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This product is certified in accordance with European Community (EC) safety standards.
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.
This marking indicates that batteries should not be discarded like other household waste at the end of their useful life. Batteries must be delivered to selective collection points for recycling.
The different types of packaging (cardboard, plastic, etc.) must be subject to selective collection for recycling. Separate packaging and recycle it responsibly.
This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

## GENERAL WARNINGS

-This manual contains very important safety and usage information. Read all instructions carefully before beginning the installation/ usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
-This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
-This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
-The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.

- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
-The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.
- Children shouldn't play with the product or opening devices to avoid the motorized door or gate from being triggered involuntarily.
- If the power cable is damaged, it must be replaced by the manufacturer, after-sales service or similarly qualified personnel to avoid danger.
-The device must be disconnected from the electrical network when removing the battery.
- Ensure that blocking is avoided between the actuated part and its fixed parts due to the opening movement of the actuated part.


## WARNINGS FOR TECHNICIANS

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operatingtemperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
-The control board must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on
the power supply cable. Please note that all the cables must enter the control board from the bottom.
- If the automatism is to be installed at a height of more than $2,5 \mathrm{~m}$ 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 110 Vac , ensure that connection is to an electrical panel with ground connection.
-The product is only powered by low voltage satefy with control board (only at 24 V motors).
- Parts/products weighing more than 20 kg must be handled with special care due to the risk of injury. It is recommended to use suitable auxiliary systems for moving or lifting heavy objects.
- Pay special attention to the danger of falling objects or uncontrolled movement of doors/gates during the installation or operation of this product.


## WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits, and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety


## 01. SAFETY INSTRUCTIONS

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:




- Potentiometer information
- Connectors information


## 02. CONTROL BOARD

## PROGRAMMING PRE-RECOMENDATIONS

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


| LEDs | LS - LED ON when the pedestrian push button is active. <br> LO - LED ON when the total push button is active. <br> FA•LED off when the opening limit switch is active ( $P 0->\mathrm{d} 1=\mathrm{RT}$ ). <br> LED on when the opening limit switch is active ( $\mathrm{PO}->\mathrm{d} 1=\mathrm{LE}$ ). <br> FC• LED off when the closing limit switch is active ( $\mathrm{PO}->\mathrm{d} 1=\mathrm{RT}$ ). <br> LED on when the closing limit switch is active ( $P 0$-> d1=LE). <br> LA • LED OFF when safety edge is active (when P6 is active). <br> LE - LED OFF when photocells are active (when P5 is active). |
| :---: | :---: |
| CN1 | Courtesy light or flashing light: <br> $\mathbf{0 8}$ and $\mathbf{0 9}$ • This output allows connection of a courtesy light or a flashing light (see P8 in page 10B). |
| CN2 | Limit switches: <br> 03 and 04 . The control board needs a opening and closing limit-switches connection (both in NC). Activating any of the limit switches causes the movement to stop immediately. <br> The limit-switch thriggering is visible on the display. OP (opening limit switch activated) and CL (closing limit switch activated). <br> It is mandatory the use of limit switches. |
| CN4 | Safety circuits: <br> 01 - This input allows connection of safety edges. The device operates according to programming set in the P6 menu (page 10A). <br> 02 - This input allows connection of photocells. The device operates according to programming set in the P5 menu (page 9B). <br> Shunt application is not necessary. |
| CN5 | 01 - Auxiliary output for flashing light or 24V DC LED. <br> Open collector for the management of auxiliary functions: <br> $\mathbf{0 2}$ - The Y output is activated in intermittent mode, only with the closed gate. <br> 03 - The R output is activated in intermittent mode, only in closing phase. <br> $04 \cdot$ The $G$ output is activated in intermittent mode, only in opening phase. <br> 05 - The B output is activated in intermittent mode, only in pause time. |
| Jumper | Control board with jumper for motors $>500$ watts Control board without jumper for motors $<500$ watts |

## motorline

## 03. INSTALLATION

## INSTALLATION OF MCONNECT LINK (OPTIONAL)


metorline

## 03. INSTALLATION

## ESSENTIAL STEPS FOR INSTALLATION



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 15/16/17/18), $\mathbf{0 2}$ - Connect the control board to a 110/230V power supply (3 and 4 - CN1 terminals).
$03 \cdot$ Make sure that the gate movement is the same as the one shown on the display:


04 - Check the limit switches, taking into account the indication that appears on the display.
$05 \cdot$ Make an automatic course programming - P0 menu (page 8A).
06- If necessary, adjust the gate slowdown time during opening and closing - P1 menu (page 8B). $\mathbf{0 7}$ - Adjust the force and sensitivity of the motor - P2 menu (page 8B).
08 - Make an automatic programming of the course again - P0 menu (page 8A).
09 - Enable or disable the use of photocells in the P5 menu (page 9B).
$\mathbf{1 0}$ • Enable or disable the use of safety edge in the P6 menu (page 10A)
11 - Program a remote control (page 6B).
The control board is now fully configured!
Check the menus from the programming pages in case you wish to configure other features of the control board.

