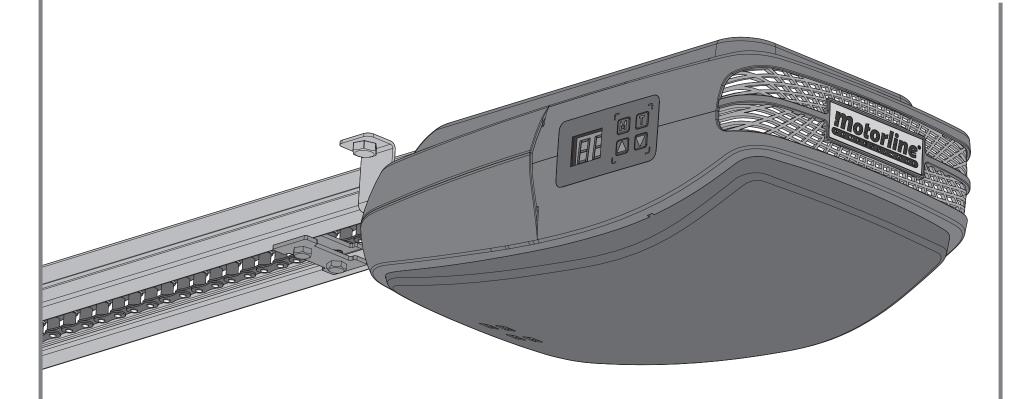




USER'S AND INSTALLER'S MANUAL





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01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW

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.

(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.

2B



01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW

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.
- Includes control board not appropriated 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.
- Includes 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 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.
- This device can be used by children 8 year old or older and persons whose physical, sensory or mental capacities are reduced, or by persons without experience or knowledge if they have received supervision or instructions on the use of the device in a safe manner and understood the hazards involved. Children should not play with the device. Cleaning and maintenance by the user must not be carried out by unsupervised children.

01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW

- Automatism powered by very low safety voltage, with electronic board / control board / control unit.
- Before installing, the installer must verify that the temperature range indicated on the automatism is appropriate to the location of the installation.
- Before installing, the installer must verify that the equipment to be automated is in good mechanical condition, correctly balanced and opens and closes properly.
- If the automation is to be installed at a level higher than 2,5 m above ground level or other level of access, , should be followed the minimum safety and health requirements for the use of work equipment workers at work in Directive 2009/104/EC of the European Parliament and of the Council of 16th September of 2009.
- In the case of the equipment where the automation will be installed, have a pedestrian door, be aware that it must be closed when the automation is activated.
- After installation, make sure that the mechanism is properly adjusted and that the protection system and any manual unlocker works correctly.
- When programming the control unit, pay particular attention to touching only the location intended for that purpose. Failure to do so may result in electric shock.
- Replacement of the power cable in the automation can only be carried out by specialized technicians or by the manufacturer.







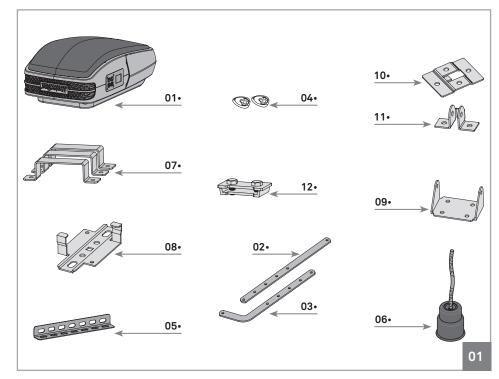
02. PACKAGE

INSIDE THE PACKAGE

Inside the package you will find the following components:

- 01 01 motor
- **02** 01 main rod
- 03 01 secondary rod
- 04 02 transmitters
- **05** 01 mounting bracket
- **06** 01 unlock string
- **07** 03 motor's fixing plate to the rail
- 08 01 rail's fixing plate to the ceilling
- 09 01 rail's fixing plate to the lintel
- 10 01 gate's fixing plate

- 11 01 reinforcement plate to gate's fixing plate
- **12 •** 01 stopper
- 01 set of fixing accessories
- 01 transmitter support







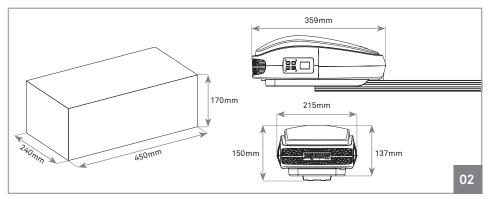
03. THE AUTOMATISM

TECHNICAL SPECIFICATIONS

The **ROSSO EVO** specifications are as follow:

