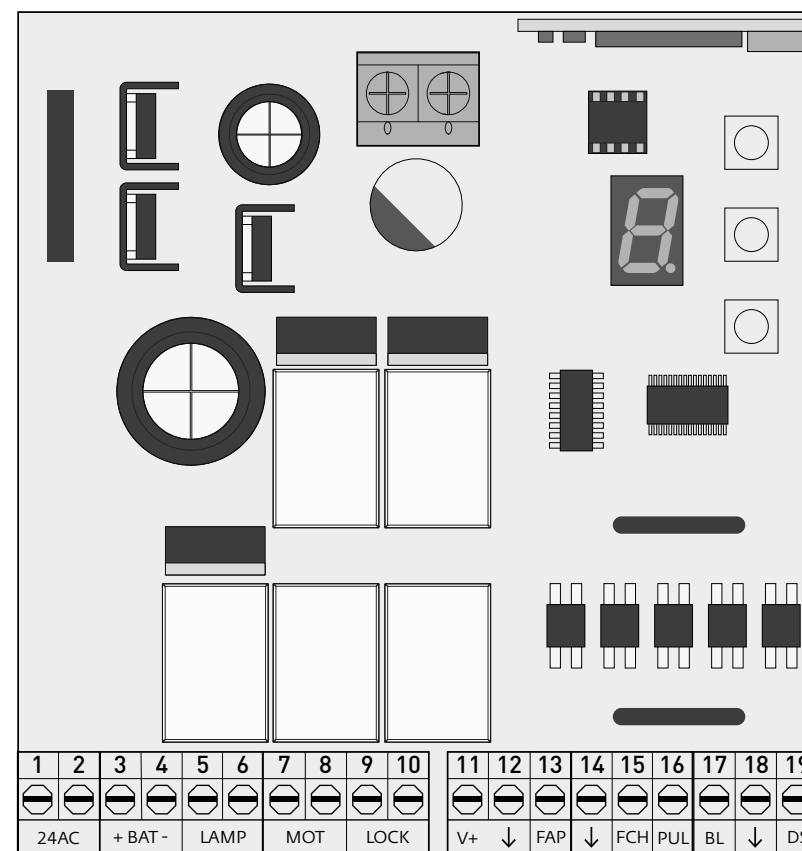




USER/INSTALLER MANUAL



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01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW

ATTENTION:

Importance of the Manual:

- It is important for your safety that these instructions are followed.
- Keep these instructions in a safe place for future reference.

Responsibility:

- **Electrocelos S.A.** is not responsible for the improper use of the product, or other use than that for which it was designed.
- **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.
- **Electrocelos S.A.** is not responsible for insecurity and malfunction of the product when used with components that were not sold by the them.

Mechanism use:

