



INSTALLER AND USER'S MANUAL Į, P \bigcirc \wedge LS LE LS LO ST PU OL LA line® L1 L2 L3 높 높 T1 T2 T3 LAMP V+ ightarrow LS ightarrow LO ST PU OL ightarrow CL LE ightarrow LA ROFESSIONAL P

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FINAL CONSUMERS INSTRUCTIONS AND SPECIALIZED INSTALLERS

01. SAFETY INSTRUCTIONS

ATTENTION:

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

RoHS This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment and with Delegated Directive (EU) 2015/863 from Commission.

(Applicable in countries with recycling systems).

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



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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.

01. SAFETY INSTRUCTIONS

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

WARNINGS FOR USERS

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

RESPONSABILITY

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

SYMBOLS LEGEND:



 Important safety notices



Programming information









02. CONTROL BOARD

TECHNICAL SPECIFICATIONS

The **MC410** is a three-phase electronic control board (400V 3 phases) with a soft start and stop system, developed mainly to equip the engines STARK (sliding gates) and KVM115 (sectional gates) of the Motorline brand.

The soft start and stop functions enable more precise operation, thus saving all mechanical components of the gate and operator, as well as protection against exponential current increase when starting AC motors.

Soft stopping also reduces the likelihood that the doors will be blocked when closing, as well as reducing noise when closing the door.

• Power Supply 400V 3~ ±10% (50Hz-60			
• Flashing light's output (NO)	230Vac (1000W máx)		
RGB Lightbulb's output	24Vdc (100mA máx)		
• Motor's output	400Vac (1500W máx)		
Auxiliary accessories output	24Vdc (325mA máx)		
Working temperature	-25°C a +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	172 x 184 mm		
• Fuse F1-F2-F3	T 8A 250V		
• Fuse F4	T 63ma 250V retardo		

LEDs

 +24V • LED On indicates that the line for V+ output is OK. +5V • LED On indicates that the line for 5V is OK. LS • LED On when the Pedestrian Pushbutton is pressed. LO • LED On when the Total Pushbutton is pressed. ST • LED On when the ST circuit is closed. PU • LED On when the Sequential Pushbutton is pressed. FO • LED On indicates limit switch opening in closed state. That is, it is not within limits. FC • LED On indicates limit switch Closing in closed state. In other words, it is not within limits. LE • LED On when the ↓ LE circuit is closed. LA • LED On when the ↓ LA circuit is closed. 		
	LEDS	 +24V • LED On indicates that the line for V+ output is OK. +5V • LED On indicates that the line for 5V is OK. LS • LED On when the Pedestrian Pushbutton is pressed. LO • LED On when the Total Pushbutton is pressed. ST • LED On when the ST circuit is closed. PU • LED On when the Sequential Pushbutton is pressed. FO • LED On indicates limit switch opening in closed state. That is, it is not within limits. FC • LED On indicates limit switch Closing in closed state. In other words, it is not within limits. LE • LED On when the ↓ LE circuit is closed. LA • LED On when the ↓ LA circuit is closed.

02. CONTROL BOARD

CONNECTORS



	01 (L1) • Input Phase 1 - 400V 02 (L2) • Input Phase 2 - 400V 03 (L3) • Input Phase 3 - 400V	Power Supply 400Vac
CN1	04 (Ground) • Grounding connection 05 (Ground) • Grounding connection	Motor and power ground connection
	06 (T1) • Motor Output Phase 1 - 1500W máx. 07 (T2) • Motor Output Phase 2 - 1500W máx. 08 (T3) • Motor Output Phase 3 - 1500W máx.	Power Supply 110/230Vac
	09 (LAMP1) • Flashing light Output - 1000W 10 (LAMP2) • Flashing light Output - 1000W	Courtesy light or Flashing light: This output allows the connection of a courtesy light or a Flashing light.
CN2	11 (V+) • Power supply 24Vdc 325mA max. 12 (GND) • Power supply 24Vdc 325mA max.	24Vdc Auxiliary Power Supply
	13 (LS) • Full Pulsing Input (NA) 14 (GND) • Common 15 (LO) • Pedestrian Pulsing Input (NA)	Pushbuttons: This circuit allows the connection of pushbuttons for full or pedestrian opening
	16 (ST) • Button STOP Input (NC) 17 (PU) • Sequential Pushbutton (NA)	ST: This circuit allows the connection of a button stop. Its operation depending on the P6 configuration (check page 11B).
	18 (FO) • Opening limit-switch (NC) 19 (GND) • Common 20 (FC) • Closing limit-switch (NC)	Limit switches: 03 and 04: The control unit requires the connection of limit switches when opening and closing (both in NC). The activation of any of the limit switches causes the movement to stop immediately. The activation of the limit switches is visible on the display by OP (opening limit switch activated) and CL (closing limit switch activated), as well as on the OL and CL leds.
	21 (LE) • Photocells 1 (NC) 22 (GND) • Common 23 (CL) • Photocells 2 (NC)	Safety circuits: This circuit allows the connection of photocells. Its operation depending on the configuration of the P5 and P6 menus (check page 11B).
	24 (GND) · Common 25 (ANT) · Antenna	



