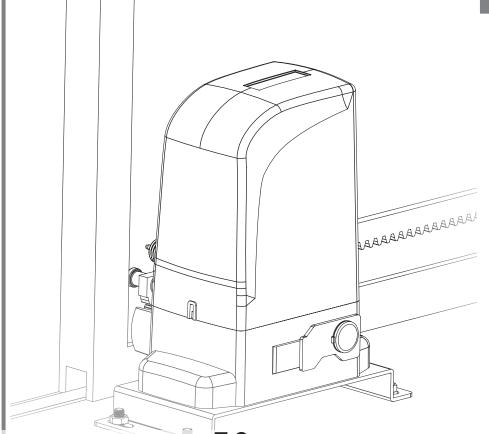
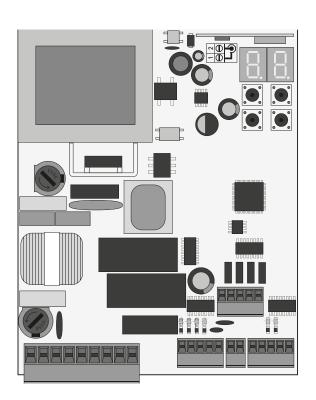




USER/INSTALLER MANUAL





Motorine®

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ATTENTION:



This product is certified in accordance with European Community (EC) safety standards.

RoHS

This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



(Applicable in countries with recycling systems).

This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting from the uncontrolled disposal of waste, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Home users should contact the dealer where they purchased this product or the National Environment Agency for details on where and how they can take these items for environmentally safe recycling. Business users should contact their vendor and check the terms and conditions of the purchase agreement. This product and its electronic accessories should not be mixed with other commercial waste.



This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

- It is important for your safety that these instructions are followed.
- Keep these instructions in a safe place for future reference.
- The **ELECTROCELOS S.A.** is not responsible for the improper use of the product, or other use than that for which it was designed.
- The **ELECTROCELOS S.A.** is not responsible if safety standards were not taken into account when installing the equipment, or for any deformation that may occur.
- The **ELECTROCELOS S.A.** is not responsible for insecurity and malfunction of the product when used with components that were not sold by the them.
- This product was designed and manufactured strictly for the use indicated in this manual.
- This control board is not appropriate for inflammable or explosive environments.
- Any other use not expressly indicated may damage the product and/or can cause physical and property damages, and will void the warranty.
- Do not make any changes to the automation components and/or their accessories.
- Control board for indoor use with 230V connection.
- Keep remote controls away from children, to prevent the automated system from being activated involuntarily.
- The customer shall not, under any circumstances, attempt to repair or tune the automatism. Must call qualified technician only.
- The installer must have certified professional knowledge at the level of mechanical assemblies in doors and gates and control board programmation. He should also be able to perform electrical connections in compliance with all applicable regulations.
- The installer should inform the customer how to handle the product in an emergency and provide him the manual.

The MC50SC is a monophasic control board com a control system via incorporated rádio, developed for the automation of sliding gates.

• Power supply	230V AC 50-60Hz
• Lightbulb's output	230V AC 50Hz 100W max.
RGB Lightbulb's output	24V DC 100mA max.
Motor's output	230V AC 50-60Hz 1000 W max.
Auxiliary accessories output	24V DC 8 W max.
• Security and BT transmitters	24V DC
Working temperature	-25°C to + 55°C
• Incorporated Radio Receptor	433,92 Mhz
• OP Transmitters	12bits or Rolling Code
Maximum Memory Capacity	100 (full opening) - 100 (pedestrian opening)
• Control board Dimensions	105x130 mm.

CONNECTOR'S DESCRIPTION

02. THE CONTROL BOARD

	01 • Grounding
	02 • Grounding
	03 • 230V Line Input (phase)
	04 • 230V Line Input (neutral)
Ę	05 • 230V Motor's Output – Opening
	06 • 230V Motor's Output – Common
	07 • 230V Motor's Output - Closing
	08 • AC 230V Lightbulb Output

09 · AC 230V Lightbulb Output

01 •	Pedestrian	Push	innut

02 • Total Push input

03 • Motor's opening limit-switch input (OPEN)

04 · Motor's closing limit-switch input (CLOSE)

05 · Common

01 • 24V DC 200mA max power supply 24V

02 • 24V DC 200mA max power supply (→)







02. THE CONTROL BOARD

TECHNICAL SPECIFICATIONS

02. THE CONTROL BOARD

PROGRAMMING PRE-RECOMENDATIONS

01 · Safety Edge

02 • Photocells

03 • Encoder (not used)

