ROSSO EVO User's and Installer's manual





OO. CONTENT

O1. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW⊲

⊳ INDEX

ATTENTION:

> To ensure the safety of people, it is important that you read all the following instructions. Incorrect installation or incorrect use of the product can cause physical injury and material damage.

▷ Keep these instructions in a safe place for future reference.

> This product was designed and produced strictly for the use indicated in this manual. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.

▷ ELECTROCELOS SA is not responsible for the improper use of the product, or other use than that for which it was designed.

▷ ELECTROCELOS SA is not responsible if safety standards were not taken into account when installing the equipment, or for any deformation that may occur to it.

▶ ELECTROCELOS SA is not responsible for the safety and proper operation when using components not sold by them.

▷ Do not make any modifications to the operator components and / or their accessories.

▷ Before installation unplug the automatism from the source of power.

▷ The installer must inform the client how to handle the product in case of emergency and provide this manual to user.

▷ 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 operator .Must call qualified technician only.

▷ Connect the automatism to a 230V plug with ground wire.

▷ Operator for indoor use.

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01.A



O2. PACKAGE

▷ INSIDE THE PACKAGE

Inside the package you will find the following components:

- ▷ 01 ROSSO EVO motor
- ▷ 01 main rod
- ▷ 01 secondary rod
- ▷ 02 MX4SP 4-channel transmitters
- ▷ 01 transmitter support
- ▷ 01 mounting bracket
- ▷ 01 unlock string
- ▷ 03 motor's fixing plate to the rail
- ▷ 01 rail's fixing plate to the ceilling
- ▷ 01 rail's fixing plate to the lintel
- ▷ 01 gate's fixing plate
- ▷ 01 reinforcement plate to gate's fixing plate
- ▷ 01 stopper
- ▷ 01 set of fixing accessories



O3. 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	
⊳ 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	-20°C to 70°C	-20°C to 70°C	-20°C to 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	10m²	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:

215mm





02.A



O3. THE AUTOMATISM

O3. 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 (following figure).

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.





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 left figure. Then simply turn down the cover and fit the front pressing down. The fittings will automatically secure the cover.

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REMOVING TOP COVER ⊲

O3. THE AUTOMATISM

O4. INSTALLATION

▷ 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 left image. Then just pull to remove it (right image). Repeat the same steps in reverse order to put a new fuse. The operator uses a **250V 2.5A fuse**.

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.*F*

O4. INSTALLATION

O4. INSTALLATION

▷ FIXING THE MOTOR IN RAILS

AUTOMATISM INSTALLATION ⊲



With standard rails, you can only automate doors with maximum height of 2400mm.



on - 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.



o2 - 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.





o1 - Attach the **rail's support plate to the lintel**, as visible in the left image. In the right image 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 on the left.



o2 - 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.

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04. INSTALLATION

04. INSTALLATION

▷ AUTOMATISM INSTALLATION

AUTOMATISM INSTALLATION ⊲



o3 - 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 If necessary, you should create a support structure to a solid surface as shown on the previous page, so that the rail stays

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







o5 - 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 (right image).



o6 - Attach the plates to the top of the door panel. The rods must be centered horizontally with the panel so that it stays aligned with the rail. It should also be to fixed as higher as possible (visible in the picture above).



o7 - 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 (o1 and 04).





O4. INSTALLATION

▷ INSTALLATION MAP



⊳ LEGEND

↓ Legend BB ▷ Display M M ▷ Main Menu T ▷ Programming transmitters △ ▷ 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 BB.

When the motor is opening, the display always shows the message B R. When the motor is closing, the display always shows the message B R.

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)

MENU FUNCTIONS 4

05. PROGRAMMING

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

- $B_{a} > Programming opening and closing courses$
- *B∂* ⊳ Programming the automatism force level
- $BB \triangleright$ Enable / disable safety photocells
- $\mathcal{B}\mathcal{B} \triangleright$ Programming the self-closing feature
- **BB** ⊳ Enable / disable condominium function
- $\mathcal{B}_{\mathcal{B}} \triangleright \mathsf{Programming} \mathsf{maintenance} \mathsf{warnings}$
- *B* > Programming transmitters using already configured transmitters
- *BB* ⊳ Counting of maneuvers
- $BB \triangleright$ 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 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 for 2 sec 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 \triangle 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 (--).



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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.

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05. PROGRAMMING

▷ MENU FUNCTIONS

MENU FUNCTIONS⊲

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 \triangle 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.

Note ▷ The control board comes with the F2 level configured from the factory.