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4B

EN



INSTALLATION MAP (STARK)



Motorline

INSTALLATION MAP (KVM115)



Motorline

INSTALLATION MAP (KVM2020)



Motorline°

BASE INSTALLATION PROCESS

	N	
4	<u>· </u>	

O processo de instalação, assume que o portão já tem as chapas de fim de curso instaladas. Para mais informações consulte o manual do motor.

01 • Make connections for all accessories according to the wiring diagram (page 5A). 02 • Connect the control board to a 400V 3 ~ phase power supply (terminals L1, L2, L3)

03 • Check that the movement of the gate matches the one shown on the display:

In case the display does not match the movement of the gate, disconnect the control panel from the power supply and change the wires T1 and T2 and check if it is correct with OP and CL.

04 • Check the limit switches so that the CL LED goes out when the closing limit switch is activated and the **OP LED** goes out when the opening limit switch is activated.

05 • Make an automatic or semi-automatic programming of the course - menu [P0] (page 10A). 06 • If necessary, adjust the gate slowing time at the opening and in the closing - menu [P1] (page 10A).

- 07 Adjust the force menu [P2] (page 10A).
- 08 Enable or disable the use of photocells in the [P5] menu (page 11B).
- **09** Enable or disable the use of photocells 2 in the **[P6]** menu (page 11B)

10 • Program a command (page 8B).

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 TRANSMITTERS

50 TRANSMITTER PROGRAMMING FOR TOTAL OPENING

SP TRANSMITTER PROGRAMMING FOR PEDESTRIAN OPENING.

PROGRAMMING TRANSMITTERS

01 • Press the cmd button for 3 sec.

03 • Press cmd once to confirm.

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

02 · Select [SU]

04 • The first free

position appears.

use UP or DW.

ERASE ALL THE TRANSMITTERS

- 01 Press the cmd button for 10 sec.
- 02 The display will show [SU].

03 • [SU] will flash.

04 • [LU] flashes. confirming that all commands have been deleted.

ERASE TRANSMITTERS

01 • Press the cmd button for 3 sec.

02 · Select [SU] use UP or DW.

03 • Press cmd once to confirm.

04 · Use UP or DW to select the transmitter location you want to delete.

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

be free.

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

MENUS P

MENU	FUNCTION	MÁX. MIN. PROGRAMÁVEIS	STATE	FACTORY VALUE OL	FACTORY VALUE SE	
P()	Programação do curso	-	<i>RU</i> Prog. automatic , <i>R</i> Prog. semi automatic	-	-	
88	Deceleration time adjustment		and Slowing down at opening			
			BE Slowing down on closing			
24	Force adjustment	min. 0 1 9 max.	F[] Force adjustment	06	06	
88	Pedestrian Course time	min. 05 max.	Time adjustment in pedestrian course	10	10	
			Adjusting the pause time			
РЧ	Pause time	min. (05) (1995) max.	Adjusting the pause time pedestrian opening	10	10	
		min. 🔹 📶 1 max.	LE 00 Disables 01 Ative	00	00	
85	Photocell Circuit 1 (activation and management of the operating mode)	min. 0 1 max.	HE 00 In Opening 01 In Closing	00	00	
		min. •	00 Invert HE 01 Stop 02 Invert 2 sec. and Stop	00	00	
		min. 0 1 máx.	LA []] Disables [] Ative	00	00	
	Photocell Circuit 2 (activation and management of the operating mode)	min.	HC 00 In Opening	01	01	
<i>P6</i>		min. 0 2 max.	00 Invert HL 0 I Stop 02 Invert 2 sec. and Stop	01	01	
			min. 0 1 max.	00 Disables the ST emergency button HE 0 I Activates the ST emergency button	00	01
			D Automatic mode function			
H_{H}	Operating logic	min. 2 max.	[] Step by step mode function	00	01	
_			[]2 Condominium mode function			
00				00 closing)		
r8	Flashing light	min. 2 max.	[] / Step by step mode function	00	00	
			02 Courtesy light			
29	Remote programming	min. 0 1 max.	Distance PGM OFF	00	9B	
			Dia Distance Fom On			

