

SE-800

EXTERNAL AUTOMATIC OPENING SYSTEM FOR WING GATES

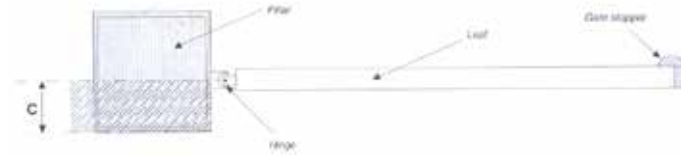
Installation Instructions and User Guide



SE-800

Opening System for Wing Gates

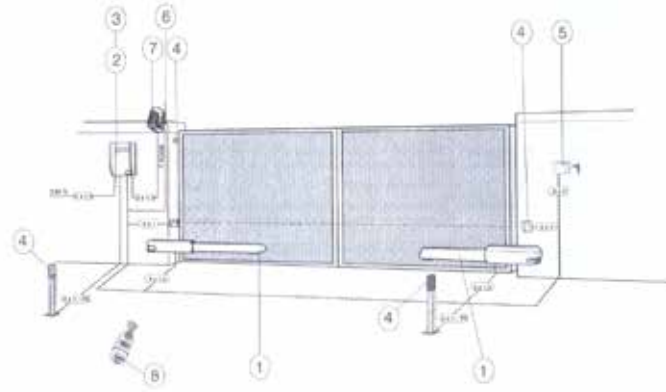
ATTENTION



Before beginning installation of the automation system, check the following:

1. The structure of the gate must be sufficiently strong; the hinges must function efficiently and there must be no friction between the moving parts and fixed parts;
2. Measurement C must not be greater than the value shown in Tab. 2. If this is the case, it is necessary to modify the pillar so that the measurement corresponds;
3. The electrical wiring path according to the position of the control and safety instruments;
4. Presence of a mechanical gate stop (securely anchored to the ground) in the closed position in order to prevent the gate and the reduction gear from moving beyond the correct close position.
5. Keep additional accessories away from children. Do NOT allow children to play with pushbutton or remote controls. A gate can cause serious injuries as it closes.

Standard Installation



Wiring for microswitches: $5 \times 1\text{m m}^2$

Power wires to motor:

$2 \times 1.5\text{m m}^2$ up to 20m

$2 \times 2.5\text{m m}^2$ up to 30m

Notes:

1. Irreversible gear motor
2. control panel
3. Radio receiver
4. Safety photocells
5. Key-operated selector switch
6. Antenna
7. Flashing light indicating gate movement
8. Radio transmitter

I . Technical characteristics

1. Power supply: AC 230V
2. Frequency: 50Hz
3. Nominal current: 1.2A
4. Power: 150W
5. Duty cycle: 50%
6. Reduction ratio: 1/36
7. Push: **400 ÷ 3000N
8. Travel time: 17seconds
9. Capacitor: 10 μ F
10. Protection class: IP54
11. Weight: 11.5Kg

Notes:

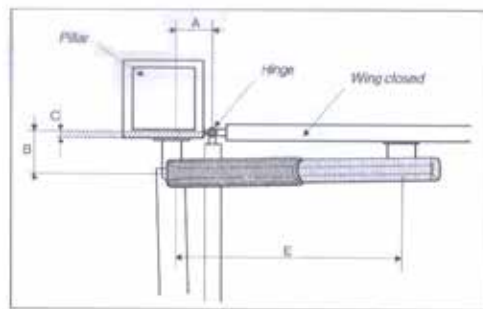
- 1) All the data refers to nominal power supply and standard conditions of aperture;
- 2) **Can be adjusted by using control panels.