## 03. INSTALLATION

## REMOTE CONTROLS


$5 月$ Programming a remote control for full opening.
$5 P$ Programming a remote control for pedestrian opening.
$5 P$ Programming a remote control for pedestrian opening.

## - REMOTE CONTROL PROGRAMMING

01 - Press the cmd button for 1 sec .
02 - Select the function where you want to program the remote controls (SU and SP) using $\downarrow \uparrow$.
03 - Press cmd once to confirm the function (SE or SP) 04 - The first free position appears.
$05 \cdot$ Press the remote control button you want to program. he display will blink and move to the next free location.

## - DELETE REMOTE CONTROLS

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).
$04 \cdot$ Use $\downarrow \uparrow$ to select the remote control location you want to delete. 05 - Press cmd for 3 sec . and the position is empty.
The display will flash and the position will be available.

- DELETE ALL THE REMOTE CONTROLS

01 - Press the cmd button for 5 sec
02 - The display will show dL, confirming that all remote controls have been deleted.


- Whenever you store or delete a remote control, the display will flash and show the next position You can add or delete remote controls without go back to point 01.
- If you do not press any button for 10 seconds the control board will return to standby.


## "P" MENU FUNCTIONS



Course programming

6B

- To access the $\mathbf{P}$ menu press the MENU button for 3 seconds.
- 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 | MIN. | MAX. |  | STATE | FACTORY VALUE | PAGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Course programming | - | - | 84 | Automatic programming | - | 8A |
|  |  |  |  | -18 | Semi-automatic programming |  |  |
|  |  |  |  |  | $5 C$ Sliding motor |  |  |
|  |  |  |  | 54 | $5 E$ Sectional motor |  |  |
|  |  |  |  |  | br Barriers |  |  |
|  |  |  |  |  | $\iota E$ Reversed motor direction |  |  |
|  |  |  |  | $d$ | $r \ell$ Standard motor direction |  |  |

motorline

## 03. INSTALLATION

## "P" MENU FUNCTIONS

| MENU | FUNCTION | MIN. | max. | STATE | FACTORY VALUE | PAGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Setting the deceleration time | 0 | 45 | d8 Opening deceleration | $\begin{aligned} & \text { SC: } 03 \\ & \text { BR: } 04 \\ & \text { SE: } 02 \end{aligned}$ | 8B |
|  |  |  |  | dF Closing deceleration | $\begin{aligned} & \text { SC: } 03 \\ & \text { BR: } 06 \\ & \text { SE: } 04 \end{aligned}$ |  |
|  | Force and sensitivity adjustment | 1 | 9 | FO Force adjustment | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 09 \end{aligned}$ | 8B |
|  |  |  |  | F5 Sensitivity adjustment | $\begin{gathered} \text { SC, BR: } 00 \\ \text { SE: } 04 \end{gathered}$ |  |
|  |  |  |  | Fd Sens. adjustment in deceleration | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ |  |
|  | Pedestrian course time | 1s | 99s | $F d$ Time adjustment in pedestrian mode | $\begin{gathered} \text { SC: } 10 \\ \text { BR, SE: } 00 \end{gathered}$ | 9 A |
| $1$ | Pause time | 1s | 99s | AF Total closing pause time adjustment | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ | 9B |
|  |  |  |  | AP Pedestrian closing pause time adjustment |  |  |
| E | Photocells programming | - | - | $\begin{aligned} & \text { LE } \\ & 00 \text { Disables photocells } \\ & 0 \mid \text { Activates photocells } \end{aligned}$ | $\begin{aligned} & \text { SC, BR, BR, } \\ & \text { SE: } \end{aligned}$ | 9B |
|  |  |  |  | HC 00 Photocells in closing |  |  |
|  |  |  |  | - 01 Photocells in opening |  |  |
|  |  |  |  | 5c 00 Disables photocell test |  |  |
|  |  |  |  | 500 Activates photocell test |  |  |
|  | Safety edge | - | - | LA 00 Disables safety edge | SC, BR, | 10A |
|  |  |  |  | - 0 Activates safety edge |  |  |
|  |  |  |  | HA 008 k 2 input | SC, BR, |  |
|  |  |  |  | - 01 NC input |  |  |
|  |  |  |  | 00 Safety edge in closing | $\begin{aligned} & \mathrm{SC}, \mathrm{BR}, \\ & \mathrm{SE}: 00 \end{aligned}$ |  |
|  |  |  |  | 5t 00 Disables | SC, BR: 00 |  |
|  |  |  |  | St 0iActivates | SE: 01 |  |
|  |  |  |  | 5c 00 Disables photocell test | SC, BR, |  |
|  |  |  |  | 0 O Activates photocell test | SE: 00 |  |
| $17$ | Operating logic | - | - | 00 Automatic mode function | $\begin{aligned} & \text { SC, SE:00 } \\ & \text { BR: } 02 \end{aligned}$ | 10B |
|  |  |  |  | 03 Step by step mode function |  |  |
|  |  |  |  | 02 Condominium mode function |  |  |
|  | Flashing light | - | - | 00 Fixed flashing light | $\begin{aligned} & \text { SC, SE, } \\ & \text { BR: } 00 \end{aligned}$ | 10B |
|  |  |  |  | 0 ) Blinking flashing light |  |  |
|  |  |  |  | 02 Courtesy light |  |  |
|  |  |  |  | 03 Electromagnet flashing light |  |  |
|  |  |  |  | 04 Flashing light lights up whenever opened |  |  |
|  | Remote programming | - | - | 00 Distance PGM OFF | $\begin{aligned} & \text { SC, SE, } \\ & \text { BR: } 00 \end{aligned}$ | 11A |
|  |  |  |  | O 0 Distance PGM ON |  |  |