04 • Encoder (not used)

05 · Common

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

02 • Y output

03 · R output

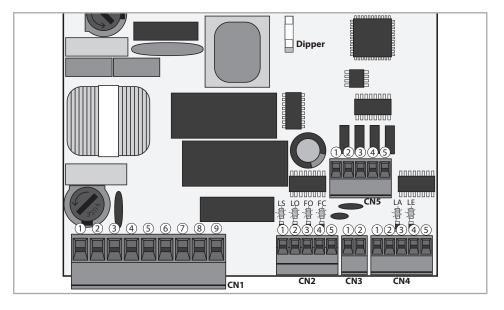
04 · G output

05 · B output

02. THE CONTROL BOARD

PROGRAMMING PRE-RECOMENDATIONS

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



LS · LED lit when the pedestrian push button is active

LO • LED lit when the total push button is active

FO · LED off when the opening limit switch is active

FC • LED off when the closing limit switch is active

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

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

Courtesy light or flashing light:

08 and 09 • This output allows connection of a courtesy light or a flashing light (see **P8** in page 11B).

Limit switches:

03 and 04 • The control board needs a opening and closing limit-switches connection (both in NC). Triggering any limit-switch will make the immediate stoppage of the movement.

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

It is mandatory the use of limit switches.

Safety circuits:

01 • This input allows connection of safety bands. The device operates according to programming set in the P6 menu (page 10B)

02 • This input allows connection of photocells. The device operates according to programming set in the P5 menu (página 10A) Shunt application is not necessary.

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

Open collector for the management of auxiliary functions:

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

03 • The R output is activated in intermittent mode, only in closing phase.

04 • The G output is activated in intermittent mode, only in opening phase.

05 • The B output is activated in intermittent mode, only in pause time.

The dipper indicates which motor is connected to the control board.



Put the dipper in this position when using motors with power < 500 watts



Put the dipper in this position when using motors with power > 500 watts







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

- 01 · Make the connections of all the accessories according to the connection scheme (page 19).
- 02 Connect the control board to a 230V power supply (3 and 4 CN1 terminals).
- 03 Make sure that the gate movement is the same as the one shown on the display:

AH CLOSING **OPENING**



If the display does not match the gate's movement, turn off the control board from the power supply e swap the 5 and 7 wires from CN1 and check if it is correct with 3 and 4 from CN2.

ESSENTIAL STEPS FOR INSTALLATION

- 04 Check is the limit switches, so that the FC LED turns off during the closure and the LED FO turns off during the opening.
- 05 · Make an automatic programming P0 menu (page 6A).
- 06 · If necessary, adjust the gate of the deceleration time in opening and closing P1 menu (page 7A).
- 07 Adjust the strength and sensitivity of the motor P2 menu (page 8).
- 08 Make an automatic programming of the course again P0 menu (page 6A).
- 09 Enable or disable the use of photocells in the P5 menu (page 10A).
- 10 Enable or disable the use of safety band in the P6 menu (page 10B)
- 11 · Program a transmitter (page 4B).

The control board is now fully configured!

Check the menus from the programming pages in case you wish to configure other features of the plant.

50 Transmitter programming for total opening.

5P 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 transmitters (SU and SP) using $\downarrow \uparrow$.



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



04 • The first free position appears.





ERASE TRANSMITTERS



01 · Press the cmd button for 1 sec.



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



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



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



05 • Press cmd for 3sec. and the position is empty. The display will flash and the position will be

• ERASE ALL THE TRANSMITTERS

location.



01 · Press the cmd button for 5 sec.

05 • Press the command

The display will blink and

move to the next free

button you want to program.

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



· Whenever you store or delete a command, the display will flash and show the next position. You can add or delete commands without having to go back to point 01.

available.



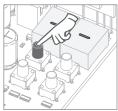
• If you do not press any key for 10 sec. the control board will return to standby.



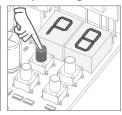




• We can only go into programming with a electrically closed gate.









• To access the P menu • Use $\downarrow \uparrow$ to press the MENU key for 3sec. menus.

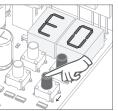
• Press MENU when navigate through the you want to confirm access to a menu.

 Press ↓ ↑ simultaneously to exit programming.

