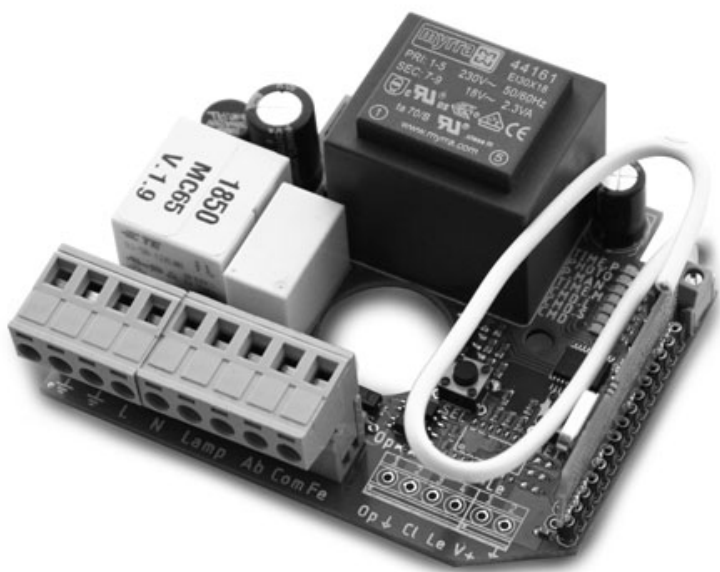




# MC65

## USER/INSTALLER MANUAL



# 00. CONTENT

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### Simplified EU Declaration of Conformity







The undersigned **MOTORLINE ELECTROCELOS, S.A., with registered office at Travessa do Sobreiro, n.º 29, 4755-474 Rio Côvo (Santa Eugénia), Barcelos,** declares that the present type of radio equipment - **MC65 Control board** - e-complies with the Directive 2014/53/EU.

The full text of the declaration of conformity is available at the following internet address:

<https://motorline.pt/certification/mc65>



# 01. SAFETY INSTRUCTIONS

	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.

# 01. SAFETY INSTRUCTIONS

## **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 operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The 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

# 01. SAFETY INSTRUCTIONS

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 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16 September 2009.
- Attach the permanent label for the manual release as close as possible to the release mechanism.
- Disconnect means, such as a switch or circuit breaker on the electrical panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.
- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- The product is only powered by low voltage safety with control board (only at 24V 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

conditions have been met.

- In the event of tripping of circuits breakers or 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:



