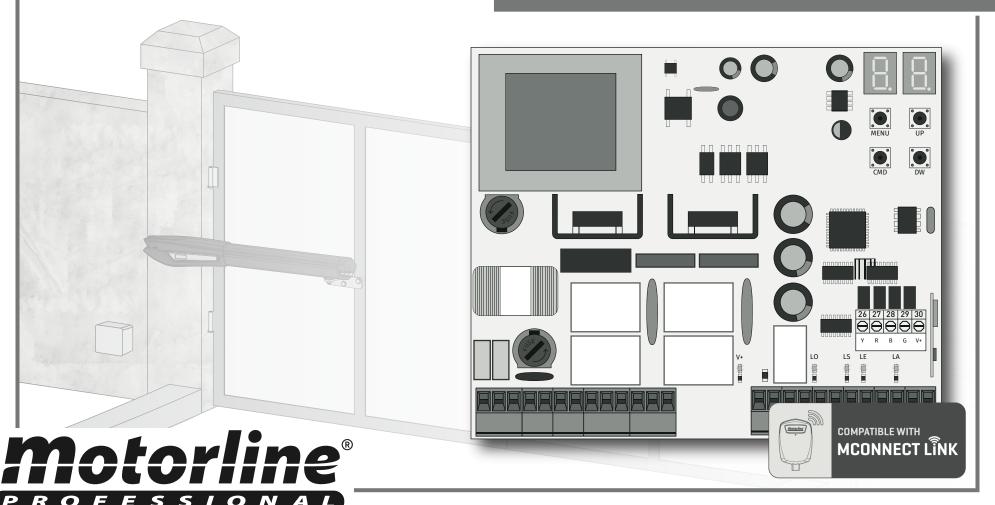






**USER/INSTALLER MANUAL** 



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# 01. SAFETY INSTRUCTIONS

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



This marking indicates that batteries should not be discarded like other household waste at the end of their useful life. Batteries must be delivered to selective collection points for recycling.

not be mixed with other commercial waste.

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



The different types of packaging (cardboard, plastic, etc.) must be subject to selective collection for recycling. Separate packaging and recycle it responsibly.



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. 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.
- If the power cable is damaged, it must be replaced by the manufacturer, after-sales service or similarly qualified personnel to avoid danger.
- The device must be disconnected from the electrical network when removing the battery.
- Ensure that blocking is avoided between the actuated part and its fixed parts due to the opening movement of the actuated part.

### **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 control board 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

# 01. SAFETY INSTRUCTIONS

the power supply cable. Please note that all the cables must enter the control board 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 control board (only at 24V motors).
- Parts/products weighing more than 20 kg must be handled with special care due to the risk of injury. It is recommended to use suitable auxiliary systems for moving or lifting heavy objects.
- Pay special attention to the danger of falling objects or uncontrolled movement of doors/gates during the installation or operation of this product.

## **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



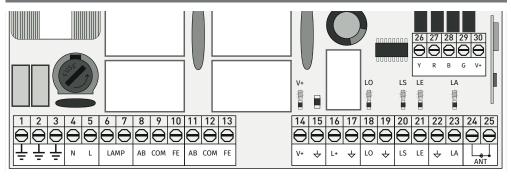
# 02. CONTROL BOARD

#### **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 10	OmA max.
Motor's output	110Vac 60Hz 500W max.	230Vac 50-60Hz 500W max.
Auxiliary accessories output	24Vdc 8	BW max.
• Security and remote controls low voltage	ge 24Vdc	
Working temperature	-25°C t	o +55°C
• Incorporated Radio Receiver	433,9	2 Mhz
• Remote controls	12bits or Rolling Code	
Maximum Memory Capacity	100 (full opening) - 100 (pedestrian opening)	
• Control board Dimensions	125mm x 140mm	

# **LEDs**



LEDs

- **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.

