

Maxi Domo

Swing Gate Operator

User Manual

## General Information

The electromechanical linear operator is intended for automation of a double-leaf swinging garage gate.

The body of the operator consists of 2 aluminum parts, in which a motor, a reducer and a lead screw are positioned.

The operator is equipped with built-in electrical end of run switches for opening and closing.

The self-blocking system, consisting of a worm gear and a planetary gearbox blocks gate leaves, if the motor is off. The easy-to-use and safe release system allows to open/close manually the leaf, in case of power cut or any troubles in the control unit.

Operation of the automatic system is controlled from the remote control unit, which is protected with a shockproof and hermetic case.

### 1.1. Range of Use 2.2.

Door Width (mts.)	Door Weight (Kg.)
2.00	1000
2.50	800
3.00	600
4.00	500
5.00	400

### 1.2 Specifications

Power	220 VCA 50 Hz	110 VAC 60 Hz
Current Consumption	1.2 A	2 A
Capacity	150 W	150 W

Duty Cycle	50%
Protection Level	IP 64
Gear Ratio	1/36
Rod Seed	1.5 cm/seg
Force	3000 Newton
Operation Temperature	-40 to 55 °C

## 2. Important safety information

Carefully read and follow all safety precaution and warnings before attempting to install and use this operator, incorrect installation can lead to severe injury.

The gate operator should be installed by a qualified technician; otherwise, serious personal injury or property damage may occur.

Before installation, the clutch should be unlocked.

When opening or closing the gate, do not attempt to walk or drive through the gate.

Children should not be allowed to play near to or operate automatic gates.

The automatic gate operator, and the doors itself must be electrically grounded.

Install the gate operator on the inside of the property; DO NOT install it on the outside of the property where the public has access to it.

Be careful when in close proximity to moving parts where hands or fingers or clothes could be trapped.

In the event of power failure, an emergency release key allows you to operate the gate manually.

The operator should be switched off before repairing it or opening its cover.

As this is electric equipment, check with your Electric Authority the standards to install this class of equipment.

After installing the device, paint the floor the security area where the people must stand-out during the door operation.

Attach a warning over the door announcing that this is an automatic device.

Every time you operate the door, keep it in line of sight.

Remove the packing of this product and dispose of it. Do not leave the packing material within reach of children.

Save this manual for possible maintenance during the operational life of the operator.

This product was designed for automation of swinging gates; other uses can cause injury to people.

Company shall not be held responsible in case of injury or other health impairment caused by unintended use of the operator.

Do not install the equipment in premises with quick-inflammables materials or in other dangerous environments, because it can cause explosion or fire.

Mechanical units of the gate shall be constructed and installed in accordance with the standards EN12604 and EN 12605.

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Manufacturer or the resellers are not responsible in case of incorrect installation of the product and if it is damaged during operation.

The installation must be performed in accordance with the standards EN12453 and EN 12445. For countries, which are not EC members, these requirements are to be met.

The automatic system shall be connected to the mains supply through an automatic switch. At that the distance between the contacts shall not be less than 3 mm. It is recommended to use the automat 6A.

The safety devices of the operator protect against hazard of pinch through the gate while opening.

Company is not responsible for unstable work of the automatic system, if the safety devices and accessories, which were produced by other manufacturers and without agreement with company, are used.

Use the accessories of the company, as the accessories of other manufactures can cause failure of the system.

For maintenance, use only company original parts.

Do not make modification in the components of the automatic system.

Be sure, that the installer has instructed you how to release the gate in case of emergency and on the proper operation and maintenance of the automatic system.

Do not let any people to be in the operation area of the automatic system when it is working.

Never let children play and be in the operation area of the automatic system, under the gate and near the gate, when the gate is moving and the operator is running.