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 \triangle 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 \bigtriangleup or $\pmb{\nabla}$ keys to select the desired option.

HO 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.

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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**).

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.

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09.B

▷ MENU FUNCTIONS

05. PROGRAMMING

MENU FUNCTIONS ⊲

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 \triangle 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.

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 **LO** 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.

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

LO 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). Just put together the three numbers shown on the display and you will know the total maneuvers of that engine. 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

RESET through the menu **P6**: To restart maneuver counting, go to P6 submenu, and while the display shows any of the options in this submenu, press the ▲and ▼ keys simultaneously for 10seconds. The control board will automatically exit to standby mode and the **RESET** to the **P8** menu is complete.

Enable / disable the service door

O1▷ Press the M key for 4 seconds to enter the programming menu.
O2▷ The display will show P1 and press ▲ and ♥ keys repeatedly until it shows P9.
O3▷ 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 △ 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 ► The EO disables the use of the service door while the E1 option activates it.

When activated this function, the controlboard will only make any opening or closing maneuver if the service door is closed.

If the door is opened, the controlboard will reject any opening or closing order.





done.

06. POST-INSTALLATION

▷ 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 one time the transmitter's desired key to configure until the engine starts

02> Press one time 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.

O1▷ In Stand-By mode (--) press 2 and 3 keys from an already configured transmitter until the courtesy LEDs start to blink. Now release the pressed buttons.
 O2▷ Press the new transmitter's desired key to configure until the automatism starts moving.

Note .1> Repeat these steps whenever you want to configure new transmitters. Nota .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 10sec until the display shows **dl**.

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

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11.A

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 1**. 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 (2).
 > Fasten the two screws to hold the stopper in that exact position (3).

06. POST-INSTALLATION

07. DIAGNOSIS

▷ 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.

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 12/24V DC power source, in order to understand if this works.

Just disconnect the two motor cables (shaded in the image above) which connect to the central and connect them directly to a 12/24V DC battery as visible in the image below.



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.

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12.A

08. TROUBLESHOOTING

▷ INSTRUCTIONS FOR FINAL CONSUMERS

INSTRUCTIONS FOR TECHNICAL PERSONNEL <

Anomaly	Procedure	Actions	Procedure II	Descobrir origem do problema			
▷ 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.	1 ▷ Remove the top cover of the engine;A) Has 24V:Motorline facilities for diagnosis and repair.the input, the trans- problem. If not, the the fuse, electrical current its supplying the motor to detect2 ▷ Measure the 24V transformer's output to detect the location of the malfunction;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 toMotorline facilities for diagnosis and repair.the input, the trans- problem. If not, the the fuse, electrical current its systems.	problem is cables or		
	▷ Make sure the pedestrian service door is securely closed.	⊳ Still not working	≻ Consult a Motorline qualified technician.	1 ▷ Give a start on the transmitter2 ▷ If it blinks twice, then the connection with the photocells is having problems. Check all the photocells circuit connection.3 ▷ If it flashes three times, then the service door connection is having problems. Check all the door's connection circuit.	the service door connection is having problems. Check all the		
▷ Motor does not move but makes noise	▷ Unlock the engine and move the gate manually to check	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 find out he problem. Also make sure the springs are in good condition and are able to withstand the gate.			
	for 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 malfunc- tion (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 not work, remove it and send it to the Motorline technical services for diagnosis.			
▷ Motor opens but does not close	1 ▷ Check if there is any obstacle in front of the photocells; 2 ▷ Check if any of the gate's control devices (key selector, push button, video intercom, etc.) are locked and sending permanent sign;	▷ Gate has opened but did not close.	Consult a Motorline qualified technician.	 Make sure the display and the courtesy Ds are connected and to see if it has wer; Go to the menu on the display and sable the photocells and the service door, and the service door. Activate the photocells and make sure the menu and try to close the gate to be sure. A) It closed: A) It closed: D Problem is in one of these two systems. 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. B) Didn't close: D The problem is in the motor or in central. Give the order to close the gate to be sure. D (you have 24V, the center is working the problem is in the engine. D fit does not have power, the problem is in the centralboard. 			
	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.		s, LEDs blink twice.				
▷ Motor does not the full itinerary	▷ Unlock the engine and move the gate manually to check	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 find out he problem. Also make sure the springs are in good condition and are able to withstand the gate.			
	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); the problem still remains, test the motor directly connected to a 24V battery to see if it has the strength open/close the door open/c	r completely; e on P2 menu oves the gate		

O9. CENTRAL CONNECTIONS

▷ ROSSO EVO CONTROL BOARD