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# 02. CONTROL BOARD

#### **CONNECTORS**

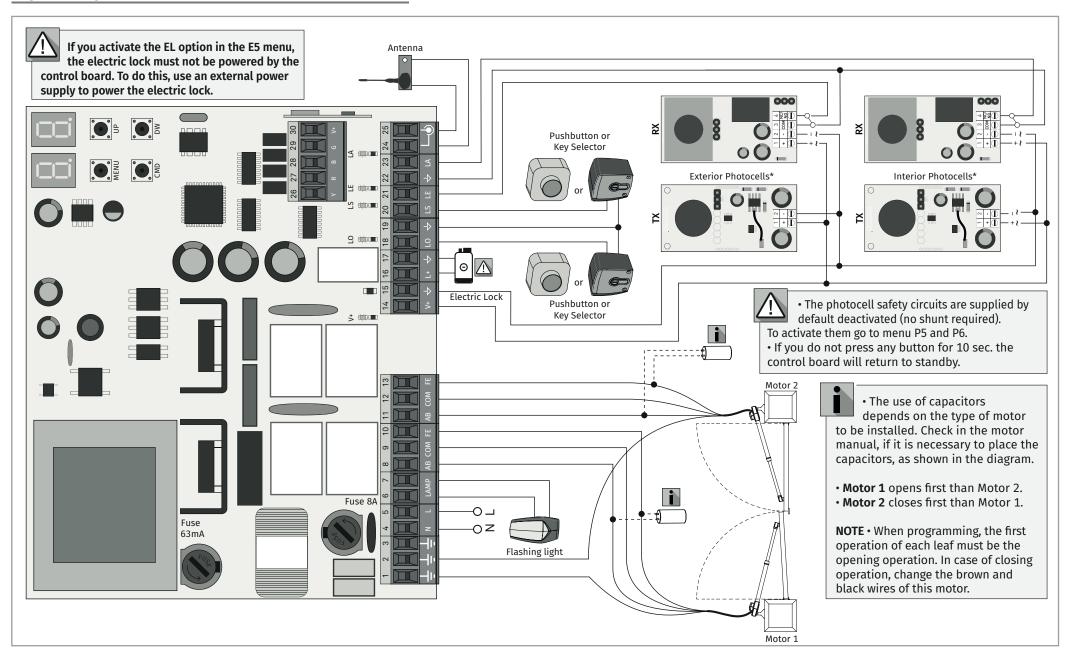


Make sure which version you are using (110Vac or 230Vac).

	<u>-                                      </u>	
	<ul><li>01 • Grounding connection</li><li>02 • Grounding connection</li><li>03 • Grounding connection</li></ul>	
	<b>04 •</b> 110/230Vac (Neutral) (N) line input <b>05 •</b> 110/230Vac (Phase) (L) line input	110/230Vac Power Supply
CN1	<b>06 •</b> Flashing light Output - 110/230Vac 500W <b>07 •</b> Flashing light Output - 110/230Vac 500W	<b>Courtesy light or Flashing light:</b> This output allows the connection of a courtesy light or a Flashing light.
	<b>08</b> • Motor 1 Output - Opening - 110/230Vac 500W <b>09</b> • Motor 1 Output - Common - 110/230Vac 500W <b>10</b> • 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	<ul><li>18 • Total opening Input (NA)</li><li>19 • Common</li><li>20 • Pedestrian opening Input (NA)</li></ul>	<b>Pushbuttons:</b> 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.