SC: Sliding motor; SE: Sectional motor; BR: Barriers

## 03. INSTALLATION

## "E" MENU FUNCTIONS

- To access the E menu press the MENU button for 10sec.
- 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 | MIN. | MAX. | STATE | FACTORY VALUE | PAGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Human presence | - | - | 00 Desactivates human presence <br> 07 Ascent and descent in human <br> HP presence <br> 02 Automatic ascent, descent in Human presence | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ | 11B |
|  |  |  |  | PL00 Deactivate pushbutton operation <br> mode <br> OiActivate pushbutton operation <br> mode | $\begin{gathered} \text { SC, BR: } 00 \\ \text { SE: } 01 \end{gathered}$ |  |
|  | Soft START and Soft STOP | 0 | 9 | ro Set Soft START value | $\begin{gathered} \text { SC, BR: } 00 \\ \text { SE: } 05 \end{gathered}$ | 11B |
|  |  |  |  | $r c$ Set ramp value for slowing down (Soft STOP) | $\begin{gathered} \text { SC, SE: } 00 \\ \text { BR:05 } \end{gathered}$ |  |
|  | Courtesy light time/ Pre-flashing light | 0 | 99 | LE Adjustment of courtesy light time | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ | 12A |
|  |  |  |  | PP Adjustment of pre-flashing light time | $\begin{aligned} & \text { SC, BR, BR, } \\ & \text { SE: } 00 \end{aligned}$ |  |
|  | Follow me | 0 | 9 |  | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ | 12A |
|  |  |  |  | 0 Activates follow me |  |  |
| EE | Electric brake | - | - | 00 Deactivates electric brake | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ | 12B |
|  |  |  |  | 03 Activates electric brake |  |  |
|  | Deceleration speed | 1 | 9 | Deceleration speed adjustment | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 05 \end{aligned}$ | 12B |
|  | Maneuvers counter | - | - | Shows the number of maneuvers | - | 12B |
| $E I$ | Reset - restore factory values | - |  | 00 Deactivated | $\begin{aligned} & \text { SC, BR, } \\ & \text { SE: } 00 \end{aligned}$ | 13A |
|  |  |  |  | 0 Reset activated |  |  |
|  | RGB output | - | - | 00 Fixed RGB | $\begin{gathered} \text { SC, SE: } 03 \\ \text { BR: } 01 \end{gathered}$ | 13A |
|  |  |  |  | 0 Intermittent RGB |  |  |
|  |  |  |  | 02 Pre-Flashing light RGB |  |  |
|  |  |  |  | 03 2nd capacitor RGB |  |  |

SC: Sliding motor; SE: Sectional motor; BR: Barriers

|  | REMOTECONTROLS | 6B |
| :--- | :--- | :--- |
| Programming a remote control for full opening. | 6B |  |
| Programming a remote control for pedestrian opening. | 6B |  |

## 04. PROGRAMMING "P"

## PQ AUTOMATIC AND SEMI-AUTOMATIC COURSE PROGRAMMING

This menu allows automatic programming of the motor and deceleration.
During automatic programming, the motor will perform the following maneuvers 10 Slowly close the gate until it reaches the closing limit switch.
20 Slowly opens for about 10 seconds.
30 Slowly closes until it reaches the closing limit switch
40 The gate opens at normal speed until it reaches the opening limit switch.
50 The gate closes at normal speed until it reaches the closing limit switch.

Steps 2 and 3 are only made 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 .

## 01 - Press MENU for 3 seconds.

$02 \cdot$ P0 appears. Press MENU for 1 second
$03 \cdot A U$ appears. Press MENU for 1 second to start automatic programming.
$\mathbf{0 4}$ •When programming is complete, the display returns to the initial state (--).

This menu allows you to program the motor's working time in a semi-automatic way, manually - $1-1$ defining the decelerations.