II . Overall dimensions and use limits



WIDTH OF WING	WEIGHT OF WING
<u>m</u>	<u>Kg</u>
2.00	1000
2.50	800
3.00	600
4.00	500
5.00	400

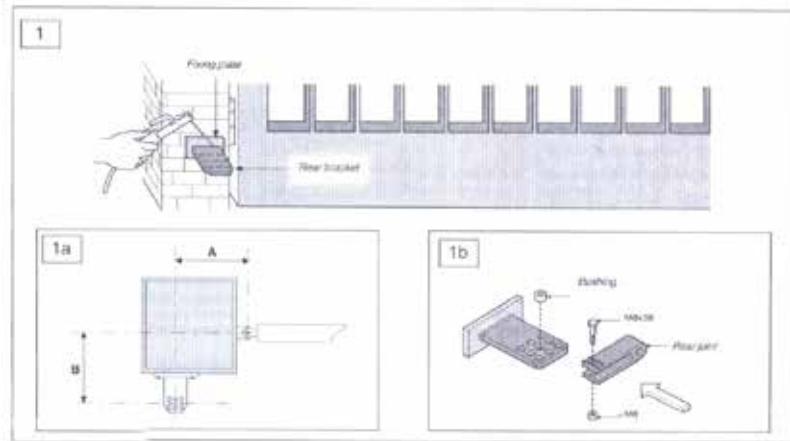
Tab.1



III. Installation

	A	B	C _{max}	E
OPENING	mm	mm	mm	mm
90°	200	200	120	920
130°	200	140	70	920

Tab.2



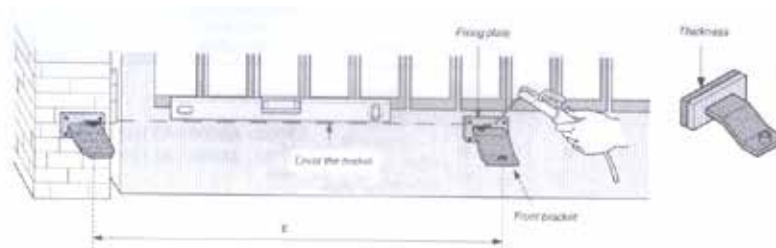
Attach the fixing plate and the rear bracket (Fig.1)

1 to the pillar observing measurement A and B shown in Tab. 2, between the hinge pin and the central hole in the bracket. The rear bracket is equipped with additional holes to change the opening angle of the gate.

Notes:

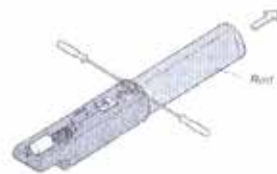
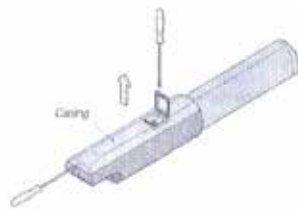
If measurement B is increased, the opening angle is reduced. This reduces the peripheral speed and increases the thrust exerted by the motor on the gate. If measurement A is increased, the angle of aperture is increased.

Therefore, this increases the peripheral speed and reduces the thrust exerted by the motor on the gate.

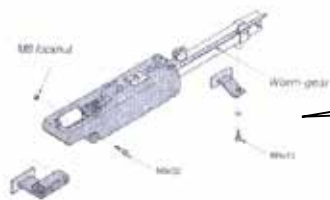


With the gate closed, attach the fixing plate with the front bracket to the gate

wing. The anchor plate must be horizontally aligned with the rear bracket and measurement E must be observed.



Remove the two screws which hold the rod in the position and remove the rod.

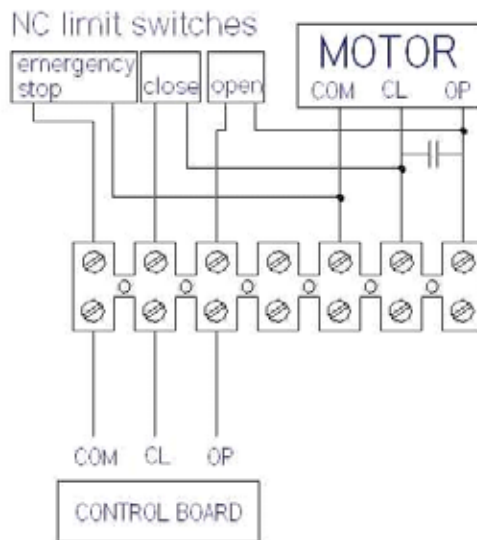
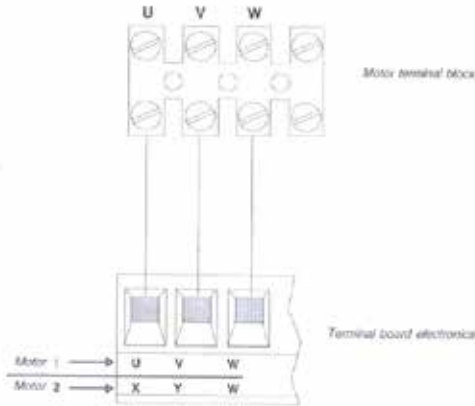