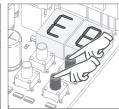
MENU	FUNCTION	MAX. MIN. PROGRAMMABLE	STATE	FACTORY VALUE	PAGE
PD	Course automatic programming	-	PII Automatic programming . R Semi-automatic programming	-	6A
88	Deceleration time adjustment		EP Deceleration time dR Opening deceleration dE Closing deceleration	00 03 03	7A
65	Force and sensibility adjustment	min. 1 9 max.	F 17 Force adjustment F 5 Sensibility adjustment F d sens. adjustment in deceleration	06 00 00	8
83	Pedestrian Course time	min. Os Ossana.	FJ Time adjustment in pedestrian mode	10 sec	9A
PY	Pause time	## Total closure pause time adjustment ## Pedestrian closure pause time adjustment ## Pedestrian closure pause time adjustment		10 sec	9B
85	Photocells programming	-	HE 00 photocells Disabled 01 photocells Activated HC 00 Photocells in closing Photocells in opening	00	10A
P6	Safety band	-	HE 00 Security Band Disabled 0 / Security Band Activated HR 00 8k2 input 0 / NC input 00 Band in closure HL 0 / Band in opening	00 01 00	10B
88	OperatiNG logic	-	## Automatic mode function ### Step by step mode function ### Mode condominium function	00	11A
<i>P8</i>	Flashing light	-	 Flashing (opening and closing) 1 Step by step mode function Courtesy light	00 00 00	11B
88	Distance programming	-	DD Distance PGM OFF DD Distance PGM ON	00	12A

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









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

navigate through the you want to confirm menus.

• Press MENU when access to a menu.

 Press ↓ ↑ simultaneously to exit programming.

MENU	FUNCTION	MÁX. MIN. PROGRAMABLE	STATE	FACTORY VALUE	PAGE
EO	Present Man	-	HP 00 Desactivates present man 0 Activates present man PL 00 Disables push buttons mode	00 01	12B
88	Soft start	-	Deactivates Soft start Activates Soft start	00	13A
<i>E2</i>	Courtesy light time	Courtesy light time min. 0 99 max. Courtesy light time adjustment		00	13B
88	Follow me	+	DO Deactivates follow me	00	14A
<i>E</i> 5	Electric brake	-	DD Deactivates electronic brake	00	14B
88	Deceleration speed	min. 1 1 9 max.	Deceleration speed adjustment	05	15A
E7	Operation counter	-	Shows the number of maneuvers	-	15B
88	Reset - Restore factory settings	+	Deactivated R Reset activated	00	16A
E9	RGB Output	-	Continued output Intermittent output	01	16B

TRANSMITTER					
<i>SU</i>	Transmitter programming for total opening.	4B			
<i>5P</i>	Transmitter programming for pedestrian opening.	4B			





5B

5A

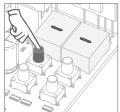
AH

This menu allows automatic programming of the motor and deceleration.

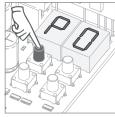
During automatic programming, the motor will perform the following maneuvers: 12 Slowly close the gate until it reaches the end of the closing course 2º Slowly opens for aabout 10 seconds 3º Slowly closes until it reaches the limit switch 42 The gate opens at normal speed until it reaches the limit switch 52 The gate closes at normal speed until it reaches the limit switch



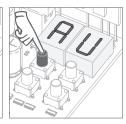
Steps 2 and 3 are only made if P2-dF is set to a value equal to or greater than 1. If P2-dF is set to 0 (zero), you will only do steps 1, 4, and 5.



01 • Press MENU for 3 seconds.

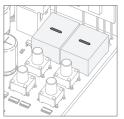


02 · P0 appears. Press MENU for 1 second.



PI automatic progr. of the course

03 · AU appears. Press MENU for 1 second to start automatic programming.



04 • When programming is complete, the display returns to the initial state (--).

This submenu performs a semi-automatic programming of the working time of the motor, setting the slow speed areas manually.

To do this, you must press MENU at the moment you want to start the soft stop (slow speed), both in the opening and closing phases.



If you do not press MENU at any time, an automatic programming will be performed without any deceleration.

This programming can be done without limit switches, but it is mandatory to press MENU whenever the door reaches the end of each course.



01 • Press MENU for 3 seconds.



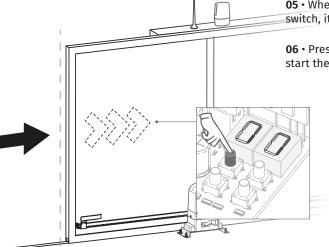
02 · P0 appears. Press MENU for 1 second.



03 · AU appears. Press ↑ 1 time to show MA.



04 · When MA appears, press MENU for 1 second. The motor will start a slow closing of the door.



05 • When it reach the closing limit switch, it will open automatically.