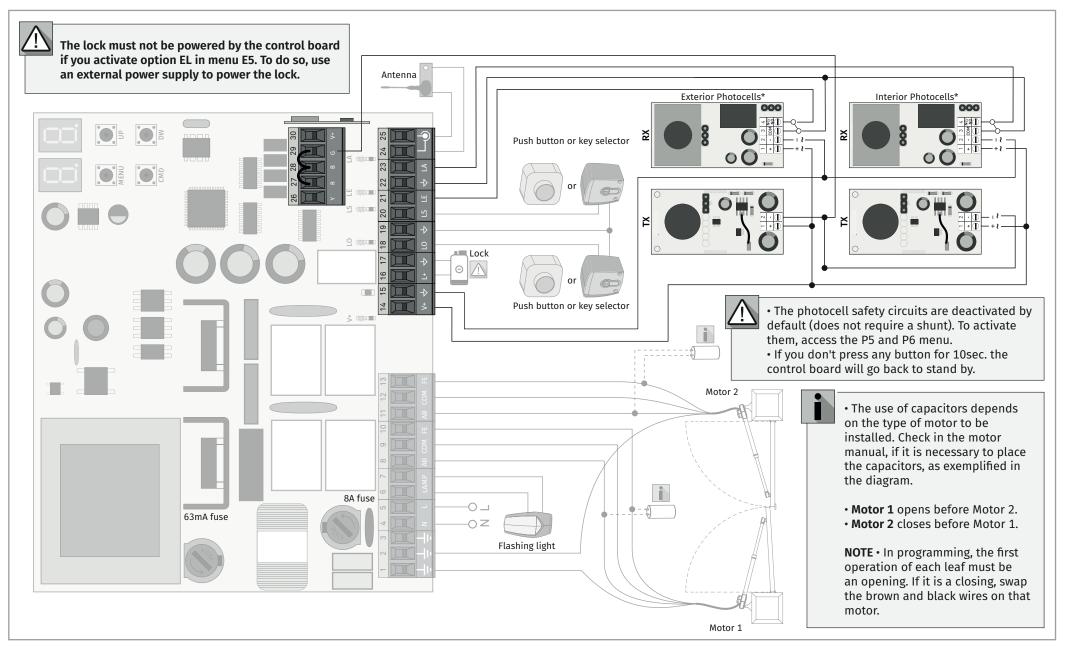
# 03. INSTALLATION

#### **INSTALLATION MAP**



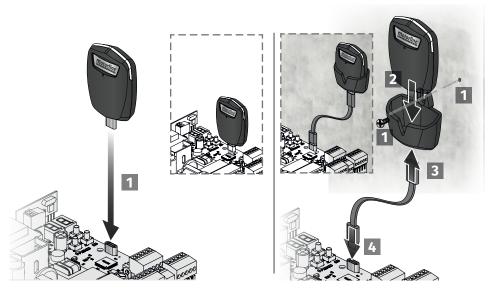
# 03. INSTALLATION

#### **INSTALLATION MAP - SAFETY SELF-TEST**



# 03. INSTALLATION

# **MCONNECT LINK INSTALLATION (OPTIONAL)**



#### **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 (display indications, page 14A).
- 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 9B).
- 06 · Adjust the gate force menu P2 (page 9B).
- 07 Re-program the course menu P0 (page 9A).
- 08 Enable or disable the use of Photocells in menu P5 and P6 (page 10A and 10B).
- **09** Program a remote control (page 7B).

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

5H Remote controls programming for total opening.

58 Remote controls programming for pedestrian opening.

#### PROGRAMMING REMOTE CONTROL



01 · Press the cmd button for 3 sec.



02 · Select (SU) using  $\uparrow \downarrow$ .



04 · The first free

position appears.



01 · Press the

3 sec.

cmd button for

03 · Press cmd



02 · Select (SU) using ↑ ↓.



ERASE REMOTE CONTROL

once to confirm.



**04** • Use ↓ ↑ to select the remote control 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.



03 • Press cmd

once to confirm.

