PORTUGAL

MC61

USER/INSTALLER MANUAL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
24AC		+ BAT -		LAMP		MOT		LOCK		V+	↓	FAP	↓	FCH	PUL	BL	↓	DS

Motorline®
PROFESSIONAL

V2.0
REV. 03/2017
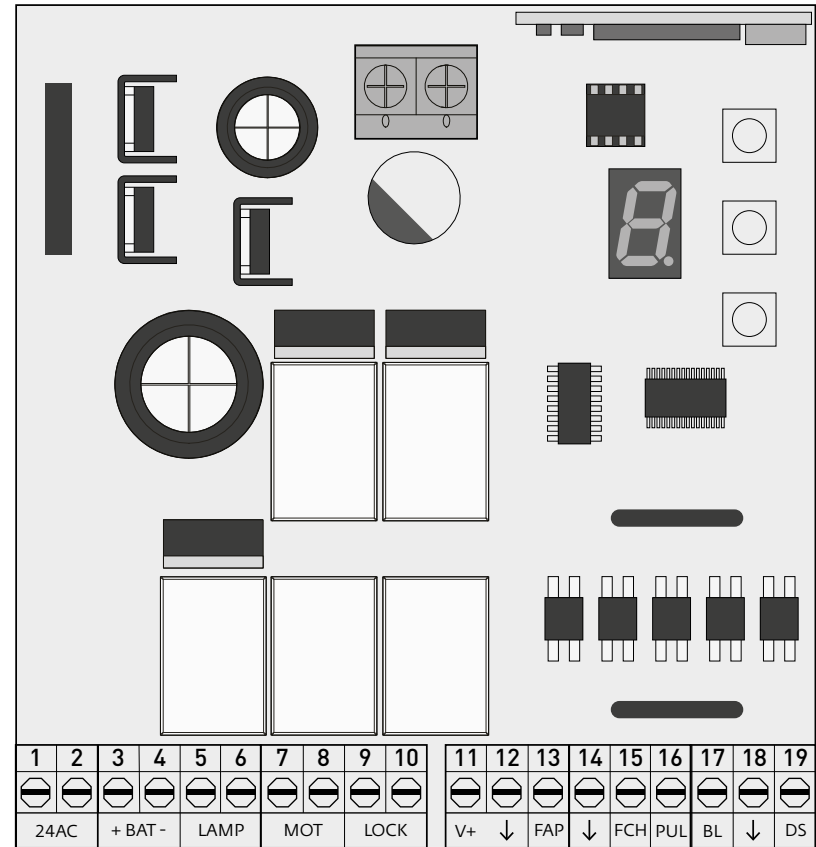
00. CONTENT

INDEX

01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW

ATTENTION:
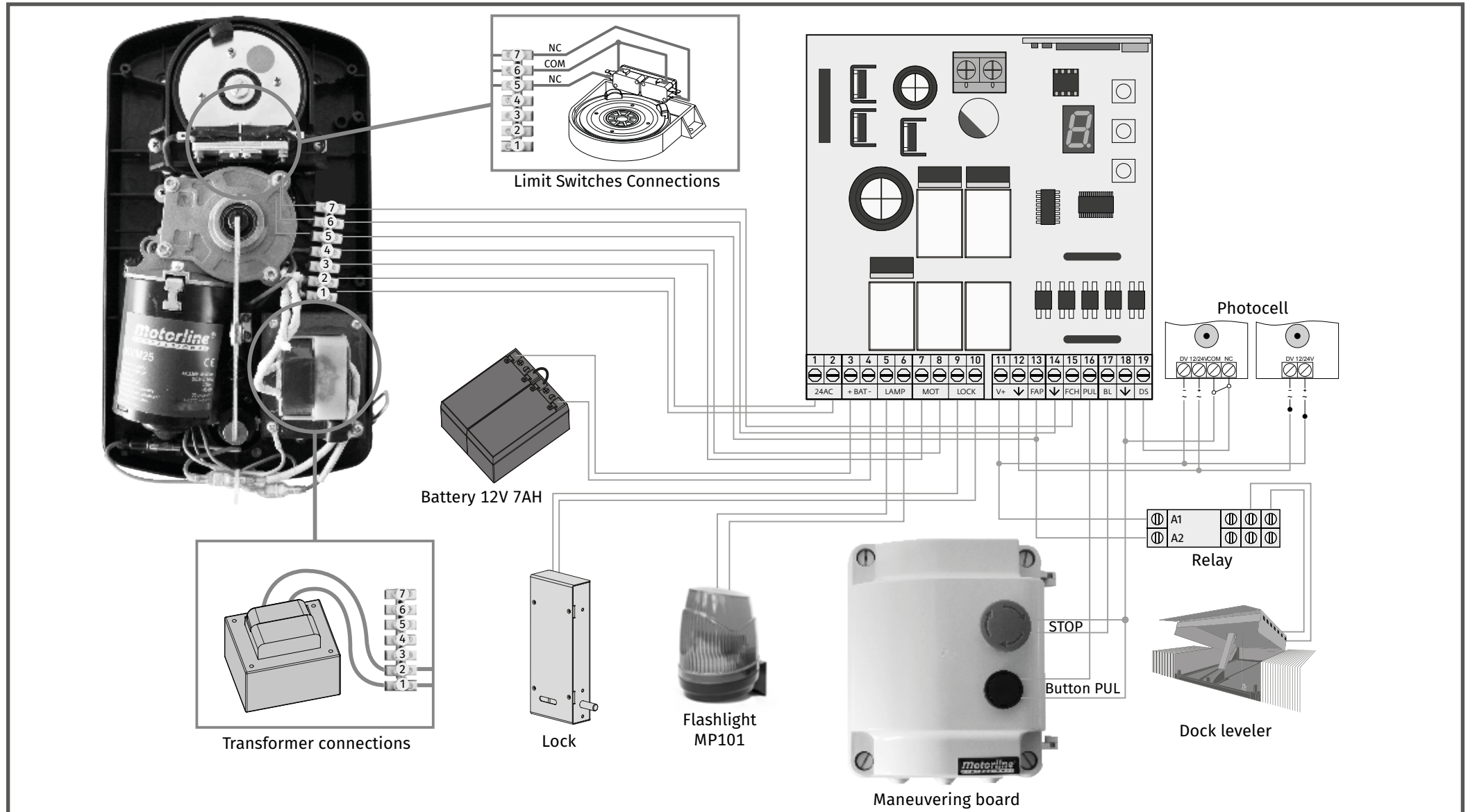
CE	This product is certified in accordance with European Community (EC) safety standards.
RoHS	This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
♲	(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.

COMPONENTS CONNECTION TO THE CONTROL BOARD

Limit Switches Connections

Photocell

DV 12/24V COM NC

DV 12/24V

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
24AC		+ BAT -		LAMP		MOT		LOCK		V+	↓	FAP	↓	FCH	PUL	BL	↓	DS

Battery 12V 7AH

A1
