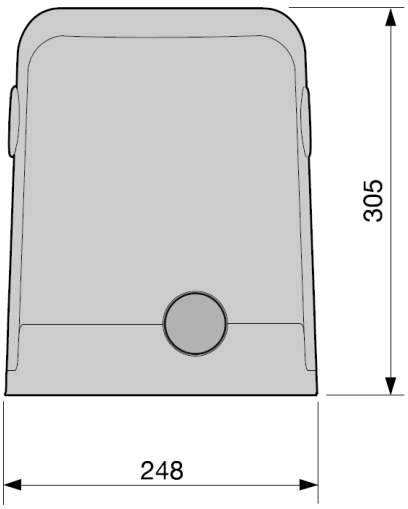
HOW TO SET-UP THE FILO 400/600 SLIDING GATE MOTOR

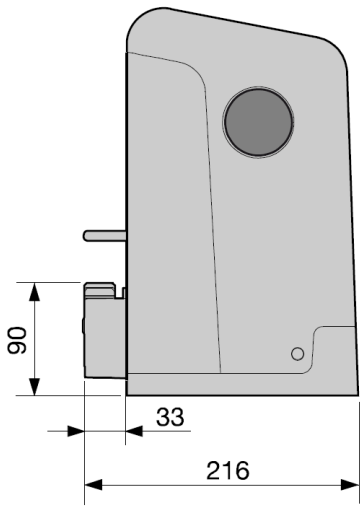
Attention: This is a simplified guide on the Filo 400/600 gate motor and it does not substitute the full instruction manual.

1. OVERVIEW ON THE FILO

The Filo is a 24V sliding gate motor designed for gates up to 600Kg and for residential use.

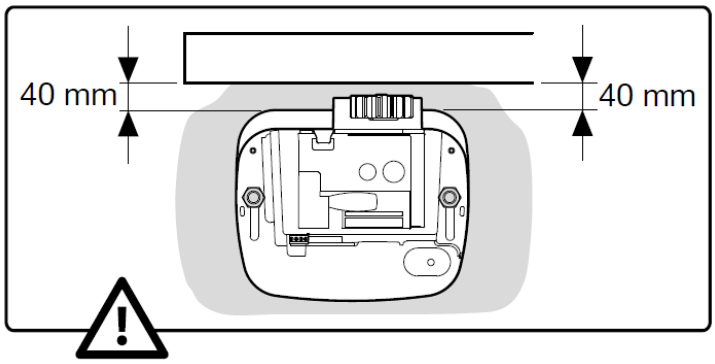
	Gate Weight (Kg)	Gate Length (m)	Control Board
Filo 400	400	5.5	CL101
Filo 600	600	7	CL102





2. MOUNTING THE MOTOR ON THE CONCRETE SLAB

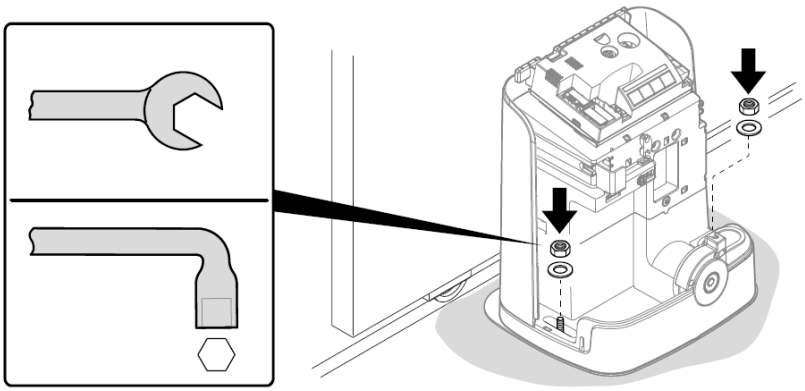
The base plate should be 40mm from the gate frame.