	ROSSO EVO 60	ROSSO EVO 100	ROSSO EVO 120	
Power Supply	AC 230V 50/60Hz	AC 230V 50/60Hz	AC 230V 50/60Hz	
Motor's Power	DC24V - 100W	DC24V - 120W	DC24V - 160W	
 Velocity 	140mm /sec	140mm /sec	140mm/sec	
Noise Level	≤56dB	≤56dB	≤56dB	
• Force	600N	1000N	1200N	
Operating temperature	-25°C a 70°C	-25°C a 70°C	-25°C a 70°C	
Thermal protection	120°C	120°C	120°C	
Protection grade	IP20	IP20	IP20	
Working frequence	70%	70%	70%	
Courtesy Light	3 minutes	3 minutes	3 minutes	
Maximum door area	10 m²	15m²	18m²	
• Memory	30 transmitters	30 transmitters	30 transmitters	
• Code Type	Rolling Code	Rolling Code	Rolling Code	
Radio frequency	433,92Hz	433,92Hz	433,92Hz	

The automatism **ROSSO EVO** dimensions are as follows:



4B



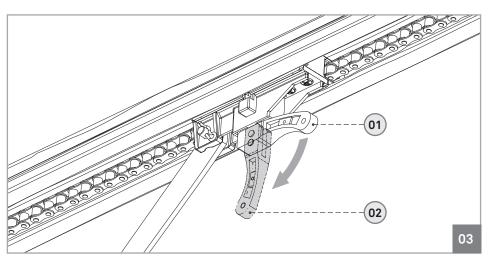


03. THE AUTOMATISM

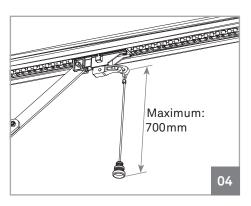
MANUAL BRAKE RELEASE

The ROSSO EVO unlocking system is very simple and practical to use. To do so just pull the lever down (figure 03).

To block simply pull the lever to the original position.



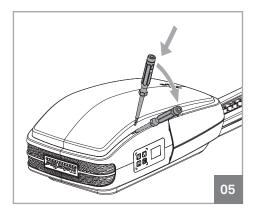
Position 01 • Motor locked
Position 02 • Motor unlocked

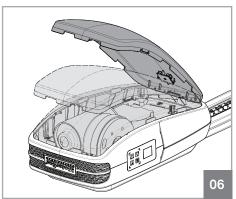


← Together with the automatism it is also provided a string to apply on the unlock lever, which makes it even a more practical and comfortable process.

03. THE AUTOMATISM

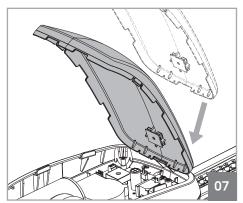
REMOVING TOP COVER

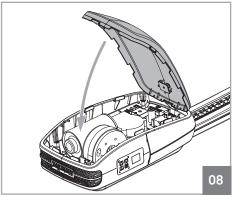




To remove the cover simply insert a small screwdriver into the side holes, and create a leverage effect to release the indents fittings between the top cover and the body. Then just remove the cover by lifting it.

REPLACE TOP COVER





To replace the cover you must first fit the back as shown in the figure 07. Then simply turn down the cover and fit the front pressing down. The fittings will automatically secure the cover.



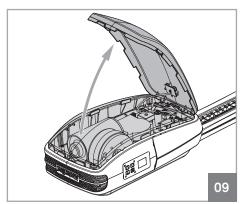


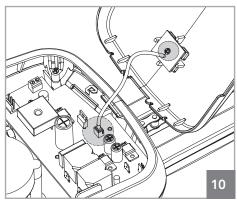




03. THE AUTOMATISM

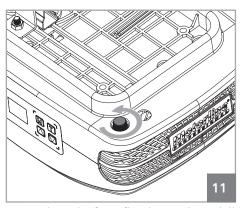
CHANGING COURTESY LEDS

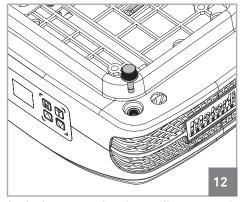




• To replace the LED board you must open the top cover and detach the wire of the LED from the control board. Loosen the screw which secures the LED board to the top cover and remove it. Now just put the new LED board, screw it, fit the wire in the control board and close back the cover on the motor.

CHANGING FUSE





• To replace the fuse, first loosen it as visible in the image 11. Then just pull to remove it (image 12). Repeat the same steps in reverse order to put a new fuse.

The operator uses a 250V 2,5A.