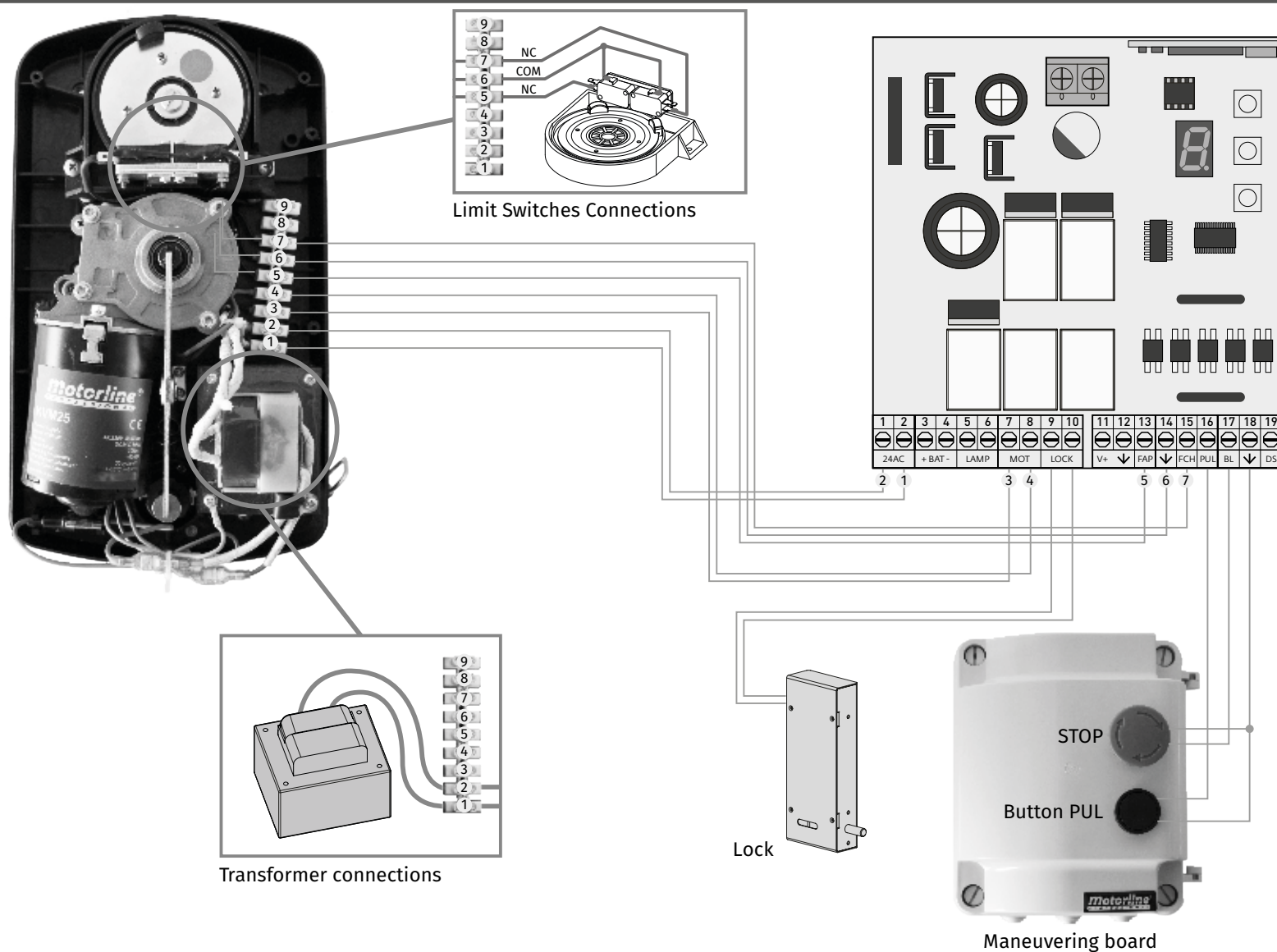
- This product was designed and manufactured strictly for the use indicated in this manual.
- This control board is not appropriate for inflammable or explosive environments.
- Any other use not expressly indicated may damage the product and / or can cause physical and property damages, and will void the warranty.
- Do not make any changes to the automation components and / or their accessories.
- Central 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.

To Installer:

- 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.

02. CONNECTIONS SCHEME

COMPONENTS CONNECTION TO THE CONTROL BOARD



03. CONTROL BOARD

TECHNICAL SPECIFICATIONS

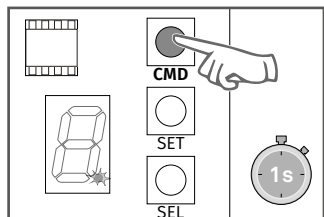
• Power supply	AC 230V 50/60Hz
• Battery output	24V DC - 7AH max.
• Lamp output	24V AC - 3W max.
• Motor output	24V DC - 50W max.
• Lock output	12V DC - 10W max.
• Auxiliary accessories output	24V DC - 3W max.
• Working temperature	-10°C to +55°C
• Incorporated Radio Receiver	433,92 Mhz
• Accepted codestype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

04. REMOTE CONTROLS

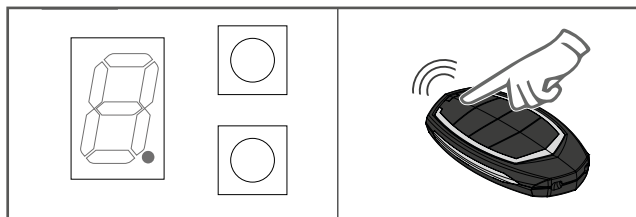
PROGRAMMING/ERASE REMOTE CONTROLS

• Programming

The control board MC61 has the capacity to memorize 23 remote controls (Rolling Code).