Install the gear worm on the two

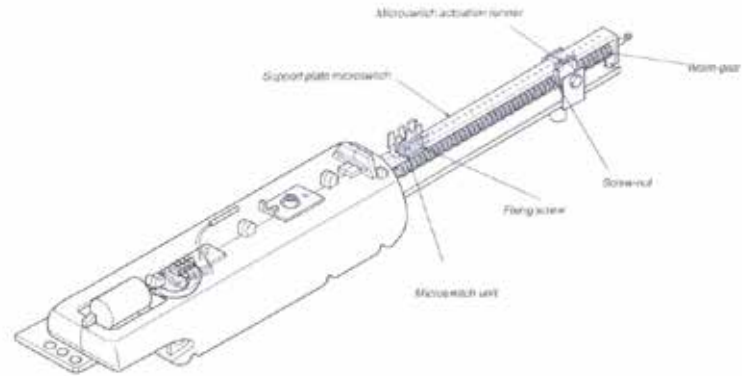
Notes:

Use neutral grease to lubricate the worm gear and washer at the moment of installation.

IV. Connection to the electronic board

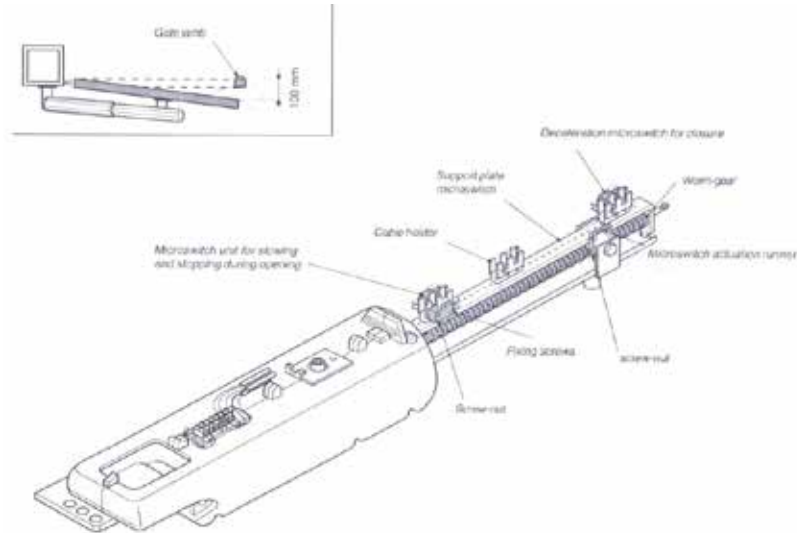


V . Adjusting the stop microswitch for the aperture movement



1. Release the gear motor and move the door to the maximum desired open position.
2. Loosen the fixing screws of the microswitch unit. Slide the microswitch unit along the microswitch-support rod until it is inserted by contact on the microswitch unit actuation runner.
3. Fix the microswitch by tightening the respective screws.