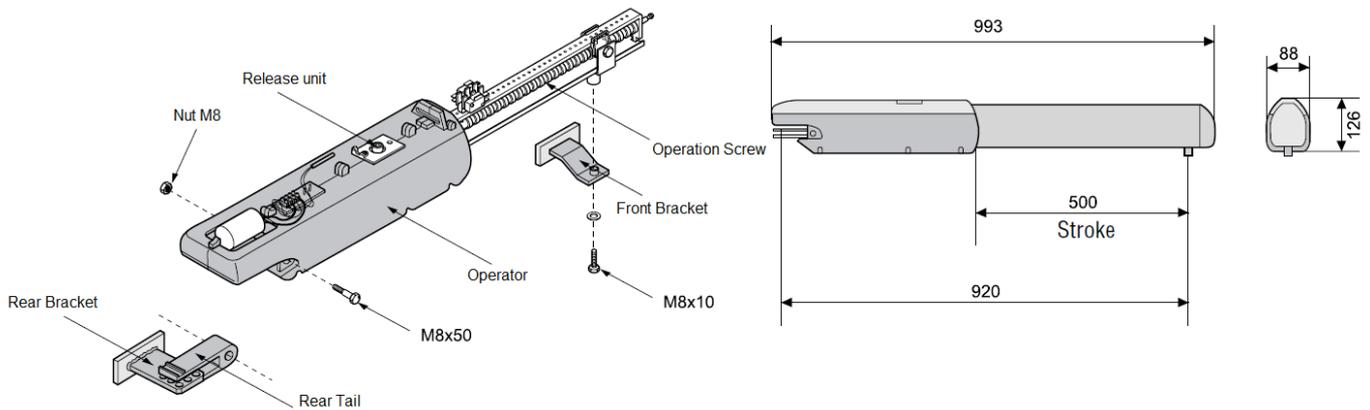
Passage is allowed only after the gate has been stopped and the operator is switched off.

Check good working condition of the safety sensors monthly.

Maintenance: make diagnostics of the system SWING at least once a half-year, pay special attention to the gate travel smoothness in the released state and to good working condition of the release.

It is forbidden to perform operations, which are not permitted by this manual.

### 3. Operator Components.



Before installation make sure, that the gate move free and it is possible to fasten reliably the operator on the pole and the leaf.

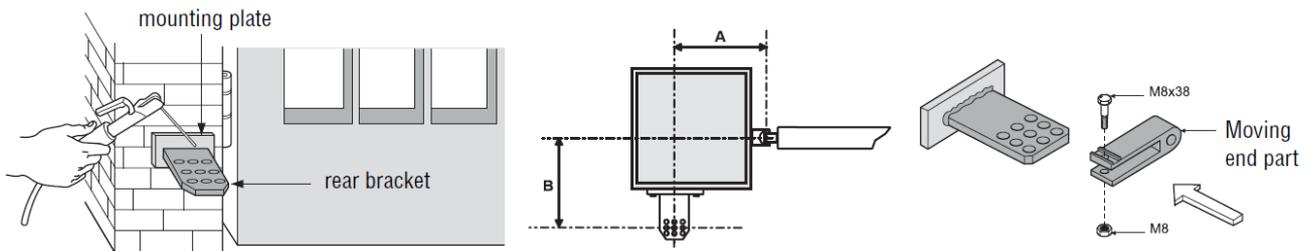
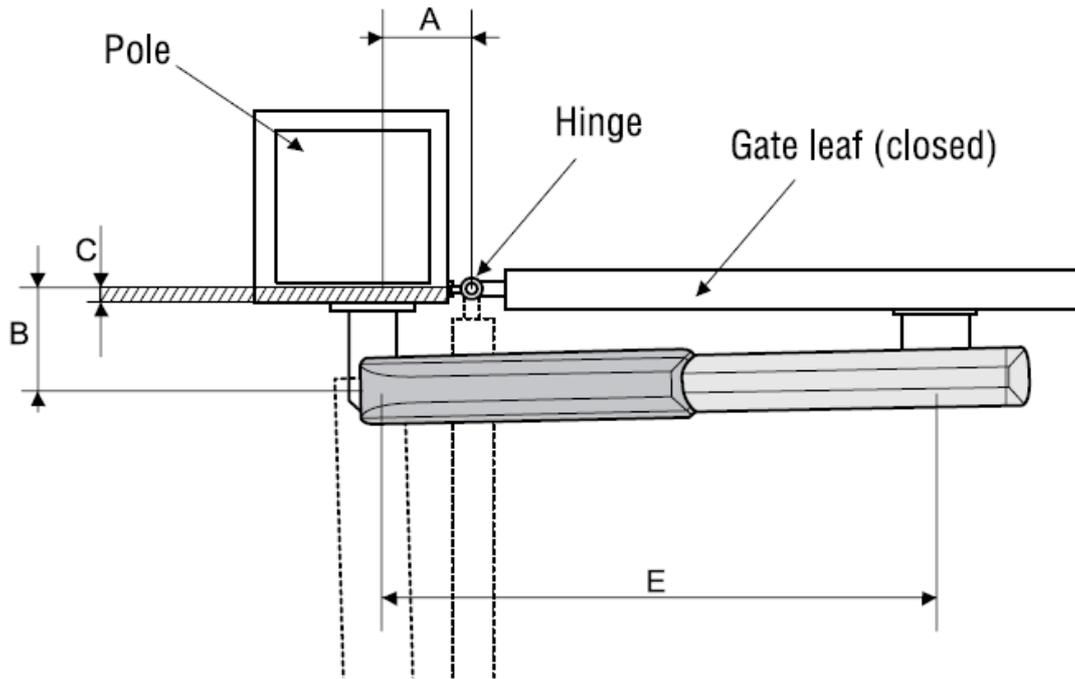
### 4. Installation