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04. INSTALLATION

INFORMATION PRE-INSTALLATION

For a correct operation of **ROSSO EVO**, you must take into account the following parameters before the installation:

- Read all steps on this manual at least once in order to get acquainted with the installation and configuration process.
- Make sure the door's structure is solid and appropriate to be automated.
- Verify that the sectional door has no technical defects, such as friction points/prison, that may jeopardize the automatism durability.
- Make sure the door is in good condition to install the motor. To do so, raise it manually to 800mm, 1600mm and 2000mm from the ground. Check if the door remains suspended in these positions or descending. If the door starts to go up or down, it means that the springs are not well calibrated.
- Check the surroundings. Carefully evaluate any hazards that may cause material damage, possible insects contact, infiltration, among others.
- Make sure that the automatism will be connected to a 230V, properly protected with Ground Wire.
- Make sure there is adequate protection against short-circuits / power surges and earthed in the Electrical Box.
- Be careful when handling directly the control board. Improper handling can damage some electrical components.
- Make sure you have all the necessary material prepared for installation.
- Evaluate the safety devices to be installed. This will ensure that unexpected accidents do not happen.



It is very important that these precautions are respected!

Only in this way the correct functioning and automatism durability can be achieved!



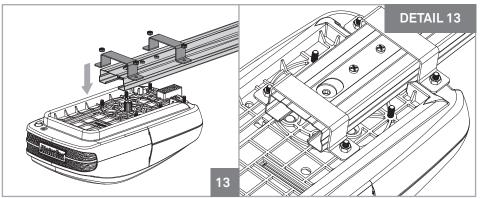


04. INSTALLATION

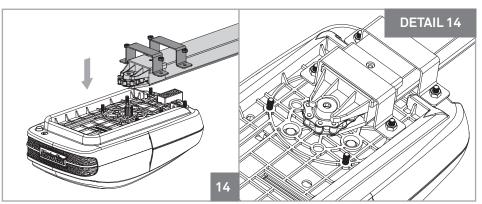
FIXING THE MOTOR IN RAILS

<u>\</u>

With standard rails, you can only automate doors with maximum height of 2500mm.



01 • The steel rail and automatism attachment must be made using the plates and M6 nuts as shown above. Fasten 4 screws, leaving the two in the middle free.



02 • The aluminum rail and automatism attachment must be made using the plates and M6 nuts and as shown above. Tighten 4 screws, leaving the two in the front free.

motorline

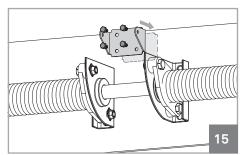
1

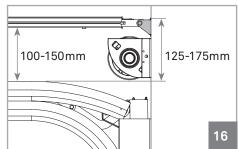
7B

EN

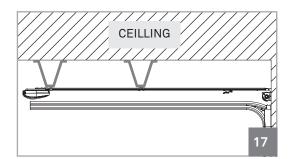
04. INSTALLATION

AUTOMATISM INSTALLATION

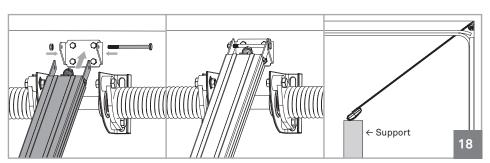




01 • Attach the rail's support plate to the lintel, as visible in the image 15. In the image 16 if can be seen the distance to keep between the gate rail and support plate's upper part (125-175mm).



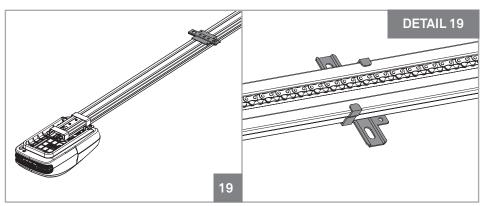
← Note • If you are unable to fix the rail to the ceiling for not respecting the measures above, there should be created a solid structure to be able to fix the motor in correct measurements. This structure may be fixed to the ceiling as a visible on the image 17.



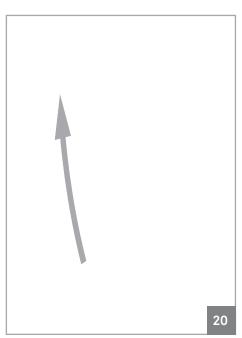
02 • Fasten the rail in the fixation plate already attached. To facilitate the task, you can do it with the rail inclined (motor on the floor / support) which facilitates the installation since you only have to handle the area of rail to be fixed.

04. INSTALLATION

AUTOMATISM INSTALLATION



03 • Place celling rail 's fixation plate roughly halfway through the steel rail as visible in the pictures above.



04 • Raise up the motor until the rail is levelled horizontally.

If necessary, you should create a support structure to a solid surface as shown on the previous page, so that the rail stays horinzotally aligned (picture 17).

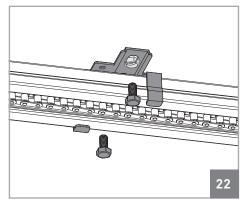
Mark the holes in the ceiling plate and/or structure and make the necessary holes to fix it.