06 • Press MENU when you want to start the opening deceleration.

> 07 • When you reach the limit switch, it will automatically close.

08 · Press MENU when you want to start the closing deceleration.







EP

Deceleration type

It allows to set the slowdown speed, according to the automation power.



When the deceleration is not used, you must adjust the limit switches to be activated slightly before the desired location for the gate to stop. This will ensure that the gate does not exceed the stopping point due to movement inertia, which could cause it to get stuck.

Function 00

speed in the E6 menu.

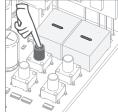
Suitable for smaller power engines and light gates, it has a smoother movement during the deceleration and allows to change the

Funktion 01

Suitable for engines with higher power and heavy gates, this type of deceleration is stronger, and can generate some vibration. Does not allow to change the speed in E6!



NOTE: Always set this menu to a value of 00. If the gate does not operate properly during the deceleration, change to 01 to use a stronger deceleration.



01 • Press MENU for 3 seconds.



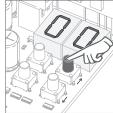
02 • P0 appears. Press ↓ 1 time.



03 • P1 appears. Press MENU for 1 second.



04 • tP appears. Press MENU for 1 second.



05 • The factory set value is displayed. If desired, change the time to 01 using \downarrow .



06 · Press MENU for 1 second to save the set value.

88

Opening deceleration

It allows to define the slowdown time in the opening phase.

Closing deceleration

closing phase.



When the deceleration is not used, you must adjust the limit switches to be activated slightly before the desired location for the gate to stop. This will ensure that the gate does not exceed the stopping point due to movement inertia, which could cause it to get stuck.





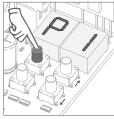
min (factory default 3)



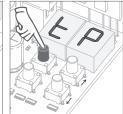
01 • Press MENU for 3 seconds.



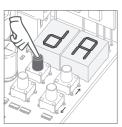
02 · P0 appears. Press ↓ 1 once.



03 • P1 appears. Press MENU for 1 second.



03 • tP appears. Press MENU for 1 second.



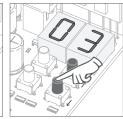
04 • dA appears. Press MENU for 1 second.



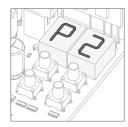
defined from factory. If you want, change the time from 1 to 15 sec. using $\downarrow \uparrow$.



05 • Appears the time **06** • Press MENU for 1 second, to save the defined time. dF appears. Press MENU for 1 second.



08 · Appears the time defined from factory. If you want, change the time from 1 to 15 sec. using $\downarrow \uparrow$.



09 · Press MENU to save the chosen time.

P2 appears.

To program P2, continue in step 3 from P2 menu (page 8). To exit the programming press $\downarrow \uparrow$ simultaneously.









If you set the sensitivity (FS) to a value greater than 1, the force (FO) is automatically set to

without the possibility to change it.

Note: If the control board has very high sensitivity values, you may see the LI error. After four attempts, the LI error will turn ER.

You will have to wait 10 sec. to return to program the automatism.

88

Strength adjustment

It allows to regulate the motor's operation force when opening and closing.



The control board is supplied with this function disabled. To activate the function, you must make a new programming of the course. This will allow the control board to assume new settings.

Sensitivity adjustment

It allows you to adjust the engine sensitivity in detecting obstacles. The higher the sensitivity the less effort is needed to detect any obstacle and reverse the direction.

88

Deceleration sensitivity adjustment

It allows you to adjust the sensitivity during the deceleration.







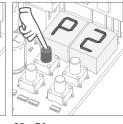
(Factory default 00)



01 • Press MENU for 3 seconds.



02 •P0 appears. Press ↓ twice.



03 • P2 appears. Press MENU for 1 second.



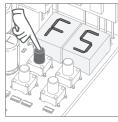
04 • F0 appears. Press MENU for 1 second.



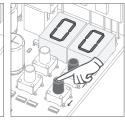
05 • Appears the value defined from factory. If you want. change the value from 1 to 9 using $\downarrow \uparrow$.



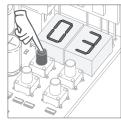
06 · Press MENU for 1 second, to save the defined value.



07 • FS appears. Press MENU for 1 second.



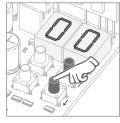
08 • Appears the value defined from factory. If you want. change the value from 1 to 9 using $\downarrow \uparrow$.



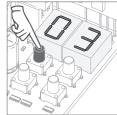
09 • Press MENU for 1 second, to save the defined value.