• Important safety notices



• Useful information



• Programming information



• Potentiometer information



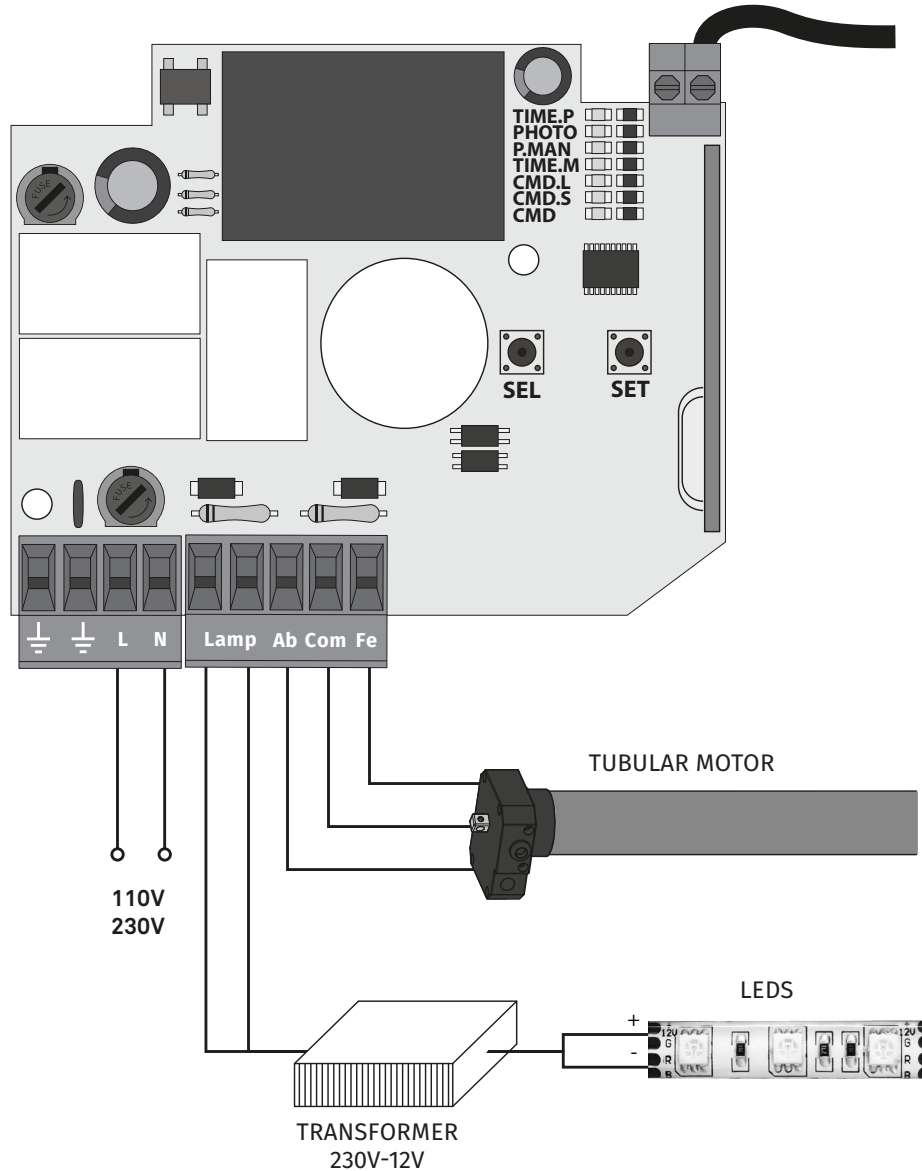
• Connectors information



• Buttons information

## 02. CONNECTIONS SCHEME

### COMPONENTS CONNECTION TO THE CONTROL BOARD



1 • Ground	
2 • Ground	
3 • Power supply 230V/110V – Phase (L)	Power supply connection to the control board.
4 • Power supply 230V/110V – Neutral (N)	
5 • Output for External Lamp - Phase	Connection for external lamp with maximum output duration of 4 min. (or bi stable)
6 • Output for External Lamp - Neutral	
7 • Motor output – Opening (Ab)	Connection of the Opening and Closing phases of the motor. If the direction of the motor is opposite to what is desired, simply replace the opening with a closing to reverse the direction.
8 • Motor output - Neutral (COM)	
9 • Motor output – Closing (Fe)	

## 03. CONTROL BOARD

### TECHNICAL SPECIFICATIONS

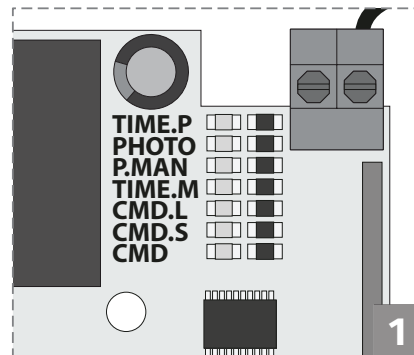
The **MC65** is a control board specially developed for rolling motors (TUB range and awnings). This control board allows the fabric to be self-tensioned when used on awnings. They can work together with temperature, snow, rain, wind and sun sensors (SNOW WIWEATHER).

