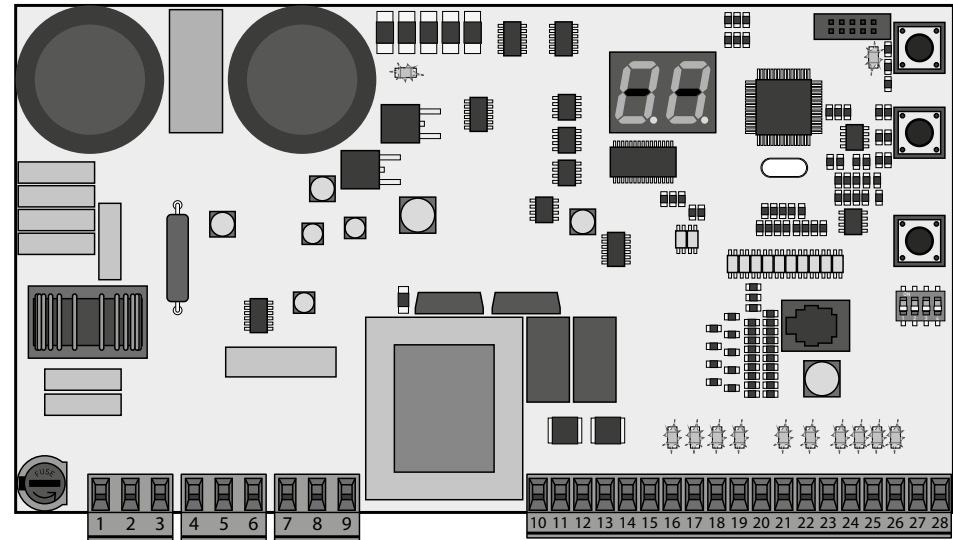




MC111

USER / INSTALLER MANUAL



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ATTENTION:

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.



(Applicable in countries with recycling systems).

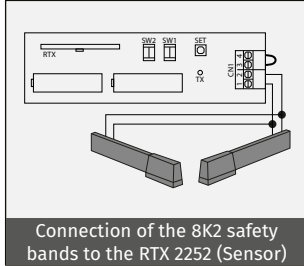
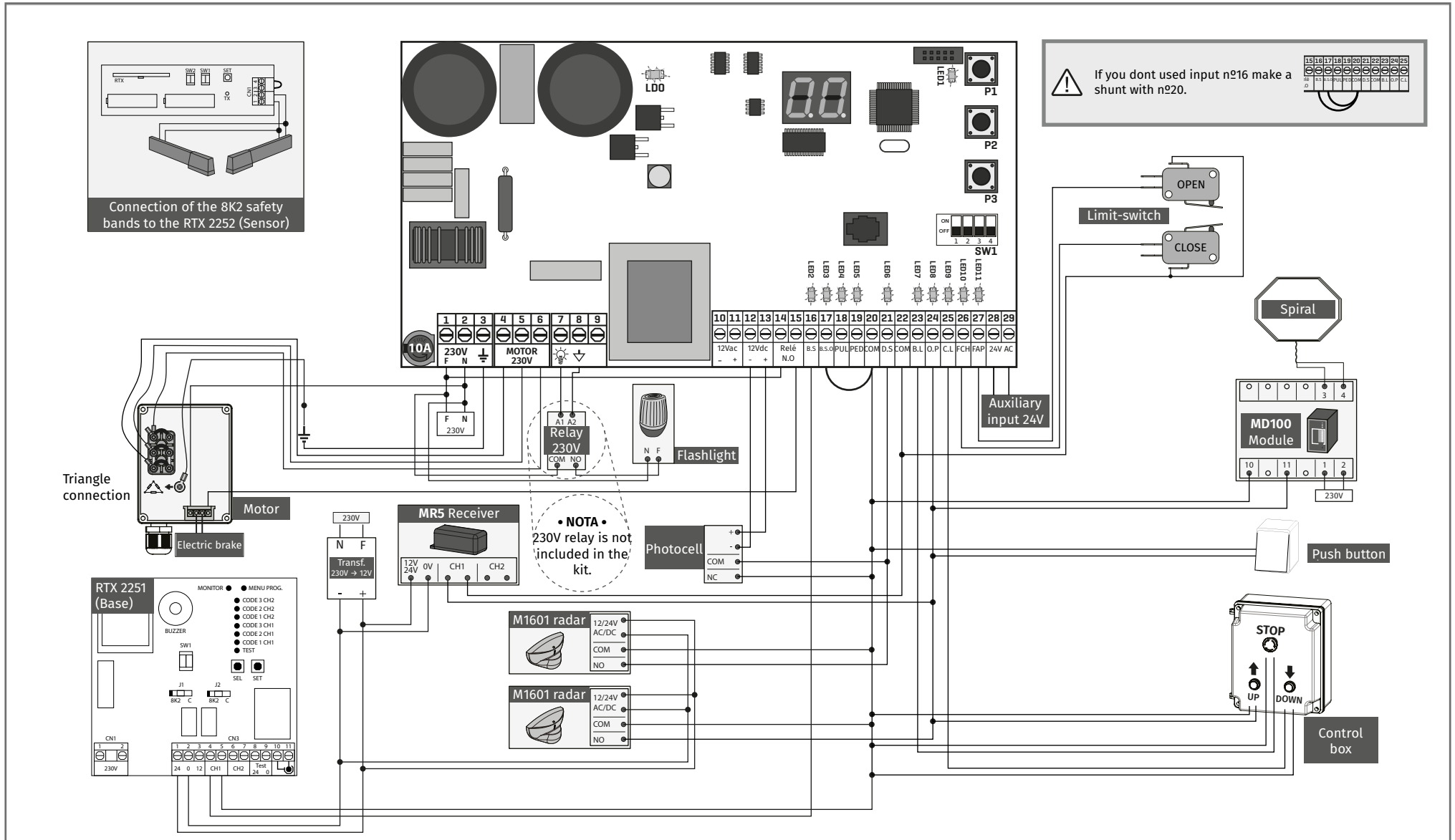
This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting 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.