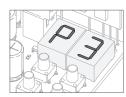
10 · Fd appears. Press MENU for 1 second.



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



12 • Press MENU for 1 second, to save the defined value.



13 • P3 appears.

To program P3, continue in step 3 from P3 menu (page 9A). To exit the programming press $\downarrow \uparrow$ simultaneously.

⚠ In order to the pedestrian mode to work, it is necessary that the minimum working time is 1 second, because 0 disables the function.





01 • Press MENU for 3 seconds.



02 · P0 appears. Press ↓ three times.



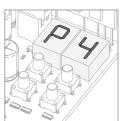
03 · P3 appears. Press MENU for 1 seconds.



set from factory. If you want, change time between 1 and 99 sec., using ↓ ↑.



04 · Appears the time 05 · Press MENU to save the defined time.



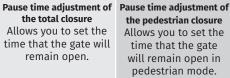
06 • P4 appears. To program P4, continue in step 3 from P4 menu (page 9B). To exit the programming press $\downarrow \uparrow$ simultaneously.



the total closure Allows you to set the time that the gate will remain open.

88

04. PROGRAMMING "P"



RP



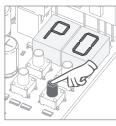




When the values are zero, the automatic closing ceases to exist



01 • Press MENU for 3 seconds.



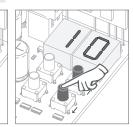
02 · P0 appears. Press ↓ four times.



03 · P4 appears. Press MENU for 1 second.



04 · AF appears. Press MENU for 1 second.



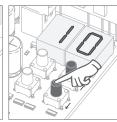
05 · Appears the time set from factory. If you want, change time between 1 and 99 sec., using $\downarrow \uparrow$.



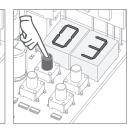
06 • Press MENU for 1 second to save the defined time.



07 • AP appears. Press MENU for 1 second.



08 • Appears the time 09 • Press MENU for set from factory. If you want, change time between 1 and 99 sec., using $\downarrow \uparrow$.



1 second to save the defined time.



10 • P5 appears.

To program P5, continue in step 3 from P5 menu (page 10A). To exit the programming press $\downarrow \uparrow$ simultaneously.

9A

HB.

00 (disables photocells) 01 (ables photocells)

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

(factory default 00)

HI

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

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

(factory default 00)

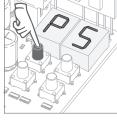


P5 PHOTOCELLS PROGRAMMING

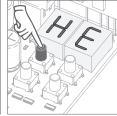
01 • Press MENU for 3 seconds.



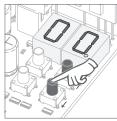
02 · P0 appears. Press \downarrow five times.



03 · P5 appears. Press MENU for 1 second.



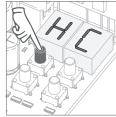
04 · HE appears. Press MENU for 1 second.



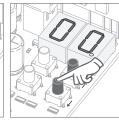
05 • Appears the function set from factory. If you want, change the it between 00 and 01 using $\downarrow \uparrow$.



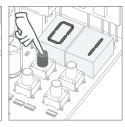
06 • Press MENU for 1 seconds to confirm the defined function.



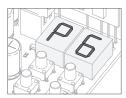
07 · HC appears. Press MENU for 1 second.



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



09 · Press MENU for 1 seconds to confirm the defined function.



10 • P6 appears.

To program P6, continue in step 3 from P6 menu (page 10B). To exit the programming press $\downarrow \uparrow$ simultaneously.





HE

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

The menu allows you to enable/disable its operation.

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

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

(factory default 00)

(factory default 01)

HL

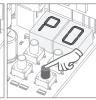
00 (band during closure) 01 (band during opening)

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

(factory default 00)



01 · Press MENU for 3 seconds.





02 • P0 appears. **03** • P6 appears. Press ↓ six times. Press MENU for 1 Press MENU for 1 second.



04 · HE appears. second.



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



06 • Press MENU for 1 second to confirm the defined function.



07 • HA appears. Press MENU for 1 second.



function set from for 1 second factory. If you want, change the defined function. it between 00 and 01 using ↓ ↑.



08 • Appears the **09** • Press MENU to confirm the



10 · HL appears. Press MENU for 1 second.



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



12 · Press MENU for 1 second to confirm the defined function.

P7 appears. To program P7, continue in step 3 from P7 menu (page 11A). To exit the programming press $\downarrow \uparrow$ simultaneously.





