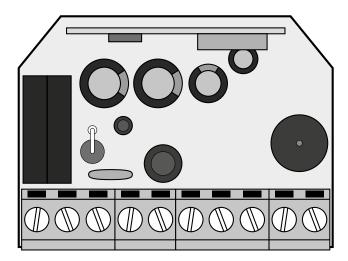




USER/INSTALLER MANUAL





V3.0 REV. 04/2019

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01. SAFETY INSTRUCTIONS

ATTENTION:

RoHS

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CE	This product is certified in accordance with European Community (EC) safety standards.
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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 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.

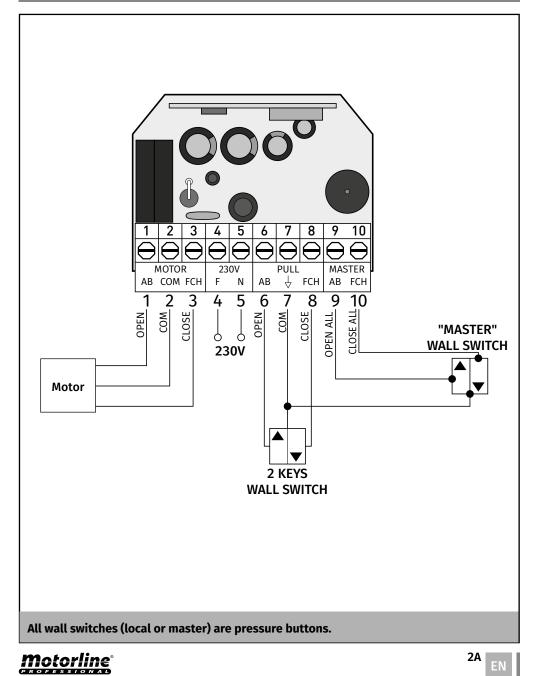
- Keep these instructions in a safe place for future reference.
- The **ELECTROCELOS S.A.** is not responsible for the improper use of the product, or other use than that for which it was designed.
- The **ELECTROCELOS S.A.** is not responsible if safety standards were not taken into account when installing 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 110V/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 programmation. 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.