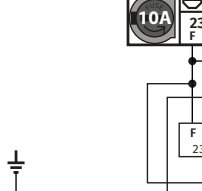
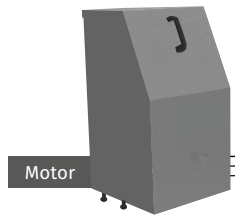
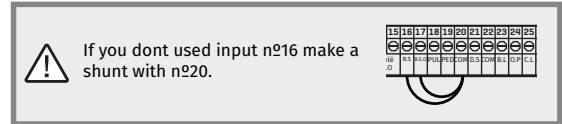
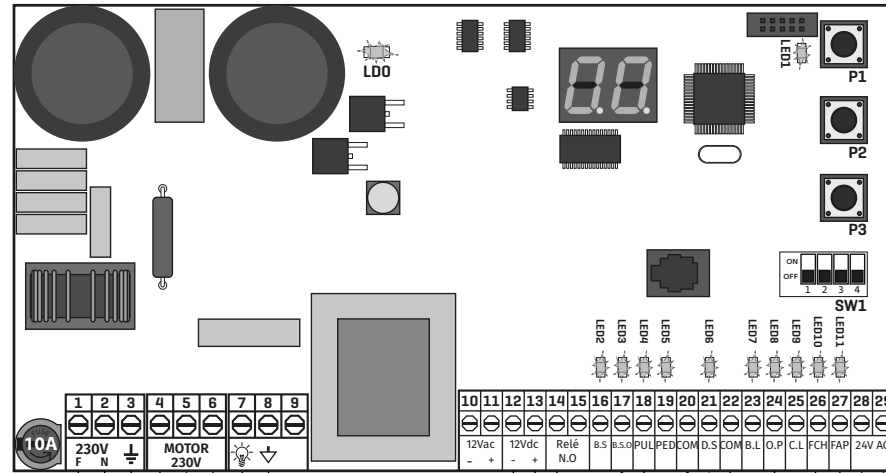
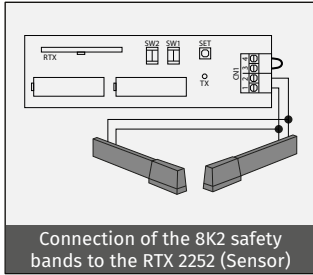
- It is important for your safety that these instructions are followed.
- Keep these instructions in a safe place for future reference.
- The **ELECTROCELOS S.A.** is not responsible for the improper use of the product, or other use than that for which it was designed.
- The **ELECTROCELOS S.A.** is 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 programming. 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.

RAPID DOOR

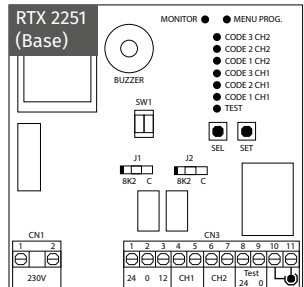
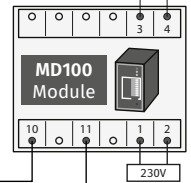
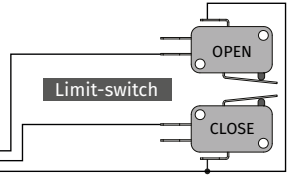
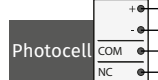
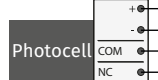
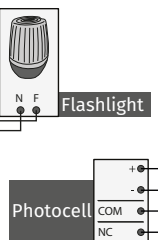


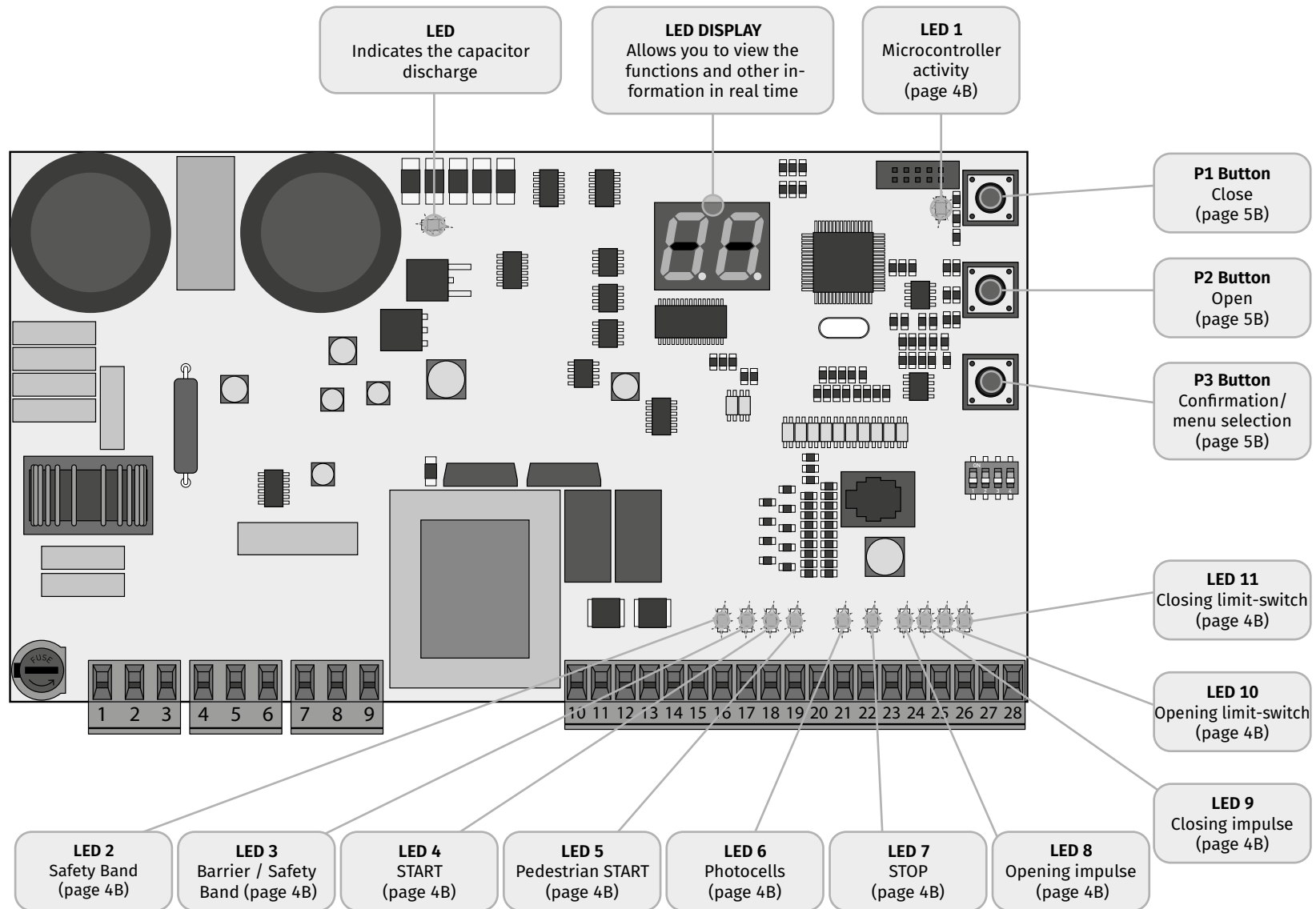
•NOTA•
230V relay is not included in the kit.

