



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
<u>E MENUS</u>	7В
05. PROGRAMMING "P"	
РО	8A
P1 - P2	8B
P3 - P4	9A
<u>P5 - P6</u>	9B
<u>P7 - P8</u>	10A
P9	10B
06. PROGRAMMING "E"	
<u>E0</u>	10B
E1 - E2 - E3	11A
E4 - E5	118
E6 - E7	 12A
E8 - E9	128
07. DISPLAY	
DISPLAY INDICATIONS	13A
08. COMPONENTS TEST	
MOTOR 230V/110V	13B
09. TROUBLESHOOTING	

FINAL CONSUMERS INSTRUCTIONS AND SPECIALIZED INSTALLERS

01. SAFETY INSTRUCTIONS

ATTENTION:

X

23

14

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.

MOTORLINE ELECTROCELOS SA.

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

SYMBOLS LEGEND:





notices Useful information

Programming

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	0mA 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	433,9	2 Mhz
OP Remote controls	12bits or Rolling Code	
Maximum Memory Capacity	100 (full opening) - 100 (pedestrian opening)	
Control board Dimensions	125mm x 140mm	

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 \downarrow LE circuit is closed.

Motorline

LEDS

02. CONTROL BOARD

CONNECTORS

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

CN1	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
	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 supply15 • 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 • Common 20 • 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.



4A

EN



03. INSTALLATION

INSTALLATION MAP



Motorline[®]

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 PO (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 P0 (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

 ${f S}{m B}$ Remote controls programming for total opening.

 $\mathbf{92}$ Remote controls programming for pedestrian opening.

PROGRAMMING REMOTE CONTROL



01 • Press the

3 sec.

cmd button for



using $\uparrow \downarrow$.

ERASE REMOTE CONTROL



3 sec.



02 · Select (SU) 01 • Press the cmd button for using $\uparrow \downarrow$.





03 • Press cmd once to confirm.













05 • Press cmd for 3 sec and the location will be empty. The display will blink and the position will be free.

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

04 • The first free

position appears.

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.











ΕN

03 • Press cmd once to confirm.





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 $\downarrow \uparrow$ simultaneously to exit programming.

MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE	FACTORY VALUE	PAGE
P0	Course Programming	-	77 Manual Programming 770 0 / 1 motor 02 2 motors	-	8A
88	Deceleration time adjustment	min. (1) (26) max.	dR Opening deceleration (Leaf 1) dF Closing deceleration (Leaf 1) bR Opening deceleration (Leaf 2) bF Closing deceleration (Leaf 2)	03	88
29	Force adjustment	min. 0 1 9 max.	F① Force adjustment	04	8B
88	Pedestrian Course time	min. (15) max.	Time adjustment in pedestrian course	10	8B
		min.	RF Total pause time	00	
Qų	Pause time and gates delay	min. (15) max.	<i>RP</i> Pedestrian pause time	00	8B
	Tause time and gates delay	min. to max.	$\mathcal{R}_{\mathcal{D}}$ Opening gates delay	02	02
		min. to max.	R _C Closing gates delay	02	
		min. 0 1 max.	$EE \frac{DD}{DH} \frac{D}{Active}$	00	
89	Photocells 1 programming	min. 1 max.	$HE egin{array}{ccc} eta & D & D \ B & D & D \ D & D & D \end{array}$ In Closing	01	9A
		min. 0 2 max.	00 Invert HE 07 Stop 02 Invert 2 sec. and Stop	00	
		min	LR 00 Disables 01 Active	00	
26	Photocells 2 programming	min. 0 1 max.	HC 00 In Opening 0 I In Closing	00	9A
		min. 0 1 2 max.	DO Invert HL O I Stop DO Invert 2 sec. and Stop	01	
83	Operating logic	min. ⁰ 2 max.	00 Automatic mode function	00	9B
	Operating togic	min. Marka max.	<i>B2</i> Condominium mode function	00	00
00			III Flashing (opening and closing)		
<i>P8</i>	Flashing light	min. 0 2 max.	<i>O</i> I Step by step mode function<i>O</i> Courtesy light	00	9B
ρq	Remote programming	min. 1 max.	00 Distance PGM OFF	00	9B
, _,	orline	mux	D 7 Distance PGM ON	7 A	EN