05. FUNCTIONS

MENUS E

MENU	EUNCTION	MAX. MIN.	STATE	FACTORY	FACTORY
MENO	FUNCTION	PROGRAMMABLE	SIAIE	OL	VALUE SE
ΕΩ	Present Man	min 0 1 may	00Deactivates present manHP 01Activates present man02Activates present man - Close	00	00
		PL 00 Disables push buttons mode			
\Box			00 Desactivates Soft start		00
	Soft start	min. 🔷 📶 4 max.	01 Activates Soft start	03	03
62	Courtesy light time	min. and and max.	Courtesy light time adjustment (min)	03	03
00	E. H		00 Desactivates follow me	00	00
\Box	Follow me	I Activates follow me (Open gate)		00	00
<i>ES</i>	Electronic brake	min. 🛯 📶 🦻 max.	Adjusting the electric brake power	00	00
68	Deceleration Speed	min. 0 1 9 max.	Deceleration Speed adjustment	06	06
88	Manuevers counter	-	Shows the number of maneuvers	-	-
<i>c o</i>	Deast Calestversion		0 / Reset - Sliding Motor	00	00
C 0	Reset - Select version	min. 🔄 📶 🕒 max.	02 Reset - Sectional Motor	00	00
00		00 Continued output	01	01	
	KGB Output	B I Intermittent output		01	
		TRAN	ISMITTER		
58	Transmitter programming for total opening.				6B
55	Transmitter programming for pedestrian opening.				6B

• We can only enter programming with the gate stopped (electrically). • To access the P MENU press the **MENU** for 3 sec.

- To access the E MENU press the **MENU** for 10 sec.
- Use **UP** or **DW** to navigate through the menus
- Press **MENU** when you want to confirm access to a menu.

• Press **UP** or **DW** simultaneously to exit programming

9B

EN

9A 📕

P0 | AUTOMATIC PROGRAMMING

88

This menu allows automatic programming of the engine and slowdown.

Note • This mode requires the use of limit switches.

During automatic programming, the engine performs the following maneuvers:
1 • Slowly close the gate until it reaches the closing limit switch
2 • Opens slowly for approximately 10 seconds
3 • Close slowly until closing limit switch is reached
4 • Opens gate at normal speed until reaching the opening limit switch
5 • Close the gate at normal speed until it reaches the closing limit switch

\triangle

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

03 • Appears

[AU]. Press MENU

for 1 second to

start automatic

programming.

01 • Press **MENU** for 3 seconds.

02 • Appears **[P0]**. Press **MENU** for 1 second.

04 • When programming is complete, the display returns to the initial state [--].

05. FUNCTIONS

P0 | SEMI-AUTOMATIC PROGRAMMING

88

This menu allows you to program the engine's working time in a semi-automatic way, allowing you to manually define the moment when the slowdowns start.

In this way, we automatically set the value of Menu [P1] as well as reducing the inertia of the door when it reaches the limit switches in programming.

Ŵ

01 · Press MENU for 3

seconds.

02 · Appears [P0].

Press **MENU** for 1

second.

03 • Appears **[AU]**. Press **UP** 1 time to show MA.

04 • When [MA] appears, press MENU for 1 second. The engine will initiate a slow door close.

05 • When the closing limit switch is reached or pressing the remote, it will open automatically.

06 • Press **MENU** or another controller as the command, when you want to start the slowdown at the opening.

07 • When the closing limit switch is reached or pressing the remote, it will close automatically.

08 • Press **MENU** or another controller as the command, when you want to start the slowdown at the closing.

P1 - P2 - P3 - P4

BBTIME ADJUSTMENT

This menu allows you to define the slowdown time for each sheet when opening and closing. **Note** • Whenever there is a reversal of the direction of travel, the preset

deceleration time is increased by 2 sec. up to a maximum of 25 sec.

DEFAULT	MIN	MAX
VALUE	VALUE	VALUE
03	00	45

MIN VALUE

MAX VALUE

01 • Press MENU until it appears [dA].

02 • Use UP or DW to navigate the parameters [dA] and [dF].