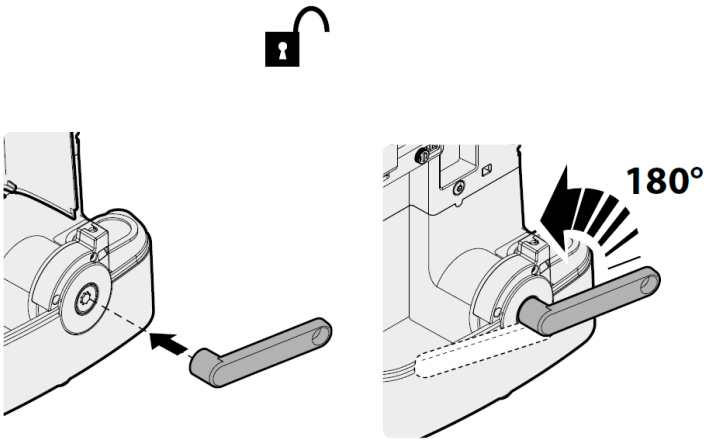
When mounting the operator you would need one of the below:

- 2x 200mm DynaBolts
- 2x 200mm threaded rod & ChemSet

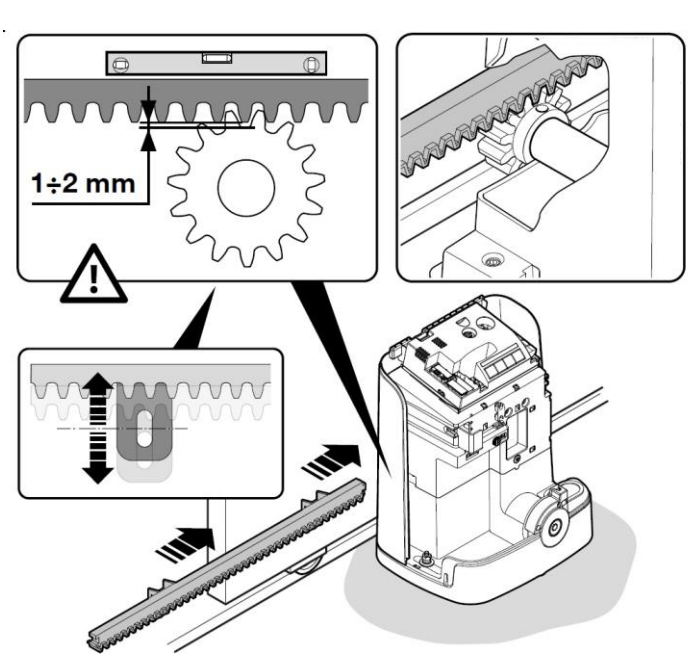
If you need to adjust the position of the operator, this can be done by sliding the Filo forwards or backwards and then secure it by using washers and nuts.

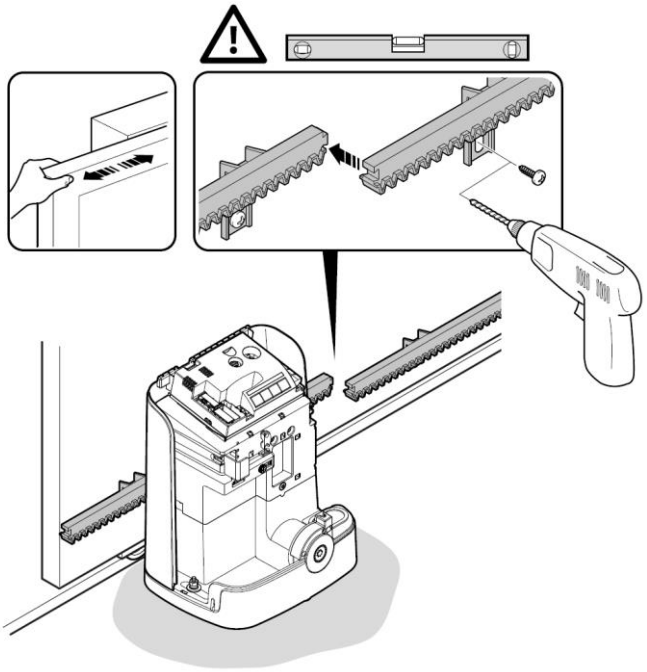


Once the Filo has been bolted down, manually release the operator.

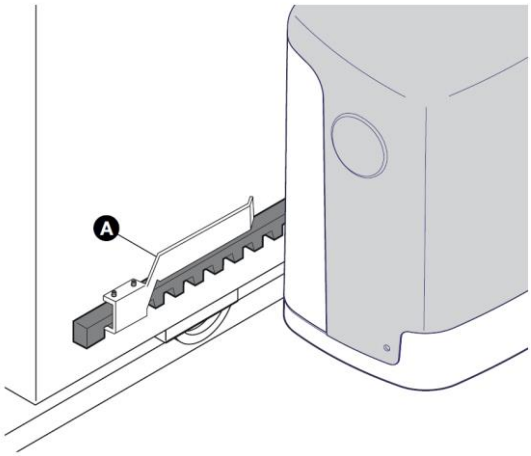


Install the rack metre by metre, making sure to leave a bit of play between the pinion and the rack of about 2 mm. Using a spirit level make sure the rack is level and engaging on the pinion all the way along.