#### Inward Gate Opening

Attention!: Make certain, that the dimension C does not exceeds the value indicated in the table. Otherwise it is necessary to improve the pole according to the indicated dimension value.

Install the operator as shown below:

Opening Angle Degrees	A (mm)	B (mm)	C (mm)	D (mm)
90	200	200	120	920
120	200	140	70	920

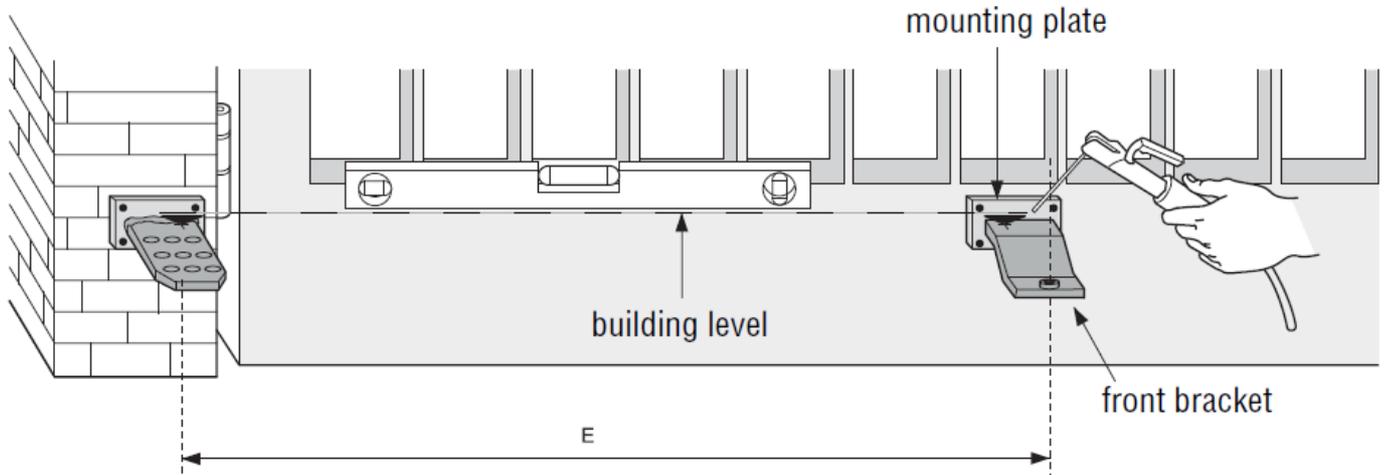


Fasten the rear bracket with the appropriate fastening plate on the pole so, as shown in the picture, observing dimensions A and B, namely, the distance between the axis of the bracket's central hole and of the gate hinge shank. The rear bracket has several holes, which makes installation of the operator easier and allow changing opening angle of the gate. Depending on the position of the gate hinges you can lengthen or shorten the rear bracket.



Attention! Increase of the dimension B results in decrease of the gate opening angle, angle speed of the leaf and in increase of the operator's linear force. Increase of the dimension B results in increase of the gate opening angle, angle speed of the leaf and the operator's linear force.