A2

Relay

STOP

Button PUL

Dock leveler

Transformer connections

Lock

Flashlight
MP101

Maneuvering board

03. CONTROL BOARD

TECHNICAL SPECIFICATIONS

• **Power supply**	AC 230V 50/60Hz
• **Battery output**	24V DC – 7AH max.
• **Lamp output**	24V AC – 3W max.
• **Motor output**	24V DC –50W max.
• **Lock output**	12V DC – 10W max.
• **Auxiliary accessories output**	24V DC – 3W max.
• **Working temperature**	-10°C to +55°C
• **Incorporated Radio Receiver**	433,92 Mhz
• **Accepted codestype**	Rolling Code
• **Central dimensions**	99x104,5 mm

04. REMOTE CONTROLS

PROGRAMMING/ERASE REMOTE CONTROLS

• Programming

The control board MC61 has the capacity to memorize 23 remote controls (Rolling Code).
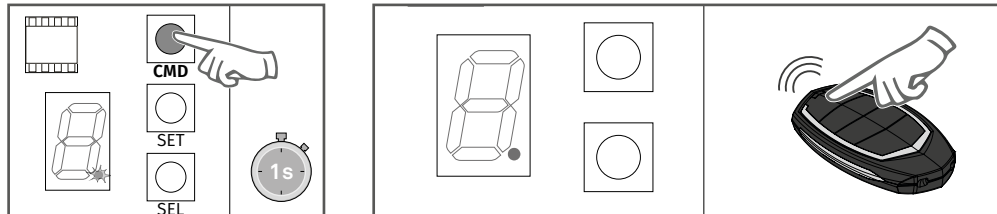
1 • Press the **CMD** button 1 second and the LED display point turns on.