	230V	110V
• Power supply	230Vac 50/60Hz	110Vac 50/60Hz
• Motor Output Power	500W max	1000W max
• Code type	12 Bits or Rolling Code	
• Maximum memory capacity	30 codes	
• Working temperature	-20°C ~ 55°C	
• Built-in receiver	433,92 Mhz	
• Output for external lamp	500W	300W
• Motor input fuse	250Vac 4A	250Vac 4A
• Low voltage fuse	250Vac 50mA	

## 04. MAIN MENU

### LEDS

**Main menu LEDs:** The control board has a set of LEDs that allow you to identify the status of the different functions.



5A EN

## 04. MAIN MENU

### LEDS

LED	DESCRIPTION	ON	OFF
TIME.P	Pause time	Programmed	Not Programmed
PHOTO	Active photocells	Active	Deactivated
P. MAN	Human presence	Active	Deactivated
TIME.M	Working time	Active	Deactivated
CMD.L	Lamp remote control	Programmed remote control(s)	Without Programmed remote control
CMD.S	Wind, sun and rain sensor	Active	Deactivated
CMD	Remote control	Programmed Remote control	Without Programmed remote control

## 05. PROGRAMMING

### 1-BUTTON REMOTE CONTROL

This function allows you to memorize a 1-button remote control step by step.

- 01** • Press the **SEL** button 1 time and the **CMD LED** will start flashing.
  - 02** • Press twice the button on the remote you want to record. The **CMD LED** will start flashing quickly (at twice the initial speed), signaling the button recording.
  - 03** • The remote control was memorized successfully.
- Wait 10 seconds, the control board will exit programming and all LEDs will stop flashing.

### 2-BUTTON REMOTE CONTROL

This function allows you to store a 2-button remote control (closing/opening).

- 01** • Press the **SEL** button 1 time and the **CMD LED** will start flashing.
  - 02** • Press the remote control button for 1 second to close. The **CMD LED** will start flashing quickly (at twice the initial speed), signaling the button storing.
  - 03** • Press the remote control button for 1 second to open. The **CMD LED** will stop flashing, signaling the button storing, and the **CMD.L LED** will start flashing.
  - 04** • The remote control was memorized successfully.
- Wait 10 seconds, the control board will exit programming and all LEDs will stop flashing.

EN 5B

## 05. PROGRAMMING

### REMOTE CONTROL TO CONTROL EXTERNAL LEDS

This function allows you to memorize a remote control to control external LEDs through the control board.

- 01 • Press the **SEL** button 3 times and the **CMD.L LED** will start flashing.
- 02 • Press the remote control button for 1 second to control the external LED.
- 03 • The remote control was memorized successfully.

Wait 10 seconds, the control board will exit programming and all LEDs will stop flashing.

### PROGRAMMING OF REMOTE CONTROLS AT DISTANCE

This function allows you to program new remote controls using an already configured remote control.

- 01 • With the awning completely closed, press the closing button of an already programmed remote control for more than **10 seconds**. When the external LEDs flash twice, the control board enters remote programming mode.

#### 1-button remote control:

- 02 • Press the button on the new remote control 1 time. The external LEDs flash 1 time.
- 03 • Press the same button on the new remote control 1 time. The external LEDs flash 2 times.

#### 2-buttons remote control:

- 02 • Press the button on the new remote control 1 time to close. The external LEDs flash 1 time.
- 03 • Press the button on the new remote control 1 time to open. The external LEDs flash 2 times.

- 04 • The remote control was memorized successfully.

### PROGRAMMING EXTERNAL LED REMOTE CONTROLS AT DISTANCE

This function allows you to store a remote control to control the external LEDs using an already configured remote control.

- 01 • Press the button on a remote control that controls the external LEDs already programmed for a time greater than **10 seconds**. When the external LEDs flash twice, the control board enters remote programming mode.
- 02 • Press the button on the new remote control to control the lamp. The external LEDs flash 2 times.
- 03 • The remote control was memorized successfully.



To memorize a remote control without accessing the control board, you must activate Extended Menu 1. If this menu is not active, you will not be able to memorize remote controls or access the menu with the remote control already programmed.