SLIDE 4000



• NOTA •
230V relay is not included in the kit.





03. THE CONTROL BOARD

TECHNICAL SPECIFICATIONS

The MC111 is a control board for automation rapid doors and sliding gates equipped with our Slide 4000 motor.

• Power supply	230V AC
• Lightbulb's output	230V AC 50Hz 100W max. (intermittent)
• Motor's output	230V AC ou 3x 230V AC (triangle)
• Auxiliary accessories output	12V-24V DC /AC 4 W m ^{ax} .
• Security and transmitters in BT	24V DC
• Working temperature	-20°C to + 55°C
• Control board dimensions	225mm x 140mm

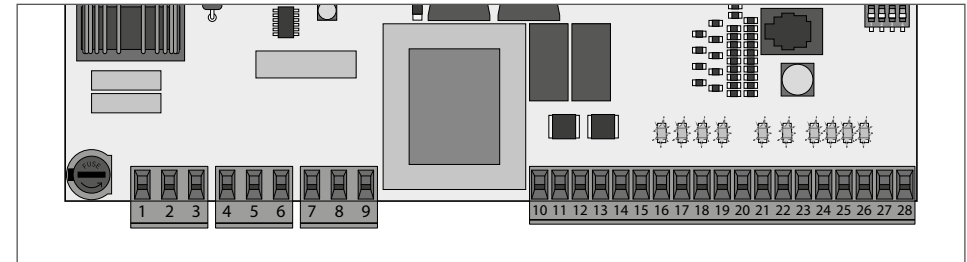
03. THE CONTROL BOARD

WORK FREQUENCY

	Min-Max	Ind. Roll-u doors/ Ind. Stacking door	Eco Door	SLIDE 4000
• Opening speed	01/99Hz	50Hz	50Hz	50Hz
• Closing speed	01/99Hz	35Hz	35Hz	40Hz
• Opening deceleration speed	01/99Hz	25Hz	25Hz	25Hz
• Closing deceleration speed	01/99Hz	20Hz	25Hz	25Hz

03. THE CONTROL BOARD

CONNECTOR'S DESCRIPTION



CN1	01 • 230V line input (phase)
	02 • 230V line input (neutral)
	03 • 230V line input (ground wire)
CN2	04 • Motor's output 1 (phase)
	05 • Motor's output 2 (phase)
	06 • Motor's output 3 (phase)
CN3	07 • 230V AC Lightbulb
	08 • Lightbulb (common)
	09 • NOT USED
CN4	10 • 12V AC output
	11 • 12V AC output
	12 • 12V DC output- accessories
	13 • 12V DC output- accessories
	14 • Auxiliary contact NO
	15 • Auxiliary contact NO
	16 • Safety band input - Closing (NC)
	17 • Safety band input - opening and closing (NC)
	18 • Input for START (NO) - (OPENS/STOPS/CLOSES)
	19 • Pedestrian START input (SLIDE 4000) - NO
	20 • 0V DC Common
	21 • Photocell input (NC)
	22 • Common 0V DC
	23 • STOP Input (NC)
	24 • Opening start input (NO)
	25 • Closing start input (NO)
	26 • Limit-switch input (opening) (NC)
	27 • Limit-switch input (closing) (NC)
	28 • 24V AC Input
29 • 24V AC Input	






In the outputs
12 and 13 12V DC
28 and 29 24V AC
4 watts maximum

Before proceeding to the control board configuration, note the following points listed in the table below in order to better understand the control board function:

LEDS	<p>LED 1 • LED lit when the control board is powered 230V AC</p> <p>LED 2 • LED off when the safety band (closing) is activated</p> <p>LED 3 • LED off when the safety band (opening / closing) is activated</p> <p>LED 4 • LED lit when it is given a START</p> <p>LED 5 • LED lit when it is given a pedestrian START</p> <p>LED 6 • LED off when the photocells are activated</p> <p>LED 7 • LED off when the STOP button is activated</p> <p>LED 8 • LED lit when the OPEN button is activated</p> <p>LED 9 • LED lit when the CLOSE button is activated</p> <p>LED 10 • LED off when the opening limit switch is activated</p> <p>LED 11 • LED off when the closing limit switch is activated</p>
CN3	<p>Courtesy light or flashing light:</p> <p>07 and 08 • This output allows connection of a flashing light (flashing 230V output)</p>
CN4	<p>10 and 11 • Running during opening pause and closing.</p>
CN4	<p>Auxiliary output:</p> <p>12 and 13 • Auxiliary output to 12V DC accessories.</p> <p>28 and 29 • Auxiliary output to 24V DC accessories. $\left. \begin{array}{l} \text{12 and 13} \\ \text{28 and 29} \end{array} \right\} 4W \text{ maximum}$</p>
CN4	<p>Safety circuits:</p> <p>16 and 17 • This input allows connection of safety bands. The input 16 reverse the movement during closing (if you do not use the input, make a shunt). The input 17 stops and relieves during the opening and reverses during the closing (if you do not use the input, make a shunt).</p> <p>21 • This input allows connection of photocells. When closing, reverse (if you do not use the input, make a shunt).</p>
CN4	<p>Command (START button)</p> <p>18 • Input for START button. (Cycle: OPEN - STOP - CLOSE).</p> <p>19 • Input for pedestrian START button.</p>

CN4	<p>Control device (STOP, OPEN and CLOSE button):</p> <p>23 • This input allows the connection of a STOP button (NC). An order sent (switch to NO) during the movement of the gate / door, makes its immediate stop, stopped until you return to the normal state (switch to NC). After returning to NC state, the first maneuver will always be opening and with a delay of 5 seconds after sending order of radio control or push button.</p> <p>24 • This input allows connection of a opening button (only opening order).</p> <p>25 • This input allows connection of a closing button (only closing order).</p>
-----	--

- Manages the RGB signaling circuit
- It has power supply for external components
- It can work as a receiver
- Works with safety band

P1	 Button to trigger the closing and scroll through the menus
P2	 Button to trigger the opening and scroll through the menus
P3	 Button to confirm / select programming menus

03. THE CONTROL BOARD

DIPPERS FUNCTIONING

DIPPER 1			ON • automatic closure enabled
			OFF • automatic closure disabled
DIPPER 2			ON • Inverted by start button (CN4, input 18-20) during the enabled closure)
			OFF • Inverted by start button (CN4, input 18-20) during the disabled closure)
DIPPER 3			ON • Does not accept start (CN4, input 18-20) during opening and pause time
			OFF • Accept start (CN4, input 18-20) during opening and pause
DIPPER 4			ON • Open/start button (CN4, input 18-20) for opening
			OFF • Open/start button (CN4, input 18-20), open-stop-close

The control board comes from factory with the dippers 1, 2 and 3 ON and the 4 OFF.