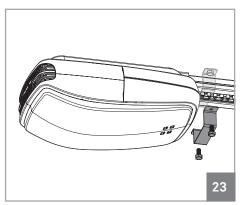


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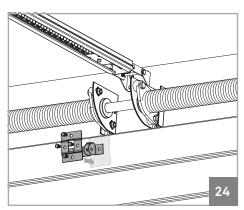
04. INSTALLATION

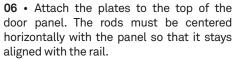
AUTOMATISM INSTALLATION



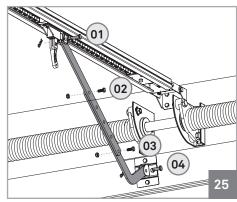


05 • After rising the rail and mark the holes, you should fix the plate with screws. After that, you should use bracket to reinforce the attachment, this time near the motor (image 23).





It should also be to fixed as higher as possible (picture 24).



07 • Now attach the two connecting rods between the trolley and the panel's upper plate.

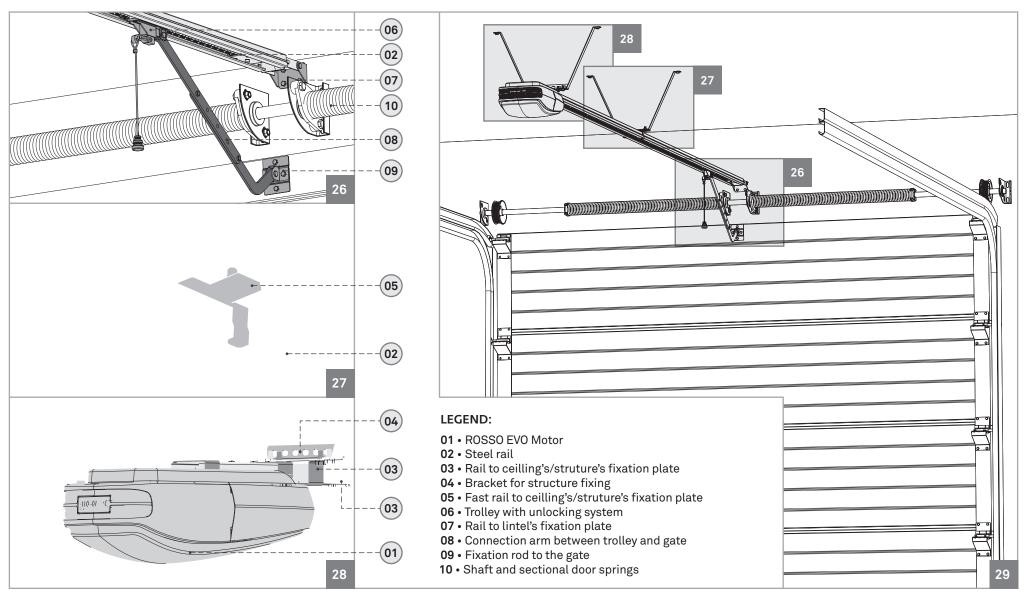
Use the screws and M8 nuts to tighten 2 rods together (02 and 03), and 2 pins with pegs to fix them on the trolley and the gate (01 and 04).



8B

04. INSTALLATION

INSTALLATION MAP





LEGEND



Legend:

AA • Display

M • Main Menu

• Programming transmmiters

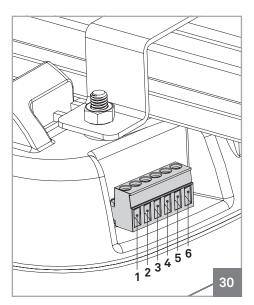
• Up

• Down

When you turn the power on, the LCD displays a countdown from 99 to 11, and the courtesy lamp stays on for 2 seconds. When the motor is in standby, the display shows the message 88.

When the motor is opening, the display always shows the message ∂P . When the motor is closing, the display always shows the message $\mathbb{Z}\mathbb{Z}$.

Note: If you connect a signaling lamp, this will blink during any gate's movement cycle.



Conector Links:

- 1 Pedestrian Gate (NC contact)
- 2 PB (contact NO)
- 3 PE (contact NC)
- 4 GND (common)
- 5 +24V
- 6 Extern Lamp (max. 24V 5W)



10A

05. PROGRAMMING

MENU FUNCTIONS

The control board has a main menu which allows access to all the different settings of the automatism.

88	Programming the "Follow Me" function	88	Enable/disable condominium function
PI	Programming opening and closing courses	РЬ	Programming maintenance warnings
88	Programming the automatism force level	88	Programming transmitters using already configured transmitters
Р3	Enable/disable safety photocells	P8	Counting of maneuvers
88	Programming the self-closing feature	88	Enable/disable the service door



Start all the programs from the stand-by mode (--)!