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

#### 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  $\downarrow \uparrow$  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
88	Course programming	-	-	#####################################	- 02	9A
88	Slowdown time adjustment	0s	25s	88 Slowdown in opening (leaf 1) 88 Slowdown in closing (leaf 1) 88 Slowdown in opening (leaf 2) 88 Slowdown in closing (leaf 2)	03	9В
88	Force adjustment	0	9	FB Force Adjustment	04	9В
88	Pedestrian course time	0s	99s	Pedestrian course time adjustment	10	9B
		0s	99s	8F Total pause time	00	
QQ	Pause time and gate delay	0s	99s	88 Pedestrian pause time	00	10A
	rause time and gate actay	0s	25s	88 Gate delay in opening	02	2071
		0s	25s	AE Gate delay in closing	02	
		0	1	88 Disable 88 Active	00	
00	Photocell 1 programming	0	1	88 In opening 88 In closing	01	
ab		0	2	88 Reverses 88 88 Stops 82 Reverse 2 sec. and stops	00	10A
		0	1	58 Disable photocell test	00	
		0	1	ER 00 Disable 01 Active	00	
	Photocell 2 programming	0	1	BB In opening BB In closing	00	
88		0	2	80 Reverses 80 Stops 82 Reverse 2 sec. and stops 83 Stop, continue if you remove the obstacle	01	10B
		0	1	58 00 Disable photocell test	00	
				88 Automatic mode		
88	Operating logic	0	2	$\theta\theta$ Step by step mode	00	11A
				82 Condominium mode		
				00 Flashing (opening and closing)		
28	Flashing light	0	2	88 Step by step mode		11A
				<b>∂∂</b> Courtesy light		
00	00		1	$\theta\theta$ Distance PGM OFF	00	11B
	Distance programming	0	1	88 Distance PGM ON	00	110

# **Motorline**®

# 04. PROGRAMMING

# **E MENUS**

MENU	FUNCTION	MIN.	MAX.	STATE	FATORY VALUE	PAGE.	
88	Human presence	0	1	HP 80 Deactivates Human presence 01 Activates Human presence PU 80 Disables push buttons mode 01 Activates push buttons mode	00	11B	
88	Soft start	0	1	BB Deactivates Soft start BB Activates Soft start	00	12A	
88	Courtesy light time / Pre-flashing light	0	99	LE Adjust courtesy light time (minutes) PP Adjust pre-flashing light time (seconds)	00	12A	
8.8	Follow me	-	-	<ul> <li>BB Deactivates follow me</li> <li>BB Follow me does not act when the gate is opening. It only works when it is open.</li> <li>BB Follow me acts when the gate is open and when it is open.</li> </ul>	00	12A	
		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		
88	Course time	0s	59s	Closing course time (seconds) - Leaf 1	30	420	
	adjustment	0m	3m	Opening course time (minutes) - Leaf 2	00	12B	
		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		
88	Brake/Lock/Strokes	0	1	## 88 Disables electronic brake ## 88 Active electronic brake ## 88 Activates electric lock on opening 2 sec. ## 88 Activates electric lock whenever moving ## 88 Disables opening push ## 88 Disables closing push ## 88 Active closing push ## 88 Active closing push	00	12B	
88	Deceleration Speed	0	9	Deceleration Speed adjustment	05	13A	
88	Manuevers counter	-	-	Shows the number of maneuvers	-	13A	
88	Reset - Restore factory settings	0	1	88 Deactivated 84 Reset activated	00	13B	
88	RGB Output		- $\frac{\partial \theta}{\partial \theta}$ Continued output - $\frac{\partial \theta}{\partial \theta}$ Intermittent output		00	13B	
	REMOTE CONTROL						
<b>5</b> Remote control programming for total opening.					7B		
88	<b>5</b> Remote control programming for pedestrian opening.				7B		

# $P \mathcal{U}$ 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)		
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)		
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 ( $\bar{\alpha}B=BZ$ )	1 MOTOR (PEDESTRIAN) ( $\tilde{\alpha}\theta$ = $\tilde{u}$ $i$ )
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.	<ul> <li>04 • Press MENU to start the opening slowdown of the leaf.</li> <li>05 • Press MENU to stop the leaf and start programming the closing time.</li> <li>06 • Press MENU to start the closing slowdown of the leaf.</li> <li>07 • Press MENU once to display n̄ 0, leaf 1 stops.</li> <li>08 • Use UP and DW to display T to exit programming mode.</li> <li>09 • Use UP and DW to stay in Standby.</li> </ul>



You can use the remote instead of the MENU button. Whenever a leaf touches a stopper, 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.