- 03 Press MENU to edit the value.
- **04** Use **UP** and **DW** to change the value.
- 05 Press MENU for 2sec. to save the new value.

88

FORCE ADJUSTMENT

EFAULT This menu allows you to define the force that is injected into the engine when VALUE it moves at normal speed.

01 • Press MENU until it appears [F0].

02 • Press MENU to edit the value.

03 • Use UP and DW to change the value.

04 • Press MENU for 2sec. to save the new value.

B PEDESTRIAN COURSE TIME			
This menu allows you to set the pedestrian travel time.	DEFAULT VALUE	MIN VALUE	MAX VALUE
	10	00	99
01 • Press MENU to edit the value. 02 • Use UP and DW to change the value.			

03 • Press MENU for 2sec. to save the new value.

88	PAUSE TIME			
BE Allows to set	the pause time at total opening.	DEFAULT VALUE	MIN VALUE	MAX VALUE
BB Allows to set	the pause time at the pedestrian opening.	10	00	99

01 • Press MENU until it appears [AF].

- 02 Use UP or DW to navigate the parameters.
- 03 Press MENU to edit the value.

04 • Use **UP** and **DW** to change the value.

05 • Press MENU for 2sec. to save the new value.

Motorline

11A ΕN

05. FUNCTIONS

P5 - P6

88

88 PHOTOCELLS 1 PROGRAMMING LE OFF LE ON DEFAULT VALUE This menu allows you to program the LE safety behavior (photocell 1). Enable or disable photocells **BC** Define whether this security will act when opening or closing the gate. HC DEFAULT VALUE (00 - acts on closing / 01 - acts on opening) HC CLOSE OPEN BU Define the behavior that the gate will have when this security is activated. 00 When safety is activated, the direction of movement of the gate is reversed *O* / When the security is activated, the movement of the gate stops. HL DEFAULT VALUE FUNCTIONS 02 When security is activated, the movement of the gate reverses for 2 sec. is for. The movement is not resumed automatically.

01 • Press MENU until it appears [LE].

02 • Use UP or DW to navigate the parameters.

03 • Press MENU to edit the value.

04 • Use UP and DW to change the value.

05 • Press MENU for 2sec. to save the new value.

BBPHOTOCELLS 2 PROGRAMMING This menu allows you to program the LA safety behavior (photocell 2). **EB** Enable or disable photocells 2. BE Define whether this security will act when opening or closing the gate. (00 - acts on closing / 01 - acts on opening)

88 Define the behavior that the gate will have when this security is activated. 00 When safety is activated, the direction of movement of the gate is reversed *O* / When the security is activated, the movement of the gate stops.

02 When security is activated, the movement of the gate reverses for 2 sec. is for. The movement is not resumed automatically.

BE Enable or disable the Stop push button function

01 • Press MENU until it appears [LA].

02 • Use UP or DW to navigate the parameters.

03 • Press MENU to edit the value.

04 • Use UP and DW to change the value.

05 • Press MENU for 2sec. to save the new value.

P7- P8 - P9

OPERATING LOGIC

This menu allows to set the operating logic of the automation 00 Automatic Mode - Whenever there is an order, the movement is reversed. 0 / Step-by-step mode - Logic opens / stops / closes / stops.

Note • Stopping movement during closing disables automatic closing. 02 Condominium mode - Does not respond to orders during opening and pause time.

DEFAULT VALUE	AUTOMATIC	STEP BY STEP	CONDOMINIUM
00	00	01	02

01 • Press MENU to edit the value.

02 • Use UP and DW to change the value.

03 • Press MENU for 2sec. to save the new value.

88

FLASHING LIGHT

This menu allows you to define the mode of operation of the firefly (LAMP). The default value is 0 (flashing).

00 Flashing (opening and closing) - In the 2-second intermittent opening, in the 1-second intermittent closing. At pause time it remains on.

0 / Step by step mode - In the opening and closing movement, the firefly is

permanently on. When stopped it remains off. 02 In the opening and closing movement the firefly is permanently on. When in

pause time it remains on.

When stopped or closed, the time defined in E2 remains on.

01 • Press MENU to edit the value.

02 • Use UP and DW to change the value.

03 • Press MENU for 2sec. to save the new value.

88

REMOTE PROGRAMMING

This menu allows you to enable/disable remote programming.

DEFAULT VALUE	PGM Á DISTÂNCIA OFF	PGM Á DISTÂNCIA ON
00	00	01

SHING/STOP

ТЕР ВҮ STEP

FLASHING

DEFAULT VALUE

01 • Press MENU to edit the value.