All the menu configuration instrution in this manual have been performed using as starting point the stand-by mode (--).

Begin programming the P1 menu with the gate closed, since the first maneuver configuration will be the opening.

• Programming the "Follow Me" function

- 01 Press the M button for 4 seconds to enter the programming menu.
- 02 The display will show P1. Press ▼ key to access P0.
- 03 Press M key once to acces the submenu.
- 04 The display will show the currently set value. You can now select another option using the ▲ or ▼keys to select the desired value for the "Follow Me".

Note: Each value corresponds to the seconds that the automation waits to close.

- Example: 02 corresponds to 2 seconds.
- 05 Prima a tecla M durante 2seg para confirmar a opção desejada.

Functionality • The "Follow Me" function automatically closes the gate, after the photocells detect the passage of people or vehicles.

The time space between the passage of cars/persons through the photocells and the start of the gate closing maneuver can be set from 0 to 10 seconds.



This function works only if the P3 and P4 functions are enabled.





MENU FUNCTIONS



• Programming opening and closing courses

- 01 Press the M key for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press the M key once to enter the submenu.
- 03 The display will show OP and you can now set the opening limit using the ▲ or ▼ keys to adjust it.
- 04 Press the M key for 2sec to confirm the opened position.
- 05 The display will show CL and you can now configure the closing limit using the same ▲ or ▼ keys.
- 06 Press the M button for 2sec to confirm the closed position. The control board saves the configuration and exits the programming mode.

The LEDs light up for 2sec and the gate starts to open and close automatically to the programmed limits showing the message OP during the opening and CL during the closing. When it finishes closing, the control board will exit to the stand-by mode (--).



If it stays more than 20sec without pressing any key, the control board will exit every programming and automatically go to stand-by mode (--) without saving any action.

Programming the automatism force level

- 01 Press the M key for 4 seconds to enter the programming menu.
- **02** The display will show **P1** and press ▲ and ▼ keys repeatedly until it shows P2.
- 03 Press the M key once to access this submenu.
- 04 The display will show a value between F1 and F9, which identifies the strength level when the motor is configured. Use the ▲ or ▼ keys to select the desired option, being F1 the minimum force and F9 the maximum.
- 05 Press the M key once to save this option.
- **06** The control board will exit to standby mode (--) and the configuration is complete.

Nota • The control board comes with the F4 level configured from the factory.

05. PROGRAMMING

MENU FUNCTIONS

• Enable/disable safety photocells

- 01 Press the M button for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P3.
- 03 Press the M key once to access this submenu.
- 04 The display will show the value H0 or H1, which identifies the option in which the central is configured. Use the ▲ or ▼ keys to select the desired option.
- H0 disables the use of photocells and H1 activates it.
- 05 Press the M key once to save this option.
- 06 The control board will exit to standby mode (--) and the configuration is complete.

Functionality • When the use of photocells is active and some obstacle cross them when the door is closing, the door will reverse direction beginning to open.

Note • The use of photocells comes disabled by the factory (H0).



Start all programs from the stand-by mode (-)

If it stays more than 20sec without pressing any key, the controlboard will exit the state and will automatically go to stand-by mode without saving any action.

• Programming the self-closing feature

- 01 Press the M button for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P4.
- 03 Press the M key once to access this submenu.
- 04 The display will show a value between 00 and 90, which identifies the time in seconds that the engine is on hold since the opening ends until start automatic closing. Use the ▲ or ▼ buttons to select the desired option.
- 05 Press the M key once to save this option.
- 06 The control board will exit to standby mode (--) and the configuration is complete.

Note • The option 00 disables the automatic closing, so the gate will only close if it receives an order from a configured device.

Any other option sets the automatic closing time, being the minimum 10 seconds (option 10) and the maximum 90 seconds (option 90).









MENU FUNCTIONS

• Enable/disable function condominium

- 01 Press the M button for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P5.
- 03 Press the M key once to access this submenu.
- 04 The display will show the value H0 or H1, which identifies the option in which the central is configured. Use the ▲ or ▼ buttons to select the desired option.
- 05 Press the M key once to save this option.
- 06 The control board will exit to standby mode (--) and the configuration is complete.

Functionality • This function causes the central to ignore all orders for the opening course sent by configured devices.

- · If you press the transmitter during the opening, the order is rejected and it continues to open
- If you press with the door completely open, it will begin to close.
- If you press during closing, the gate reverses direction and starts to 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 (...) by each time you press the transmitter.



Note • The P4 and P5 functions, when activated, prevent the gate to stay open. This way the gate will always open completely, starting the closure after the pause time defined in P4.

• Programming maintenance warnings

- 01 Press the M key for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P6.
- 03 Press the M key once to access this submenu.
- 04 The display will show a value between 00 and 45, which identifies the thousands of maneuvers to which the motor will emit a warning maintenance light.