2 • Press a button of your choice from the remote control to program and the display point will flash twice. Remote control will be memorized after 10 seconds.

• Erase remote controls
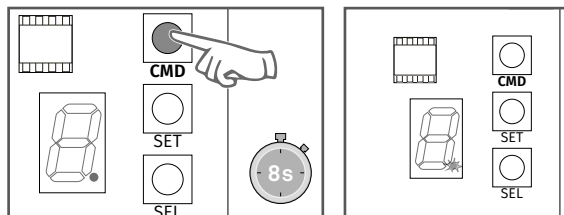
Press **CMD** for 8 seconds (during this time the LED display point will stay ON).
After this time, LED display point will flash twice and all codes have been deleted from memory.

05. FUNCTIONS

FUNCTION'S BOARD

The control board MC61 has a menu that allows access to all automatic configurations.

F.	Automation sensibility programming P 3B	*L.*	Enable/disable condominium function P 5B
P.	Opening and closing course programming P 4A	*E.*	Enable/disable service door P 6A
C.	Enable / disable safety photocells P 4B	*H.*	Increase or decrease deceleration P 6B
A.	Programming automatic closing P 5A	*b.*	Enable/disable Follow Me P 7

AUTOMATION SENSIBILITY PROGRAMMING

This menu allows to set the level of sensibility that you want in the motor operation.
Maximum sensibility - 1 | Minimum sensibility - 9
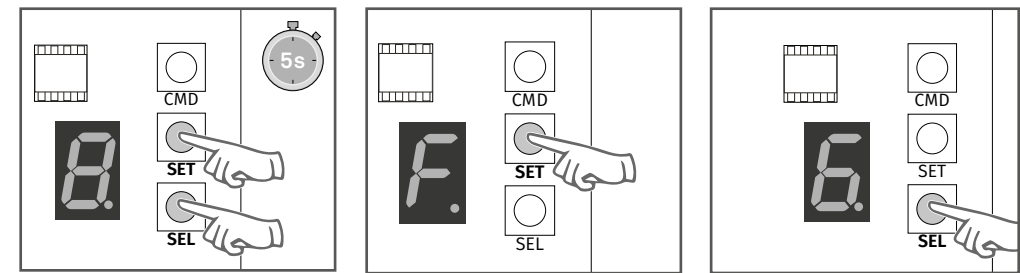
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show **F** . Press **SET** button to access the submenu.

3 • The display will show a value between 1 and 9, indicating the currently configured level. Use **SEL** button to choose desired option.
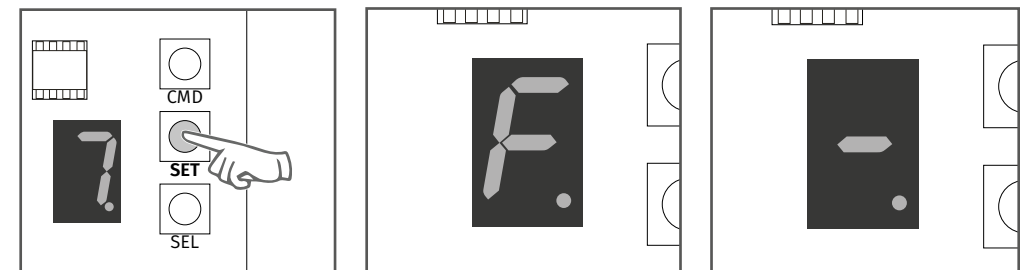
4 • Press the **SET** button once to save this option.

5 • The display will show **F** and the configuration is successfully done.

6 • To exit the programming mode wait 10 sec. until (–) appears.