03. THE CONTROL BOARD

DISPLAY INDICATIONS

• POSSIBLE INDICATIONS ON THE DISPLAY

	Door / gate closed		Door / gate open
	Door / gate closing		Automatic programming
	Door / gate opening		Stop

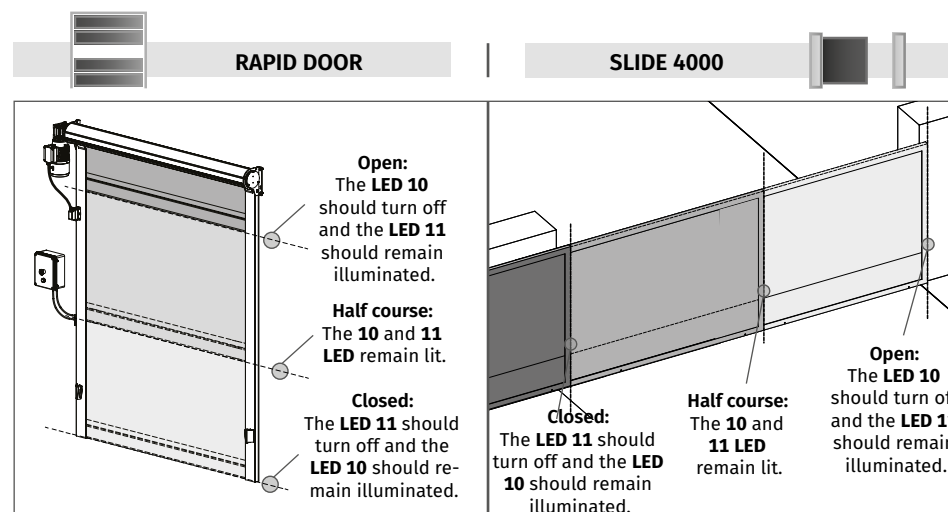
• ERROR INFORMATION ON THE DISPLAY

	Blocked		High temperature
	Short circuit		Instant overcurrent
	Function settings failure		Overcurrent delayed
	Loading capacitors failure		Programmer overvoltage

04. INSTALLATION

ESSENTIAL STEPS OFOR INSTALLATION

- 01 • Make the connections of all the accessories according to the wiring diagram (page 2).
- 02 • Connect the control board to a 230V power supply (terminals 1 and 2 - CN1).
- 03 • Move the door manually up to the middle of the course and lock the motor.
- 04 • LEDs 2, 3, 6 and 7 must be lit so that the door works properly, as they indicate the safety devices connection. In case of not using a security device, it is necessary to close the not used circuits with shunts.
- 05 • Move the door (open and close) with the help of P1 and P2. Adjust the limit switch until the respective LED turn off (10 or 11).



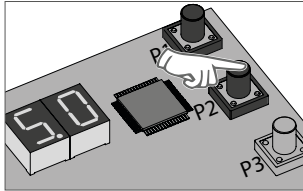
COURSE PROGRAMMING:

- 01 • Close the door (LED 11 should turn off).
- 02 • Press the P3 button repeatedly until TE in the display.
- 03 • Press the START button (CN4, input 18-20) and the door will open.
- 04 • When the gate is 40 to 50 cm of the total opening, press the START button.
- 05 • The door will slow down and stop when it reaches the opening limit switch. Wait the time you want for pause and press the start button again.
- 06 • The door will start closing and when the gate is 40 to 50 cm of the total closure, press the START button. When it stops in the limit switch, the automatic programming is finished.

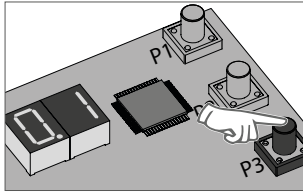
If LEDs do not go out as explained, it means that the cables from the limit switches are not well connected. Swap the terminal wire 26 with the 27.

PROGRAMMING:

01 • With the central plugged in, use P1 / P2 to navigate through the functions or moving the door / gate to adjustments.

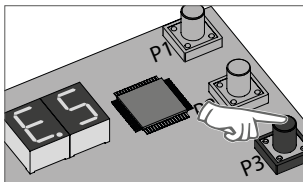












02 • To confirm any action, press P3.



LEAVE PROGRAMMING:

• If you want to leave the programming mode, press P1 / P2 to find E. S. Press P3 to confirm.



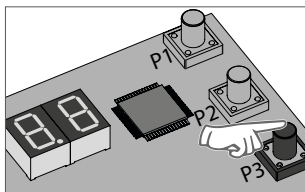
MENU	FUNCTION	 Industrial Roll-Up and Eco Doors / used values	 Used with Slide 4000 / used values	MÁX. MIN. PROGRAMMABLE	PAGE
01	Select door type	0.1.	0.1.	-	9A
02	 NOT USED (future use)				
03	Change pause time	1.0.	1.0.		9A
04	Adjust strength	9.9.	9.9.		9B
05	Opening frequency settings	5.0.	5.0.		9B
06	Closing frequency settings	3.5. to 4.0.	3.5. to 4.0.		10A
07	Deceleration frequency during the opening	2.5.	2.5.		10A
08	Deceleration frequency during the closing	2.0. to 2.5.	2.0. to 2.5.		10B
09	Amperometric sensitivity (opening)	Do not use (always maintain 0.0.)	Yes / 4.5.	-	10B
10	Amperometric sensitivity (closure)	Do not use (always maintain 0.0.)	Yes / 4.5.	-	11A
11	Deceleration amperometric sensitivity (opening)	Do not use (always maintain 0.0.)	Yes / 3.5.	-	11A
12	Deceleration amperometric sensitivity (closure)	Do not use (always maintain 0.0.)	Yes / 3.5.	-	11B
13	Startup acceleration time	0.5.	0.5.		11B
14	Closing strike	Do not use (always maintain 0.0.)	Do not use (always maintain 0.0.)	-	
15	Enable test function	Do not use (always maintain 0.0.)	Do not use (always maintain 0.0.)	-	12A
16	Count maneuvers	Yes	Yes	-	12A
UP	Present man	Optional	Optional	-	12B
E.S.	Escape (exit the menu)	Yes	Yes		