AA

Functioning in automatic mode

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

Π 1 Functioning in step by step mode

1st impulse - OPENS 2nd impulse - STOPS 3rd impulse - CLOSES 4th impulse - STOPS If is fully open and timed, the gate closes

Functioning in condominium mode Does not accept orders during opening and pause time, in closure it reverses (either by

transmitter or control

board start button)

88

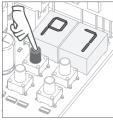


01 • Press MENU for 3 seconds.

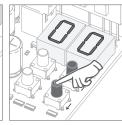




02 · P0 appears. Press ↓ seven times.



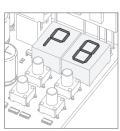
03 · P7 appears. Press MENU for 1 second.



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



05 • Press MENU to save the defined function.



06 • P8 appears.

To program P8, continue in step 3 from P8 menu (page 11B). To exit the programming press $\downarrow \uparrow$ simultaneously.

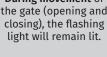
04. PROGRAMMING "P"

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

88

01

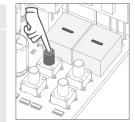
During movement of the gate (opening and closing), the flashing light will remain lit.



Factory defaut (00)

88

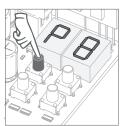
Courtesy light During operation it converts the firefly output into courtesy light according to the time defined in E2. (p.13B).



01 • Press MENU for 3 seconds.



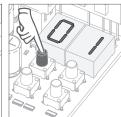
02 · P0 appears. Press ↓ eight times.



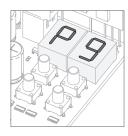
03 · P8 appears. Press MENU for 1 second.



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



05 · Press MENU to save the defined function.



06 • P9 appears.

To program P9, continue in step 3 from P9 menu (page 12A). To exit the programming press $\downarrow \uparrow$ simultaneously.

88

distance PGM OFF

distance PGM ON

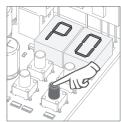
This menu allows you to enable or disable the new transmitters programming without access directly to the control board by using a previously stored transmitter (memorize transmitters page 5B).

Factory default (00)

Distance programming operation (PGM ON):

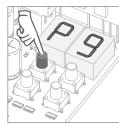


01 • Press MENU for 3 seconds.



Pg distance programming

02 • P0 appears. Press ↓ nine times.



03 · P9 appears. Press MENU for 1 second.



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

the 1st free position).

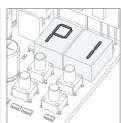
transmitter.



05 • Press MENU to save the defined function.

• Press the keys indicated in the picture at the same time for 10 seconds and the flashing light will start to flash (the display shows

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



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

Present man - closing

02 (activates present man at the closing) The present man is active only in closing.

AA

Present man

01 (activates present man) The motor only works if you hold down the pushbutton LS or LO.

00 (deactivates present man)

Whenever an order is sent to the LS and LO the motor performs a complete maneuver.

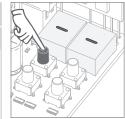
(Factory default 00)

Pi

Push button mode

	LS Button	LO Button
01 ACTIVATED	Total Opening	Total Closing
00 DEACTIVATED	Pedestrian maneuvers	Total maneuvers

(Factory default 00)



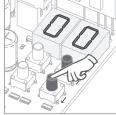
01 • Press MENU for 10 seconds.



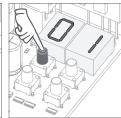
02 · E0 appears. Press MENU for 1 second.



03 · HP appears. Press MENU for 1 second.



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



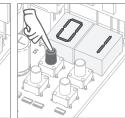
05 • Press MENU for 1 function currently set. second to confirm the defined time.



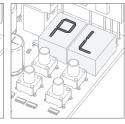
06 · PL appears. Press MENU for 1 second.



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



08 • Press MENU for 1 09 • E1 appears. second to confirm the To program E1, defined function.



continue in step 3 from E1 menu (page 13A). To exit the programming press $\downarrow \uparrow$ simultaneously.





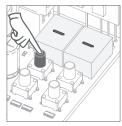




00 disabled function 01 enabled function

This menu allows you to enable/disable soft start. With soft start function enabled, at each motion beginning, the control board will manage the start of the motor, gradually increasing in the first second of working.





E | SOFT START

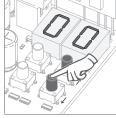
01 • Press MENU for 10 seconds.



02 · E0 appears. Press ↓ once.



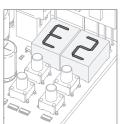
03 • E1 appears. Press MENU for 1 second.



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

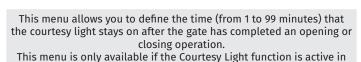


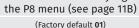
05 • Press MENU to save the defined function.