- **01** Press MENU for 2 sec. until it appears ₱①.
- **02** Use UP until appears ₽₽.
- $03 \cdot \text{Press Menu will appear } BB$ . 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 ₱□.
- **02** Use UP until appears BB.
- **03** Press Menu will appear *E ⊞* .
- 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.

### **05. PROGRAMMING "P"**

### PEDESTRIAN COURSE TIME

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 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.



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

88	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 <b>0</b> )	min. 0s 1995 max. (Default value 0)	min. 05 11 (255) max. (Default value 2)	min. 05 max. (Default value 2)

- **01** Press MENU for 2 sec. until it appears *PD*.
- **02** Use UP until appears BB.
- **03** 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.

# 05. PROGRAMMING "P"

# **P5** PHOTOCELLS 1 PROGRAMMING

88	88	88	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.	00 (disables Photocell test) 01 (enables Photocell test) Allows you to enable or disable the safety self-test function.
		(Default value 0)	

- **01 ·** Press MENU for 2 sec. until it appears ₱0.
- **02** Use UP until appears *BS*.
- **03** Press Menu will appear  $\mathcal{E}\mathcal{E}$ . 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	8.8
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) 03 (the gate stops when there is an obstacle between the photocells, continuing the movement as soon as the obstacle is removed)  Define the behavior that the gate will have when this security is activated.	00 (disables Photocell test) 01 (enables Photocell test) Allows you to enable or disable the safety self-test function.
		(Default value <b>0</b> )	

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

**02** • Use UP until appears *BS*.

**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.



It is recommended to activate the Photocells test before starting operation. This test makes it possible to protect the movement of the gate in case of any failure of the Photocells.

#### 05. PROGRAMMING "P"

# **OPERATING LOGIC**

This menu allows to set the operating logic of the automation.							
88	88	88					
Automatic Mode  Whenever there is an order the movement is reversed.	1st impulse - OPEN enever there is an order the 2nd impulse - STOP						
	(Default value <b>00</b> )						

- **01 •** Press MENU for 2 sec. until it appears ₱①.
- **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"**

**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 During the opening/closing movement of the gate, 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**

# AP

#### 00 (deactivate) 01 (active)

Enable or disable human presence.

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

# 21

#### 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  $\mathcal{E}\mathcal{E}$ .
- **02** Press Menu will appear HB. 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  $\mathcal{E}\theta$ .
- **02** Use UP until appears  $\mathcal{E}\mathcal{B}$ .
- **03** Press Menu will appear  $\theta\theta$ .
- 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"





To adjust the courtesy light time (Lt) it is necessary to select option 2 in P8.

Allows you to adjust the courtesy light time for closed, open and stopped gates.	Allows you to adjust the gate movement signaling time before it starts.		
88	88		
Opening course time (minutes)	Closing course time (seconds)		
(Default value 0)	(Dofault value 0)		

- **01** Press MENU for 10 sec. until it appears  $\mathcal{E}\theta$ .
- **02** Use UP until appears  $\mathcal{B}\mathcal{B}$ .
- **03** Press Menu will appear  $\theta\theta$ . Use UP or DW to navigate parameters.
- 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| 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  $\mathcal{B}\mathcal{B}$ .
- **02** Use UP until appears  $\mathcal{E}\mathcal{B}$ .
- **03** Press Menu will appear  $\theta\theta$ .
- **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"