04. PROGRAMMING

E MENUS

MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE	FACTORY VALUE	PAGE
E0	Human presence	Human presence min. max. HP 00 Deactivates Human presence		00	10A
		IIIII ///// IIIdX.	PL 00 Disables push buttons mode 0 I Activates push buttons mode		
BB	Soft start	min. 1 max.	D Deactivates Soft start D Activates Soft start	00	10A
53	Courtesy light time	min. max.	Courtesy light time adjustment (minutes)	00	10A
			Deactivates follow me		
<i>FR</i>	Follow me	-	$\ensuremath{\iint}$ Follow me does not act when the gate is opening. It only works when it is open.	00	10.4
			$\int \!$	00	10A
		min. min. max.	on Opening course time (minutes) - Leaf 1	00	
		min.	°5 Opening course time (seconds) - Leaf 1	30	
		min. min. max.	C,, Closing course time (minutes) - Leaf 1	00	
сu		min. () max.	^C 5 Closing course time (seconds) - Leaf 1	30	405
EЧ	Course time adjustment	min. min. max.	$\sigma \overline{n}$ Opening course time (minutes) - Leaf 2	00	10E
		min. the max.	o 5 Opening course time (seconds) - Leaf 2	30	
		min. min.	c Closing course time (minutes) - Leaf 2	00	00
		min. 05 max.	c 5 Closing course time (seconds) - Leaf 2	30	
	Brake/Lock/Strokes	min. 0	$EB \begin{bmatrix} DD \\ D\end{bmatrix}$ Disables electronic brake D Active electronic brake		10B
88			$E = \begin{bmatrix} BB \\ B \end{bmatrix}$ Activates electric lock on opening 2 sec. $B = \begin{bmatrix} BB \\ B \end{bmatrix}$ Activates electric lock whenever moving	00	
			$\mathcal{L}_{\overline{o}} \left(\begin{matrix} \partial \theta \\ \partial \theta \end{matrix} ight)$ Disables opening push $\partial \theta $ Active opening push		
			$\mathcal{P}_{\mathcal{C}} \begin{bmatrix} \partial \theta \\ \partial \theta \end{bmatrix}$ Disables closing push Active closing push		
<i>E6</i>	Deceleration Speed	min. 🕛 📶 🤋 max.	Deceleration Speed adjustment	05	10E
87	Manuevers counter	-	Shows the number of maneuvers	-	10E
50	Reset - Restore factory		[][] Deactivated	00	11A
60	settings	min. 1 max.	[] / Reset activated	00	114
88	RGB Output	-	00 Continued output 01 Intermittent output	00	11A
		REMOT	E CONTROL		
58	Remote control program				6B
SP	Remote control program	nming for pedestrian o	opening.		6B
EN 7	В		<u>n</u>	lotor	lin

You can use the remote instead of the MENU button. Whenever a leaf touches a stop, wait 1 second before clicking on the MENU. To exit the programming menus, press the UP and DOWN button simultaneously.

88	ā0
Manual Course 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
₿8	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)
84	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)

Manual programming 2 arms:

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

- **02** Press MENU once until **a** appears.
- 03 Press MENU (or remote control) to start programming the opening time of leaf 1.
- **04** Press MENU to start the opening slowdown of leaf 1. Repeat these two steps (03 and 04) for leaf 2.
- 05 Press MENU to start programming the closing time of leaf 2.
- **06** Press MENU to start the closing slowdown of leaf 2. Repeat these two steps (05 and 06) for leaf 1.
- **07** Press MENU once to display BB, leaf 1 stops.
- **08** Use UP and DW to display $\hat{B}B$ to exit programming mode.
- **09** Use UP and DW to stay in Standby.

DIRECTION OF DISPLAY ROTATION	COURSE PROGRAMMING OF ONE MOTOR (PEDESTRIAN)
<i>‡8</i>	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)
$\ddagger B$	Slow rotation - the leaf goes into closing slowdown (slowdown speed)

05. PROGRAMMING "P" |PD| COURSE PROGRAMMING

Manual programming 1 arm:

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

- **02** Press MENU once until \overline{aB} appears.
- 03 Press MENU (or remote control) to start programming the opening time of leaf.
- 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 $\overline{B}\overline{B}$, leaf 1 stops.
- **08** Use UP and DW to display $\hat{E}B$ to exit programming mode.
- **09** Use UP and DW to stay in Standby.

05. PROGRAMMING "P" |P|l 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	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.	
<i>68</i>	ЬF	
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. 🚳 📶 🚳 max. (Default value 3)		
01 • Press MENU for 2 sec. until it appears <i>P</i> [].		

02 • Use UP until appears <u>8</u> · .

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 factory set time appears. Use UP and DW to change the value. **06** • Press MENU to save the new value.

P2 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 BB .

05. PROGRAMMING "P"

- **03** Press Menu will appear *E* **(**).
- 04 Press MENU to edit value.

8B

ΕN

- 05 The factory set time appears. Use UP and DW to change the value.
- **06** Press MENU to save the new value.





05. PROGRAMMING "P" | *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 PO
- **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.

05. PROGRAMMING "P" PUSE TIME AND GATES DELAY

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

88	<i>RP</i>	82	Ro
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. (Default value 0)	min. (Default value 2)	(Default value 2)

- 01 Press MENU for 2 sec. until it appears PG
- **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 factory set time appears. Use UP and DW to change the value.

06 • Press MENU to save the new value.

05. PROGRAMMING "P" $P \subseteq$ PHOTOCELLS 1 PROGRAMMING

88	ΗĽ	BE		
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** \cdot Use UP until appears BS.
- **03** Press Menu will appear *EE*. 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 "P	" <i>Р<u>Б</u> рнотосеlls 21</i>	PROGRAMMING
8	Нſ	HE
00 (deactivate)	00 (photocells in opening)	00 (the movement of the gate is
01 (active) Enable or disable security.	01 (photocells in closing) Define if this security will act on opening or closing.	of (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** \cdot Use UP until appears BS .
- 03 Press Menu will appear AB. 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 "P" $|P_{1}|$ OPERATING LOGIC



- **02** Use UP until appears *P* · .
- **03** Press Menu will appear AA.
- **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" PB FLA

 \mathcal{PB} flashing light

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

88	0 /	88		
Flashing (opening and closing) During the opening/closing movement of the gate, the flash- ing 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 PB. 03 • Press Menu will appear DD. 04 • Press MENU to edit the value. 				