OPENING AND CLOSING COURSE PROGRAMMING

To make the opening and closing course programmation, the mechanical limit switches must always be in tune.
1º Unlock the motor;
2º Manually, put the gate in closing position and adjust the closing limit switch;
3º Manually, put the gate at the opening position you want and adjust the opening limit switch.
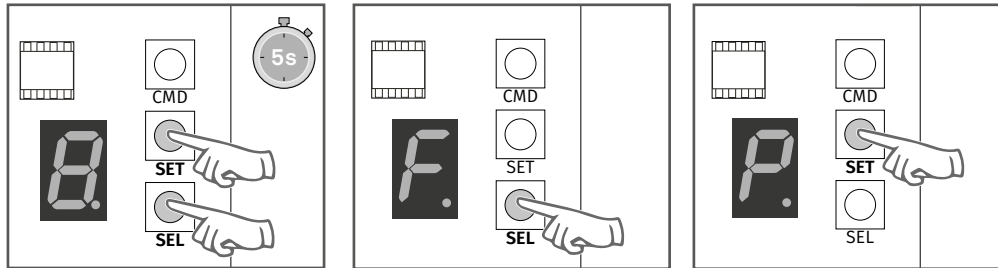
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **P**.

3 • Press the **SET** button to start the course recognition.

4 • The door will open until reaches detetar the opening limit switch and stop.

5 • After a few seconds, the door will closed until reaches the closing limit switch.

6 • The course is memorized and **P** turns off.

⚠️ During the course recognition, display shows **P**.

When you start the opening display shows **U**.
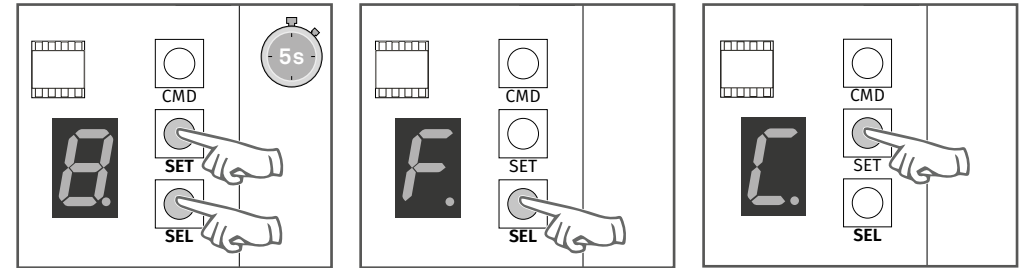When you start the closing display shows **d**.
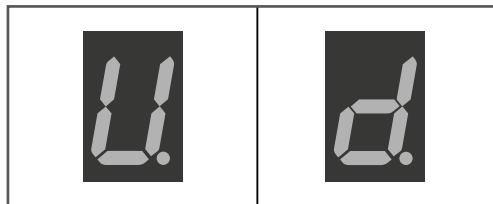
Opening indicator   Closing indicator

ENABLE / DISABLE SAFETY PHOTOCELLS

When photocells enabled, if any obstacle interrupt them (if the door is closing), the door will reverse the direction.
0 - Disable | 1 - Enable

1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **C**.
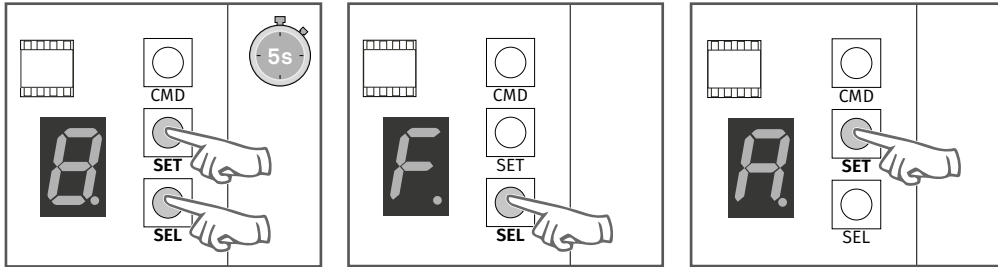
3 • Press the **SET** button to access the submenu.
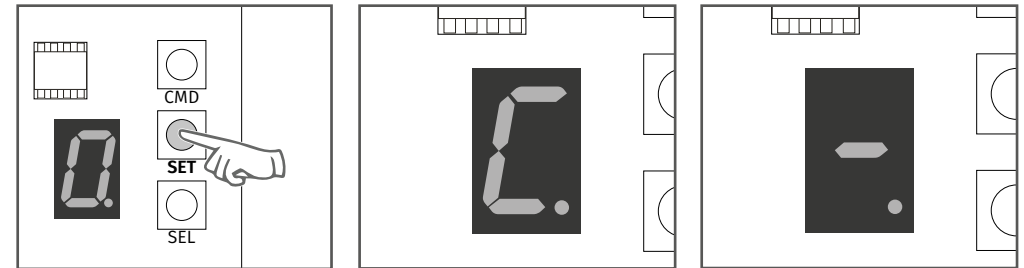
4 • The display will show the value 0 or 1, which identifies the option in which the control board is currently configured. Use the **SET** button to choose the desired option.

