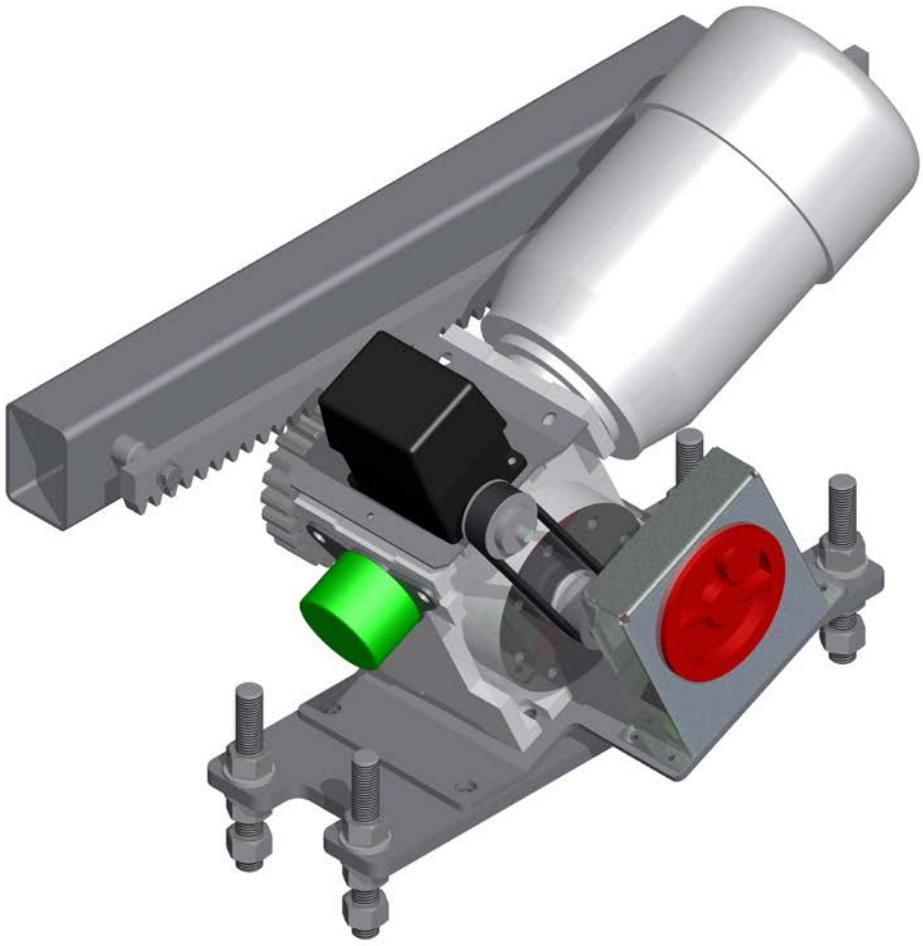


Users manual
Operator FAAC C850

Users manual

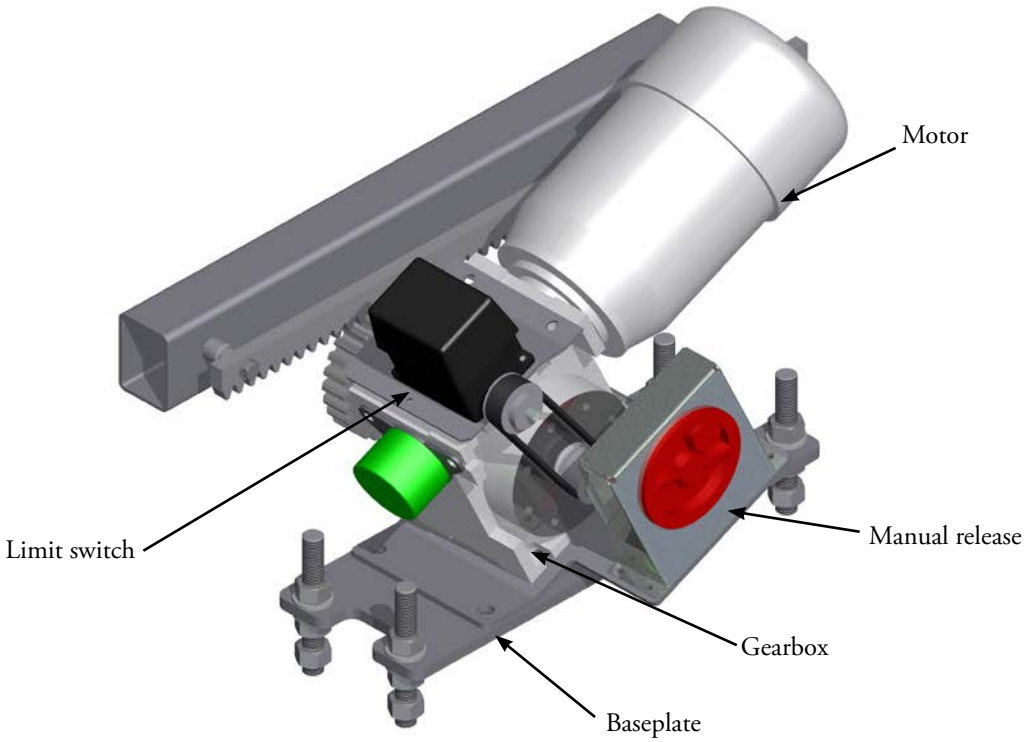
Revision: 2016-04-18

FAAC Nordic AB
BOX 125, SE-284 22 PERSTORP SWEDEN TEL. +46 435 77 95 00 FAX +46 435 77 95 29
www.faac.se

General

These instruction apply to the following models: C850
The C850 is an electromechanical operator designed for moving sliding gates.
The non-reversing system is guaranteed by an electric brake that prevents manual movement of the sliding leaf when the motor is stopped, and therefore does not require an electric lock.
