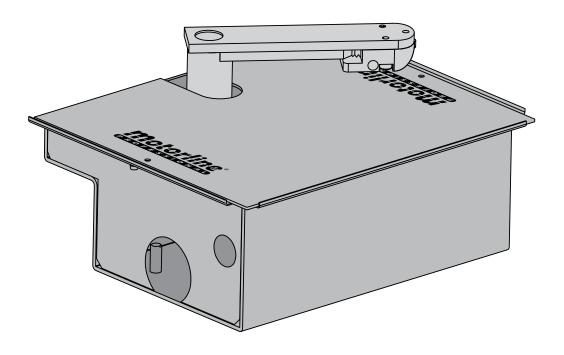






USER'S AND INSTALLER'S MANUAL





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01. SAFETY INSTRUCTIONS

ATTENTION:

C€	This	product	is	certified	in	accordance	with	European
	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 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. very important. 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.

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 central must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on the power supply cable. Please note that all the cables must enter the central 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

01. SAFETY INSTRUCTIONS

- 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 satefy with central (only at 24V motors)

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 of fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

RESPONSABILITY

- Supplier disclaims any liability if:
 - Product failure or deformation result from improper installation

use or maintenance!

- Safety norms are not followed in the installation, use and maintenance of the product.
- Instructions in this manual are not followed.
- Damaged is caused by unauthorized modifications
- In these cases, the warranty is voided.

MOTORLINE ELECTROCELOS SA.

Travessa do Sobreiro, nº29 4755-474 Rio Côvo (Santa Eugénia) Barcelos, Portugal

SYMBOLS LEGEND:



 Important safety notices



Useful information



Programming information



Potentiometer information



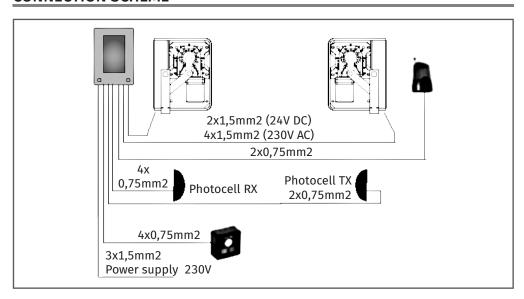
Connectors information



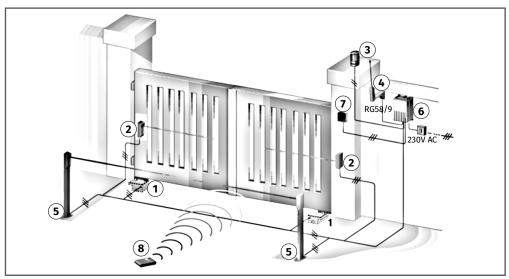
Buttons information

02. AUTOMATION

CONNECTION SCHEME



INSTALLATION MAP



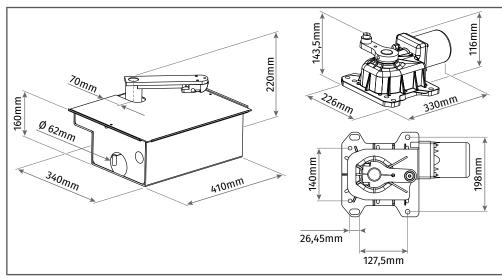
- 1 Motor2 External photocell
- 3 Flashing lamp 4 • Antenna
- 5 · Internal photocell
- 7 Key selector
- 6 Electronic control board
- 8 · Remote control

02. AUTOMATION

TECHNICAL SPECIFICATIONS

	24V	230V		
• Max. weight of leaf	500Kg			
• Max. width of leaf	2,50m			
Motors power supply	24V DC	230V AC		
Motor power	50W	280W		
• Rotational speed	1800 RPM	1400 RPM		
• Capacitor	-	12,5μF		
Mechanical unlock for emergency	With key			
Operating temperature	-25°C/+55°C			
• Weight	10Kg			
• Protection class	IP67			
• Opening time 90°	16 sec			
• Impulse force	250Nm			
Motor current consumption	3A	1,5A		

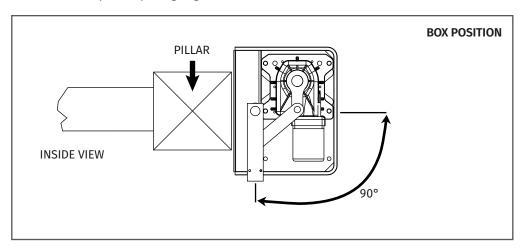
DIMENSIONS

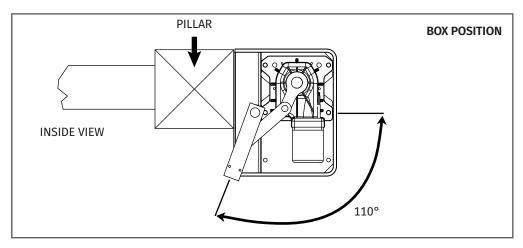


03. INSTALLATION

GATE LEAF OPENING ANGLE

Establish the required opening angle.