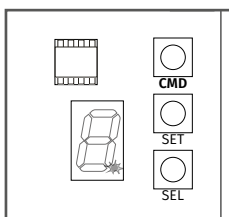
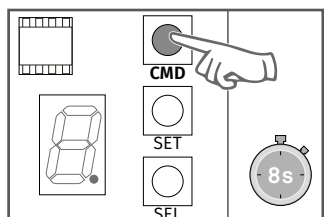


1 • Press the **CMD** button 1 second and the LED display point turns on.



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

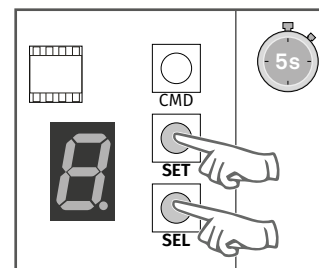
The control board MC61 has a menu that allows access to all automatic configurations.

F.	Automation force 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

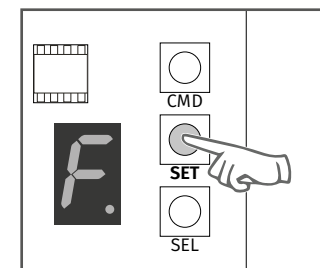
AUTOMATION FORCE PROGRAMMING

This menu allows to set the level of force that you want in the motor operation.

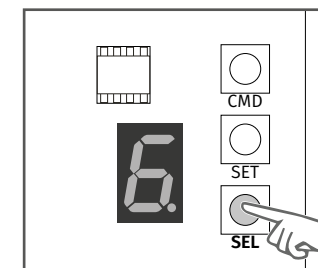
Minimum force - 1 | Maximum force - 9



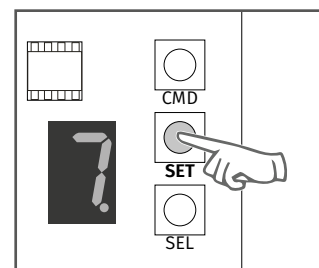
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.



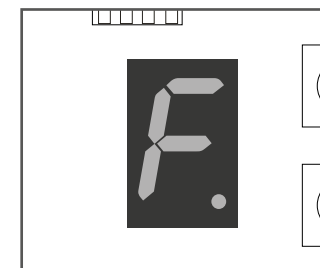
2 • The display will show **F.** Press **SET** button to access the submenu.



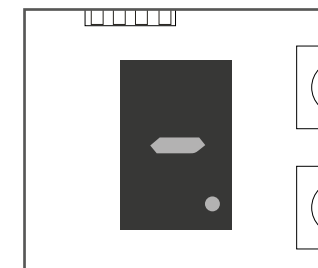
3 • The display will show a value between 1 and 9, indicator level of force currently configured. Use **SEL** button to choose desired option.



4 • Press the **SET** button once to save this option.



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



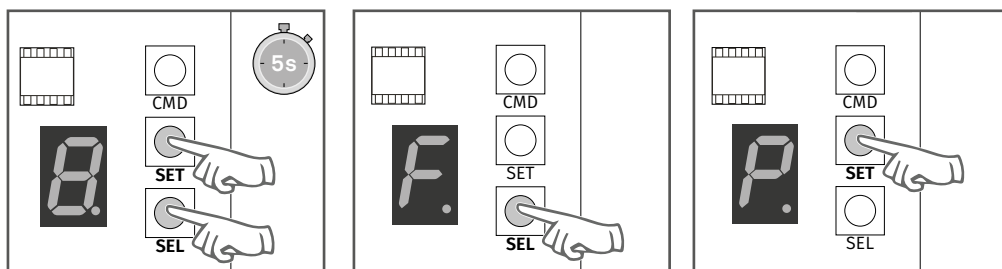
6 • To exit the programming mode wait 10 sec. until (-) appears.

05. FUNCTIONS

OPENING AND CLOSING COURSE PROGRAMMING

To make the opening and closing course programming, the mechanical limit switches must always be in tune.

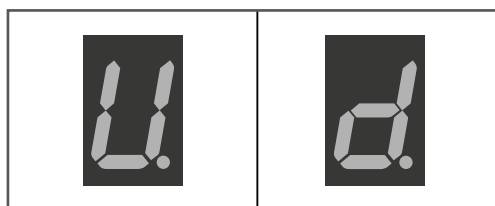
- 1^o Unlock the motor;
- 2^o Manually, put the gate in closing position and adjust the closing limit switch;
- 3^o Manually, put the gate at the opening position you want and adjust the opening limit switch.