### DELETE ALL REMOTE CONTROLS (OPENING/CLOSING)

This function allows you to delete all remote controls added to the control board.

**To delete all open/close remote controls:**

- 01 • Press the **SEL** button 1 time and the **CMD LED** will start flashing.
- 02 • Press the **SET** button 1 time and the **CMD LED** will turn OFF, signaling the elimination of all remote controls.

## 05. PROGRAMMING

### DELETE ALL REMOTE CONTROLS (LIGHT)

**To eliminate all remote controls of the external LED control:**

- 01 • Press the **SEL** button 3 times and the **CMD LED** will start flashing.
- 02 • Press the **SET** button 1 time and the **CMD.L LED** will turn OFF, the elimination of all remote controls of the external LED control.

### MOTOR WORKING TIME

This menu allows you to define the motor opening and closing working time.

- 01 • Open the awning completely.
- 02 • Press the **SEL** button 4 times and the **TIME.M LED** starts flashing.
- 03 • Press and hold the **SET** button until the awning closes. And wait 2/3s after the awning is closed.

### FULL RESET

This function allows you to reset all factory defaults and all memorized remote controls will be erased.

- 01 • Press the **SEL** and **SET** buttons at the same time for 5 seconds. All LEDs turn ON and OFF except **TIME.M LED**, signaling that the operation has been executed.

### OPERATION WITH SNOW WIWEATHER

This menu allows you to program the control board to the SNOW WIWEATHER sensor.

- 01 • Press the **SEL** button 2 times and the **CMD.S LED** will start flashing.
- 02 • On the sensor, program the device to send the code to the control board (see the SNOW WIWEATHER manual).
- 03 • After receiving the code, press the **SET** button to finish programming the sensor.

• TEMPERATURE	The Snow Wiweather detects when the <b>temperature drops below the set point</b> and automatically sends <b>closing</b> order.
• SNOW	The Snow Wiweather detects <b>snow</b> . When installed on a BRISA SOLAR <b>this function is active</b> and automatically sends an <b>opening</b> order. When installed on an awning <b>this function is disabled</b> .
• RAIN	The Snow Wiweather detects <b>rain</b> , automatically sends <b>closing</b> order.
• SUN	The Snow Wiweather detects <b>brightness above the set value for more than 10 minutes</b> , and automatically sends an <b>opening</b> order.
• WIND	The Snow Wiweather detects <b>wind above the defined setting</b> . When installed on an awning, the sensor automatically sends a <b>closing</b> order. When installed in a BRISA SOLAR, the sensor automatically sends an <b>opening</b> order.



For more complete information on SNOW WIWEATHER, access the product manual.



## 06. EXTENDED MENU

### EXTENDED MENU 1 - REMOTE PROGRAMMING

This menu allows you to activate or deactivate the possibility of programming new remote controls using an already configured remote control.

The control board is supplied with this function activated.

**01** • Press the **SET** button for 5 seconds to access **Extended Menu 1**, signaled by the **TIME.M** and **CMD.L** LEDs flashing alternately.

**02** • Press the **SEL** button to turn the **CMD LED** on/off, choosing the desired option.

**03** • Press the **SET** button to save the selected option.

The control board will automatically exit programming mode after 15 seconds.

EXTENDED MENU 1		
LED	LED OFF	LED ON
• <b>CMD</b>	Remote PGM = ON	Remote PGM = OFF
• <b>CMD.L</b>	Flashing ON/OFF	
• <b>TIME.M</b>	Flashing OFF/ON	

### EXTENDED MENU 2 - MOTOR INVERSION TIME

This menu allows you to choose the type of motor connected to the control board, for effort reversal functions.

The control board is supplied with 17RPM motor mode activated.

**01** • Press the **SET** button for 5 seconds to access **Extended Menu 1**, signaled by the **TIME.M** and **CMD.L** LEDs flashing alternately.

