

# MC4



## Installation and user manual for sliding gate motor MC4 with B631 control board



### MAIN CHARACTERISTICS OF THE MOTOR MC4 AND CONTROL BOARD B631

<i>Power</i>	300W
<i>Motor absorption</i>	1.3A
<i>Kind of limit switch</i>	MC4C : mechanic limit switch MC4MFC: magnetic limit switch
<i>Capacitor</i>	14uF
<i>Protection grade</i>	IP44
<i>Torque</i>	20Nm
<i>Speed</i>	0.16m/s
<i>Pushing power</i>	400N
<i>Max. weight of the gate</i>	400Kg
<i>Thermal protection</i>	150°C
<i>Isolation class</i>	I
<i>Temporary service</i>	30%

<i>Feeding</i>	230Vac $\pm$ 10% (50-60 Hz)
<i>Max power output</i>	0.5Hp / 350W
<i>Motor power regulation</i>	from 30% to 100%
<i>Protection fuses 230Vac</i>	6AT
<i>Protection fuses 24Vdc</i>	1AT
<i>Output voltage for commands</i>	24Vdc 10W max
<i>Blinker</i>	230Vac 200W max
<i>Pilot lamp "Gate Open"</i>	24Vdc 3W max
<i>Working time</i>	160s / 80s max (can be switch on)
<i>Forewarn time</i>	2.5s (can be switch off)
<i>Inversion time</i>	1.5s
<i>Automatic closing time</i>	3s - 80s
<i>Working temperature</i>	-20°C / + 70°C

Limit switch opening FCA and limit switch closing FCC mechanical (MC4C) or magnetic (MC4MFC) • Obstacle detection module (optional) • Electronic regulation of the power • Test of triacs and safeties at every manoeuvre • Push at any start of manoeuvre, can be switch off • Slowing down at the end of manoeuvre in closing, can be adjust or switch off • Delay time in the inversion of manoeuvre, in order to avoid mechanical damages to the motor • Easy setting of the motor direction by dipswitch whether it is installed on the right-hand or on the left-hand of the gate • Visualization of functioning and input state by LEDs • Step/step command programmable by DIP with 4 different modalities • ALT/STOP command • Partial Opening Command (pedestrian) APP • Safety opening SA for protection in the opening phase • Photocell FOT • Radio module MODP433 433.92 MHz with decoding B&B Rolling-Code, memorization up to 60 radio-controls • Memory module extractable for transferring the radio-controls to other boards • Possibility of remote programming by "MASTER" radio-control.

## IMPORTANT WARNINGS

- This equipment is exclusively intended for the usage it was conceived, any other kind of usage is to be considered improper and therefore dangerous.
- The installation and the maintenance (every 6 months) of the product have to be carry out only by specialized staff according to the current laws.
- The feeding voltage has to be supplied from an efficient differential pushbutton, which has to be tested and settled according to the current laws and also a suitable external independent disconnecting switch, which has to be adjusted on the current charge.
- Throughout the installation procedure the board has to be switch off.
- The disposition of materials has to be done in accordance with the current laws.
- Adopt all the precautions to integrate the safety of the gate in accordance with the current laws.
- Choose the shortest ways for the cables and keep power cables away from the control ones.
- Before the installation assure that there is the stopping beat of the gate.
- For the adjustment of the maximum torque of the gear motor, follow the current laws.
- According to the European laws on security, we suggest to connect an external pushbutton for switching off the feeding during maintenance on the gate.
- Verify that all the installed devices are effective and efficient.
- Post-up sign-boards in a readable way to inform the presence of an automatic gate