- 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 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

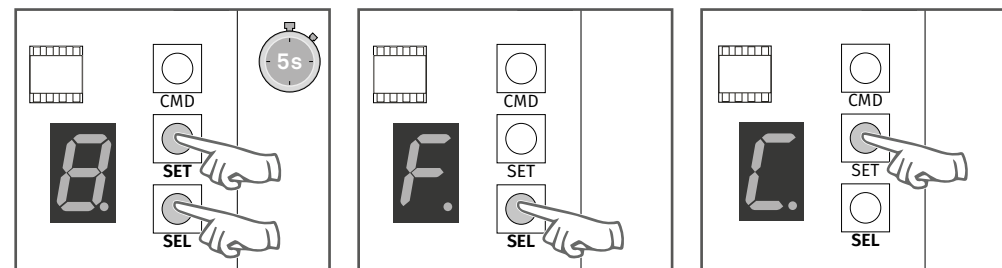
Closing indicator

05. FUNCTIONS

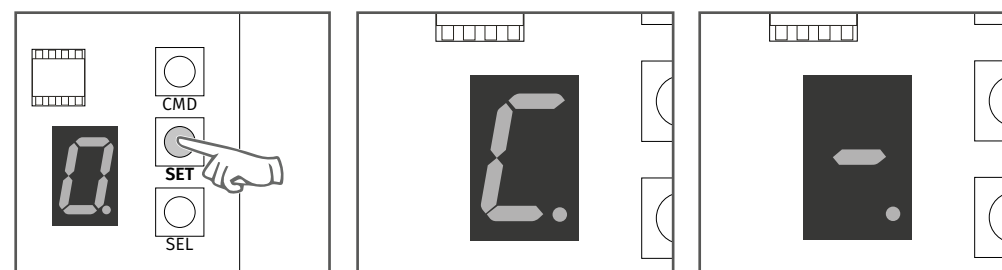
ENABLE / DISABLE SAFETY PHOTOCELLS

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.

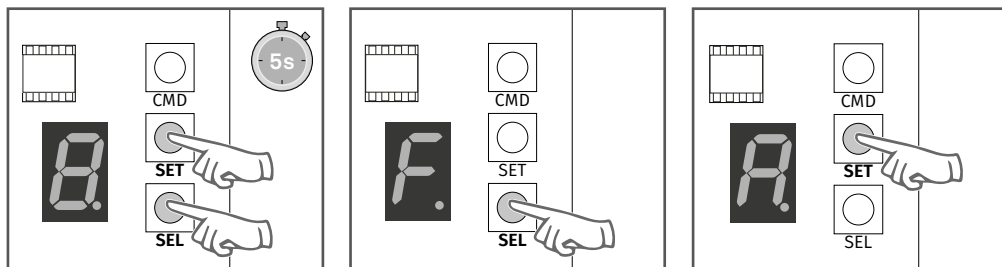


- 4 • The display will show the value 0 or 1, which identifies the option in which the control board is currently configured. Use the **SET** button to choose the desired option.
- 5 • The display shows **C** and the configuration is successful.
- 6 • To exit the programming mode wait 10 sec. until **(-)** appears.

05. FUNCTIONS

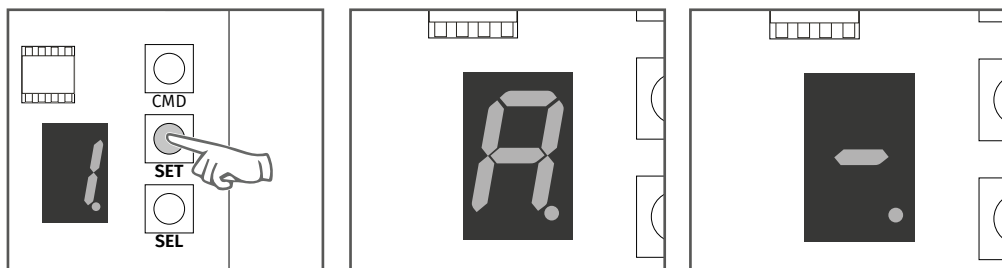
Option 0 disables the automatic closing, and the gate will close only if it receives an order from a configured device.

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.