VI . Adjusting the deceleration microswitches for aperture and closure



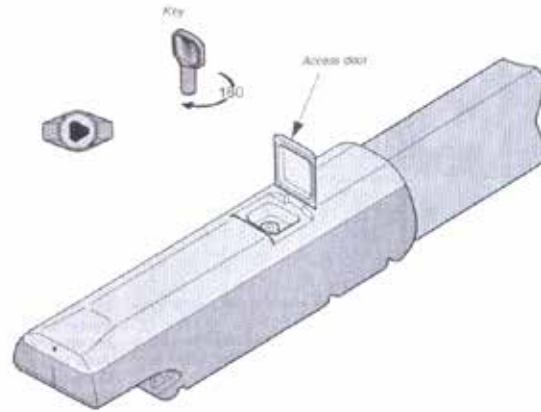
1. During opening

Release the gear motor and move the wing to the maximum desired open position, unscrew the fixing screws of the deceleration microswitches unit and the unit that controls the stop during opening. Slide the microswitches unit along the microswitch-support rod until it is inserted by contact on the microswitch unit actuation runner. Fix the microswitches unit by tightening the respective screws.

2. During closure

Move the wing to no closer than 100mm from the end of stop during closure (detail B). Unscrew the fixing screws of the group deceleration microswitch during closure. Slide the microswitch-support rod until it is inserted by contact on the microswitch unit actuation runner. Fix the microswitch unit by tightening the respective screws.

VII. Personalized key release



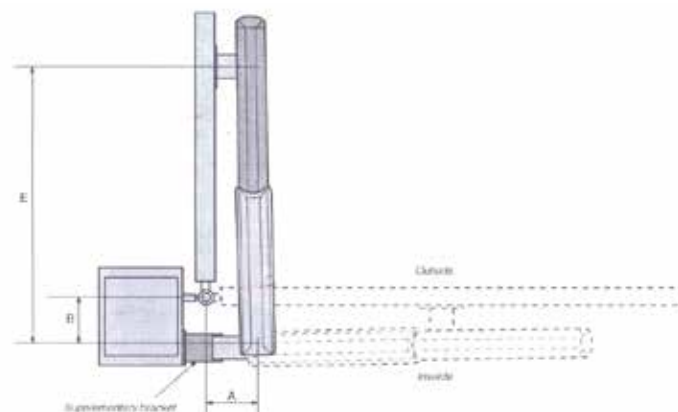
Releasing the unit

Please perform this step with the motor stopped.

1. Raise the access door;
2. Insert and turn the key. The gate will be released immediately;
3. Push or pull the gate manually.

RE-LOCK the gate, simply insert and turn the key.

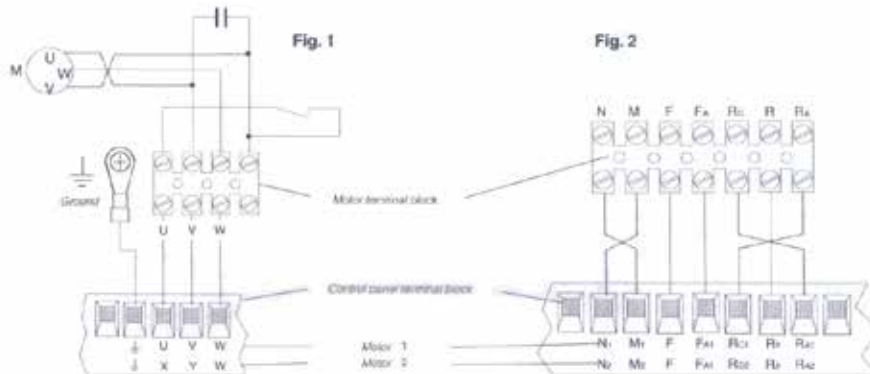
VIII. Application for outside aperture



A	200mm
B	200mm
E	920mm

Tab.3

1. Measure the length of “A” and “B” (see Tab.3).
2. Attach the rear bracket together with a supplementary bracket and fasten both to the column.
3. Open the gate (maximum 90°)and measure “E” (see Tab.3), then fasten the front bracket to the gate.
4. Connect the wiring as shown in Fig.1 and 2.
5. Reposition and adjust the opening microswitch.



IX. Periodic maintenance

1. Lubricate the worm gear screw and the rotation pins;
2. Check the clamps screws;
3. Check the connection cable's soundness.



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