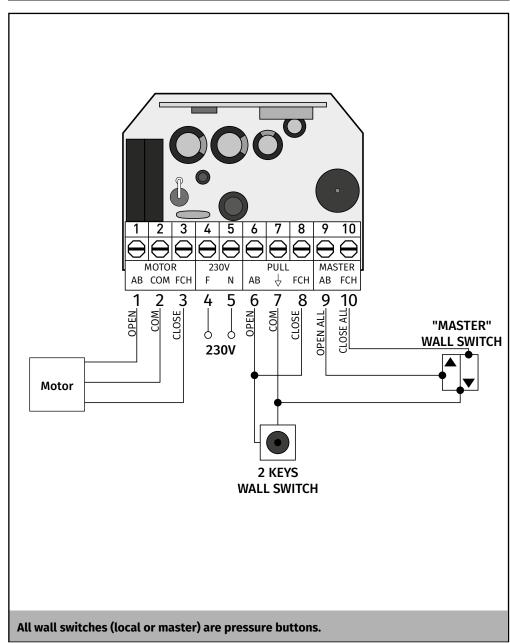


02. CONNECTIONS SCHEME

CONNECTION TO A WALL SWITCH WITH 2 KEYS



CONNECTION TO A WALL SWITCH WITH 1 KEY



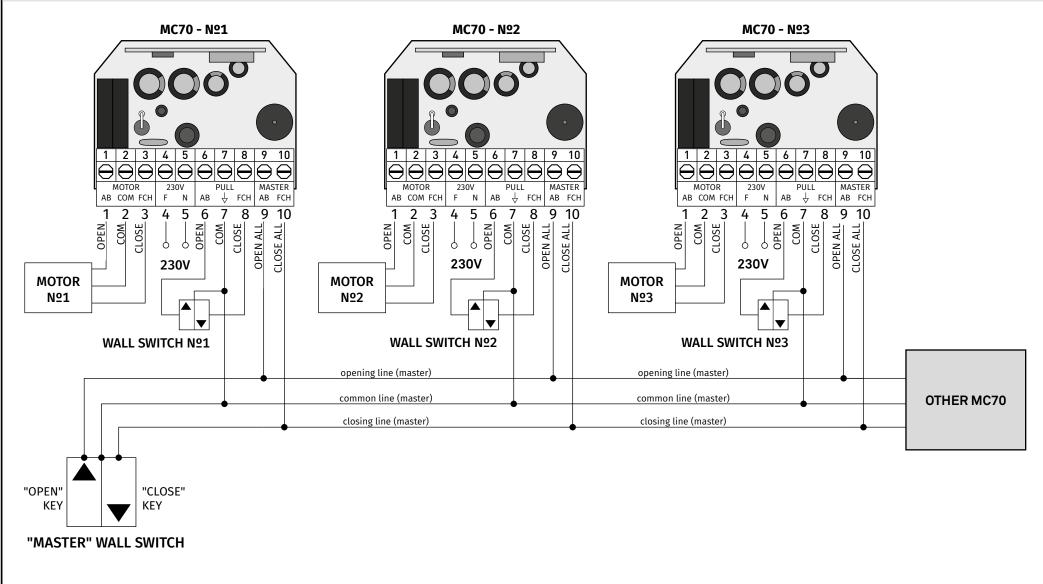




02. CONNECTIONS SCHEME

SEVERAL MC70 CONTROL BOARD CONNECTIONS - MASTER FUNCTION

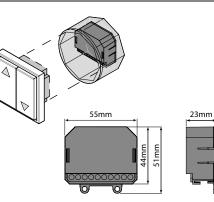
The MC70 control board MASTER function allows to connect and control several MC70 control boards in the same wall switch (MASTER switch). In this way, whenever a Master switch button is pressed, all the interconnected control boards send a impulse to the motors to start the maneuver at the same time.



03. THE CONTROL BOARD

TECHNICAL CHARACTERISTICS

This control board was developed to control TUB/ Rolling motors. Its small size allows it to be installed in junction boxes, existents behind electrical switches (push buttons). It has 2 inputs for pushbuttons with 1 or 2 keys, one for local control and another for centralized control, liking several MC70 control boards on the same wall switch (Master switch). The control board allows to be controled with commands through 1 or 3 keys. All programming is done at a distance, being only necessary acess to a power supply or a wall switch to program the first transmitter.



CHARACTERISTICS BOARD

• Power Supply	230V AC 50-60Hz
• Motor's output	AC230V; 750W Máx
Radio Receiver incorporated	433,92 MHz
Working temperature	-20ºC to 70ºC
• Nº of channels	15
• Code type	Rolling Code
Protection grade	IP44
• Fixed maximum working time per maneuver	2min
• Dimension of box with control board	56x44x23mm
• Box material	ABS

CONNECTOR'S DESCRIPTION

Motorline[®]

CN1	 01 • Motor output -Opening 02 • Motor output - Common 03 • Motor output - Closing 04 • 230V power supply (phase) 05 • 230V power supply (neutral) 06 • Wall switch connection - OPENING (NA) 07 • Wall switch connection - COMMON 08 • Wall switch connection - CLOSING (NA) 09 • Wall switch connection - MASTER - OPENING (NA) 10 • Wall switch connection - MASTER - CLOSING (NA)
	10 • Wall switch connection - MASTER - CLOSING (NA) Attention: The MASTER switch connects the common wire in the 07 connector
	Attention: The MASTER SWItch connects the common wire in the of connector

04. PROGRAMMING

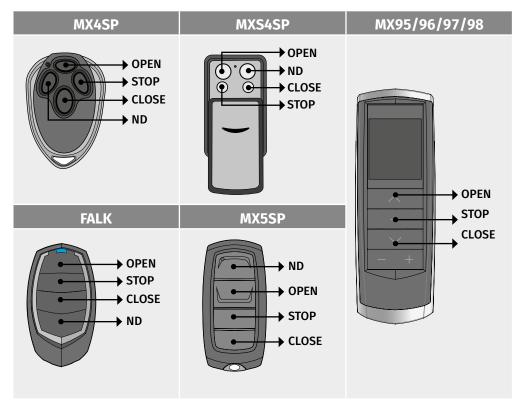
PRE-PROGRAMMING INFORMATION

• TRANSMITTER PROGRAMMING TYPE

The control board allows the programming of two operating modes in transmitters: 1 key or 3 keys.