05 • Use UP and DW to change the value.

06 • Press MENU to save the new value.

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 #9.
02 • Use UP until appears #0.
03 • Press Menu will appear #0.
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):

RP

00 (deactivate)

01 (active)

Enable or disable human presence.

Note • With active human presence RF remote



controls do not work.

• 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"

E E HUMAN PRESENCE

PI 00 (deactivate) 01 (active) Allows you to activate or deactivate the pushbutton mode. LS LO 01 Full Full opening ACTIVE closning Pedestrian Total DEACTIVATE maneuvers maneuvers

(Default value **00**)

- **01** Press MENU for 10 sec. until it appears *EB*.
- **02** Press Menu will appear \underline{BB} . 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.



10A EN





06. PROGRAMMING "E" |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 $\mathcal{B}\mathcal{B}$.
- **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" $[\mathcal{E}, \mathcal{C}]$ 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 **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.

06. PROGRAMMING "E" $\begin{bmatrix} \mathcal{E} & \mathcal{J} \end{bmatrix}$ 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 BB.
- **02** Use UP until appears **EB** .
- **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 H course time adjustment

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

Leaf 1				
88	٥٢	88	c 5	
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	o 5	88	c 5	
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 🕮. 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.

06. PROGRAMMING "E" | E 5 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.

88	EL	88	ρ _c
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)



EN 11B



BRAKE/LOCK/PUSH **06. PROGRAMMING "E"**

- **01** Press MENU for 10 sec. until it appears AB.
- **02** \cdot Use UP until appears ES.
- **03** Press Menu will appear \underline{B} . 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.

06. PROGRAMMING "E"

FF 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 **E**.
- **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"

MANUEVERS COUNTER

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

A 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.

MANUEVERS COUNTER 06. PROGRAMMING "E"



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



FB reset - reset factory values 06. PROGRAMMING "E"

This menu allows you to reset to factory defaults. The default value is 0 (deactivated).

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

arepsilon Q**06. PROGRAMMING "E" 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 **EB**.
- **02** \cdot Use UP until appears BB.
- **03** Press Menu will appear **AA**.
- 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

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





EN

13B

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

Motorline



13A

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.	it has 230V power supply; cor cor 2 • Check input fuses; sup	Disconnect motors from ntrol board and test them by nnecting directly to power pply in order to find out if they ve problems (see page 11B).	4 • If the motors work, th problem is on the contro Pull it out and send it to MOTORLINE technical se for diagnosis;	ol board. remove them from installation our site and send to our MOTORLINE
• 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.			
doesn't move but makes noise.	and move the gate by hand to check for mechanical problems on the movement.	for mechanical problems on the • The gate moves • Consult a qualified • Consult a dualified • Consult a dualif		connecting directly to power pply in order to find out if they	3 • If the motors work, th is with control board. Pul and send it to our MOTOF technical services for dia	Il it out remove them from installation RLINE site and send to our MOTORLINE	
• 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.	 Check if there is any obstacle in front of the photocells; Check if any of the control devices (Key Selector, Pushbutton, Video Intercom, etc.) are stucked and sending permanent signal to control board; Consult a qualified MOTORLINE technician. 	All control boards MOTORLINE have LEDs easily allow to conclude which devices at with anomalies. All safety devices LEDs (in normal situations remain On. All "STAF circuits LEDs in normal situations remair If LEDs devices are not all On, there is so security systems malfunction (photocells safety edges). If "START" circuits LEDs ar (Op and Cl), there is a control device sence permanent signal.	re (Le) 1 •Close with a shunt a on the control board (c n Off. control board in questi system starts working s, the problematic device re turn ding 2 • Remove one shunt a the malfunction device 3 • Replace it for a func check if the motor wor the other devices. If yo	Il safety systems heck manual of the on). If the automated normally check for s. at a time until you find s. ctional device and ks correctly with all u find another one	 B) START SYSTEMS: 1 • Disconnect all wires connected to the START connector. 2 • If the LED turned OFF, try reconnecting on 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.
		• Encountered problems?	• Consult an experienced gates expert.	1 • Check all motion axis and associated problem.	motion systems related with the	gate and automation (rails	s, pulleys, bolts, hinges, etc) to find out what is
• 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.	new capacitors; and tec 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; the time	nove it from installation site d send to our MOTORLINE chnical services for diagnosis. If motor work well and move te at full force during the entire urse, the problem is with control ard. Set force using trimmer on e board. Make a new working ne programming, giving enough ne for opening and closing with	appropriate force (consu board manual). 5 • If this doesn't work, rr control board and send it MOTORLINE technical se	Setting force of the control board should be enough to make the gai remove open and close without stopping, t to but should stop and invert with