06 • E2 appears.

To program E2, continue in step 3 from E2 menu (page 13B). To exit the programming press $\downarrow \uparrow$ simultaneously.



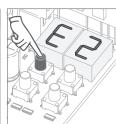




01 · Press MENU for 10 seconds.



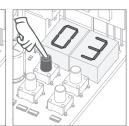
02 · E0 appears. Press ↓ twice.



03 · E2 appears. Press MENU for 1 second.



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



save the defined time.



06 • E3 appears.

To program E3, continue in step 3 from E3 menu (page 14A). To exit the programming press $\downarrow \uparrow$ simultaneously.

00 disabled function 01 enabled function

This menu allows you to activate the option Follow me. With this function activated whenever the photocells detect the passage of a user/obstacle, the control board triggers the closing operation after 3 seconds.

To activate Follow me function, P5 have to be set with: HE = 01 / HC = 00 (see page 11A)

(Factory default 01)



01 • Press MENU for 10 seconds.



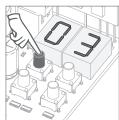
02 · E0 appears. Press ↓ three times.



03 · E3 appears. Press MENU for 1 second.



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



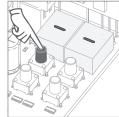
05 • Press MENU to save the defined function.



06 • E4 appears (is inactive). To advance to the E5 menu press ↓ once. To exit the programming press $\downarrow \uparrow$ simultaneously.

E4 MENU INACTIVE.

05. PROGRAMMING "E"



01 • Press MENU for 10 seconds.

00 disabled function 01 enabled function

The electric brake allows that, whenever the gate stops or it receives a reverse command, it decreases the advance.

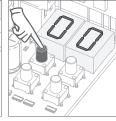
(Factory default 00)



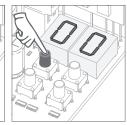
02 · E0 appears. Press ↓ five times.



03 · E5 appears. Press MENU for 1 second.



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



05 • Press MENU to save the defined function.



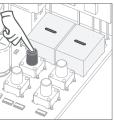
06 • E6 appears.

To program E6, continue in step 3 from E6 menu (page 15A). To exit the programming press $\downarrow \uparrow$ simultaneously.

This menu lets you set the deceleration speed in opening and closing.

The higher the level, the faster is the deceleration.





01 • Press MENU for 10 seconds.



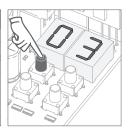
02 • E0 appears. Press ↓ six times.



03 • E6 appears. Press MENU for 1 second.



04 • Appears the value currently set. If you want, change the function to 01 or 09, using ↓↑.

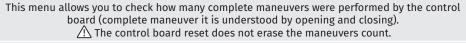


05 • Press MENU to save the defined value.



06 • E7 appears.

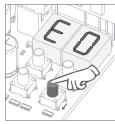
To program E7, continue in step 3 from E7 menu (page 15B). To exit the programming press $\downarrow \uparrow$ simultaneously.



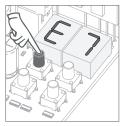
Example: 13456 maneuvers 01- Hundreds of thousands / 34- Thousands / 56- Dozens



01 • Press MENU for 10 seconds.



02 • E0 appears. Press ↓ six times.



03 • Press MENU for 1 second.



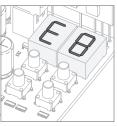








04 • Appears the maneuvers counting in the following order (example 130 371):



06 • E8 appears.

To program E8, continue in step 3 from E8 menu (page 16A). To exit the programming press $\downarrow \uparrow$ simultaneously.





15A





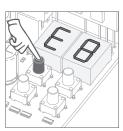




01 • Press MENU for 10 seconds.



02 • E0 appears. Press ↓ eight times.



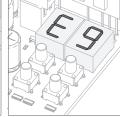
03 • E8 appears. Press MENU for 1 second.



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



05 • Press MENU for 1 second to reset.



06 • E9 appears. To program E9, continue in step 3 from E9 menu (page 16B). To exit the programming press ↓ ↑ simultaneously.



05. PROGRAMMING "E"

8 1

Continuous light

Flashing light

(factory default 01)

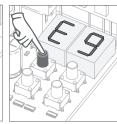
This menu allows you to select the functioning mode of the four signs, fixed or intermittent output. page 12B)



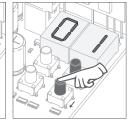
01 • Press MENU for 10 seconds.



02 • E0 appears. Press ↓ nine times.



03 • E9 appears. Press MENU for 1 second.



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



05 • Press MENU for 1 second to save the defined function.