05. PROGRAMMING

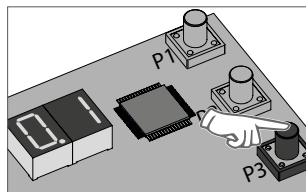
01 SELECT DOOR TYPE

This function lets you select the automation type (AC motor 230V AC), to which the center will work, knowing that:

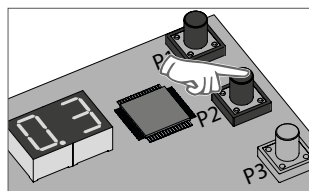
- 01 Sliding gate/Rapid door
- 02 DO NOT USE - other motors
- 03 DO NOT USE - other motors



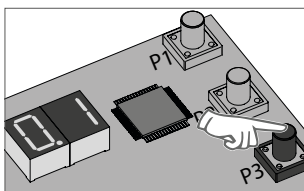
01 • Press P3 until 0.1 appear on the display.



02 • Press P3 to enter the menu.



03 • It appears 0.3 on the display (value set in production). Uses P1 / P2 to change it to 01.



04 • Press P3 to confirm.

05. PROGRAMMING

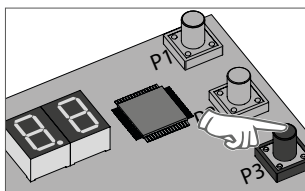
02 This function is already configured properly. Do not make changes to the default value. If you enter this function, leave and reprogram the function 01.

05. PROGRAMMING

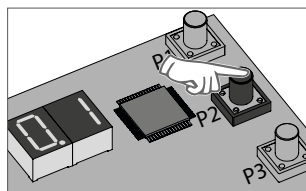
03 CHANGE PAUSE TIME

The pause time is the time (in seconds), the door will remain open after performing the opening. In the end of this time, the door automatically closes.

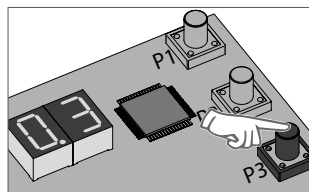
(Factory default 10)



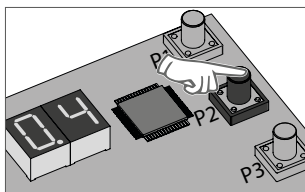
01 • Press P3 until 0.1 appear on the display.



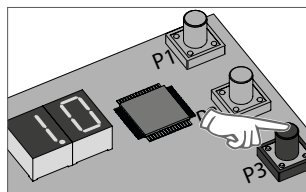
02 • Press P2 repeatedly until 0.3 appears.



03 • Press P3 to enter the menu.



04 • The display shows the stored value. Use P1 / P2 if you want to change the time.

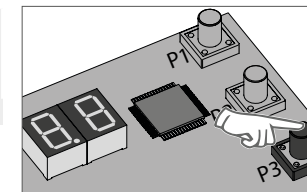


05 • Press P3 to confirm the time. To program 0.4. continue with step 3 from the menu 0.4. (page 9B).

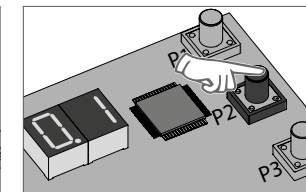
05. PROGRAMMING

04 ADJUST STRENGTH

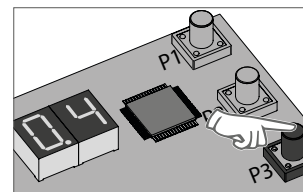
This function allows to adjust the operating force of the motor when opening and closing.



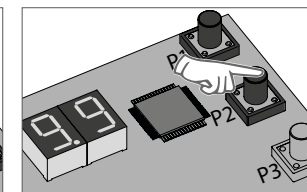
01 • Press P3 until 0.1 appear on the display.



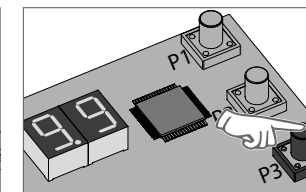
02 • Press P2 repeatedly until 0.4 appears.



03 • Press P3 to enter the menu.



04 • The display shows the stored value. Use P1 / P2 if you want to change the value.



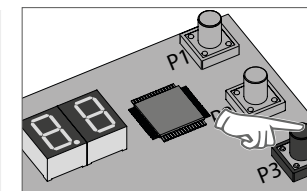
05 • Press P3 to confirm the value. To program 0.5. continue with step 3 from the menu 0.5. (page 9B).

05. PROGRAMMING

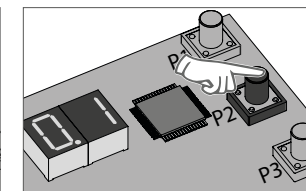
05 OPENING FREQUENCY

This function is to adjust the opening speed. The value shown on the display is in HZ.

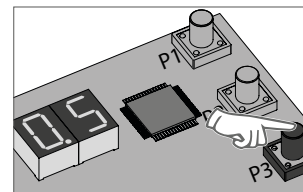
⚠ See table on page 5A.



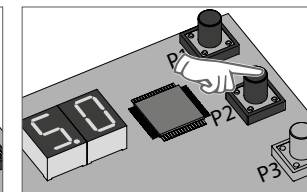
01 • Press P3 until 0.1 appear on the display.



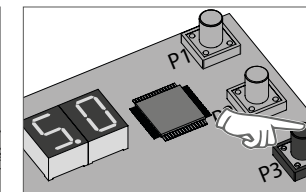
02 • Press P2 repeatedly until 0.5 appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized frequency. Use P1 / P2 if you want to change the frequency.



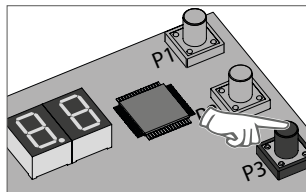
05 • Press P3 to confirm the frequency. To program 0.6. continue with step 3 from the menu 0.6. (page 10A).