Install the steel end piece and lubricate the whole installation using neutral grease.



### Inward Gate opening:

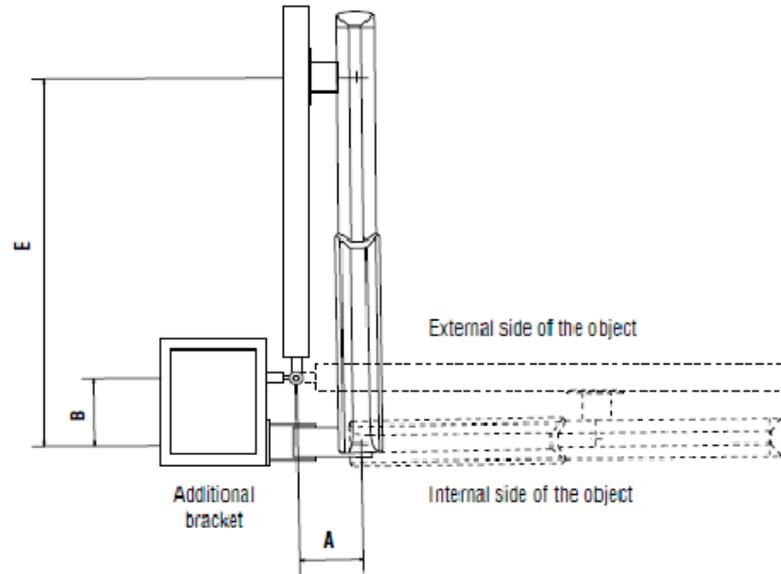


Attention! Make certain, that the dimension C does not exceeds the value indicated in the table. Otherwise it is necessary to improve the pole according to the indicated dimension value.

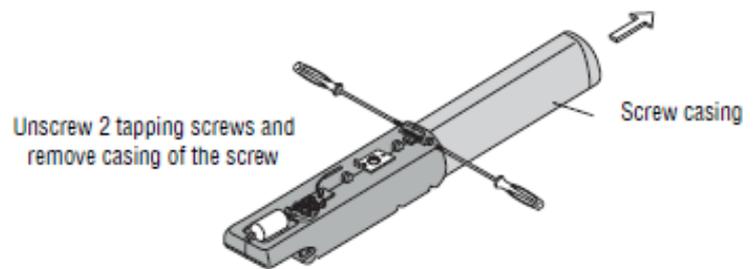
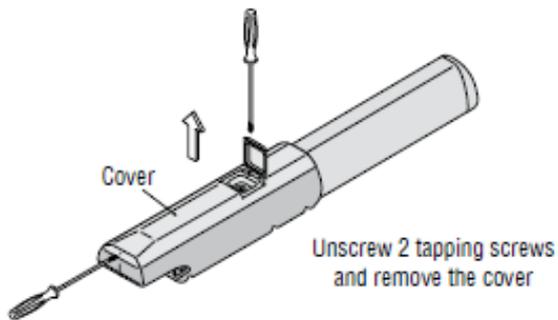
Install the operator as shown below:

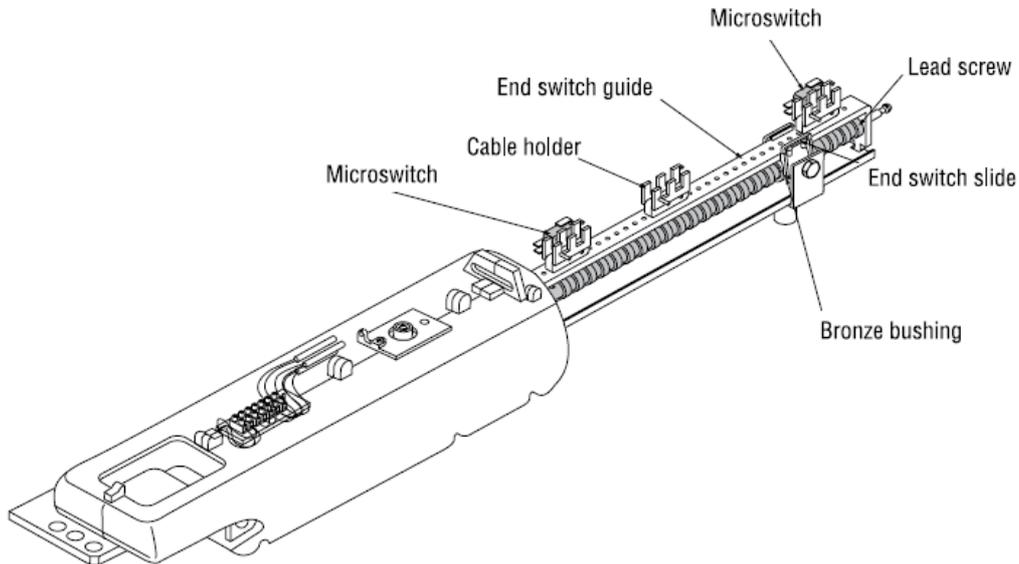
- 1) Measure dimensions A and B
- 2) Install and fasten the rear bracket on the pole using an additional bracket.
- 3) Open the gate, measure distance E and fasten the front bracket on the gate leaf.

