



RELIABLE AND STURDY







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Key



This symbol indicates instructions or notes regarding safety, to which special attention must be paid.



1. General safety precautions



Failure to respect the information given in this manual may cause personal injury or damage to the device. Keep these instructions for future reference

This installation manual is intended for qualified personnel only. Installation, electrical connections and adjustments must be performed in accordance with Good Working Methods and in compliance with the present standards. Read the instructions carefully before installing the product.

Incorrect installation could be dangerous.

Before installing the product, make sure it is in perfect condition.

Before installing the motorisation device, make all the necessary structural modifications to create safety clearance and to guard or isolate all the crushing, shearing, trapping and general hazardous areas.

Make sure the existing structure is up to standard in terms of strength and stability. The motorisation device manufacturer is not responsible for failure to observe Good Working Methods when building the frames to be motorised, or for any deformations during use.

The safety devices (photocells, safety edges, emergency stops, etc.) must be installed taking into account the applicable laws and directives, Good Working Methods, installation premises, system operating logic and the forces developed by the motorized gate. The safety devices must protect the crushing, shearing, trapping and general hazardous areas of the motorised door.

Display the signs required by law to identify hazardous areas.

Each installation must bear a visible indication of the data identifying the motorized gate.

When requested, connect the motorized gate to an effective earthing system that complies with current safety standards.

During installation, maintenance and repair operations, cut off the power supply before opening the cover to access the electrical parts.

The automation protection casing must be removed by qualified personnel only. The manufacturer of the motorisation device declines all responsibility if component parts not compatible with safe and correct operation are fitted.

Only use original spare parts when repairing or replacing products.

The installer must supply all information on the automatic, manual and emergency operation of the motorised gate, and must provide the user with the operating instructions.



2. Declaration of incorporation of partly completed machinery

(Directive 42/2006/EC, Annex II-B)

The manufacturer Entrematic Group AB, with headquarters in Lodjursgatan 10, SE44 261-Landskrona, Sweden, declares that the rinosec w186 automation for swing gates:

- is designed to be installed on a manual gate to form a machine pursuant to Directive 42/2006/
 EC. The manufacturer of the motorised gate must declare conformity with Directive 42/2006/
 EC (annex II-A) prior to initial machine start-up;
- complies with the applicable essential safety requirements indicated in Annex I, Chapter 1 of the Directive 42/2006/EC;
- complies with the Electromagnetic Compatibility Directive 30/2014/EU;
- complies with the RED Directive 53/2014/EU;
- the technical documentation complies with Annex VII-B of the Directive 42/2006/EC;

2.1 Machinery Directive

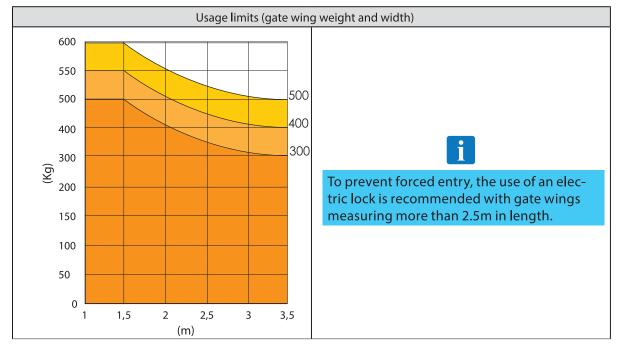
Pursuant to the Machinery Directive (42/2006/EC), the installer who motorises a door or gate has the same obligations as the manufacturer of machinery and as such must:

- prepare the technical data sheet which must contain the documents indicated in Annex V of the Machinery Directive;
- (the technical data sheet must be kept and placed at the disposal of competent national authorities for at least ten years from the date of manufacture of the motorised door or gate);
- draw up the EC Declaration of Conformity in accordance with Annex II-A of the Machinery Directive and deliver it to the customer;
- affix the EC marking on the motorised door or gate, in accordance with point 1.7.3 of Annex I of the Machinery Directive.