05. PROGRAMMING

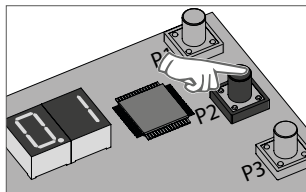
06 CLOSURE FREQUENCY

This function is to adjust the closing speed. The value is shown on the display in HZ.

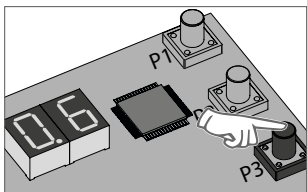
⚠ See table on page 5A.



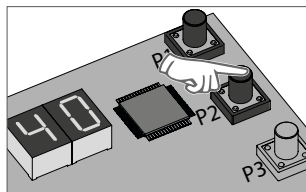
01 • Press P3 until 0.1 appear on the display.



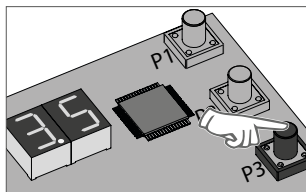
02 • Press P2 repeatedly until 0.6 appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized frequency. Use P1 / P2 if you want to change the frequency.



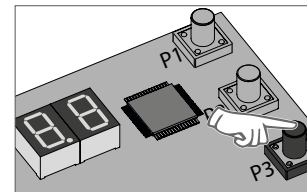
05 • Press P3 to confirm the frequency. To program 0.7, continue with step 3 from the menu 0.7. (page 10A).

05. PROGRAMMING

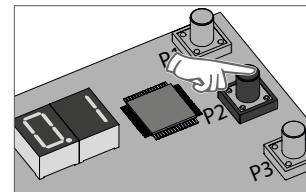
08 DECELERATION FREQ. DURING THE CLOSURE

This function is to adjust the idle speed in the closure. The value is shown on the display in HZ.

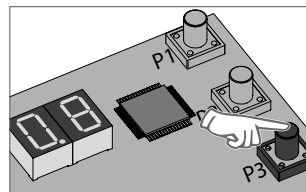
⚠ See table on page 5A.



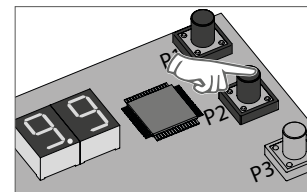
01 • Press P3 until 0.1 appear on the display.



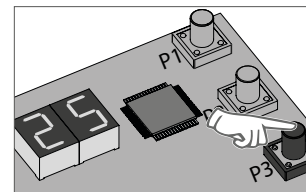
02 • Press P2 repeatedly until 0.8 appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized frequency. Use P1 / P2 if you want to change the frequency.



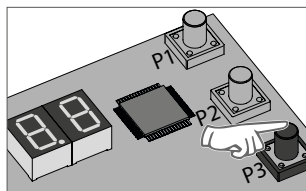
05 • Press P3 to confirm the frequency. To program 0.9, continue with step 3 from the menu 0.9. (page 10B).

05. PROGRAMMING

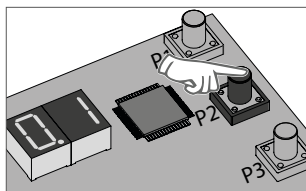
07 DECELERATION FREQ. DURING THE OPENING

This function is to adjust the idle speed in the opening. The value is shown on the display in HZ.

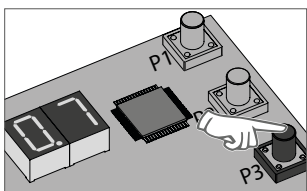
⚠ See table on page 5A.



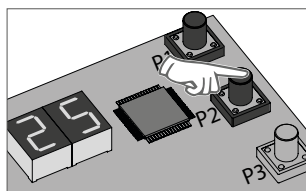
01 • Press P3 until 0.1 appear on the display.



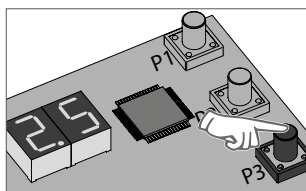
02 • Press P2 repeatedly until 0.7 appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized frequency. Use P1 / P2 if you want to change the frequency.



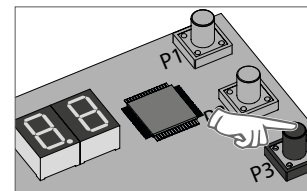
05 • Press P3 to confirm the frequency. To program 0.8, continue with step 3 from the menu 0.8. (page 10B).

05. PROGRAMMING

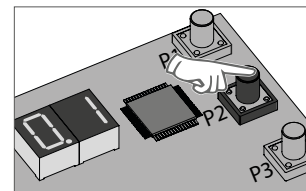
09 AMPEROMETRIC SENSIBILITY (OPENING)

This function is to adjust the motor's effort sensibility in the opening.

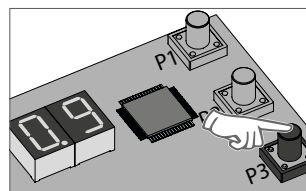
- 00** - Cancels sensibility
- 01** - High sensibility
- 09** - Low sensibility



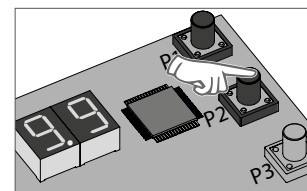
01 • Press P3 until 0.1 appear on the display.



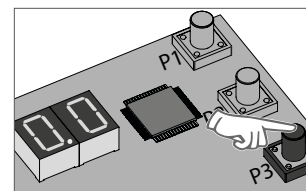
02 • Press P2 repeatedly until 0.9 appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized value. Use P1 / P2 if you want to change the sensibility.



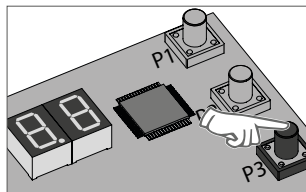
05 • Press P3 to confirm the sensibility. To program 1.0, continue with step 3 from the menu 1.0. (page 11A).

05. PROGRAMMING

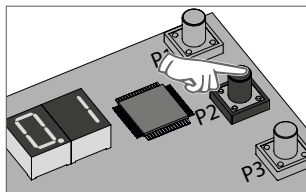
10 AMPEROMETRIC SENSIBILITY (OPENING)

This function allows to adjust the motor's effort sensibility in the closing.