OPERATING MODE	PERFORMANCE
1 KEY	The programmed transmitter will only work with the OPEN key. This button will send all orders to the control board. Example: Open - Stop - Close - Stop -Open ()
3 KEYS	The programmed transmitter will work with the buttons: OPEN CLOSE STOP. Each button will send a different order to the board.

To know the keys **OPEN**, **STOP** and **CLOSE** of the various transmitters, check the following schemes:





4A

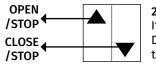
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04. PROGRAMMING

PRE-PROGRAMMING INFORMATION

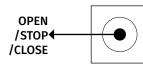
WALL SWITCHES

The center allows the connection of pressure switches with one or two keys. To start a maneuver, just do a simple 1 second pulse at the desired key.



2 KEYS SWITCH

It has two buttons, one for opening and one for closing. During opening or closing maneuver, a click on the contrary key to the motor movement will stop this maneuver.



1 KEY SWITCH

It has only one button for opening and closing. Clicking on the button for opening/closing will stop the motor movement.

PROGRAMMING

TRANSMITTER PROGRAMMING

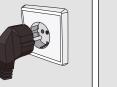
This control board only allows programming MOTORLINE rolling code transmitters by a maximum of 15 transmitters. When programming the 16th transmitter, the control board emits 4 beeps to signal that the memory is full.

It is possible to program the first transmitter through the control board power supply or via a push button. When you have an already programmed transmitter, you can use it to open the memory of the control board at distance and program new commands.

Programming new transmitter (3 keys):



01 • Continuously press the OPEN key of the transmitter you want to supply. program.



02 • Connect the control **03** • Hold the **OPEN** key board to a 230 power

5x for 10 sec. during which

5 slowly beeps.

04 · After 10 sec. the control unit emits 2 the control board emits quick beeps confirming confirming the program success.

2x

04. PROGRAMMING

PROGRAMMING

Programming new transmitter (1 key):





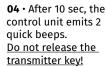


2x

01 • Continuously press 02 • Connect the control the **OPEN** key of the board to a 230 power transmitter you want to supply. program.

03 · Hold the OPEN key for 10 sec, during which the control board emits 5 slowly beeps.

5x

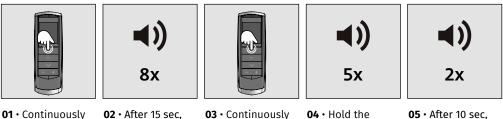




05 • Hold the **OPEN** key for 10 sec, during which the control board emits 3 slowly beeps.

06 • After the total 20 sec (10 + 10). the central emits 5 guick beeps confirming the program success.

Programming new 3 keys transmitter through another already programmed (3 keys):



press the OPEN key of an already programmed transmitter, for 15sec.

the control board emits 8 quick of the transmitter beeps. Release the you want to key of the already program. programmed transmitter.

press the **OPEN** key **OPEN** key for 10 sec, during which the control board emits 5 slowly beeps.









04. PROGRAMMING

PROGRAMMING

Programming new transmitter through another already programmed (3 keys):





01 · Continuously press the OPEN key of an already programmed transmitter, for 15sec.

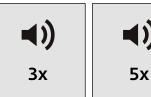
key for more 10

sec, during which

the control board

emits 3 slowly

beeps.



06 • Hold the OPEN 07 • After the total

transmitter.

02 · After 15 sec.

emits 8 quick

programmed

20 sec (10 + 10),

5 quick beeps

confirming the

the central emits

program success.

02 · After 15 sec.

emits 8 auick

beeps. Release

wall switch keys.

the control board

key of the already

03 · Continuously 04 · Hold the press the OPEN key of the transmitter beeps. Release the you want to program. emits 5 slowly beeps.

5x 2x 05 · After 10 sec. OPEN key for 10 the control unit sec, during which emits 2 quick the control board beeps. Do not release the

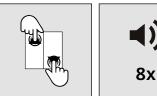
1)

transmitter key!