To do this, press MENU at the moment you want to START the slowdown (idling), 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 gate reaches the end of each course.

01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press MENU for 1 second.
$03 \cdot \mathrm{AU}$ appears. Press $\uparrow 1$ time to show MA
$04 \cdot$ When MA appears, press MENU for 1 second. The motor will start a slow closing of the gate.
05 - When it reaches the closing limit switch, it will open automatically
06 - Press MENU when you want to start the opening deceleration.
$07 \cdot$ When it reaches the closing limit switch, it will automatically close.
08 - Press MENU when you want to start the closing deceleration.

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This menu allows you to select the type of automation to be used: $5[$ sliding gate, $5 E$ sectional door, br barriers.

01 - Press MENU for 3 seconds
02 - P0 appears. Press MENU for 1 second.
$03 \cdot$ AU appears. Press $\uparrow 2$ twice to show SY
$04 \cdot$ When SY appears, press MENU.
05 - Select the type of motor you want and press MENU to confirm.

## 04. PROGRAMMING "P"

## PQ AUTOMATIC AND SEMI-AUTOMATIC COURSE PROGRAMMING

With this menu you can change the direction of the motor's movement, without change the connection of the motor wires and limit switches

- $\cdot$ Change the motor's movement directio
$r \varepsilon$ • To restore standard motor movement


## pa SETTING THE DECELERATION TIME

dif It allows to define the slowdown time in the opening phase.
$\Delta F$
It allows defining the slowdown time in the closing phase.

Factory values SC: 03; BR: 04; SE: 02

Factory values SC: 03; BR: 06; SE: 04


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

01 - Press MENU for 3 seconds
$02 \cdot$ P0 appears. Press $\downarrow$ once
$03 \cdot$ P1 appears. Press MENU for 1 second.
$04 \cdot$ tP appears. Press MENU for 1 second.
$05 \cdot$ dA appears. Press MENU for 1 second.
$06 \cdot$ Appears the time defined from factory. If you want, change the time from 1 to 45 sec . using $\downarrow \uparrow$ 07 - Press MENU for 1 second, to save the defined time. dF appears. Press MENU for 1 second $08 \cdot$ Appears the time defined from factory. If you want, change the time from 1 to 45 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.

## Q2 FORCE AND SENSITIVITY ADJUSTMENT

If you set the sensitivity (FS) to a value over 1, the force (FO) is automatically set to 9 without the possibility to change it.
Note: If the control board has very high sensitivity values, will show the error LI. After four attempts, the LI error will turn ER.
You will have to wait 10 seconds to return to program the automatism.
II allows to regulate the motor's operation force when opening and closing.
motorline

## 04. PROGRAMMING "P"

## pe FORCE AND SENSITIVITY ADJUSTMENT

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


If you activate this function, the force is automatically set to 9.
To activate the function,
F It allows you to adjust the sensitivity during
you must make a new programming of the course. This will allow the control board to assume new settings.

01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press $\downarrow$ twice.
$03 \cdot$ P2 appears. Press MENU for 1 second.
$04 \cdot$ FO 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.
$07 \cdot$ FS appears. Press MENU for 1 second
$08 \cdot$ 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, 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.

## 93 PEDESTRIAN COURSE TIME

F It allows the gate to be opened for people to pass through, without it being fully opened, you can program the time you want the gate to open.

Factory values
SC: 10
BR, SE: 00

For pedestrian mode work, the minimum working time must be 1 second, where 0 disables the pedestrian mode.

01 - Press MENU for 3 seconds
$02 \cdot$ P0 appears. Press $\downarrow$ three times.
$03 \cdot$ P3 appears. Press MENU for 1 seconds.
$04 \cdot$ Appears the time set from factory. If you want, change time between 1 and 99 sec ., using $\downarrow \uparrow$. 05 - Press MENU to save the defined time.
$06 \cdot$ P4 appears. To program P4, continue in step 3 from P4 menu (page 9B).
To exit the programming press $\downarrow \uparrow$ simultaneously.

## 04. PROGRAMMING "P"

## 4 PAUSE TIME

## Total closing pause time adjustment

## C, BR: 00

 SE: 04
## factory values

 SC, BR, SE: 00Allows you to set the waiting time for the gate from when it finishes fully opening until it starts to close.

## Pedestrian closing pause time adjustmen

 until it starts to close

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

01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press $\downarrow$ four times
$03 \cdot$ P4 appears. Press MENU for 1 second.
$04 \cdot A F$ 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.
$08 \cdot$ Appears the time set from factory. If you want, change time between 1 and 99 sec ., using $\downarrow \uparrow$. 09 - Press MENU for 1 second to save the defined time.
10•P5 appears. To program P5, continue in step 3 from P5 menu (page 9B). To exit the programming press $\downarrow \uparrow$ simultaneously.