5 • The display shows **C** and the configuration is successful.

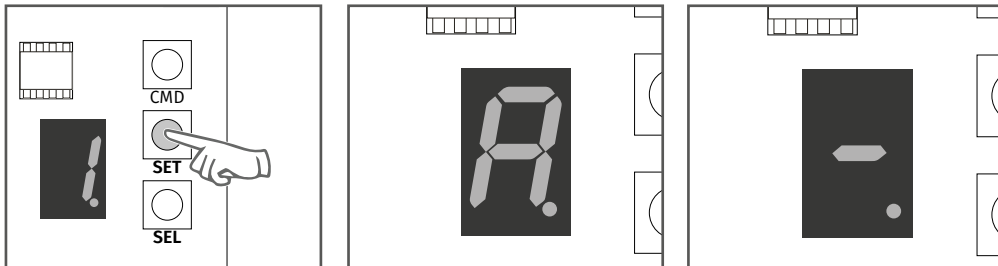6 • To exit the programming mode wait 10 sec. until (–) appears.

Option 0 disables the automatic closing, and the gate will close only if it receives an order from a configured device.
Any option between 1 and 9, multiplied by 10, sets the automatic closing time, the minimum is 10 seconds (number 1) and the maximum is 90 seconds (number 9).

1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show F. Press the **SEL** button as many times as necessary until the display shows **A**.

4 • Use the **SEL** button to put on the desired option. Press the **SET** button once to save this option.

5 • The display will show **A** and the configuration was successful.

6 • To exit the programming mode wait 10 sec. until (–) appears.

ENABLE/DISABLE CONDOMINIUM FUNCTION

0-Disabled
• If you send an order to the gate completely open, it will close.
• If pressing during the closure, the gate reverses direction (it will open).
When disabled, you can control the opening or closing of the gate whenever you want, and their behavior is: open-stop-close-stop-open-stop - (...) for each time you press a remote control key.

1 - Enabled
• This function makes the control board ignore all the orders sent by configured devices during the course of opening and during the pause time.
• Pressing the remote control during the opening, the order is declined and the gate continues to open.
• When activated the condominium function is activated the closing time in 10 seconds.
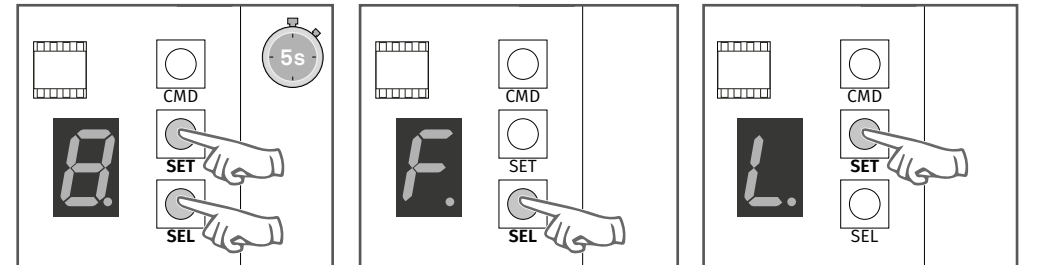
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **L**.