05. FUNCTIONS

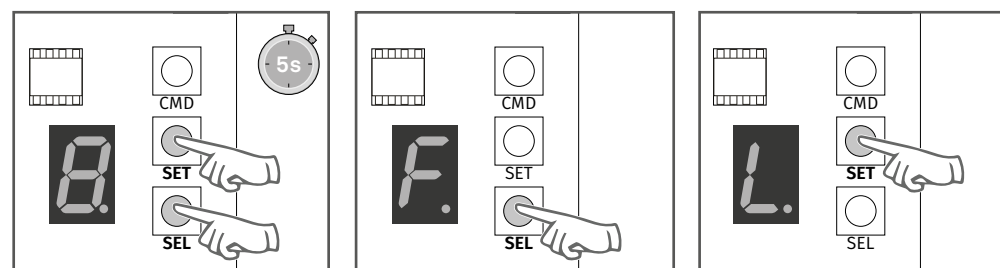
ENABLE/DISABLE CONDOMINIUM FUNCTION

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

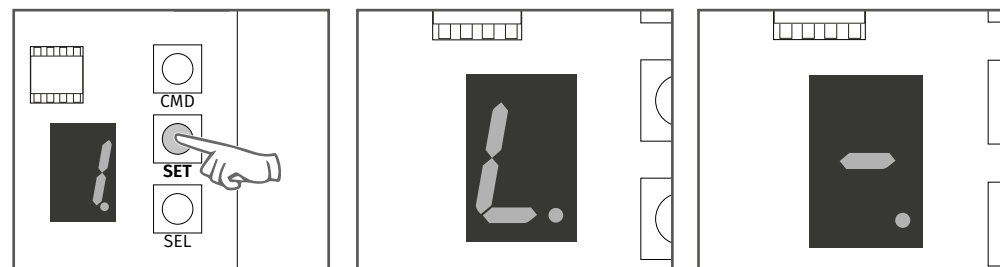
- This function makes the control board ignore all the orders sent by configured devices during the course of opening and during the pause time.
- Pressing the remote control during the opening, the order is declined and the gate continues to open.



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.

05. FUNCTIONS

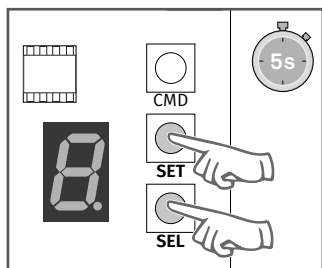
ENABLE/DISABLE SERVICE DOOR

• When this function is activated, the control board will only work if the service door is closed. If the door is open, the control board rejects any opening or closing order.

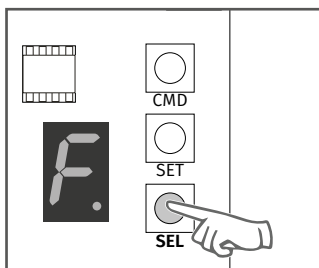
0 - Disable | 1 - Enable



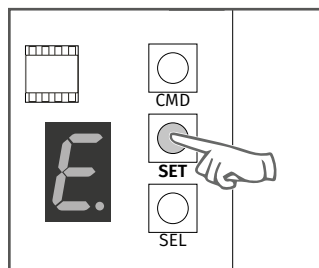
For this function, you must have installed a safety device N.C at the door.



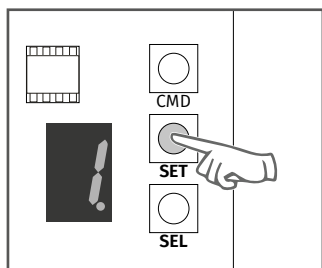
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.



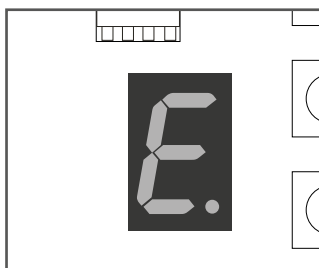
2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **E**.



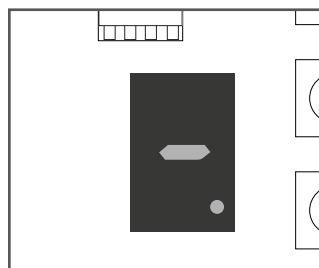
3 • Press the **SET** button to access the submenu.



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.