A handy manual release makes it possible to manoeuvre the gate in case of black-out or operator inefficiency.

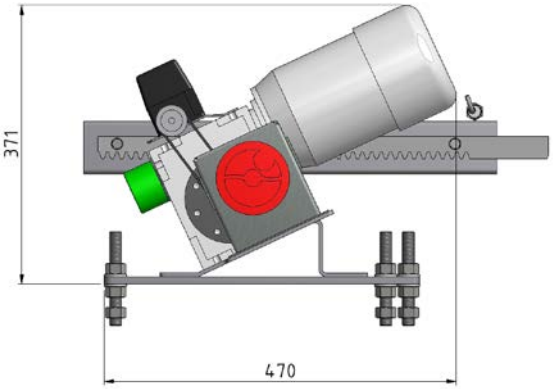
Description and technical specifications

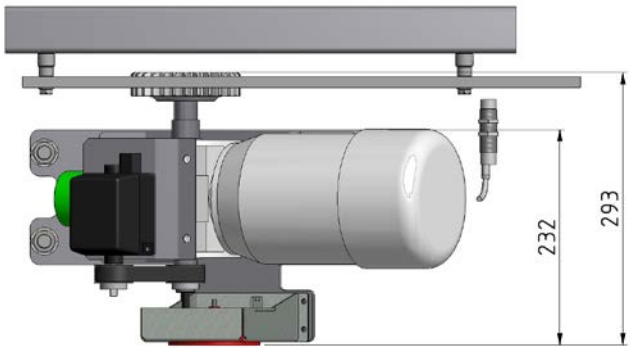


Power Supply (+6% / -10%)	230 V~ 50Hz	**Limit switch type**	Mechanical
Max absorbed power (W)	1800	**Motor control**	EP104
Thrust on pinion (N)	1800	**Usage temperature (C)**	-20 to +55
Max torque (Nm)	110	**Protection class**	IP X4
Pinion type	Z28 module 4	**Frequency of use**	Industrial
Recommended max gate length (m)	20	**R.O.T**	CD contimuous duty
Max leaf weight (kg)	1800		