Use the ▲ or ▼ keys to put on the desired option.

- 05 Press the M key once to save this option.
- **06** The control board will exit to standby mode (--) and the configuration is complete.

Funcionality • This notice serves to schedule revisions to the automatism, gate or springs after a certain number of complete maneuvers (open-stop-close-stop). When the automatismo completes the number of maneuvers defined by this menu, the LEDs will blink during 2 minutes after every maneuver, to emit the maintenance warning.



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05. PROGRAMMING

MENU FUNCTIONS

Note • The option 00 disables the maintenance warning. Any other option defines thousands of operations, the lowest value is 5000 operations (option 05) and the maximum is 45000 operations (option 45).

Whenever you want to reconfigure this option, you must perform two configurations. First, set the option to 00 to make a RESET to the counting maneuvers. After that, make a new one setting the new desired option. The central will, from this moment on, start counting maneuvers to emit the maintenance warning.

• Programming transmitters using already configured transmitters

- 01 Press the M key for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P7.
- 03 Press the M key once to access this submenu.
- 04 The display will show the value L0 or L1, which identifies the option in which the central is configured. Use the ▲ or ▼ keys to put on the desired option.
- 05 Press the M key once to save this option.
- 06 The control board will exit to standby mode (--) and the configuration is complete.

Funcionality • This menu allows you to enable or disable the possibility to program a new transmitter through one already configured (see page 11.A).

L0 means that this functionality is disabled, and L1 means that is enabled.

• Counting maneuvers

- 01 Press the M key for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P8.
- 03 Press the M key once to access this submenu.
- 04 The display will show three numbers, each one for 2 seconds separated by intervals of 1 second between them.

After this the control board will automatically exit to standby mode (--).

Funcionality • This function serves only to show all completed maneuvers performed by the automatism (open-stop-close-stop).

Example: If when entering the P8 submenu the display first show n°15, then n°65 and finally n°22, means that a total of 156522 complete maneuvers have already been done.

RESET through the menu P6: To restart maneuver counting, go to P6 submenu, and





MENU FUNCTIONS

while the display shows any of the options in this submenu, press the \blacktriangle and \blacktriangledown keys simultaneously for 10 seconds. The control board will automatically exit to standby mode and the **RESET** to the **P8** menu is complete.

Service door / Photocells for side door open

- 01 Press the M key for 4 seconds to enter the programming menu.
- 02 The display will show P1 and press ▲ and ▼ keys repeatedly until it shows P9.
- 03 Press the M key once to access this submenu.
- **04** The display will show the value **E0** or **E1**, which identifies the option in which the central is configured. Use the \triangle or ∇ keys to put on the desired option.
- $05 \cdot \text{Press the } \overline{M} \text{ key once to save this option.}$
- 06 The control board will exit to standby mode (--) and the configuration is complete.

Funcionality • The option **E0** disables the use of this functionality while the **E1** option activates it.

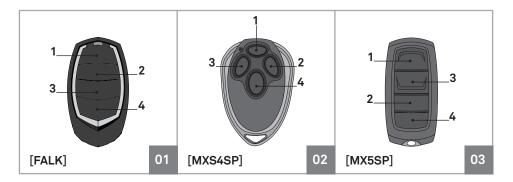
When the function is activated, the gate only opens/closes if the service door is closed or if the side sectional door's photocells are not interrupted.

With the service door openned, the control board rejects any opening or closing order. If the service door opens during any gate maneuver, the gate stops immediately.

If the photocells are interrupted during a closing maneuver, the automatism will stop immediatly, but if it is during an opening maneuver it will stop and invert (close) for 1 second.

05. PROGRAMMING

PROGRAMMING TRANSMITTERS



• Standard configuration using the T key on the display

- 01 In stand-by mode (--) press the T key until the display shows SU.
- **02** Press two times the transmitter's desired key to configure until the engine starts moving.

Note • Repeat these steps whenever you want to configure new transmitters.

Configuration through already configured transmitters

Since there is already configured transmitter, you can use it to open the control board's memory by distance in order to configure new transmitters.

This allows easy configuration without requiring direct access to the engine.

- 01 In Stand-By mode (--) press 3 and 4 keys from an already configured transmitter until the courtesy LEDs start to blink. Now release the pressed buttons.
- **02** Press the new transmitter's desired key to configure until the automatism starts moving.
- $\textbf{Note.1} \bullet \textbf{Repeat these steps whenever you want to configure new transmitters.}$
- Note .2 This feature can be enabled or disabled via the P7 menu (see pag 10.A).

• Delete all configured transmitters

01 • In stand-by mode (--) press the T key for 10 sec until the display shows dl.