02 • Use UP and DW to change the value.

03 • Press MENU for 2sec. to save the new value.

Remote Programming Operation (PGM ON):

• Press the keys indicated in the image simultaneously for 10 seconds and the flashing light will flash (the 1st free position appears in the display). Each time you store 1 command, the control board will exit remote programming. If you want to memorize more commands, you will always have to repeat the process of pressing the command keys simultaneously for 10 seconds for each new command.

Motorline

12A ΕN

05. FUNCTIONS

E0 - E1 - E2

		PRESENT M	IAN				
	00	Deactivates pr	resent man	sent man			
ΗP	01	Ascent and de	FACTORY VALUE: 00				
	02	Automatic asc					
			LS Button	LO Button			
88	01 ACTIV	ATED	Total Closing	Total Opening	FACTORY VALUE		
	00 DEACTIVATED		Pedestrian maneuvers	Total maneuvers			

01 • Press MENU until it appears [HP].

02 • Use UP or DW to navigate the parameters.

03 • Press MENU to edit the value.

04 • Use UP and DW to change the value.

05 • Press MENU for 2sec. to save the new value.

88 SOFT START

This menu allows you to activate the soft start.	
The higher the selected value, the longer the soft start duration.	
The maximum value is 4.	

01 • Press MENU to edit the value.

02 • Use UP and DW to change the value.

03 • Press MENU for 2sec. to save the new value.

E 2 COURTESY LIGHT TIME			
This menu allows you to adjust the courtesy light time for the closed, open and stopped gate.		MIN VALUE	MAX VALUE
Note • This parameter is only activated if option 2 is selected in P8.	03	00	99

01 • Press MENU to edit the value.

02 • Use UP and DW to change the value.

03 • Press MENU for 2sec. to save the new value.

MAX VALUE

DEFAULT

VALUE

MIN VALUE

E3 - E5 - E6 - E7

03 • Press MENU for 2sec. to save the new value.

88	BRAKE/LOCK/PUSH			
EB Activate the e This menu can	u can be electronic brake. u can be programmed between the values 0 and 9, where 0 means cart is off and 9 means more brake time. e higher the set value, the greater the engine heating.		MIN VALUE	MAX VALUE
Note • The hig			00	09

- 01 Press MENU until it appears [00].
- 02 Use UP or DW to navigate the parameters.
- 03 Press MENU to edit the value.
- **04** Use **UP** and **DW** to change the value.
- 05 Press MENU for 2sec. to save the new value.

88	DECELERATION SPEED		
This menu allows you to adjust the deceleration speed.		DEFAULT VALUE	MIN VALUE
		06	00

01 • Press MENU to edit the value.

02 • Use **UP** and **DW** to change the value.

03 • Press **MENU** for 2sec. to save the new value.

MANUEVERS COUNTER

This menu allows you to view the number of maneuvers performed.

01 • Press MENU to view.

05. FUNCTIONS

E8 - E9

88	RESET – SELECT VERSION			
This menu allows you to reset the factory values for the two existing versions:		DEFAULT VALUE	RESET (SECTIONAL)	RESET (SLIDING)
O2 Reset Sliding (00	01	02	

01 • Press MENU to edit the value.

02 • Use **UP** and **DW** to change the value to **[01]** or **[02]**.

03 • Press MENU for 2sec. to save the new value.

This menu allows you to set the operation mode of RGB outputs		DEFAULT VALUE	CONTINUOUS OUTPUT	INTERMITTENT OUTPUT
This menu allows you to set the operation mode of Kdb outputs.			00	01
01 • Press MENU to edit the value.				

02 • Use **UP** and **DW** to change the value.

03 • Press MENU for 2sec. to save the new value.