05. FUNCTIONS

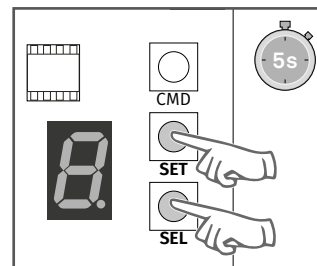
INCREASE OR DECREASE DECELERATION

The deceleration reduces the motor speed in the final part of the course (opening or closing).

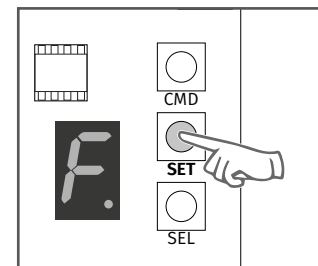
Without deceleration - select the value 0

Minimum deceleration - 1 second

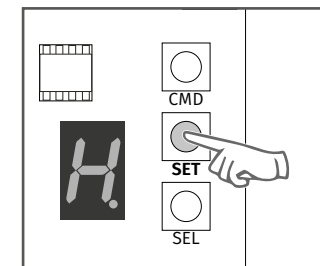
Maximum deceleration - 4 seconds



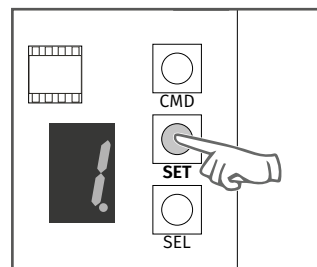
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.



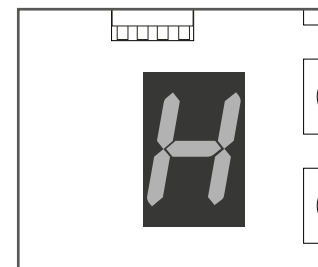
2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **H**.



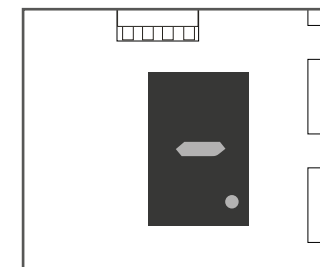
3 • Press the **SET** button to access the submenu.



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.



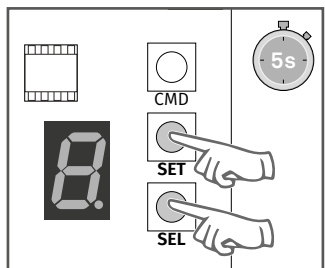
6 • To exit the programming mode wait 10 sec. until (-) appears.

05. FUNCTIONS

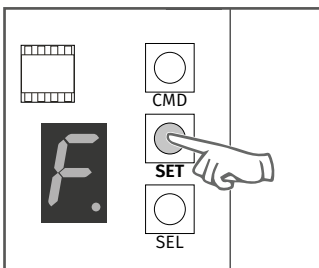
ENABLE/DISABLE FOLLOW ME

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.

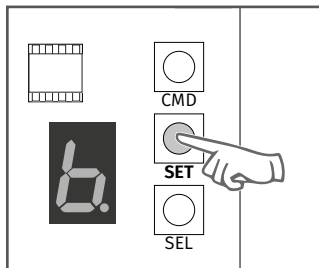
0 - Disable | 1 - Enable



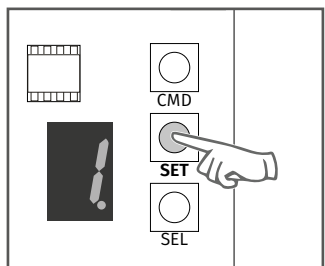
1 • Press the **SEL** and **SET** buttons simultaneously for 5 sec. to access the programming menu.



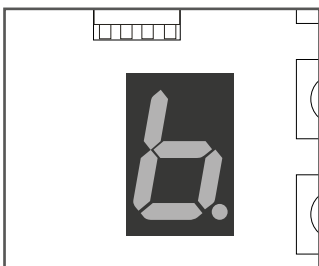
2 • The display will show **F**. Press the **SEL** button as many times as necessary until the display shows **b**.



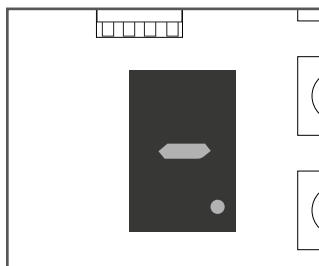
3 • Press the **SET** button to access the submenu.



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. Active 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;