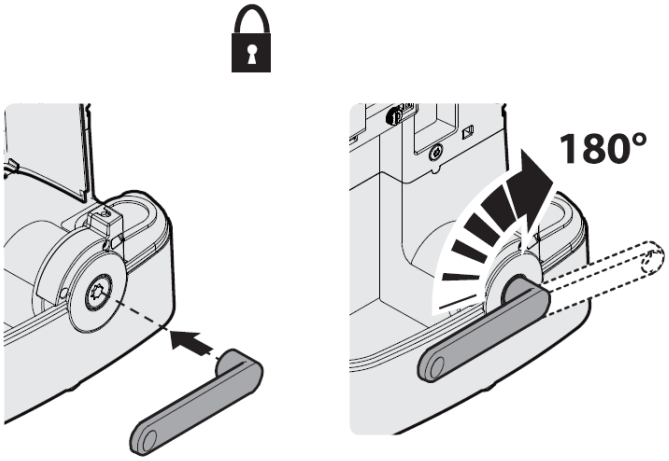




Install the opening & closing limit switch paddles according to the desired opening and closing position and re-engage the motor gearbox.

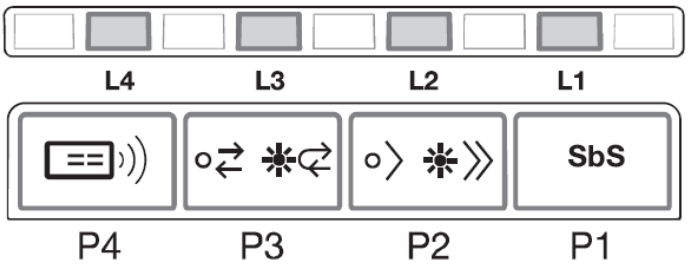


As the motor comes already with a pre-wired power lead, plug the motor into a power socket and re-engage the Filo on the gearbox.



3. BASIC PROGRAMMING

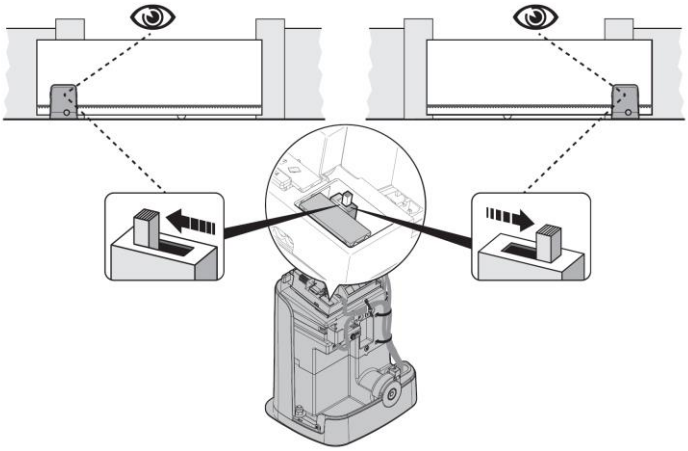
Below is an explanation of the control board buttons and a list of basic programming procedures.



P1 = Step-by-step
P2 = Slow speed / Fast speed
P3 = Semi-Automatic / Automatic cycle
P4 = Programming remote controls

3.1 DIRECTION OF THE MOTOR

To determine the direction of the motor, you must stand inside the property looking out.



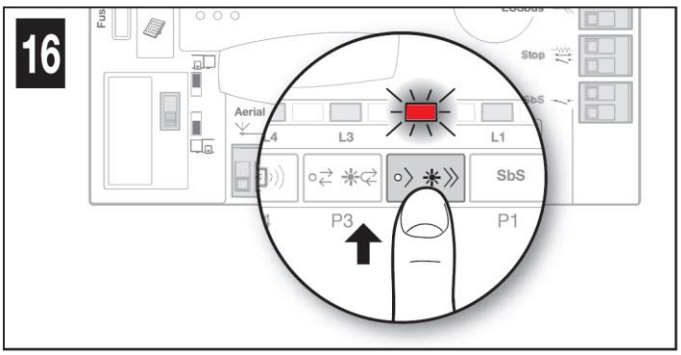
Flick the dip-switch **UP** if the gate is opening from right to left (Left Direction).