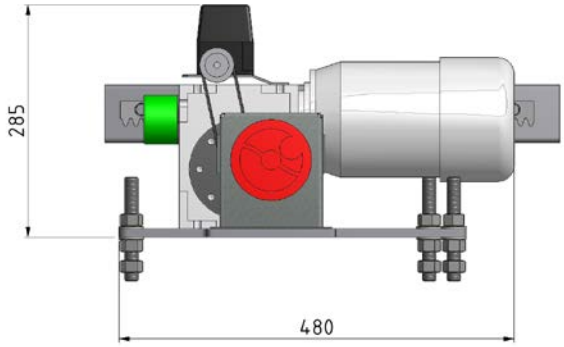
Dimensions

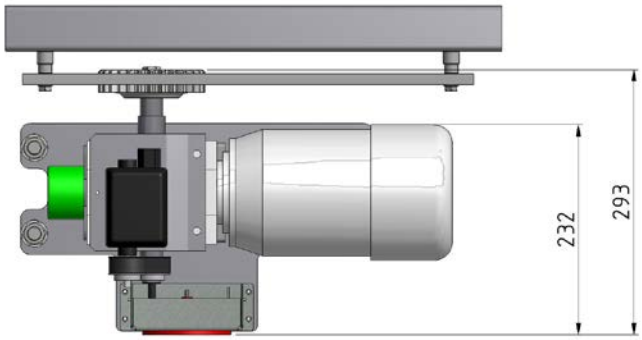
Angled





Non-Angled





Installing the automated system

Preliminary checks

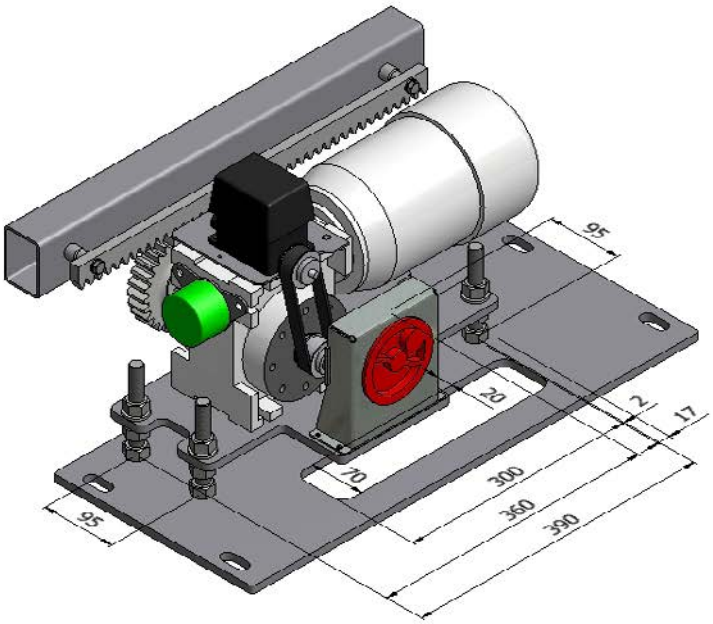
For the safety and correct operation of the automated system, ensure that the following conditions are met:

- The gate structure must be designed to be automated. In particular, the diameter of the wheels must conform to the weight of the gate being automated, there must be a guide on top and mechanical limit switches sized to suit the weight and speed of the movable leaf, to avoid derailment of the gate;
- **Initially, leave at least 10 cm of clearance between the movable leaf stopping points (open and close) and the mechanical stops of the gate. The final adjustment is made once the inverter programming precedure is completed.**
  Minimum distance 3 cm.
- The gate sliding rail must be linear and horizontal.
- Manual movement of the gate must be smooth along the entire stroke.
- The characteristics of the ground must guarantee sufficient solidity of the foundation plinth.
- No tubes or electrical cables should be present in the plinth digging area.
- If the gearmotor is exposed to vehicle transite, provide for adequate protection against accidental impact, when possible.
- Ensure that there is an efficient earth plate for connecting the gearmotor.