The control board has a maximum capacity of 30 transmitters and only accepts Motorline Rolling Code transmitters!







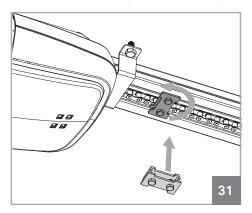
EN

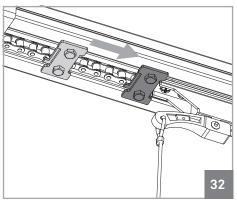


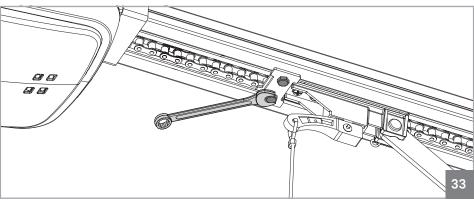
06. POST-INSTALLATION

STOPPER AT THE OPENING

The automatism needs a stopper in the opening and closing to always control the courses. In closing maneuvers, the ground will be the stopper for the gate, but in the opening maneuvers it is necessary to create a stopper on the steel rail, to ensure that the trolley always stop in the correct place.



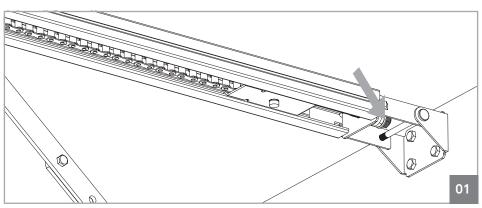




- To install the opening stopper just apply it on the rail, as seen in Figure 34. The stopper must have a metal plate out of the rail and other on the inside, so when you fasten it, this is secure in the pipeline.
- With the door completely open, push the stopper untill it touches the trolley (35).
- Fasten the two screws to hold the stopper in that exact position (36).

06. POST-INSTALLATION

STRETCH RAIL'S CHAIN



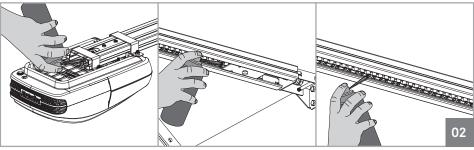
For a correct automatism function, the chain has to be very well adjusted.

For that, you just need to tighten or loosen the shadowed nut in the above picture with a wrench key, which will stretch or relieve the chain.

The chain can't be too much stretched, or it will get too stuck and damage the gear and the motor, nor too loose to the point of creating a sag in the middle and come out of the rail.

Note • The spring tensioner should never get fully compressed, because it means that it is on is maximum tension!

MAINTENANCE



The only maintenance required is lubricating the automatism and rail motion axes. The pinions at both ends of the rails as well as their supporting bearings and chain should be lubricated at least once every year.



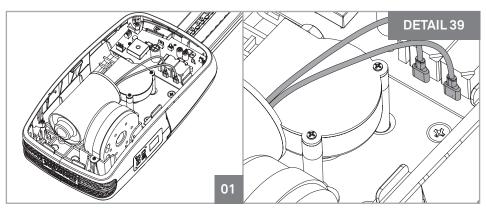






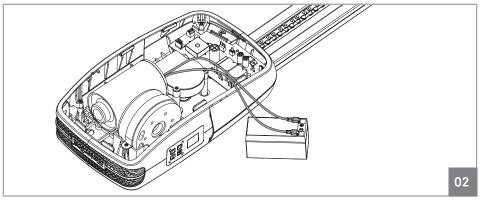
07. DIAGNOSIS

CONNECT ENGINE TO 24V BATTERY



In case of automatism failure or malfunction, you must detect the fail component (motor or central). To do that, you should test the motor directly connected to a **24V DC** power source, in order to understand if this works.

Just disconnect the two motor cables (shaded in the image 39) which connect to the central and connect them directly to a **24V DC** battery as visible in the image 40.



Motor cables have no specific way of connection. The only difference is that if you connect the motor in one way, it will rotate in one direction, and if you connect the wires in the oppose it will rotate in the other direction.