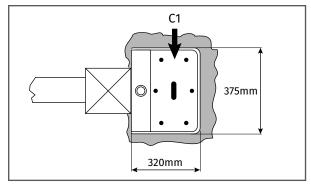




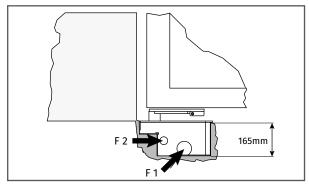
03. INSTALLATION

BOX INSTALLATION

1 • Create a hole (taking into account the dimensions indicated in the image) to contain the motor support box (C1).

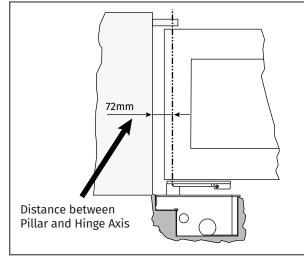


- 2 · Insert the tube for water drainage in the prepared hole (F1).
- 3 · Insert the tube for the power cable to pass into the hole (F2).



Note: while positioning the box, keep in mind the minimum distance there must be between the pillar and the centre of rotation of the gate hinge.

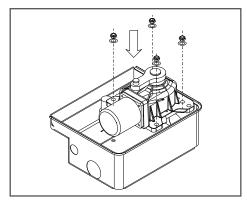
4 • Cement so that the box cannot be moved, wait for it to dry and then assemble the motor and levers.



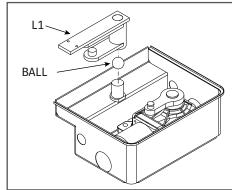
03. INSTALLATION

ASSEMBLING THE MOTOR AND LEVERS

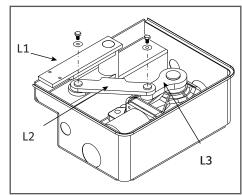
1 • Place the motor in the box and secure it with the screws provided.



2 • Insert the ball on the box stud and apply the gate anchor (L1).



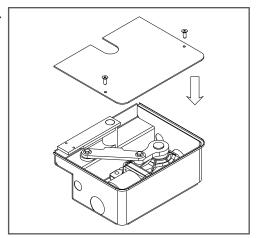
3 • Put the connection lever (L2) between the levers (L3) and (L1).



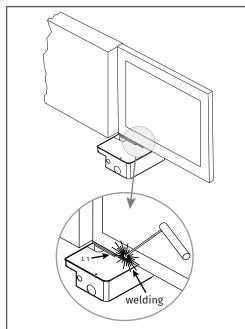
03. INSTALLATION

MOUNTING THE MOTOR LEVER TO THE GATE

Place and fix the cover with the screws provided.



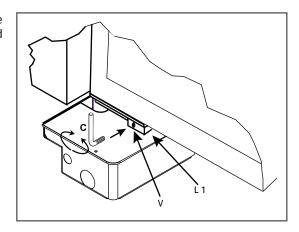
Position the gate leaf and the lever (L1) so that they are perfectly aligned and fix them by welding or another type of fixing.



03. INSTALLATION

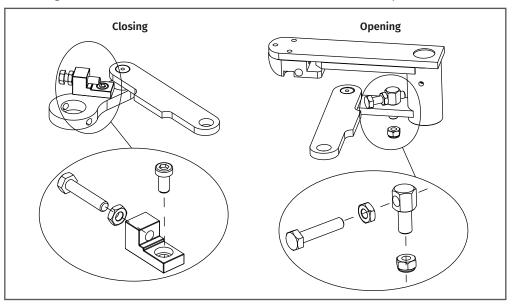
EMERGENCY RELEASE

Place the key (C) supplied, in the hole (V), which is located in the lever L1 and turn it.



LIMIT SWITCHES ASSEMBLY (OPTIONAL)

Insert, regulate and block the mechanical limit switches in the desired position.



04. TROUBLESHOOTING

FINAL CONSUMERS AND SPECIALIZED INSTALLERS INSTRUCTIONS

Problem	Probable cause	Solution	
	• There is no 230V power supply	• Check main switch	
	• Emergency STOP present	• Control selectors or remote controls STOP. If you do not use STOP, check the bridge at the STOP contact input on the control board	
With a remote control or key selector, the gate does not open or the motor does not work	• Fuse blown	• Replace with one of same value	
	Motor(s) power cable disconnected or defective	Connect the cable to appropriate terminal or replace	
	• There is an obstacle between the photocells or they do not work	Check the connection, remove any obstacle	
• The gate does not open with a remote control, but works with the key selector	• The remote control has not been memorised or the battery is low	• Follow the remote control recognition procedures on the receiver or replace the battery with a new one	
• Gate starts to open/close, but stops	• The force of the motor(s) is insufficient	• Modify the value with the FORCE button on the control board	
• One leaf opens and the other closes	• The connection is not correct	• Change the polarity of the motor cable that is working in the opposite direction to the correct one	