**02** • Once in **Extended Menu 1**, press the **SET** button for 5 seconds to access **Extended Menu 2**, signaled by the **TIME.M** and **CMD.L** LEDs flashing simultaneously.

**03** • Press the **SEL** button to turn the **CMD LED** on/off, choosing the desired option.

**04** • Press the **SET** button to save the selected option.

The control board will automatically exit programming mode after 15 seconds.

EXTENDED MENU 2		
LED	LED OFF	LED ON
• <b>CMD</b>	12RPM Motor	17RPM Motor
• <b>CMD.L</b>	Flashing ON/OFF	
• <b>TIME.M</b>	Flashing ON/OFF	

### EXTENDED MENU 3 - MOTOR SENSITIVITY ADJUSTMENT

This menu allows you to set sensitivity levels for blocked motor detection.

The control board is factory supplied with detection level 2, and this value can be adjusted on a scale of 1 to 5 (1 is least sensitive and 5 is most sensitive).

**01** • Press the **SET** button for 5 seconds to access **Extended Menu 1**, signaled by the **TIME.M** and **CMD.L** LEDs flashing alternately.

**02** • Once in **Extended Menu 1**, press the **SET** button for 5 seconds to access **Extended Menu 2**, signaled by the **TIME.M** and **CMD.L** LEDs flashing simultaneously.

**03** • Once in **Extended Menu 2**, press the **SET** button for 5 seconds to access **Extended Menu 3**, signaled

## 06. EXTENDED MENU

### EXTENDED MENU 3 - MOTOR SENSITIVITY ADJUSTMENT

by the **TIME.P** and **PHOTO LEDs** flashing alternately quickly.

**04** • Press the **SEL** button to scroll through the available levels, the LEDs will light up sequentially.

**05** • Press the **SET** button to save the selected option.

The control board will automatically exit programming mode after 15 seconds.

Level	LEDs									
1	CMD		CMD.S		CMD.L		TIME.M		P.MAN	
2	CMD		CMD.S		CMD.L		TIME.M		P.MAN	
3	CMD		CMD.S		CMD.L		TIME.M		P.MAN	
4	CMD		CMD.S		CMD.L		TIME.M		P.MAN	
5	CMD		CMD.S		CMD.L		TIME.M		P.MAN	

EXTENDED MENU 3		
LED	LED OFF	LED ON
• <b>CMD</b>	Disable detection	Activate detection
• <b>CMD.L</b>	Flashing ON/OFF	
• <b>TIME.M</b>	Flashing OFF/ON	

### EXTENDED MENU 4 - EXTERNAL LEDS OPERATING MODE

This menu allows you to define the operating mode of the external LEDs.

The control board is supplied with this function activated.

**01** • Press the **SET** button for 5 seconds to access **Extended Menu 1**, signaled by the **TIME.M** and **CMD.L** LEDs flashing alternately.

**02** • Once in **Extended Menu 1**, press the **SET** button for 5 seconds to access **Extended Menu 2**, signaled by the **TIME.M** and **CMD.L** LEDs flashing simultaneously.

**03** • Once in **Extended Menu 2**, press the **SET** button for 5 seconds to access **Extended Menu 3**, signaled by the **TIME.P** and **PHOTO LEDs** flashing alternately quickly.

**04** • Once in **Extended Menu 3**, press the **SET** button for 5 seconds to access **Extended Menu 4**, signaled by the **TIME.M** and **CMD.L** LEDs flashing simultaneously quickly.

**05** • Press the **SEL** button to turn the **CMD LED** on/off, choosing the desired option.

**06** • Press the **SET** button to save the selected option.

The control board will automatically exit programming mode after 15 seconds.