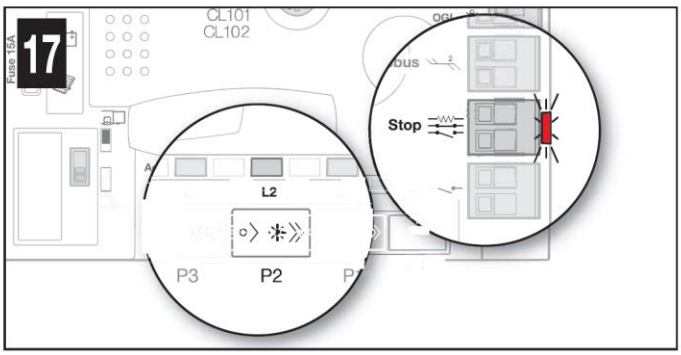
Flick the dip-switch **DOWN** if the gate is opening from left to right (Right Direction).

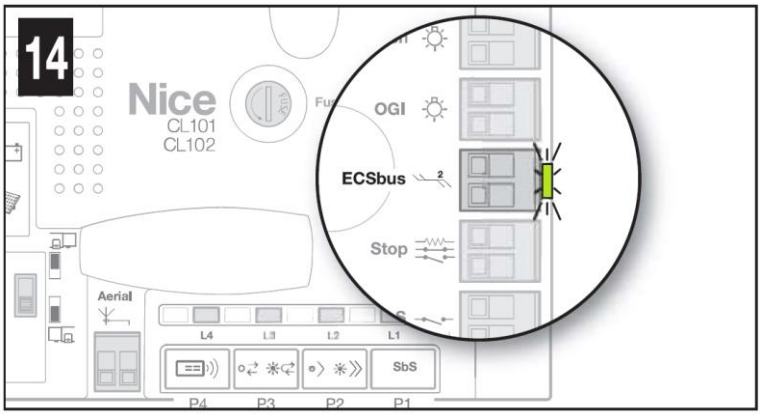
3.2 MEMORISATION OF CONNECTED DEVICES

On the control board, press and hold the button P2 until the LED start flashing, then release it. The board will perform a learning of the connected devices. At the end of this procedure, the STOP LED must be ON, the P2 LED must stay ON for a few seconds and the ECSbus LED must flash once per second.

Attention: Whenever a device is added or removed, a new memorisation of connected devices must be performed.







3.3 MEMORISATION OF THE GATE LENGTH

- Manually release the gate motor.
- Put the gate in the middle of the driveway and lock it again.
- Press the button P1 and the gate should start opening until it reaches the limit switch.

Only if the gate does **NOT** travel in the opening direction, proceed as per below:

  - Press the button P1 to stop the gate.
  - Switch the power OFF.
  - Flick the direction dip-switch selector on the opposite side (see paragraph 2.1).
  - Switch the power back ON.
  - Perform a memorisation of connected devices (see paragraph 2.2).
  - Start again the memorisation of the gate length (see paragraph 2.3).

- Press the button P1 and the gate should start closing until it reaches the limit switch.

3.4 MEMORISATION OF THE FIRST REMOTE CONTROL

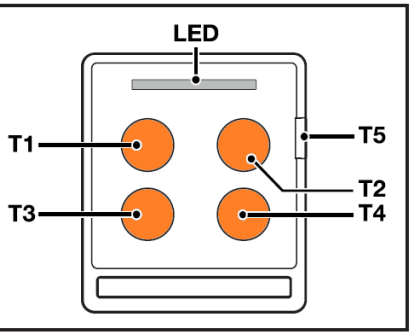
The built-in receiver can hold up to 250 Ecco remote controls which can be programmed in two different modes:

MODE 1

This procedure allows to simultaneously memorise all the remote control buttons by automatically pairing them to the commands in the table below.

1. On the control board, press and hold the button P1 for 3sec until the LED 1 switches ON, then release it.
2. Press and hold for 3sec **any** button of the remote control. If the operation is successful, LED 1 will quickly flash 3 times.
3. To memorise other remote controls, repeat the step n°2 within 10sec.

TABLE 5	
Keys	**Paired command**
T1	Step-by-step
T2	Partial open
T3	Open only
T4	Close only
T5	230 V light output: On - Off



MODE 2

This procedure allows to program one button at a time with a specific command.

Below are a couple of examples.

STEP-BY-STEP COMMAND

1. On the control board, press the button P1 once.
2. Press and hold for 2sec **the** button of the remote control that you want to program in. If the operation is successful, LED 1 will quickly flash 3 times.
3. If you wish to program other remote controls with the same command, repeat step n°2 within 10sec.