## PS PHOTOCELLS PROGRAMMING

## 00 (disables photocells) 01 (activates photocells)

 gate reverses the direction set in HC .00 (photocells during the closing) 01 (photocells during the opening)
This menu can only be changed when the LE menu is active
00 - photocell only intervenes during closure and reverses in full.
II 00 (disables photocell test) 01 (activates photocell test)
01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press $\downarrow$ five times.
$03 \cdot$ P5 appears. Press MENU for 1 second.
$04 \cdot$ HE appears. Press MENU for 1 second.
$05 \cdot$ Appears the function set from factory. If you want, change it between 00 and 01 using $\downarrow \uparrow$
06 - Press MENU for 1 seconds to confirm the defined function.
$07 \cdot$ HC appears. Press MENU for 1 second.
08 - Appears the function set from factory. If you want, change it between 00 and 01 using $\downarrow \uparrow$
09 - Press MENU for 1 seconds to confirm the defined function.
$\mathbf{1 0}$ • P6 appears. To program P6, continue in step 3 from P6 menu (page 10A).
To exit the programming press $\downarrow \uparrow$ simultaneously.

## 04. PROGRAMMING "P"

## P6 SAFETY EDGE

00 (disables safety edge) 01 (activates safety edge)
The menu allows you to activate/deactivate its operation.

## 00 ( 8 k 2 input) 01 ( NC input)

- 1 R You can only program HA if it has LA enabled (page 10A). Therefore, you can choose safety edge with 8 k 2 resistive type ( 00 ) or safety edge with normally closed contact, NC (01).
00 (safety edge during closure) 01 (safety edge during opening)
You can only program HL if it has LA enabled (page 10A) and after choose the type of safety edge in HA .

Factory values SC, BR, SE: 00

## Factory values

SC, BR, SE: 01

## Factory values

 SC, BR, SE: 00In closure (00) the gate reverses, in opening (01) reverses only 2 seconds.

## Activate the STOP button

Whenever this parameter is selected, it has priority over any other becomes STOP).
51
00 (disables photocell test) 01 (activates photocell test)
Factory values SC, BR, SE: 01

Factory values
Factory values
SC, BR, SE: 00

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

01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press $\downarrow$ six times
03 - P6 appears. Press MENU for 1 second
$04 \cdot$ LA appears. Press MENU for 1 second
$05 \cdot$ Appears the function set from factory. If you want, change it between 00 and 01 using $\downarrow \uparrow$. 06 - Press MENU for 1 second to confirm the defined function.
$07 \cdot$ HA appears. Press MENU for 1 second.
08•Appears the function set from factory. If you want, change it between 00 and 01 using $\downarrow \uparrow$. 09 - Press MENU for 1 second to confirm the defined function.
$\mathbf{1 0} \cdot \mathrm{HL}$ appears. Press MENU for 1 second.
11 - Appears the function set from factory. If you want, change it between 00 and 01 using $\downarrow \uparrow$. 12 - Press MENU for 1 second to confirm the defined function.
13 - ST appears. Press MENU for 1 second.
14• Appears the function set from factory. If you want, change it between 00 and 01 using $\downarrow \uparrow$ 15-Press MENU for 1 second to confirm the defined function.
P7 appears. To program P7, continue in step 3 from P7 menu (page 10B). To exit the programming press $\downarrow \uparrow$ simultaneously.

## 04. PROGRAMMING "P"

## 27 OPERATING LOGIC

This menu allows you to set the gate's operating mode.

## Functioning in automatic mode

10 1 st impulse - opens
2nd impulse - STOPS, TIMER AND CLOSES (if P4>00)
3rd impulse - INVERTS

## Functioning in step by step mode

 1st impulse - OPENS11 2nd impulse - STOPS
3rd impulse - CLOSES
4th impulse - STOPS
If is fully open and timed, the gate closes

02Functioning in condominium mode Does not accept orders during opening and pause time, in closure it reverses (either by remote control or control board start button)

01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press $\downarrow$ seven times.
$03 \cdot$ P7 appears. Press MENU for 1 second.
$04 \cdot$ Appears the function currently set. If you want, change the function to 00,01 or 02 , using $\downarrow \uparrow$
$05 \cdot$ Press MENU to save the defined function.
$06 \cdot$ P8 appears. To program P8, continue in step 3 from P8 menu (page 10B).
To exit the programming press $\downarrow \uparrow$ simultaneously.

## 98 FLASHING LIGHT

## Blinking flashing light (opening and closing)

During the opening/closing movement, the flashing mode will work intermittently.

