

# INSTALLATION MANUAL

## MOTOREDUCER FOR SLIDING GATES

### CARRERA SERIES



**ATTENTION!! Read this manual carefully before installation.**

**N.B.** –The manufacturer declines any responsibility in case of non-conformity with the regulations in force in the Country where installation is carried out.

The EC marking complies with EC Directives 89/336 + 92/31 + 93/68 L. D. 04/12/1992 no. 476.

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## PACKAGING CONTENT

This packaging contains the following items:

Q.ty    Product description

01    Geared motor

01    Bag containing end-stroke switch components

01    Release key

Optionals

- Control panel
- Radio remote control
- Tuned aerial 433.920
- Pair of photocells
- Signal light
- External key selector switch
- Placard



## AUTOMATION PROSPECTUS AND LIST OF COMPONENTS

Round-shaped electromechanical geared motor, permanent lubrication, release key, mechanical end-stroke switch: suitable for sliding gates weighing from 800 to 1000 Kg.  
The control panel can be placed on the inside.

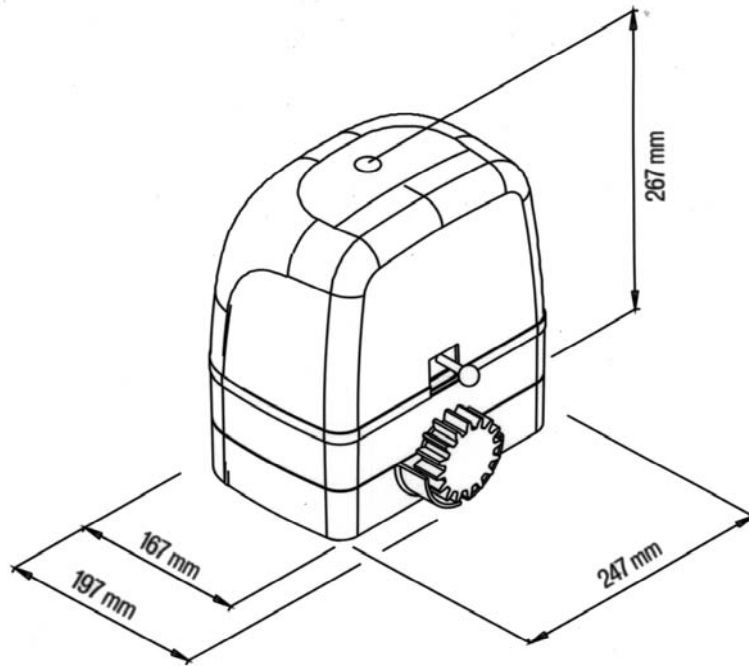
### Optimal Installation

1. Geared motor	5. Signal light
2. Electronic control panel	6. Key selector switch
3. External photocell	7. Aerial
4. Internal photo cell (optional)	8. Radio remote control