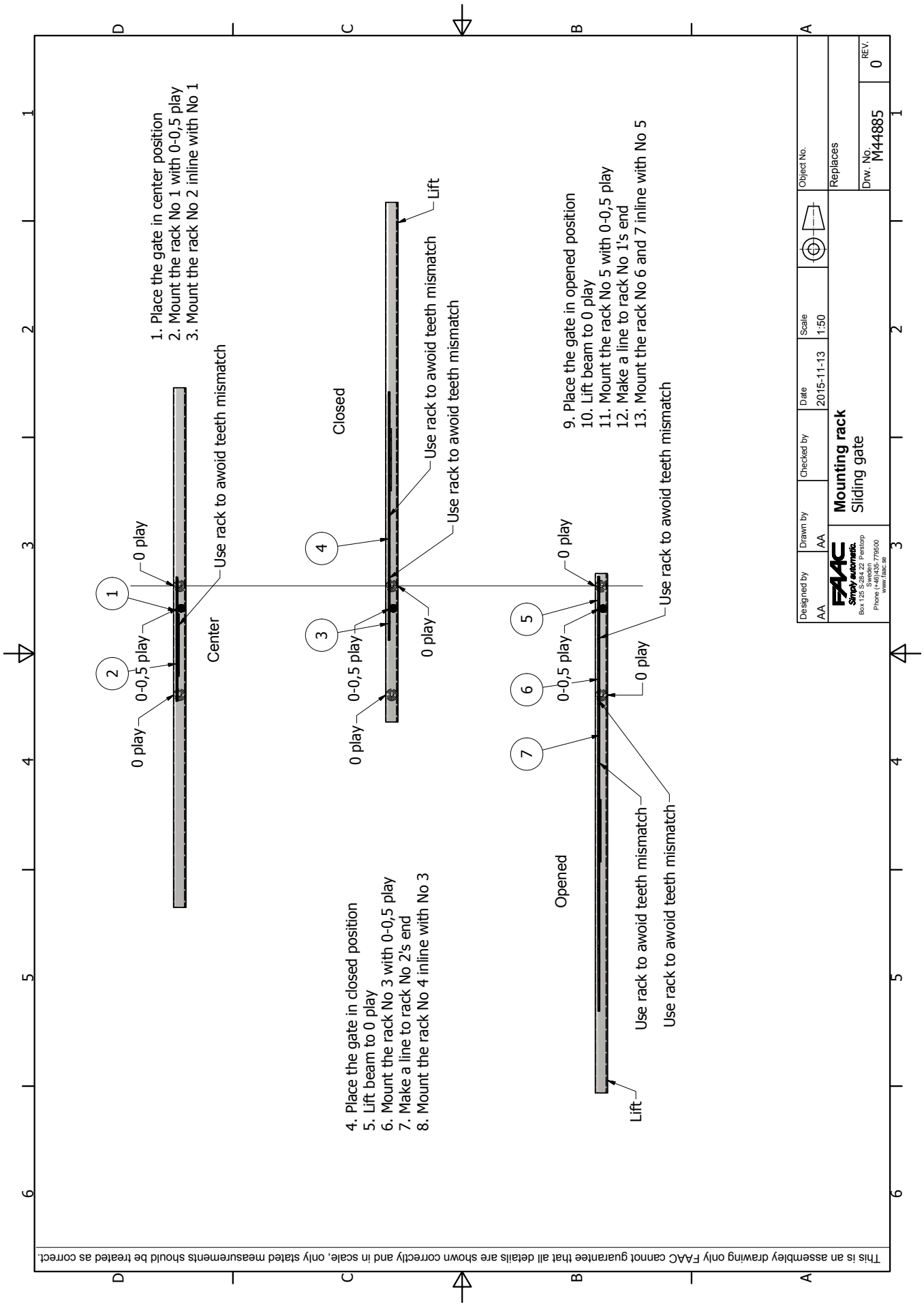
Should various elements not need the above-mentioned conditions, adjust them so they do.

Placing the operator

Place the operator to make the rack centered on the pinion. Use the nuts and washers to move the operator vertically, please see drawing on next page for measures. Use a level to make sure the operator is perfectly horizontal.