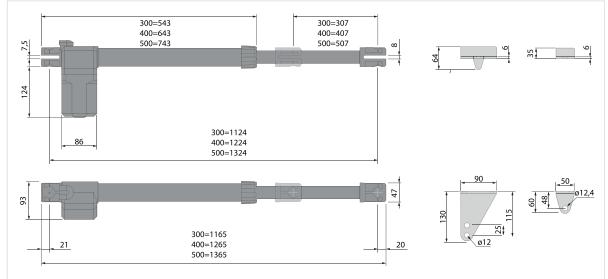


3. Technical specifications

Model	- W186 - 300	W186 - 400	W186 - 500	
Power supply	230V~ / 50Hz			
Max absorption	1,5A			
Power absorbed	330W			
Capacitor	8µF			
Max thrust	4000N			
Maximum stroke	300mm	400mm	500mm	
Opening time	18S / °90	22S / °90	27S / °90	
Normal weight	300kg	400kg	500kg	
Lifespan	100000 cycles			
Operating temperature	°55+C /°20-C			
Degree of protection	IP44			
Weight (kg)	5,80	6.00	6.20	



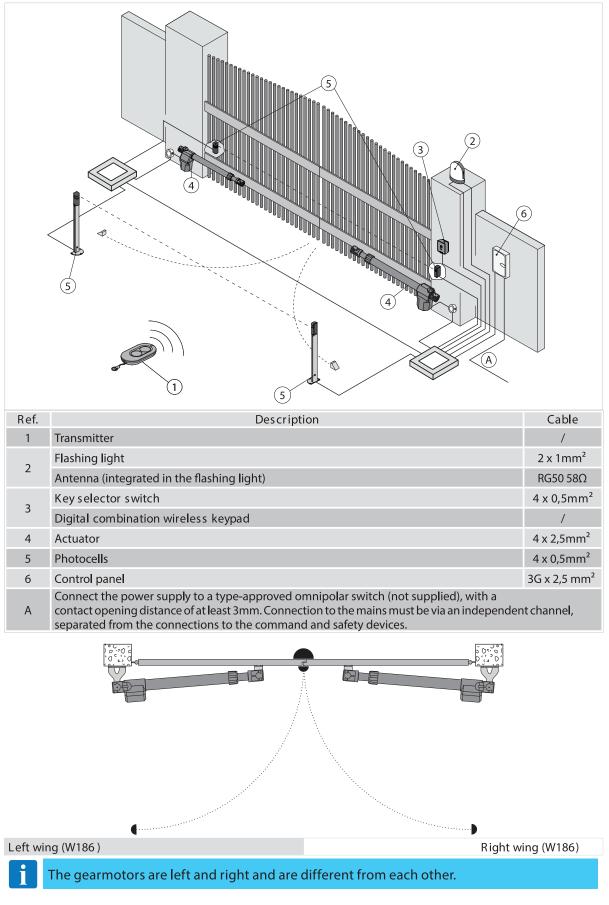
3.1 Gearmotor dimensions



5F



4. Standard installation





5. Installation

The declared operating and performance features can only be guaranteed with the use of Rinosec accessories and safety devices.

5.1 Preliminary checks

Make sure the gate structure is sturdy and the hinges are lubricated and smooth.

Install a stop in the open and closed positions (the mechanical structural elements must be compliant with the requirements of the standard EN12604).

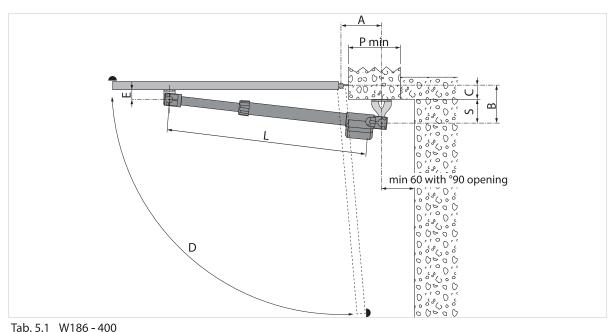
Check that the installation measurements are correct in relation to the distance between the hinge of the wing and the corner of the pillar [C] and the desired opening angle [D].



The automation fastening point varies according to the space available and the gate to be automated. The installer must therefore choose the best solution to ensure that the system works correctly in each individual situation.

The installation measurements indicated in the table allow you to choose the values of [A] and [B] on the basis of the required opening angle and in relation to the on-site spaces and overall dimensions. Increasing measurement [A], you reduce the opening approach speed. Reducing measurement [B], you increase the gate opening angle.