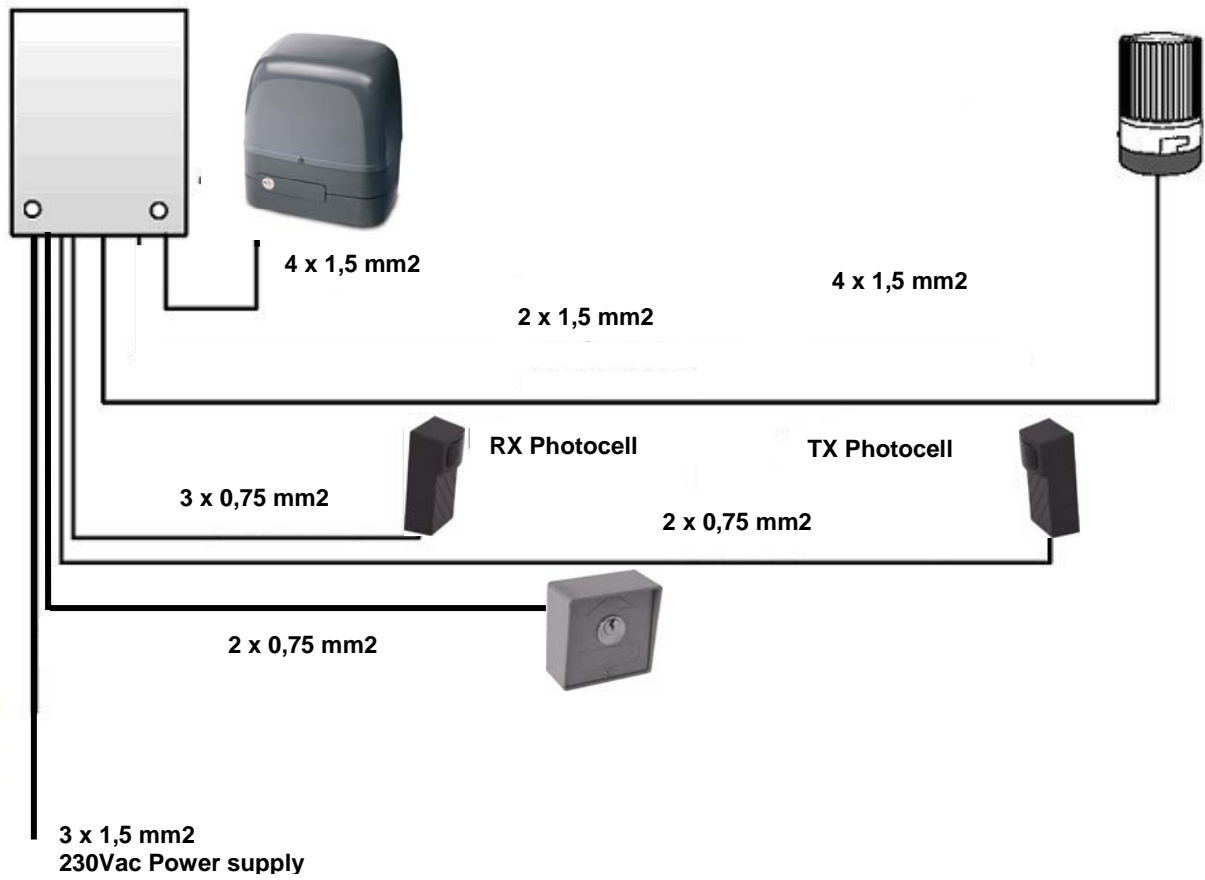
## TECHNICAL DATA

FEATURES	800 Kg	1000 Kg
Motor supply	230 Vac	
Maximum weight of gate	800 Kg	1000 Kg
Motor revs	1400 rpm	
Pinion	M4 - Z16	
Average consumption	1,1 A	1,7 A
Motor power	270 W	330 W
Condenser	12,5 uF	
Operator weight	10 Kg	10,5 Kg
Noise level	<30 dBA	
Operating temperature	-20/+55°C	
Heat range	140 °C	
Frequency of use	50%	
Idling speed	10mt/min	
Degree of protection	IP44	

### DIMENSIONS



### CONNECTION AND CABLES



## INSTALLATION REQUIREMENTS

- Installation and trial must be carried out by qualified personnel only, in order to guarantee a proper and safe performance of the automatic gate.
- Any responsibility for damages due to incorrect installation caused by non-qualification or negligence is hereby declined.
- Before setting up the automation unit, check that the gate functions perfectly, is well attached to its hinges and well lubricated. The unit must also conform to the standards in force in the Country in which the installation is to be carried out.

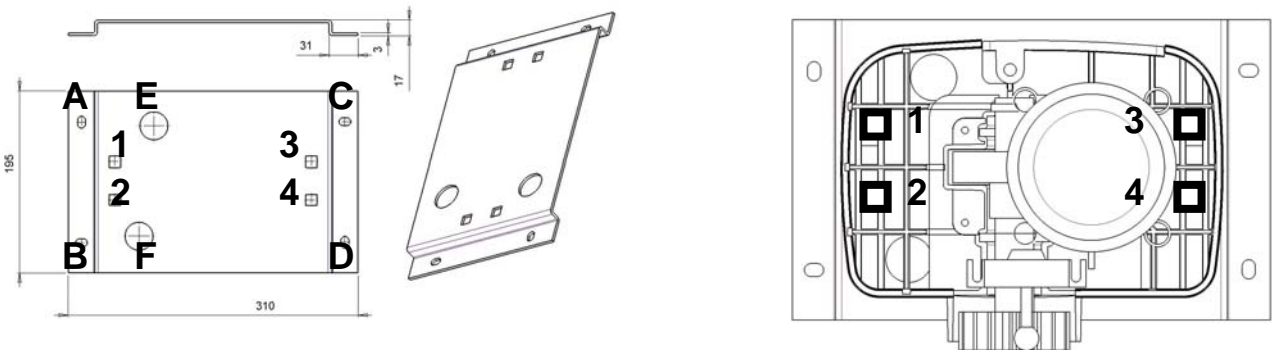
## INSTALLATION PROCEDURE

Unscrew the fastening screws holding the lid.