## Fixed flashing light

 remain lit.Courtesy light
light acco operation, it converts the flashing light output into courtesy

Factory values
SC, BR, SE: 00

## Electromagnet flashing ligh

Its function is to use an electromagnet in the lock so that it is not
possible to open the door or barrier. Whenever it is carrying out a closing maneuver or is closed, it remains with the flashing light output activated.
Flashing light lights up whenever opened

## 04. PROGRAMMING "P"

## 98 FLASHING LIGHT

01 - Press MENU for 3 seconds.
$02 \cdot$ P0 appears. Press $\downarrow$ eight times
$03 \cdot$ P8 appears. Press MENU for 1 second.
04 - Appears the function currently set. If you want, change the function to $00,01,02$ or 03 , using $\downarrow \uparrow$. $05 \cdot$ Press MENU to save the defined function.
$06 \cdot$ P9 appears. To program P9, continue in step 3 from P9 menu (page 11A). To exit the programming press $\downarrow \uparrow$ simultaneously.

## 99 REMOTE PROGRAMMING

This menu allows you to enable or disable the new remote controls programming without access directly to the control board by using a previously stored remote control (memorize remote controls page 6B).
00 Disane egan off

## Factory values SC, BR, SE: 00

$01 \cdot$ Press MENU for 3 seconds
$02 \cdot$ P0 appears. Press $\downarrow$ nine times.
$03 \cdot$ P9 appears. Press MENU for 1 second.
$04 \cdot$ 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.
$06 \cdot$ P1 appears. To exit the programming press $\downarrow \uparrow$ simultaneously.


## Distance programming operation (PGM ON):

Press the buttons indicated in the picture at the same time for 10 seconds and the flashing light will start to flash (the display shows the 1st free position).
Whenever you memorize a remote control, the control board will leave the distance programming mode. If you want to program more remote controls, you will need to repeat the process of pressing simultaneously the remote control buttons for 10 seconds for each new remote control.

## 05. PROGRAMMING "E'

## EO HUMAN PRESENCE

|  | Deactivates human presence | Factory values |
| :--- | :--- | :--- |
| SC, BR, SE: 00 |  |  |


| Q | LS Button | LO Button |  |
| :--- | :--- | :--- | :--- | :--- |
| 01 ACTIVATED | Total Closing | Total Opening | Factory values <br> SC, BR, SE: 01 |
| $\mathbf{0 0 0}$ DEACTIVATED | Pedestrian maneuvers | Total maneuvers |  |

01 - Press MENU for 6 seconds.
02 - EO appears. Press MENU for 1 second.
$03 \cdot$ HP appears. Press MENU for 1 second.
$04 \cdot$ Appears the function currently set. If you want, change the function to 00,01 or 02 , using $\downarrow \uparrow$.
05 - Press MENU for 1 second to confirm the defined time.
$06 \cdot$ PL appears. Press MENU for 1 second.
07 - Appears the function currently set. If you want, change the function to 00 or 01 , using $\downarrow \uparrow$. $08 \cdot$ Press MENU for 1 second to confirm the defined function.
$09 \cdot$ E1 appears. To program E1, continue in step 3 from E1 menu (page 11B). To exit the programming press $\downarrow \uparrow$ simultaneously.

## E SOFT START AND SOFT STOP

This menu allows to set the values to control the motor movement speed at the beginning and near the end of the courseSOFT START - when activated, at each start of movement, the control
-a
board will control the start of the motor, gradually increasing it in the first second(s) of movement.

Factory values
SC, BR: 00
SE: 00
[
SOFT STOP - when activated, at each start of deceleration there will be a gradual decrease in speed so that the speed change is not sudden.

The Soft Start value must be lower than the deceleration value, in order to avoid delays Enter the P1 menu to set the slowdown values (page 8B).

01 - Press MENU for 6 seconds.
$02 \cdot$ E0 appears. Press $\downarrow$ once.
$03 \cdot$ E1 appears. Press MENU for 1 second.
04 - Appears ro or rc. Press MENU once, in the parameter you want
05 - If you want, change the function to 00 or 01 , using $\downarrow \uparrow$.
06 - Press MENU to save the defined function.

## 05. PROGRAMMING "E"

## $\varepsilon z$ COURTESY LIGHT TIME/PRE-FLASHING LIGHT

This menu is only available if the Courtesy Light function is active in menu P8 (see page 11A).
Adjustment of courtesy light time
This menu allows you to define the time (from 1 to 99 minutes) that the
courtesy light stays on after the gate completes the closing maneuver.

## Adjustment of pre-flashing light time

Factory values SC, BR, SE: 00
pp This menu allows you to define the time (from 1 to 99 seconds) that the flashing light remains active before the start of each maneuver.

01 - Press MENU for 6 seconds.
02 - E0 appears. Press $\downarrow$ twice.
$03 \cdot$ E2 appears. Press MENU for 1 second
$04 \cdot$ Appears the time set from factory. If you want, change time between 1 and 99 sec ., using $\downarrow \uparrow$. 05 - Press MENU to save the defined time
$06 \cdot$ E3 appears. To program E3, continue in step 3 from E3 menu (page 12A). To exit the programming press $\downarrow \uparrow$ simultaneously.