3 • Press the **SET** button to access the submenu.
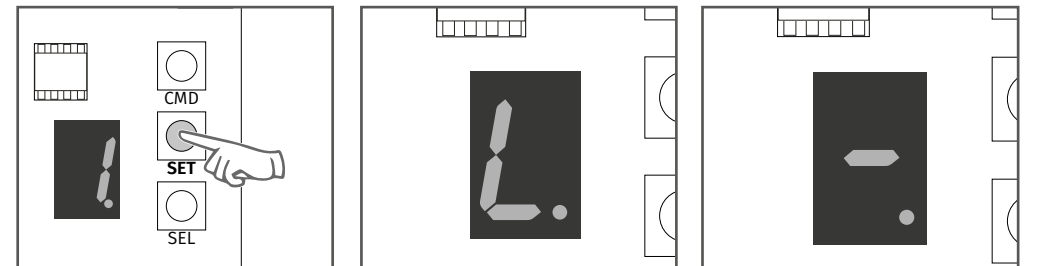
4 • The display will show the value 0 or 1, which identifies the option in which the control board is currently configured. Use the **SEL** button to put on the desired option. Press the **SET** button once to save this option.

5 • The display will show **L** and the configuration was successful.

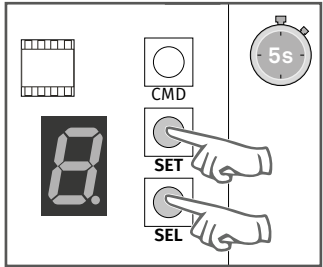6 • To exit the programming mode wait 10 sec. until (–) appears.

ENABLE/DISABLE SERVICE DOOR

• When this function is activated, the control board will only work if the service door isclosed. If the door is open, the control board reject any opening or closing order.
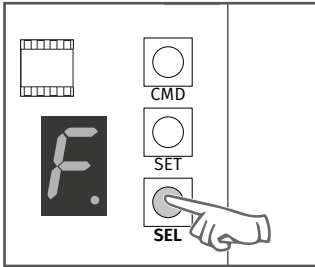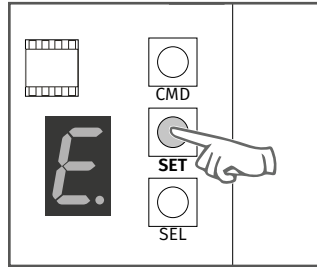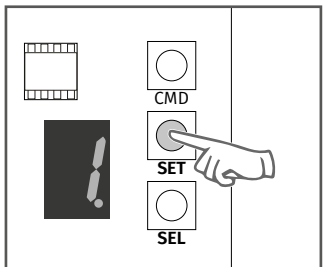
0 - Disable | 1 - Enable

⚠ For this function, you must have installed a safety device N.C at the door.

1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.
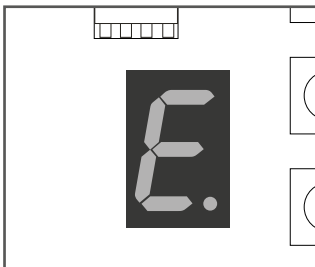
2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **E**.
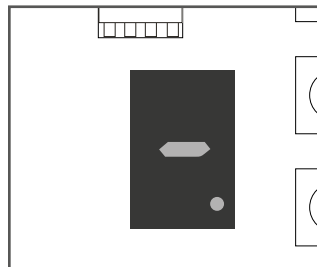
3 • Press the **SET** button to access the submenu.

4 • The display will show the value 0 or 1, which identifies the option in which the control board is currently configured. Use the **SEL** button to put on the desired option. Press the **SET** button once to save this option.

5 • The display will show **E** and the configuration was successful.