### FASTENING THE FLOOR PLATE

Prepare a cement base raised at least 40-50cm from ground level. Make allowance for the electrical wires which must correspond to the access point of the geared motor E-F. The floor plate can be fixed to the ground by using either four chemical anchors or with clamping brackets according to the holes A-B-C-D as shown in the image.



### INSTALLATION WITHOUT FLOOR PLATE

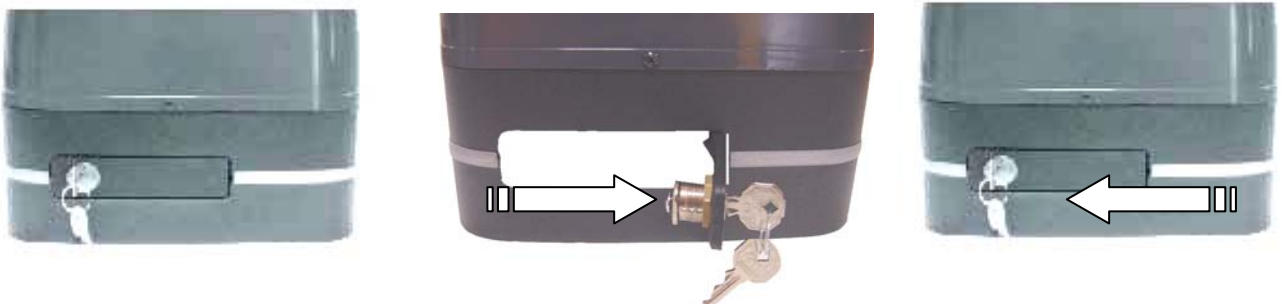
If the floor plate is not used for the installation, fix the geared motor to the ground through access holes 1-2-3-4.

## RELEASE SYSTEM

In case of no power feed, the motor can be released by using the release handle:

- 1) Insert the key and turn it in a clockwise direction
- 2) Pull the handle towards the right.

Once the power feed is back, put the handle back in its original position.

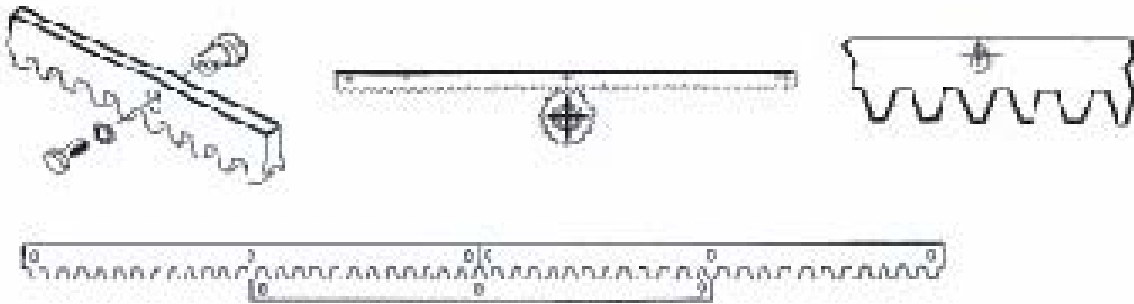


**SETTING UP THE GALVANISED RACK**

Release the geared motor and open the gate completely. Screw the latches onto every part of the rack, making sure to position them on the upper part of the slot. Then position the rack on the pinion of the geared motor, level it and weld the latches to the gate. Check that all parts are perfectly aligned and that the gate runs its course without resistance. It is important that the rack is raised about 1-2mm, in order to avoid that the weight of the gate affects the pinion of the actuator.

**SETTING UP THE NYLON RACK**

Follow the same procedure indicated for the galvanised rack with the difference that it needs to be screwed directly onto the gate.



**SETTING UP THE END-STROKE SWITCH BRACKETS**

Screw the end-stroke sliders directly onto the rack using the A-B bolts, in order that the gate does not hit against its automatic stroke limiters.