## E3 FOLLOW ME

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 based on the time selected in this parameter.
To activate Follow me function, P5 have to be set with:
HE=01 / HC=00 (see page 9B)

| Values above 0 activate the function ( 9 is the maximum value) | Factory values |
| :--- | :--- |
| SC, BR, SE: 00 |  |

01 - Press MENU for 6 seconds
$02 \cdot$ E0 appears. Press $\downarrow$ three times.
$03 \cdot$ E3 appears. Press MENU for 1 second
$\mathbf{0 4}$ • Appears the function from factory set. If you want, change the function to the desired time, using $\downarrow \uparrow$.
05 - Press MENU to save the defined function.
06 - E4 appears (is inactive). To program E5 continue to step 3 of the menu E5 (12B). To exit the programming press $\downarrow \uparrow$ simultaneously.

Menu E4 (Encoder) inactive.
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## 05. PROGRAMMING "E"

## E5 ELECTRIC BRAKE

With the electronic brake, whenever the gate stops, or is given an order to reverse the movement, the advance decreases, counteracting the inertia exerted Factory values by the gate.

01 - Press MENU for 6 seconds.
$02 \cdot$ EO appears. Press $\downarrow$ five times.
$04 \cdot$ Appears the value currently set. If you want, change the function to 00 or 01 , using $\downarrow \uparrow$
05 - Press MENU to save the defined value.
$06 \cdot$ E6 appears. To program E6, continue in step 3 from E6 menu (page 12B). To exit the programming press $\downarrow \uparrow$ simultaneously

## E6 DECELERATION SPEED

This menu lets you set the deceleration speed in opening and closing.
The higher the level, the faster is the deceleration
Factory values SC, BR, SE: 05

01 - Press MENU for 6 seconds.
02. E0 appears. Press $\downarrow 6$ times
$03 \cdot$ E6 appears. Press MENU for 1 second.
$\mathbf{0 4}$ - Appears the value currently set. If you want, change the function to 01 or 09 , using $\downarrow \uparrow$ $05 \cdot$ Press MENU to save the defined value.
$\mathbf{0 6} \cdot \mathrm{E7}$ appears. To program E7, continue in step 3 from $\mathrm{E7}$ menu (page 12B).
To exit the programming press $\downarrow \uparrow$ simultaneously

## E 7 MANEUVERS COUNTER

This menu allows you to check how many complete maneuvers were performed by the control board (complete maneuver it is understood by opening and closing).
$\$$ The control board reset does not erase the maneuvers count.
Example: 13456 maneuvers
01 - Hundreds of thousands / 34 - Thousands / 56 - Dozens
01 - Press MENU for 6 seconds.
$02 \cdot$ E0 appears. Press $\downarrow$ seven times
03 . Press MENU for 1 second.
$04 \cdot$ Appears the maneuvers counting in the following order (example 130371 ):

$05 \cdot$ E8 appears. To program E8, continue in step 3 from E8 menu (page 13A). To exit the programming press $\downarrow \uparrow$ simultaneously.

## 05. PROGRAMMING "E"

## E8 RESET - RESTORE FACTORY VALUES

By doing reset, all factory settings will be restored.
Factory values SC, BR, SE: 00
$01 \cdot$ Press MENU for 6 seconds.
$02 \cdot$ EO appears. Press $\downarrow$ eight times
$03 \cdot$ E8 appears. Press MENU for 1 second
$04 \cdot$ Appears the function currently set. If you want to reset, change the function to 01 , using $\downarrow \uparrow$.
$05 \cdot$ Press MENU for 1 second to reset.
$06 \cdot$ E9 appears. To program E9, continue in step 3 from E9 menu (page 13A). To exit the programming press $\downarrow \uparrow$ simultaneously

## E9RGB OUTPUT

This menu allows you to select the functioning mode of the four signs (page 10A).
Tif Fixed output
17 Intermittent output
Flashes green for 3 seconds before each maneuver (exit only)
Factory values
SC, SE: 03
BR: 01
7 This function only interferes with the " Y " output (all other outputs work normally), activates the capacitor for 2 seconds at each start (extra module)
$01 \cdot$ Press MENU for 6 seconds.
$02 \cdot$ EO appears. Press $\downarrow$ nine times.
$03 \cdot$ E9 appears. Press MENU for 1 second.
$04 \cdot$ Appears the function currently set. If you want, change the function to $00,02,03$ or 04 using $\downarrow \uparrow$. 05 - Press MENU for 1 second to save the defined function.
$06 \cdot$ E1 appears. To exit the programming press $\downarrow \uparrow$ simultaneously.