MAX VALUE

INDICAÇÕES DO DISPLAY

8.8.	IN STOP POSITION, FULLY OPEN
8.8.	IN STOP POSITION, MIDDLE POSITION
8.8.	IN STOP POSITION, FULLY CLOSED
88	TOTAL OPENING BUTTON PRESSED
88	PEDESTRIAN OPENING BUTTON PRESSED
88	CONTROL BOARD RUNNING OPENING COURSE
88	CONTROL BOARD RUNNING CLOSING COURSE
88	END OF OPENING COURSE TIME
88	END OF CLOSING COURSE TIME
88	ALL TRASMITTERS DELETED
88 88 88	TRANSMITTER ADDED IN THE INDICATED POSITION
88	OBSTRUCTED PHOTOCELL
88	OBSTRUCTED PHOTOCELL 2
88	IN PAUSE TIME
88	IN PEDESTRIAN PAUSE TIME
88	EMERGENCY BUTTON PRESSED
88	NO LIMIT-SWITCHES INSTALL
8888	PHASE 1 OR MOTOR FAILURE
8888	PHASE 2 OR MOTOR FAILURE
8888	PHASE 3 OR MOTOR FAILURE

06. COMPONENTS TEST

ERL ERRORS

If the display shows the error **ERL1, 2, 3** it means that one of the input phases is missing or that the motor connections are incorrect.

Check all connections and try again.

To remove errors from the display you just need to click on any button on the control panel or in charge.

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NOTES: • This control board was developed only to work with Motorline motors, however if you want to work with motors from other manufacturers make sure that this motor is in star configuration and that it is a 400V motor that does not exceed 1500W.

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07. TROUBLESHOOTING

FINAL CONSUMERS INSTRUCTIONS AND SPECIALIZED INSTALLERS

Anomaly	Procedure	Behavior	Procedure II	Discovering the origin of the problem				
• Motor doesn't work.	• Make sure you have power supply connected to control board and if it is working properly.	• Still not working.	• Consult a qualified MOTORLINE technician.	1 • Open control box and check if it has 230V power supply;2 • Check input fuses;	3 • Disconnect motors from control board and test them by connecting directly to power supply in order to find out if they have problems (see page 11B).	4 • If the motors work, the problem is on the control board. Pull it out and send it to our MOTORLINE technical services for diagnosis;		5 • If the motors don't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
• Motor doesn't move but makes noise.	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 automatisme (rails, pulleys, bolts, hinges, etc) to find on the problem.			bolts, hinges, etc) to find out what is	
	and move the gate by hand to check for mechanical problems on the movement.	• The gate moves easily?	• Consult a qualified MOTORLINE technician.	1 • Check capacitors, testing operator with new capacitor;2 • If capacitors are not the problem, disconnect motors	from control board and it them by connecting directly to power supply in order to find out if it has problems (see page 11B).	3 • f the motors work, the problem is from control board. Pull it out and send it to our MOTORLINE technical services for diagnosis;		4 • If the motors don't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.
• Motors open but doesn't close.	• Unlock motor(s) and move the roller by hand to closed position. Block the motor again and turn off power supply for 5 seconds. Reconnect it and send order to open gate using remote control.	• Gate opened but didn't close again.	 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 L easily allow to conclude which device with anomalies. All safety devices LED in normal situations remain On. All "S circuits LEDs in normal situations rem If LEDs devices are not all On, there is security systems malfunction (photoc safety edges). If "START" circuits LEDs (Op and Cl), there is a control device so permanent signal.	LEDs that ss are DS (Le)A) SECURITY SYSTEMSDS (Le)1 •Close with a shunt a on the control board (c control board in questi system starts working the problematic device s are turn sending2 • Remove one shunt a the malfunction device 3 • Replace it for a func check if the motor wor the other devices. If yo defective, follow the sa all the problems.	 A) SECURITY SYSTEMS: 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. Remove one shunt at a time until you find the malfunction device. Replace it for a functional device and check if the motor works correctly with all the other devices. If you find another one defective, follow the same steps until you find all the problems. 		SYSTEMS: nect all wires connected to the nector. ED turned OFF, try reconnecting one a time until you find the defective ocedures described in sections A) i't result, remove control board and r MOTORLINE technical services for
		• Encountered problems?	• Consult an experienced gates expert.	1 • Check all motion axis and associat the problem.	ted motion systems related with the	gate and automatisme (ra	ils, 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.	 Check capacitors, testing with new capacitors; 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; If the motor(s) doesn't work, 	remove it from installation site and send to our MOTORLINE technical services for diagnosis. 4 • If motor work well and move gate at full force during the entire course, the problem is from controller. Set force using trimmer on the board. Make a new working time programming, giving suffient time for opening and closing with	appropriate force (const board manual). 5 • If this doesn't work, r control board and send MOTORLINE technical s	ult control remove it to ervices.	NOTE: Setting force of the controller should be suficiente to make the gate open and close without stopping, but should stop and invert with a little effort from a person. In case of safety systems failure, the gate shall never cause physical damaged to obstacles (vehicles, people, etc.).