Measurements [A] and [B] must, however, be compatible with the effective piston stroke



Tab. 5.1 W100-400								
А	В	С	S	D	E	L	P min	
150	130	15	115	110	46 1120	1120	170	
160	120	30	90	105°			180	
160	160	45	115	100°			180	
100	165	50	115	90°			120	
130	160	70	90	95°			150	
120	200	85	115	95°			140	
150	200	85	115	90°			170	
130	190	100	90	95°			150	
130	220	105	115	90°			150	
Tab. 5.2							Unless otherwise	
A	В	С	S			specified, all measurements are expressed in		
160	160	45	115	W186-300				
210	210	95	115	W186 -400				

115

W186 -500



mm.

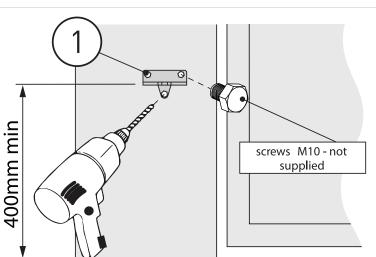
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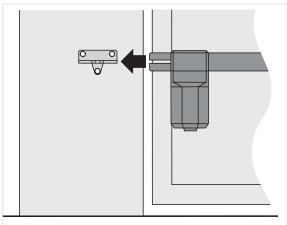
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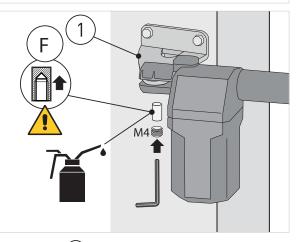
5.2 Fastening the brackets

- Fasten the tail bracket (1), ensuring that the measurements [A] and [B] are correct for the desired opening angle [D] (see tab. 5.1).



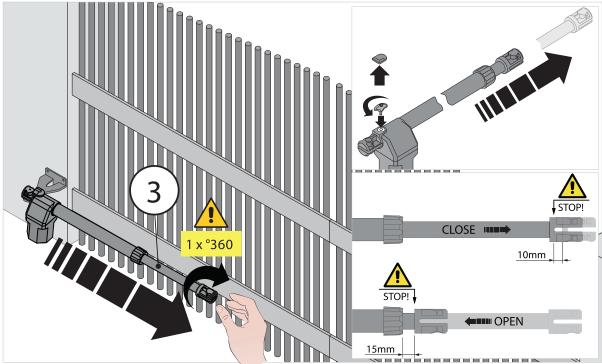
- Fasten the piston to the tail bracket (1) with the pin (F) included.



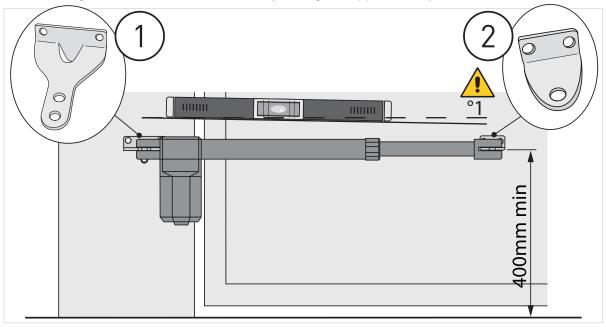


8E

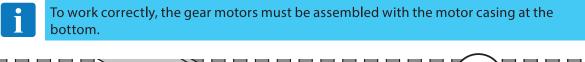
- With the gate closed, extend the actuator tube completely (3), unscrewing it to reach its maximum length, and then re-tighten by one complete turn as shown in the figure.

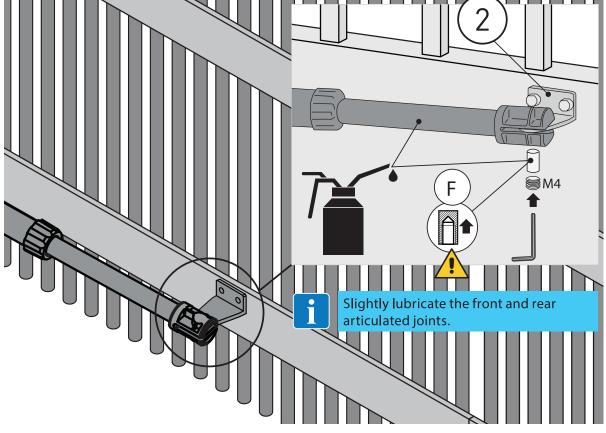


- Install the gear motor so that it is inclined by an angle of approximately °1.