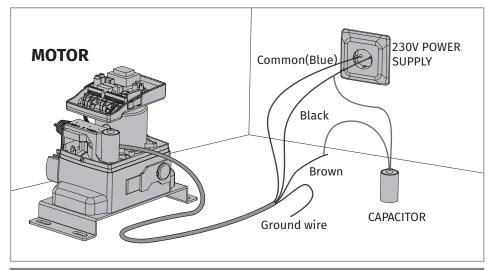
MENU	DESCRIPTION	MENU	DESCRIPTION		
88	Opening limit-switch enabled	88	Obstructed photocells		
88	Closing limit-switch enabled	No limit switches or both open			
88	In pause time	88	Security Band under pressure		
88	In pedestrian pause time	85	S S		
BB	Memory full	88	Start button being pressed		
88	Memory full (pedestrian)	88	Sensibility detection failure		
88	Inversion by effort				



To detect which components have problems during a sliding automatism installation, sometimes it's necessary to conduct tests with a direct connection to a 230V 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.
- The order of capacitor wires linked with the automatism wires are not important, as long as you link, one to the Brown wire and the other to the Black one;
- The common wire of the motor must always be connected to the power supply;
- To reverse the automatism functioning direction, switch the Black wire with the Brown wire of the automatism.





All tests must be performed by skilled technicians due to serious danger associated with the misuse of electrical systems!

In the position corresponding to each transmitter input in low voltage, the control board has a LED to identify the condition of it. The LED on indicates that the input is closed, while the LED off indicates that the input is open.









Anomaly	Procedure	Behavior	Procedure II		Discovering the origin of the problem				
Motor doesn't work	Make sure you have 230V power supply connected to control board and if it is working properly	• Still not working.	• Consult a qualified MOTORLINE technician.	1 • Open control box and check if it has 230V power supply; 2 • Check input fuses;	power supply; control board and test them by connecting directly to power supply in order to find out if they		oard and test them by problem is on the cont pull it out and send it order to find out if they MOTORLINE technical		5 • If the gate doesn't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
 Motor doesn't move but makes 	 Unlock motor and move the gate by hand to check for 	• Encountered problems?	• Consult a qualified gates technician.	1 • Check motion axis and associated motion systems related with the motor and the gate to find out what is the problem.				s the problem.	
noise	mechanical problems on the movement	• The gate moves easily?	• Consult a qualified MOTORLINE technician.	1 • Check capacitors, testing operator with new capacitor;			problem is from control board. r Pull it out and send it to our s		4 • If the motor doesn't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
Gate doesn't make complete route	Unlock motor and move the gate by hand to closed position. Lock motor again and turn of power supply for 5 seconds. Reconnect it and send order to open gate using transmitter.	• 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, push button, video intercom, etc.) of the gate are jammed and sending permanent signal to control unit; 3 • Consult a qualified MOTORLINE technician.	All MOTORLINE control boards had that easily allow to conclude which are with anomalies. All safety dev (LA and LE) in normal situations re On. All "START" circuits LEDs in nosituations remain Off. If LEDs devices are not all On, the security systems malfunction (ph safety edges), etc. If "START" circuits are turn On, there is a control devipermanent signal.	which devices devices LEDs as remain in normal 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		all safety systems wheck manual of the ion). If the automated in normally check for is. at a time until you find is. ctional device and ks correctly with all u find another one	1 • Disconterminal i 2 • If the Lone device defective NOTE: In case pr A) and B) of	ocedures described in sections don't result, remove control board to our technical services for
 Motor opens but doesn't close 	 Unlock motor and move gate by hand to check for mechanical 	• Encountered problems?	• Consult a qualified gates technician.	1 • Check all motion axis and asso	ciated motio	on systems related with t	he gate to find out what	is the prob	olem.
	problems on the gate.	• The gate moves easily?	• Consult a qualified MOTORLINE technician.	1 • Check capacitors, testing with new capacitors; 2 • If capacitors are not the problem, disconnect motor from control board and test it by connecting directly to power supply in order to find out if it is broken; 3 • If the motor doesn't work, remove it from installation site and send to our MOTORLINE technical services for diagnosis.	gate at fu entire cou from conti trimmer o new worki , giving su and closin force (pag for MBM6 5 • If this o	or work well and move ll force during the rse, the problem is roller. Set force using n the board. Make a ing time programming ffient time for opening g with appropriate e 08.B of this manual 230V). doesn't work, remove it and send it to	MOTORLINE technical services.	services	NOTE: Setting force of the controller should be sufficient 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.).