## 06. DISPLAY

## DISPLAY INDICATIONS

| mesu | discaripion |
| :---: | :---: |
| BP | Motor opening |
| CE | Motor closing |
| BF | In pause time |
| 8 P | In pedestrian pause time |
| E日 | Memory full |
| EP | Memory full (pedestrian) |
| 88 | Inversion by effort |
| EE | obstructed photocells |
| EF | No limit switches or both limit switches in opening |
| EA | Safety edge being pressed |
| ES | Pedestrian button being pressed |
| 88 | Start button being pressed |
| ER | Sensibility detection failure |
| E日 | Opening limit swith |
| FE | Closing limit switch |
| PR | Control in Pre-Flashing lamp |

## 07. COMPONENTS TEST

## CAPACITOR SCHEME


 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.

For your safety, do not make any changes to the connections without turning off the power supply.
All tests must be carried out by specialized technicians due to the serious danger related to the misuse of electrical systems!


In the position corresponding to each low voltage remote control input, the control board has a signaling LED to identify the status. The LED ON indicates that the input is closed, while the LED off indicates that the input is open.

## 08. CONNECTION SCHEME



## 08. CONNECTION SCHEME

CONNECTIONS SCHEME - SECTIONAL DOORS


## 08. CONNECTION SCHEME



## 08. CONNECTION SCHEME

CONNECTIONS SCHEME - PHOTOCELLS TEST ACTIVE


## 09. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS/TECHNICIANS

| Anomaly | Procedure | Behavior | Procedure II | Discovering the origin of the problem |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - Motor <br> doesn't work | - Make sure you have 110/230V power supply connected to control board and if it is working properly | - Still not working | - Consult a qualified MOTORLINE technician. | $1 \cdot$ Open control box and check if it has $110 / 230 \mathrm{~V}$ power supply. <br> 2•Check the control board input fuses. | 3-Switch off the control board from the motor and test it connected directly to an external power supply to find out if it is faulty (see page 14). | 4-If the motor works, the problem is in the control board. Remove it and send it to MOTORLINE technical services for diagnosis. | 5 - If the motor doesn't work, remove it from the installation site and send it to MOTORLINE technical services for diagnosis. |
| - Motor doesn't move but makes noise | - Unlock motor and move the gate by hand to check for mechanical problems on the movement | - Encountered problems? | - Consult a qualified gates technician. | Check all axes and movement systems associated with the gate/barrier (pins, hinges, etc.) to find out what the problem is. |  |  |  |
|  |  | - The gate moves easily? | - Consult a qualified MOTORLINE technician. | 1 - Check capacitors, testing with new capacitor. | 2-If capacitors are not the problem, disconnect motor from control board and it them by connecting directly to power | supply in order to find out if it has problems (see page 14). <br> 3. If the motor doesn't work | remove them from installation site and send to our MOTORLINE technical services for diagnosis. |
| - Motor opens but doesn't close | - 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 remote control. | - The gate moves easily? | $\mathbf{1} \cdot$ Check if there is any obstacle in front of the photocells; <br> 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 board; <br> 3-Consult a qualified MOTORLINE | All MOTORLINE control boards have LEDs that allow you to easily conclude which devices are faulty. All safety device (DS) LEDs in normal situations remain lit. All LEDs of "START" circuits in normal situations remain OFF. <br> If the device LEDs are not all on, there is a fault in the security systems (photocells, security edges). If "START" LEDs are ON, there is a remote control issuing device emitting a permanent signal. | A) SECURITY SYSTEMS: <br> 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. <br> 2- Remove one shunt at a time until you find the malfunction device. <br> 3 - Replace it for a functional device and check if the motor works correctly with all the other devices. If you | find another one defective, follow the same steps until you find all the problems. <br> B) START SYSTEMS: <br> $1 \cdot$ Disconnect all wires from START connector (PUL and PED). <br> 2•If the LED turned Off, try reconnecting one device at a time until you find the defective device. | NOTE: <br> In case procedures described in sections A) and B) don't result, remove control board and send to our technical services for diagnosis. |
| - Motor doesn't make complete route | - Unlock motor and move gate by hand to check for mechanical problems on the gate. | - Encountered problems? | - Consult a qualified gates technician. | Check all axes and movement systems associated with the gate/barrier (pins, hinges, etc.) to find out what the problem is. |  |  |  |
|  |  | - The gate moves easily? | - Consult a qualified MOTORLINE technician. | 1•Check capacitors, testing with new capacitors. <br> 2. If capacitors are not the problem, disconnect the motor from the control board and test the motor directly to the power supply to find out if it is faulty. <br> 3-If the motor doesn't work, remove it from installation site | and send to our MOTORLINE technical services for diagnosis. <br> 4- If L1 appears on the display while the motor is running, it means that the motor has stopped by effort detection. Unlock the motor and move the gate manually, checking if there is any blockage to its movement. <br> If the motor moves | normally, you need to adjust the force and sensitivity through the P2 menu. <br> 5-If this doesn't work, remove control board and send it to MOTORLINE technical services. | NOTE: <br> Tuning the force of the control board must be enough to open and close the gate without stopping it, but with a little effort from a person to stop it. In case of failure of the security systems, the gate can never cause physical damage to obstacles (vehicles, people, etc). |

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