Opening Angle Degrees	A (mm)	B (mm)	E (mm)
90	130	130	920



## 5. End of Run Limits Adjustment





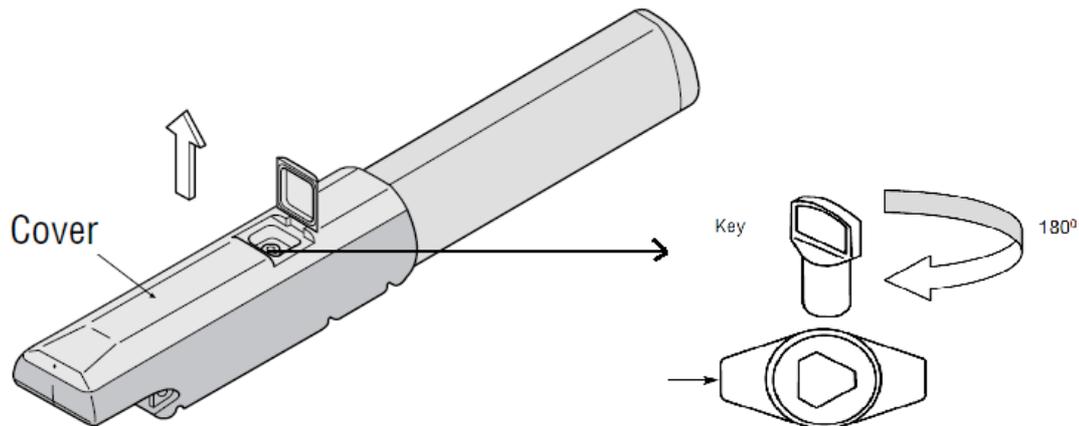
Release the operator and put the gate leaf in fully open position.  
 Unscrew fastening of the opening end switch.  
 Move the end switch along the guide, until the micro switch contacts with the slide.  
 Fix the micro switch.



These Limit Switches cut the power line directly, they are no signal low power cables, and they are power cables, so you don't have to connect to any control input of any controller board.

## 6. Releasing Operation.

1. Lift the cover.
2. Insert the key and turn it by 180 degrees.
3. Open or close the gate by hand.
4. To link the operator, turn the key by 180 degrees again.



Attention! Before releasing or re-linking the operator, disconnect power supply

## 7. Maintenance:

- Make sure, that the gate is operable and move evenly.
- Check good working condition of the system units and safety devices at least once every 6 month.
- Maintenance of the operator must be carried out by qualified specialists.
- Keep the operator clean.
- The manufacturing plant reserves the right to make changes in the products described in this manual without notice and without obligation to notify any persons of any such revisions or changes.
- The manual describes installation and adjustment operations of the operator SWING-500\SWING-300.
- Following the recommendations on operation and maintenance of the operator as well as recommendations on installation of the operator and the gate, described in this manual, will ensure long life of the equipment and will reduce the risk of accidents during installation and operation of the gate.
- Do observe safety rules during installation, operation and maintenance.
- The manufacturer does not handle installation, maintenance and operation of gates and gate automation and is not responsible for safety of installation, operation and maintenance of gates and gate automation.
- The content of this manual shall not be basis for any claim.