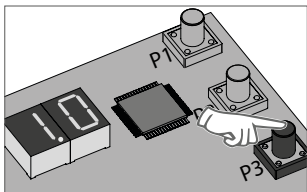
- 00 - Cancels sensibility
- 01 - High sensibility
- 09 - Low sensibility



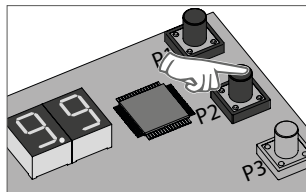
01 • Press P3 until 0.1 appear on the display.



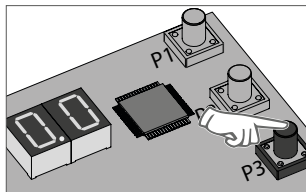
02 • Press P2 repeatedly until 1.0. appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized value. Use P1 / P2 if you want to change the sensibility.



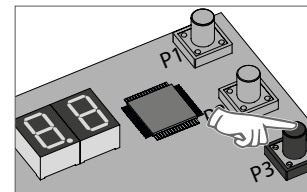
05 • Press P3 to confirm the sensibility. To program 1.1. continue with step 3 from the menu 1.1. (page 11A).

05. PROGRAMMING

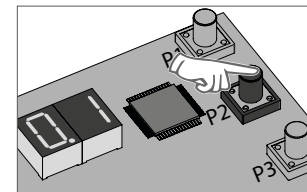
12 DECELERATION AMP. SENSIBILITY (CLOSING)

This function allows to adjust the motor's effort sensibility during the closing deceleration.

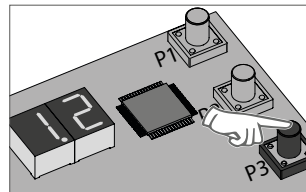
- 00 - Cancels sensibility
- 01 - High sensibility
- 09 - Low sensibility



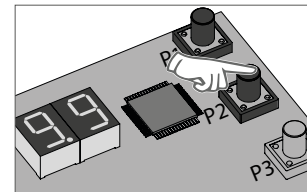
01 • Press P3 until 0.1 appear on the display.



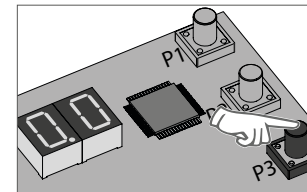
02 • Press P2 repeatedly until 1.2. appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized value. Use P1 / P2 if you want to change the sensibility.



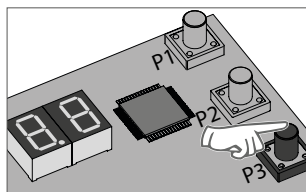
05 • Press P3 to confirm the sensibility. To program 1.3. continue with step 3 from the menu 1.3. (page 11B).

05. PROGRAMMING

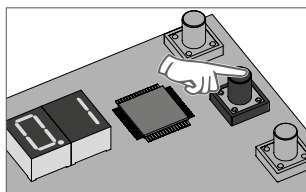
11 DECELERATION AMP. SENSIBILITY (OPENING)

This function allows to adjust the motor's effort sensibility during the opening deceleration.

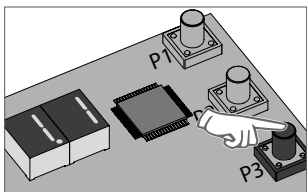
- 00 - Cancels sensibility
- 01 - High sensibility
- 09 - Low sensibility



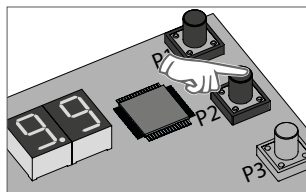
01 • Press P3 until 0.1 appear on the display.



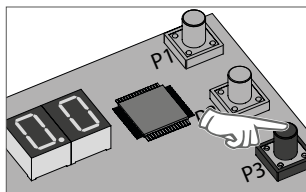
02 • Press P2 repeatedly until 1.1. appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized value. Use P1 / P2 if you want to change the sensibility.



05 • Press P3 to confirm the sensibility. To program 1.2. continue with step 3 from the menu 1.2. (page 11B).

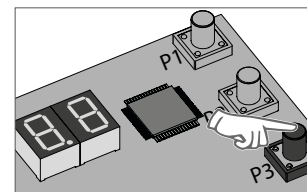
05. PROGRAMMING

13 ACCELERATION RAMP

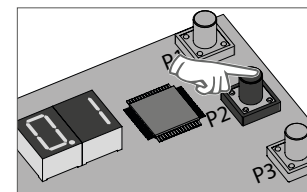
This function allows the soft start time adjustment.

- 1.0. = 1 second
- 0.5. = half second

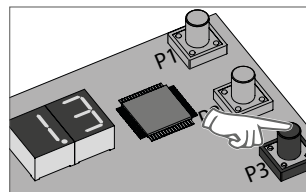
(Recommended value 0.5)



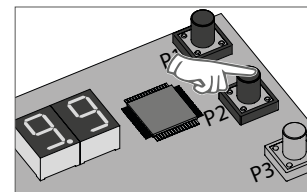
01 • Press P3 until 0.1 appear on the display.



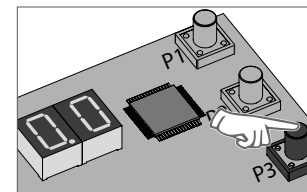
02 • Press P2 repeatedly until 1.3. appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized value. Use P1 / P2 if you want to change the value.



05 • Press P3 to confirm the value.

05. PROGRAMMING

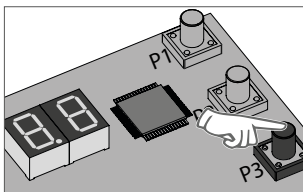
14 This function is already configured properly. Do not make changes to the default value (0).

05. PROGRAMMING

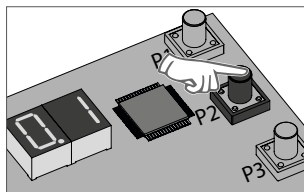
15 ENABLE TESTING FUNCTIONS

This function allows you to enable automatic movements for testing.

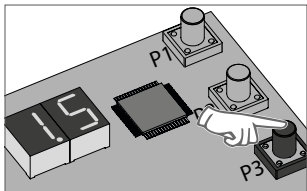
(Recommended value 0)



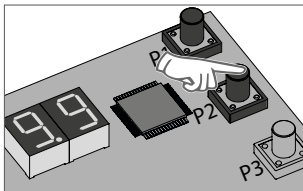
01 • Press P3 until 0.1 appear on the display.