6 • To exit the programming mode wait 10 sec. until (–) appears.
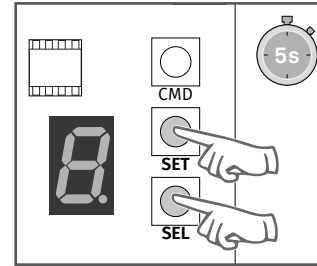
INCREASE OR DECREASE DECELERATION

The deceleration reduce the motor speed in the final part of the course (opening or closing).
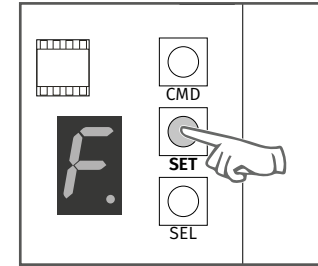**Without deceleration - select the value 0**
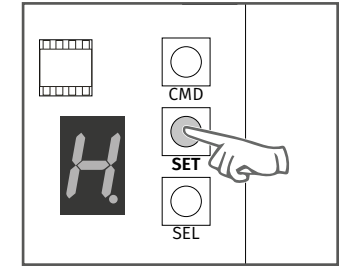**Minimum deceleration – 1 second**
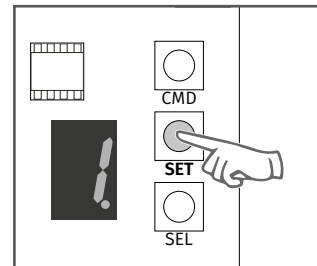**Maximum deceleration – 4 seconds**

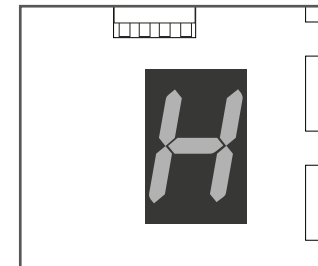1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **H**.
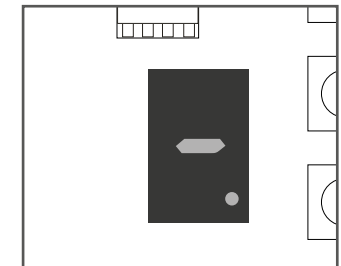
3 • Press the **SET** button to access the submenu.

4 • The display will show the value 0 or 4. Use the **SEL** button to put on the desired option. Press the **SET** button once to save this option.

5 • The display will show **H** and the configuration was successful.
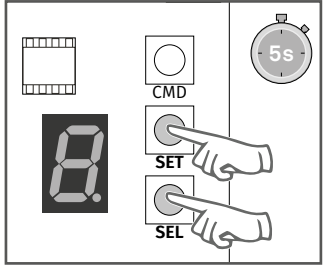
6 • To exit the programming mode wait 10 sec. until (–) appears.
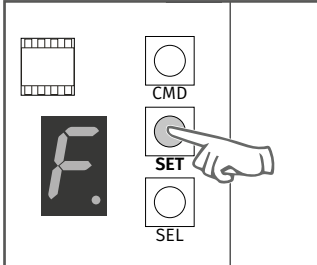
05. FUNCTIONS

ENABLE/DISABLE FOLLOW ME

With the "Follow Me" function activated, whenever the photocells detect the passage of a user/obstacle, the control board triggers the closing maneuver 3 seconds later.

0 - Disable | 1 - Enable

1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.

2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **b**.
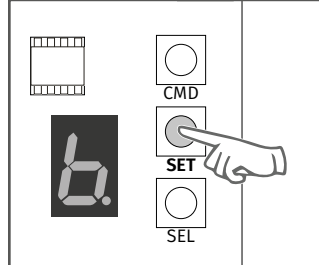
3 • Press the **SET** button to access the submenu.
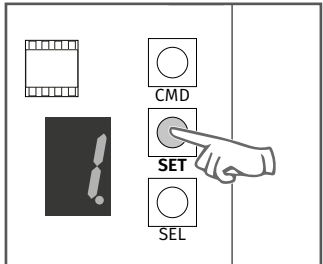
4 • The display will show the value 0 or 1, which identifies the option in which the control board is currently configured. Use the SEL button to put on the desired option. Press **SET** to save the option.
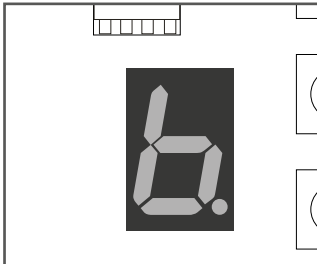
5 • The display will show **b** and the configuration was successful.

6 • To exit the programming mode wait 10 sec. until (–) appears.

06. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS/TECHNICIANS

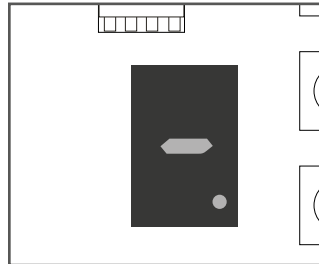| Anomaly	Procedure	Behavior	Procedure II	Discovering the origin of the problem
• Motor doesn't work	• Make sure you have 230V power supply connected to automation and if the fusible working properly.	• Still not working	• Consult a qualified **MOTORLINE** technician.	**1** • Remove the motor top cover; **2** • Measure the 24V output of the transformer to detect the fault location; **A) Has 24V:** **1** • Verify the control board supplies of the motor to detect if the fault is in the motor or in the control board. Replace the damaged component or send it to the services for diagnosis and repair. **B) Has not 24V:** **1** • Verify the 230V input of the transformer. If have 230V the problem is in the transformer. If haven't 230V, the problem should be in the fusible, electric cables or in the power supply. Verify all the systems.
	• Make sure the pedestrian service door is properly closed.	• Still not working	• Consult a qualified **MOTORLINE** technician.	**1** • Take a start in remote control to open and verify the behavior of the LEDs; **2** • Check the LED signs (page 2) and the limit switches connections. If everything is corrected and there is no micro acted, the LEDs have to be on. Check all the photocells circuit connections to the motor; **3** • In the E menu, make sure the service port is enabled (page 6A). If enabled and the circuit is not closed, the motor will not work.
• Motor doesn't move but makes noise	• Unlock motor and move the gate by hand to check for mechanical problems on the gate.	• The gate is stuck?	• Consult an experienced gate expert.	**1** • Check all motion axis and associated motion systems related with the gate and automatisme (rails, pulleys, bolts, hinges, etc) to find out what is the problem. Also check that the springs are in good condition and can support the gate.
		• The gate moves easily?	• Consult a qualified **MOTORLINE** technician	**1** • Turn off the motor from control board and test it on directly to a 24V battery to find out if it is damaged; **2** • If the motor runs, the problem is in the control board. Remove it and send it to the technical services for diagnosis; **3** • If the motor does not work, remove it and send to the technical services for diagnosis.
• Motor opens but doesn't close	1 • Check if there is any obstacle in front of the photocells; 2 • Make sure if the photocells are working. Put your hand in front and check that the relay makes the same noise. 3 • Check if any of the control devices (key selector, push button, video intercom, etc.) of the gate are jammed and sending permanent signal to control unit;	• Gate opened but didn't close again.	• Consult a qualified **MOTORLINE** technician	**1** • Verify if the display is connected to confirm the existence of power supply; **2** • Verify if the photocells are powered in control board output; **3** • Access the menu on the display and disable the photocells and the service door; **4** • Check limit switch connections. If the 2 LEDs are turned off, it means that the motor can not operate because have the limit switches actuated. **5** • Try to close; **A) Closed:** **1** • Problem is in one of these two systems. Activate the photocells and check that the gate closes. If close, problem will be in service door. Ative tin the menu and try to close the door to be sure. **B) Doesn't closed:** **1** • Problem is in the motor or in the control board. Give an order to the gate close while measuring the control board power output to the motor. If you have 24V, the control board is working and the problem is in the motor. **2** • If it has not current, the problem is in the control board.
• Gate doesn't make complete route	• Unlock motor and move gate by hand to check for mechanical problems on the gate.	• Encountered problems?	• Consult an experienced gate expert.	**1** • Check all motion axis and associated motion systems related with the gate and automatisme (rails, pulleys, bolts, hinges, etc) to find out what is the problem. Also check that the springs are in good condition and can support the gate.
		• The gate moves easily?	• Consult a qualified **MOTORLINE** technician	**1** • Verify if the tests to the gate were well made; **2** • Change the strength of F menu until the motor move the gate without changing the direction; **3** • This adjustment should be made to in case the gate find an obstacle do an inversion; **4** • If even at maximum power level (F9) is still the problem, test the motor directly connected to a 24V battery to see if it has the power to open / close the gate completely; **5** • Change the strength in the F menu until the motor move the gate without changing the direction;

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