08. TROUBLESHOOTING

CONTROL BOARD ERROR MAP

Error	Error Description	Cause	Solving the problem	
ENCODER ERROR	The control board does not receive information encoder installed on the motor.	• Encoder's plug.	• Make sure the plug is fully inserted.	
		• Motor does not work and the encoder does not scan.	• Test battery to see if the motor is running.	
		• Encoder does not work/is off.	• Test with another encoder.	
		• Digit control board does not send signal to the base control board.	• Test with another digits control board.	
		Base control board does not send power to motor.	• Test with another base control board.	
MEMORY FULL	• It is unable to program a new remote controls (# 31).	• The memory is full (30 remote controls).	 In case of not using the memorized remote controls, clear the existing memory. If you have 30 programmed commands and want to add more, install an external receiver (MR5SP). 	
EXCESSIVE WORKING TIME	The motor stops functioning. During programming does not record the course.	• The engine is more than 1 minute in continuous operation.	The motor does not support a working time exceeding 1 minute. In the case of trying to make a program exceeding 1 minute it will not be stored. Reprogram the course without exceeding 1 minute.	
COURSE ERROR	Trying to program the closure before opening.	• Swap the red wire with the motor's black wire.		
	 • Iron rails motor (CF) with aluminum rails (CA) installed or the oppos • Check if, by pressing the arrow ▲, the door goes up and the display • Check if, by pressing the arrow ▼, the door goes down and the display 			
EXCESSIVE LOADING	• Excessive loading in the motor due to gate's excessive weight.	Redo the course programming without putting too much offert against the stoppers.		
	• Too much effort. When programming the motor (working time, P1 stopper or against the floor.	much effort against the stoppers.		



08. TROUBLESHOOTING

INSTRUCTIONS FOR FINAL CONSUMERS

INSTRUCTIONS FOR TECHNICAL PERSONNEL

Anomaly	Procedure	Actions	Procedure II	Discovering the origin of the problem				
Motor does not work	Verify that you have connected to 230V power to the automation and if the fuse is working properly.	Still not working	Consult a MOTORLINE qualified technician.	Remove the top cover of the engine; Measure the 24V transformer's output to detect the location of the malfunction;	A) Has 24V: 1 • Make sure the central is supplying the motor to detect whether the fault is in the engine or in the central. Replace the damaged component or send to	detect the engine ce the B) Doesn't have 24V: 1 • Check the 230V tra		on the input, the transformer is the problem. If not, the problem is the fuse, electrical cables or electrical current itself. Check all systems.
	Make sure the pedestrian service door is securely closed.	• Still not working	Consult a MOTORLINE qualified technician.	1 • Give a start on the transmitter to open and check the LEDs behavior.	2 • If it blinks twice, then the connection with the photocells is having problems. Check all the photocells circuit connection.	3 • If it flashes three t the service door conne having problems. Chec door's connection circ	ection is k all the	
Motor does not move but makes noise	Unlock the engine and move the gate manually to check for	• Encountered any problems?	Consult an gate's technician.	1 • Check all the motion axes and the movement systems associated to the gate and the automatism (rails, pulleys, bolts, hinges, etc.) to out he problem. Also make sure the springs are in good condition and are able to withstand the gate.			pulleys, bolts, hinges, etc.) to find	
makes noise	mechanical problems on the gate.	• The gate moves easily?	Consult a MOTORLINE qualified technician.	1 • Turn off the central's motor and test it directly connected to a 24V battery to find the malfunction (see page 12.B)	2 • If the engine operate, the problem is in the central. Pull it out and send it to the MOTORLINE technical services for diagnosis;	3 • If the motor does n remove it and send it t MOTORLINE technical for diagnosis.	o the	
Motor opens but does not close	1 • Check if there is any obstacle in front of the photocells; 2 • Chech if the photocells are working. Put your hand their infrared link, and or relay makes noise. 3 • Check if any of the ge devices (key selector, puideo intercom, etc.) are sending permanent sign	theck if the ate's control ush button, clocked and	Consult a MOTORLINE qualified technician.	2 • Check if the photocells have power supply from the control board. If not, check the fuse on °FUSE FT (see page 14); 3 • Go to the menu on the display and disable the photocells and the service door; Activate the photocells and make sure the gate closes. If it closes, the problem will be on the service door. Activate it from the menu and try to close the gate to be sure. If you have 24V, the center problem is in the engine.		blem is in the motor or in the ve the order to close the gate while the output power from the central ne. 2 24V, the center is working and the in the engine.		
	NOTE • With the gate open, if you give the order to close and you have some obstacle in front of the the photocells, LEDs blink twice. During closing, if it invert for stress detection, blink once.							
Motor does not the full	Unlock motor and move gate by hand to	• Encountered any problems?	Consult an gate's technician.		he movement systems associated to e springs are in good condition and a			pulleys, bolts, hinges, etc.) to find
itinerary	check for mechanical problems on the gate.	• Is the gate moving easily?	Consult a MOTORLINE qualified technician.	1 • Verify that the gate tests were well done; 2 • Change the force on P2 menu until the engine move the gate without changing direction; 3 • This adjustment must be made so that the gate when	meeting an obstacle inverts his direction (left illustration);	4 • If even at his maxim strength (F9) the probl remains, test the moto connected to a 24V bat see if it has the streng close the door complet 5 • Change the force or	em still or directly ettery to th to open/ tely;	until the engine moves the gate without changing direction;

09. CENTRAL CONNECTIONS

ROSSO EVO CONTROL BOARD