04. PROGRAMMING

PROGRAMMING

Programming new transmitter (1key) through a 2 buttons wall switch:



01 · Continuously 02 · After 15 sec. press the **OPEN** the control board emits 8 auick and CLOSE keys of beeps. Release a wall switch. for 15sec. wall switch keys.

03 · Continuously press the **OPEN** key of the transmitter vou want to program.

04 • Hold the OPEN key for 10 sec, during which the control board emits 5 slowly beeps.

2x

05 · After 10 sec. the control unit emits 2 auick beeps. Do not release the transmitter key!

1)

5x



06 • Hold the OPEN 07 • After the total key for more 10 sec, during which the control board emits 3 slowly beeps.

20 sec (10 + 10). the central emits 5 quick beeps confirming the program success.

Programming new transmitter (3keys) through a 1 button wall switch:



01 · Continuously press the wall switch button. for 15sec.

6B

02 · After 15 sec. you want to program.





05 · After 10 sec. the control unit emits 2 auick beeps confirming confirming the program success.

Motorline

01 · Continuously

and CLOSE keys of

a wall switch, for

15sec.

press the OPEN



Programming new transmitter (3keys) through a 2 buttons wall switch:



5x

04 · Hold the

beeps.

03 • Continuously the control board press the **OPEN** key of the transmitter you want to program.

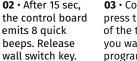
05 · After 10 sec. OPEN key for 10 the control unit sec, during which emits 2 auick the control board beeps confirming emits 5 slowly confirming the program success.

イ))

7x

6A







5x

emits 5 slowly

beeps.

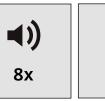


04. PROGRAMMING

PROGRAMMING

Programming new transmitter (1key) through a 1 button wall switch:





03 · Continuously

of the transmitter

vou want to

program.

press the **OPEN** key

01 · Continuously press the wall switch button. for 15sec.



key for more 10 sec, during which the control board emits 3 slowly beeps.

06 • Hold the OPEN 07 • After the total 20 sec (10 + 10),

02 · After 15 sec.

emits 8 auick

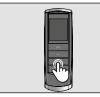
beeps. Release

wall switch key.

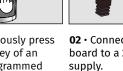
the control board

the central emits 5 quick beeps confirming the program success.

Change motor's direction:



01 · Continuously press the CLOSE key of an already programmed transmitter.



02 • Connect the control 03 · Hold the CLOSE key for 10 sec, during which board to a 230 power the control board emits 5 slowly beeps.

04 • After 10 sec, the control unit emits 2 quick beeps confirming confirming the program success.

()

2x

1)

2x

05 · After 10 sec.

the control unit

transmitter key!

Do not release the

emits 2 quick

beeps.

()

5x

04 · Hold the

OPEN key for 10

emits 5 slowly

beeps.

5x

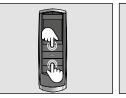
sec, during which

the control board

04. PROGRAMMING

PROGRAMMING

Delete all transmitters through an already programmed transmitter:







01 • Continuously press 02 • Connect the control the OPEN and CLOSE board to a 230 power keys of an already supply. programmed transmitter.

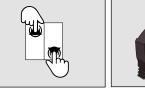
03 • Hold the **OPEN and** CLOSE keys for 10 sec. during which the control board emits 5 slowly beeps.

5x

5x

04 · After 10 sec, the control unit emits 2 auick beeps confirming confirming the program success.

Delete all transmitters through a 2 buttons wall switch:



01 • Continuously press **02** • Connect the control the OPEN and CLOSE board to a 230 power keys of a wall switch. supply.

03 · Hold the OPEN and CLOSE keys for 10 sec. during which the control board emits 5 slowly

beeps.



04 · After 10 sec, the control unit emits 2 quick beeps confirming confirming the program success.

Delete all transmitters through a 1 button wall switch:



01 • Continuously press the wall switch button.

02 • Connect the control board to a 230 power supply.

03 • Hold the **button** for 10 sec, during which the control board emits 5 slowly beeps.

5x



Totorline

04 • After 10 sec, the control unit emits 2 quick beeps confirming confirming the program success.





ΕN