**Troubleshooting**

PROBLEM	CAUSE	SOLUTION
When operating the radio remote control or key selector switch, the gate does not open or the motor does not start	230 V power feed is not available	Check the main power switch
	The emergency stop is on	Check the selector switches or STP controls  If not in use, check the jumper on the STP input to the control panel
	Blown fuse	Replace it with one bearing the same voltage.
	Disconnected or faulty power supply cable of the motor(s)	Connect the wire to the correct clamp or replace it
	There is an obstacle in the photocell or it doesn't work	Check the connections and remove any obstacles
The gate does not open when using the radio remote control, but works with the key selector	The radio remote control has not been stored or the battery is dead	Register the radio remote control on the receiver or replace the battery.
The signal light is dim and works slowly	The 2 A fuse is blown	Replace it with one of the same voltage
The gate starts but then stops	The motor has insufficient force	Change the voltage with the FORCE trimmer on the control panel
The gate does not move although the motor starts	There is an obstacle in front of the doors, the hinges are blocked or the clamping bracket(s) of the motor have become loose.	Remove the obstacle from the doors, adjust the hinges, replace or lubricate them.  Fasten the clamping bracket of the motor
	The electric lock does not work (when included)	Check if it is connected or lubricate it
A door panel opens and the other closes	The connection is faulty	Change over the polarity of the motor cables

**N:B. - If the problem persists, contact the retailer or the nearest technical assistance centre.**

## SAFETY WARNINGS

These warnings are an integrating and essential part of the product and must be delivered to the user. Read them carefully as they provide important information concerning installation, use and maintenance of the unit. This manual must be kept and made available to possible new owners. The incorrect installation and improper use of the product can be source of serious danger.

## INSTALLATION INSTRUCTIONS

- The installation must be carried out by authorised personnel in compliance with local, regional, national and European legislation in force.
- Before the installation, check that all components of the product are present.
- Installation, electrical connections and settings must be 'state of the art'.
- The packaging materials (cardboard, plastic, polystyrene) must be disposed of properly and must not be left within the reach of children as they can be hazardous.
- Do not install the product in areas where there is a risk of explosion or areas disturbed by electromagnetic fields. The presence of gas or inflammable vapours constitutes a serious safety hazard.
- Set up a protection device for extra voltage on the power supply network, a disconnecting switch and/or a differential circuit-breaker suitable to the product and complying with the standards in force.
- The manufacturer declines any responsibility whenever components and/or devices that are unsuitable in terms of reliability, safety and functionality of the product are installed.
- Only original spare parts must be used for repairing and replacing parts.
- The installer must provide all necessary information concerning the performance, maintenance and use of each component part as well as of the whole system.

## MAINTENANCE

- In order to guarantee the efficiency of the product, it is important that only authorised technicians carry out the maintenance when it is required by the installer, the manufacturer and current legislation.
- Any installation, maintenance, repair and cleaning must be recorded on specific documents. These documents must be kept by the user and made available to the authorised technicians.

## WARNINGS FOR THE USER

- Read all instructions and documents provided carefully.
- The product is intended only for the use it is designed for. Any other use is to be considered improper and, therefore, hazardous. Furthermore, the information included in the present document and in the attached documents can be subject to changes without prior notice. It is supplied as indications for the use of the product. The manufacturer declines any responsibility.
- Keep the products, devices, documents and all else out of the reach of children.
- In case of maintenance, cleaning, breakdown or malfunctioning of the product, disconnect the power supply and refrain from attempting any repair. Contact the authorised technicians. The failure to comply with what is stated above can be hazardous.

## WARRANTY DETAILS

The warranty is valid for 24 months starting from the date placed on the product, and is valid only for the first owner. The warranty becomes null and void in case of negligence, incorrect or bad use of the product, use of accessories not conforming to the specifications supplied by the manufacturer, tampering made by the client or third parties, natural causes (lightning, floods, fires, etc.), civil disorder, vandalism, changes in the weather conditions in the area of installation. It does not cover parts which are subject to wear (batteries, etc). The product to repair must be returned, freight-collect cost, to the manufacturer. The manufacturer will return, carriage forward, the repaired product. Otherwise the goods will be rejected on receipt or quarantined at dispatch. The purchase of the product implies full acceptance of all the conditions in the warranty.