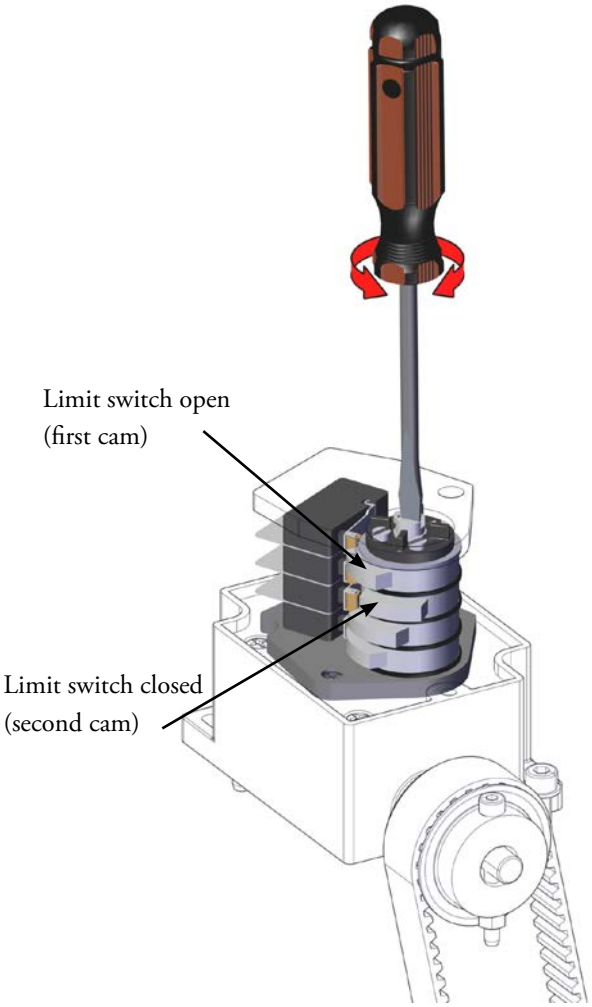
Installing the rack



Adjusting the limit switches

1. Loosen the screws and remove the limit switch unit cover.
2. Set the sliding leaf in open position, leaving enough room for ramping down the speed before stop.
3. Loosen the central locking screw of the limit switch unit.
4. Turn the screw corresponding to limit switch open (screw number 4) until the microswitch is engaged by the cam.
5. Place the sliding leaf in closed position, leaving enough room for ramping down the speed before stop.
6. The the screw corresponding to limit switch closed (screw number 3) until the microswitch is engaged by the cam.
7. Tighten the central locking screw of the limit switch unit.
8. Refit the limit switch cover.
9. Manually close the sliding leaf.
10. Prepare the operator for normal operation.
11. Ensure that there is no danger and the safety devices are operating correctly.
12. Give an open pulse and verify correct operation.
13. Times for slow down mode is set later in the control board.

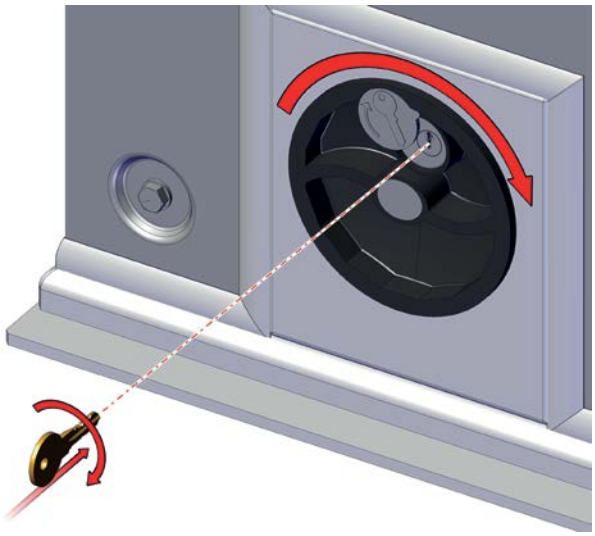
If no frequency converter is used step 2 and 5 above should be set to stop in the end position without ramping down.



Manual release

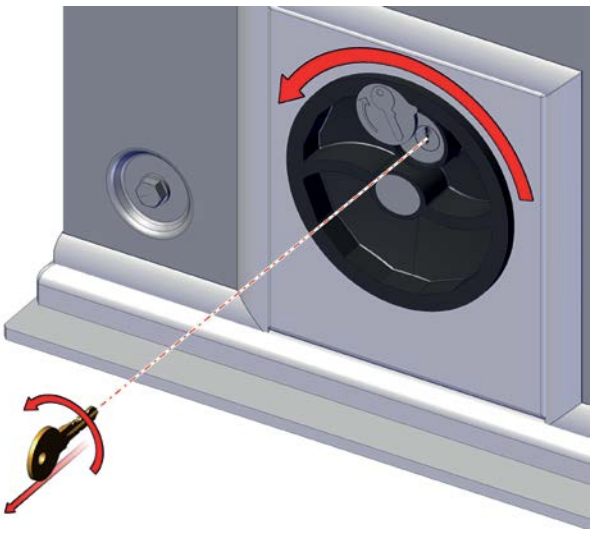
To release the gear motor, proceed as follows:

1. Insert the provided key and turn clockwise
2. Turn the release system clockwise until it reaches the mechanical stop.
3. Open or close the gate manually.



To lock the gear motor, proceed as follows:

1. Turn the release system anti-clockwise until it stops
2. Then the key anti-clockwise and then remove it from the lock.
3. Move the gate by hand until the clutch is locked again.



Maintenance

We recommend checking system operation every six months, with special attention to the safety devices (including the motor thrust power, which must comply with the regulations in force) and release devices.

Repairs

For repairs, contact an authorized FAAC Service Centre.