# **E** 4 COURSE TIME ADJUSTMENT

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

it allows to adjust the working time for the opening and closing courses of the two lears.							
Leaf 1							
88	88	88	88				
Opening course time (minutes)	Opening course time (seconds)	Closing course time (minutes)	Closing course time (seconds)				
(Default value <b>0</b> )	(Default value <b>15</b> )	(Default value <b>0</b> )	(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 <b>0</b> )	(Default value 15)	(Default value <b>0</b> )	(Default value <b>15</b> )				

- 01 Press MENU for 10 sec. until it appears ∏ .
- **02** Use UP until appears BB.
- **03** Press Menu will appear  $2\overline{\partial}$ . 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	<i>8.8</i> .	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 <b>0</b> )	(Default value <b>0</b> )	(Default value <b>0</b> )	(Default value 0)		

#### **06. PROGRAMMING "E"**

# E5 BRAKE/LOCK/PUSH

- 01 Press MENU for 10 sec. until it appears ₽₽.
- **02** Use UP until appears EE .
- **03** Press Menu will appear 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.

#### **06. PROGRAMMING "E"**

# **E B** 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.

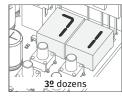
#### 06. PROGRAMMING "E"

# E 7 MANUEVERS COUNTER

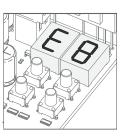








**04** • The maneuvers count is displayed in the following order (example: 130 371):



**05** • E8 appears.

#### 06. PROGRAMMING "E"

# FR 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 88 .
- **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 G 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 BB.
- **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.

# 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			
88	CONTROL BOARD PERFOMS CLOSING COURSE			
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			
88	OBSTRUCTED PHOTOCELL			
88	OBSTRUCTED PHOTOCELL			
88	IN PAUSE TIME			
88	IN PEDESTRIAN PAUSE TIME			
8.8	IN PRE-FLASHING LIGHT 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.

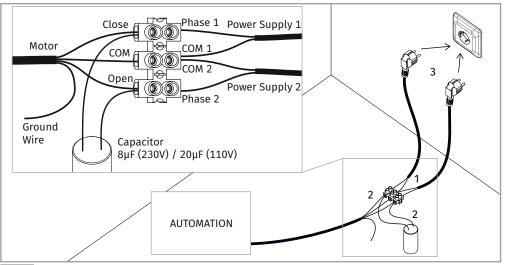
For this, it's necessary to interpose a capacitor on the connection so that the motor can work (check the capacitor type to be used in the product's manual). In the below diagram is shown how this connection must be made and how to merge the different component wires.

#### 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.	<ul><li>1 • Open control box and check if it has 230V power supply;</li><li>2 • Check input fuses;</li></ul>	control board and test them by pro connecting directly to power Pul supply in order to find out if they MO		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 is 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 is with contract supply in order to find out if they and send it to		3 • If the motors work, t is with control board. Pr and send it to our MOTO technical services for d	Pull it out remove them from installation ORLINE site and send to our MOTORLINE		
Motors open but doesn't close.	Unlock motor and 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 Cl), there is a control device sending permanent signal.  4) SECURITY SYSTEMS:  1 •Close with a shunt all safety on the control board (check in control board in question). If it systems starts working normative problematic device.  2 • Remove one shunt at a time the malfunction device.  3 • Replace it for a functional check if the motor works correctly the other devices. If you find defective, follow the same stall 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	1 • Discon START cor 2 • If the L device at a device. NOTE: In case pr and B) dor	ED turned OFF, try reconnecting one a time until you find the defective ocedures described in sections A) o't result, remove control board and ur 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 the 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.	<ul> <li>1 • Check capacitors, testing with new capacitors;</li> <li>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;</li> <li>3 • If the motor(s) doesn't work,</li> </ul>	and send to technical send of the send of	from installation site to our MOTORLINE services for diagnosis. or work well and move I force during the entire e problem is with control t force using trimmer on I. 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.).