PEDESTRIAN COMMAND

1. On the control board, press the button P1 twice.
2. Press and hold for 2sec **the** button of the remote control that you want to program in. If the operation is successful, LED 1 will quickly flash 3 times.
3. If you wish to program other remote controls with the same command, repeat step n°2 within 10sec.

3.5 GATE MANOEUVRE SPEED

The opening and closing of the gate can be either “slow” or “fast” and the type of selection can be visualised by switching ON/OFF of the LED 2 on the control board.

LED 2 is ON → Fast manoeuvre speed selected.

LED 2 is OFF → Slow manoeuvre speed selected.

If you wish to change the speed, press and release the button P2.

3.6 GATE OPERATING CYCLE

The opening and closing of the gate can be either “automatic” or “semi-automatic” and the type of selection can be visualised by switching ON/OFF the LED 3 on the control board.

LED 3 is ON → Automatic → Gate is closing automatically.

LED 3 is OFF → Semi-automatic → Gate will not close automatically.

If you wish to change the operating cycle, press and release the button P3.

4. ADVANCED PROGRAMMING

Using the remote control programmed in Mode 1, it’s possible to adjust the following parameters:

Pause Time	Time during which the gate remains open before re-closing automatically.
Pedestrian Opening	Partial opening of the gate to allows pedestrians to pass through.
Motor Force	Force applied by the motor to move the gate.

SbS Function	Sequence of gate movements associated with the Step-by-Step command.
OGI (Open Gate Indicator)	Output to which it's possible to connect a 24V warning light.

Below a summary of the parameters that can be modified, the associated remote control button and the action to be performed.

TABLE 2

Parameters	Value	No. of flashes emitted by the flashing light	Transmitter key to be used	Actions to be performed
Pause time	10 sec	1	**T1**	Press T1 once
	20 sec *	2	**T1**	Press T1 twice
	40 sec	3	**T1**	Press T1 three times
	60 sec	4	**T1**	Press T1 four times
Pedestrian opening	Gate open to 0.7 m	1	**T2**	Press T2 once
	Gate open to 1 m *	2	**T2**	Press T2 twice
	Gate halfway open	3	**T2**	Press T2 three times
	Gate 3/4 open	4	**T2**	Press T2 four times
Motor force	Low	1	**T3**	Press T3 once
	Medium-low *	2	**T3**	Press T3 twice
	Medium-high	3	**T3**	Press T3 three times
	High	4	**T3**	Press T3 four times
Step-by-Step (SbS) function	Open - Stop - Close - Stop	1	**T4**	Press T4 once
	Open - Stop - Close - Open *	2	**T4**	Press T4 twice
	Open - Close - Open - Close	3	**T4**	Press T4 three times
	Opening only	4	**T4**	Press T4 four times
OGI (Open Gate Indicator) function	**OGI ***	1	**T5**	Press T5 once
	30 sec courtesy light	2	**T5**	Press T5 twice
	60 sec courtesy light	3	**T5**	Press T5 three times
	Presence function	4	**T5**	Press T5 four times
*** Factory value**				

4.1 MODIFY A PARAMETER

Attention: Before proceeding, check the parameter to be modified on the above table and the action to be performed.

1. On the remote control, simultaneously press and hold the button T1 and T2 for at least 8sec and until the ECSbus LED switches OFF, then release them.
2. Within 3sec, perform the action specified in Table 2 to modify the desired parameter.

4.2 DELETE A SINGLE REMOTE CONTROL

This procedure deletes a single remote control programmed in Mode 1 or Mode 2 from the control board.

MODE 1

1. On the control board, press the button P4 and hold it until the end of the procedure.
2. When the LED 4 lights up (while holding the button P4), press and hold **any** button of the remote control to be cancelled until the LED 4 flashes very quickly 5 times, then release both buttons.

MODE 2

1. On the control board, press the button P4 and hold it until the end of the procedure.
2. When the LED 4 lights up (while holding the button P4), press and hold **the** button of the remote control to be cancelled until the LED 4 flashes very quickly 5 times, then release both buttons.

4.3 DELETE THE ENTIRE RECEIVER

This procedure deletes all the remote controls programmed on the control board.

1. On the control board, press and hold (until Step n°3) the button P4.
2. LED 4 lights up for about 5sec, then switches off and then flashes 3 times.
3. Precisely on the 3rd flash, release the button P4.
4. LED 4 emits fast flashes and then 5 slow flashes which means that the operation was successful.