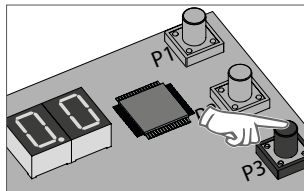
02 • Press P2 repeatedly until 1.5. appears.



03 • Press P3 to enter the menu.



04 • The display shows the memorized value. Use P1 / P2 if you want to change the function.

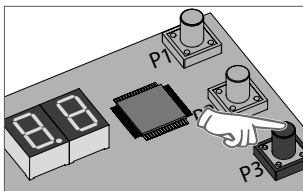


05 • Press P3 to confirm the sensibility. To program 1.6. continue with step 3 from the menu 1.6. (page 12A).

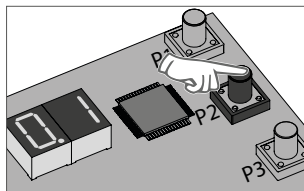
05. PROGRAMMING

16 MANEUVERS COUNTING

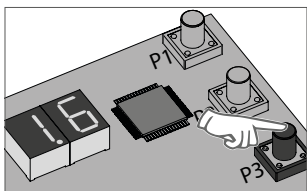
This menu allows you to check how many complete maneuvers were performed by the control board (complete maneuver is meant by opening and closing).
 ⚠ The control board reset does not erase the maneuvers counting.



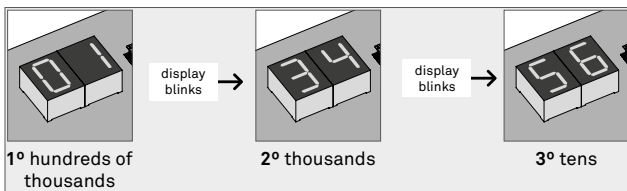
01 • Press P3 until 0.1 appear on the display.



02 • Press P2 repeatedly until 1.6. appears.



03 • Press P3 to enter the menu.

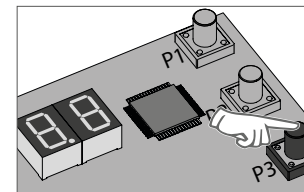


04 • The display shows the count of the maneuvers in the order shown in the picture above (the example shows 13,456 maneuvers).

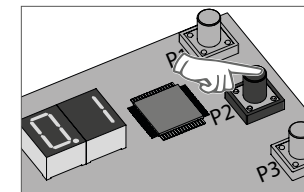
05. PROGRAMMING

UP PRESENT MAN

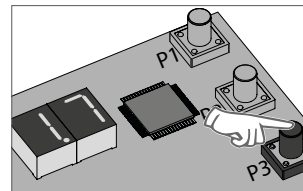
With this function active, the motor runs only if you hold down the push button.



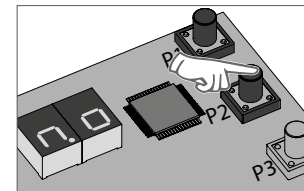
01 • Press P3 until 0.1 appear on the display.



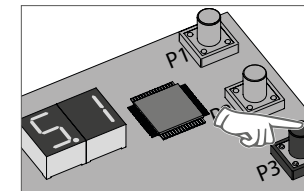
02 • Press P2 repeatedly until 1.7. appears.



03 • Press P3 to enter the menu.



04 • The display shows SI or NO. Use P1 / P2 if you want to change the function.



05 • Press P3 to confirm the selected function.

Anomaly	Procedure	Behavior	Procedure II	Discovering the origin of the problem			
• Door/motor doesn't work	• Make sure you have 230V power supply connected to operator 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 door from control board and test them by connecting directly to power supply in order to find out if they have problems	(see page 11.A). 4 • If the door works, the problem is on the control board. Pull it out and send it to our	MOTORLINE technical services for diagnosis;
• Door/motor doesn't move but makes noise	• Unlock door and move the gate/ tarpaulin by hand to check for mechanical problems on the movement	• Encountered problems?	• Consult a qualified MOTORLINE technician.	1 • Check all motion axis and associated motion systems related with the gate/motor (wheels, racks, etc.) to find out what is the problem.			
		• O The gate/ tarpaulin moves easily?	• Consult a qualified MOTORLINE technician.	1 • If the motor works, the problem is from control board. Pull it out and send it to our MOTORLINE technical services for diagnosis;	2 • If the motor doesn't work, remove them from installation site and send to our MOTORLINE technical services for diagnosis.		
• Door/motor opens but doesn't close	• Unlock motor and move gate/tarpaulin by hand to closed position. Lock motor again and turn off power supply for 5 seconds. Reconnect it and send order to open door using transmitter.	• Door/motor 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 door/gate are jammed and sending permanent signal to control unit; 3 • Consult a qualified MOTORLINE technician.	All MOTORLINE control boards have LEDs that easily allow to conclude which devices are with anomalies. All safety devices LEDs (DS) in normal situations remain On. All "START" circuits LEDs in normal situations remain Off. If LEDs devices are not all On, there is some security systems malfunction (photocells, safety edges), etc. If "START" circuits LEDs are turn On, there is a control device sending permanent signal.	A) SECURITY SYSTEMS: 1 • Close with a shunt all safety systems on the control board. 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 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.	B) START SYSTEMS: 1 • Disconnect all wires from START terminal input. 2 • If the LED turned Off, try reconnecting one device at a time until you find the defective device. NOTE: In case procedures described in sections A) and B) don't result, remove control board and send to our technical services for diagnosis.	
• Door/motor doesn't make complete route	• Unlock the motor and move gate by hand to check for mechanical problems.	• Encountered problems?	• Consult a gate specialized technician.	1 • Check all motion axis and associated motion systems related with the gate/motor (wheels, racks, etc.) to find out what is the problem.			
		• Gate/door moves easily?	• Consult a qualified MOTORLINE technician.	1 • If the motor doesn't work, remove it from installation site and send to our MOTORLINE technical services for diagnosis. 2 • Set the force on the control board. Program the motor's working time again assigning the required time and appropriated force for opening and closing. 3 • If this doesn't work, remove	control unit and send it to MOTORLINE technical services services. NOTE: Setting force of the controller should be sufficient to make the door open and close without stopping, but should stop and invert with a little effort from a person. In case of safety systems failure, the door shall never cause	physical damaged to obstacles (vehicles, people, etc.).	