Fit the head bracket 2 and fasten the piston to the head bracket with the pin F included.
Unlock the gear motor and check, by moving the gate manually, that the gate moves freely

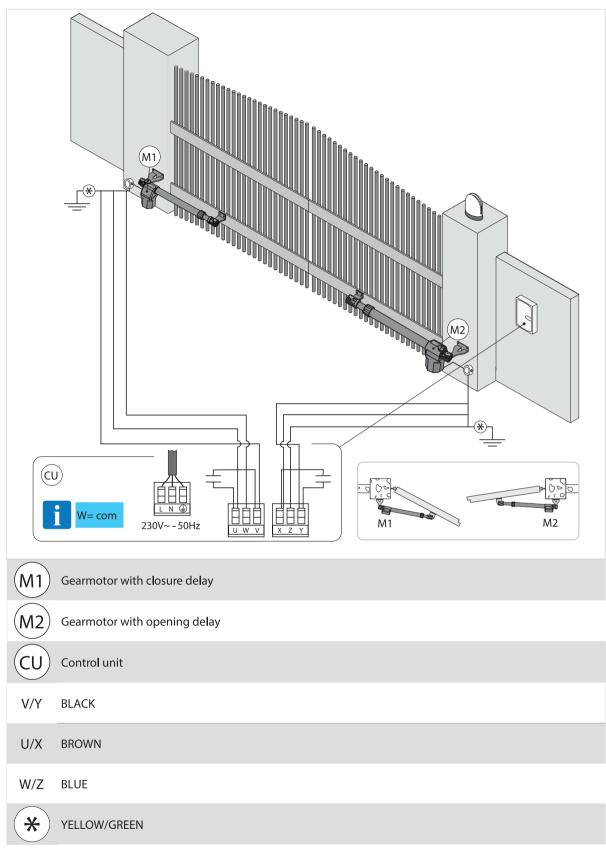




throughout its entire stroke without impediment.

5.3 Electrical connections

The gear motors W186 may be connected to the vaneo and unimog electronic control panels. The electrical connections and the procedure for setting up Rinosec W186 gear motors are illustrated in the figure.



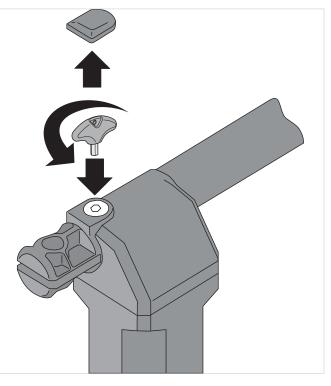


6. Release instructions

In the event of a fault or a power failure, open the window, insert the key in the relative lock and turn it counterclockwise (as indicated by the arrow). Release the electric lock (if present). Manually open the gate. To lock the gate again, close the hatch, turn the key anticlockwise and remove the key.



WARNING : the gate lock and release operations must be performed with the motor idle. Do not enter within the operating range of the gate.



7. Routine maintenance plan

Carry out the following operations and checks every 6 months or 36.000 cycles.

Disconnect the 230V~ power supply:

- Clean and lubricate the gate rotation pins, hinges and drive screw with neutral grease.
- Check the resistance of the fixing points.
- Check the electrical connections are in good condition.

Reconnect the 230V~ power supply:

- Check the power adjustment.
- Check all the commands and safety functions (photocells) are operating correctly.
- Check the release system is working correctly.

NOTE : for spare parts, refer to the spares price list.

8. Troubleshooting

Problem	Possible cause	Operation
	No power supply.	Make sure the mains supply is active.
	Gearmotor released.	See the release instructions.
	Photocells occupied.	Check the photocells are clean and op- erating correctly.
The gate doesn't open or close.	Permanent STOP command.	Check the STOP command or the con- trol panel.
	Faulty selector.	Check the selector or control panel.
	Faulty remote control.	Check the condition of the batteries.
	Electric lock not working.	Check the lock is positioned and work- ing correctly.
ll cancello apre ma non chiude.	Photocells occupied.	Check the photocells are clean and op- erating correctly.

9. Disposal

The packaging components (cardboard, plastic, etc.) must be separated out for recycling. Refer to the local disposal regulations before proceeding.

The packaging materials must not be discarded in the environment or left within reach of children, as they are a potential source of danger.

To dispose of electrical and electronic equipment, batteries and accumulators correctly, take the product to the differentiated disposal and recycling centres, respecting the regulations in force.