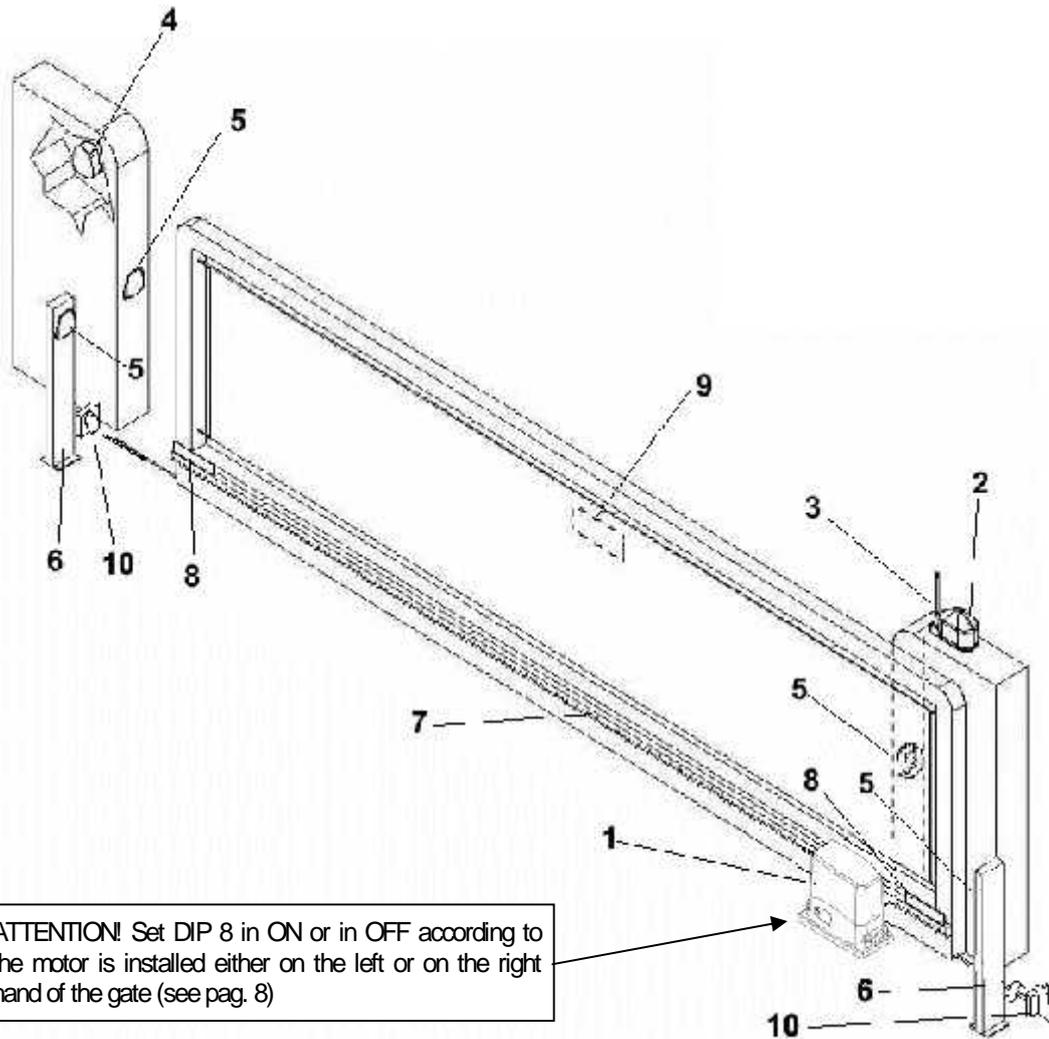
Please remember that we are in the presence of an automatic device fed with electric energy, therefore use it with all the precautions. In particular we exhort:

- Don't touch the device with wet hands and/or with wet or naked feet;
- Cut the energy before opening the command box and/or the motor;
- Don't pull the feeding cable to disconnect the plug;
- Command the motorized gate only when it is completely visible;
- Stay out of the action range of the gate, if this is in motion: wait until it's completely stopped;
- Don't let the children or the animals play in the proximity of the gate;
- Don't let the children use the radio-control or other command devices of the gate;
- Do a periodical maintenance;
- In case of damage, cut the energy and move the gate manually only if it is possible and safe.
- Avoid any self-made intervention but call specialized staff.