EXTENDED MENU 4		
LED	LED OFF	LED ON
• <b>CMD</b>	The lamp is controlled by remote control orders except in the closing position where the control board automatically turns it off after 5 sec.	The lamp is controlled only by remote control orders
• <b>CMD.L</b>	Flashing ON/OFF	
• <b>TIME.M</b>	Flashing ON/OFF	

# 07. TROUBLESHOOTING

## INSTRUCTIONS FOR FINAL CONSUMERS

Anomaly	Procedure	Behavior	Procedure II	Discover the source of the problem
• Motor doesn't work	• Check that the 110/230V power supply is connected to the automation and that it is working correctly.	• Still not working	• Consult a specialized technician.	<ol style="list-style-type: none"> <li>1 • Open the control board and check if it has a 110/230V power supply;</li> <li>2 • Check the control board input fuses;</li> <li>3 • Turn off the control board motor and test it directly connected to 230V to find out if it is defective.</li> <li>4 • If the motor works, the problem will be with the control board. Remove it and send it to technical services for diagnosis;</li> <li>5 • If the motor does not work, remove it from the installation location and send it to technical services for diagnosis.</li> </ol>
• Motor doesn't move, but makes noise	• Insert the manual crank into the motor and move the roller manually to check for mechanical problems (if supplied by Motorline).	• Found problems?	• Consult a specialized technician.	1 • Check all axes and movement systems associated with the automation to find out what the problem is.
		• The roller moves easily?	• Consult a specialized technician.	<ol style="list-style-type: none"> <li>1 • If the motor works, the problem is with the control board. Remove it and send it to technical services for diagnosis;</li> <li>2 • If the motor does not work, remove it and send it to technical services for diagnosis.</li> </ol>
• Motor opens but does not close	• Insert the manual crank into the motor and manually move the roller to the closed position. Turn OFF the power supply for 5 seconds, and turn it ON again. Give the opening order with the remote control.	• The roller opened but did not close.	<ol style="list-style-type: none"> <li>1 • Check if any control device is stuck and sending a permanent signal to the control board;</li> <li>2 • Consult a specialized technician.</li> </ol>	<p>All control boards have LEDs that allow you to easily conclude which devices have anomalies. The safety device LED (PHOTO) remains ON in normal situations. All "START" circuit LEDs in normal situations remain OFF. If the device LEDs are not all ON. If the "START" LEDs (Op and Cl) are ON, there is a command device issuing a permanent signal (only in the MC65IP version).</p> <p><b>A) SAFETY SYSTEMS:</b></p> <ol style="list-style-type: none"> <li>1 • Close the photocell circuit with the shunt or deactivate the PHOTO function.</li> <li>2 • Check that the system is functional.</li> <li>3 • Replace this device with a functional one, and check that the automation works correctly with all other devices. If you find any other defects, follow the same steps until you discover all the problems.</li> </ol> <p><b>B) START SYSTEMS:</b></p> <ol style="list-style-type: none"> <li>1 • Disconnect all wires connected to the connector (Op and Cl).</li> <li>2 • If the LED turn OFF, try reconnecting one device at a time until you find which device is broken.</li> </ol> <p><b>NOTICE:</b> If the procedures described in paragraphs A) and B) do not work, remove the control board and send it to technical services for diagnosis.</p>
• Motor does not complete the course	• Insert the manual crank into the motor and move the roller manually to check for mechanical problems.	• Found problems?	• Consult a specialized technician.	1 • Check all axes and movement systems associated with the automation to find out what the problem is.
		• Does the roller move easily?	• Consult a specialized technician.	<ol style="list-style-type: none"> <li>1 • Make sure the limit switches are correctly adjusted.</li> <li>2 • Make a new programming starting with the roller completely open.               <ol style="list-style-type: none"> <li>2.1 • Disable Extended Menu 3 (Blocked Motor Detection).</li> </ol> </li> <li>3 • If the motor does not work, remove it and send it to technical services for diagnosis.</li> <li>4 • If the motor works and move the roller well in its full course, with maximum force, the problem is in the control board.</li> </ol>