**The no observance of the described notes could cause damages to persons, animals or objects. In such case the producer can't be considered responsible.**

## TYPICAL INSTALLATION



1	Motor gear MC4
2	Blinker
3	Antenna
4	Key selector
5	Photocell
6	Column
7	Rack
8	Limit switch
9	Advising sign
10	Mechanical stops

ATTENTION! Set DIP 8 in ON or in OFF according to the motor is installed either on the left or on the right hand of the gate (see pag. 8)

## PRE-INSTALLATION CHECK

Before doing the installation is suggested to do the following checks and operations:

- The structure of the gate must be sturdy and appropriate;
- During the run, the gate doesn't have to present too much sideways slide skids.
- The system of wheels/lower rail and rollers/upper runner must work without too many frictions;
- To avoid the gate derailment, is necessary to install the stop beats of the sliding motor, whether in the opening or in the closing, and a second roller/upper runner in full observance of the current law.
- Remove the possible manual lock in the pre-installed gates;
- Put on the bottom of the gate the junction box of feeding cables (025-50mm) and of external connection (photocell, blinker, key selector, etc.)

PROGET is responsible only for the products it produces and commercializes. The gate, when automate, becomes a machinery and therefore subjected to the Machinery Directive. It is duty of the installer to verify the safety of the whole installation.

WARNING: PROGET is not responsible for damages to persons, animals or objects caused by modifications, alterations or improvements done to its products without its permission.

## MOTOR INSTALLATION

### FIXING OF THE PLATE

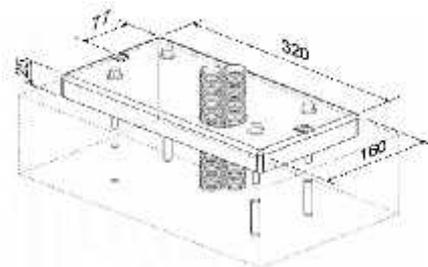


Fig.1 – Fixing by screw-anchors

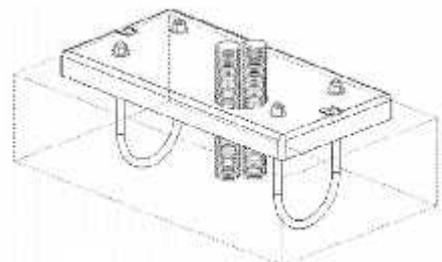
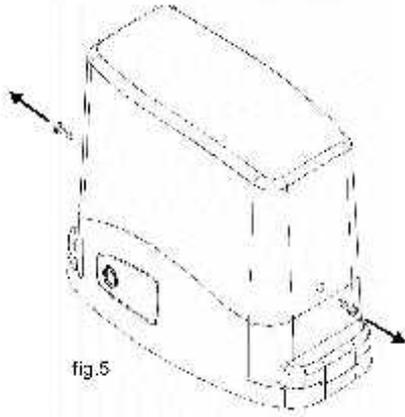


Fig.2 – Drowning into the concrete

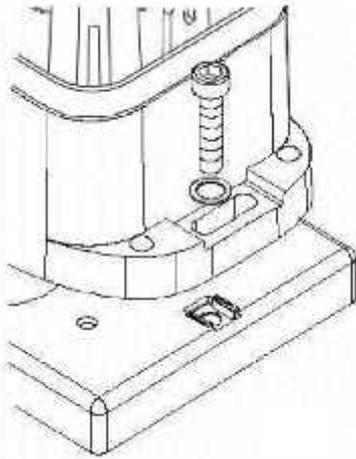
Respecting the overall sizes, fix to the ground the base-plate by 4 sturdy screw-anchors (fig.1), or drown it into the concrete (fig.2). Plan one or more hoses for the passage of the power lines.

**WARNING:** It is necessary to know the dimensions of the rack in order to calculate the right position of the counter-plate.

**FIXING OF THE MOTOR TO THE PLATE**

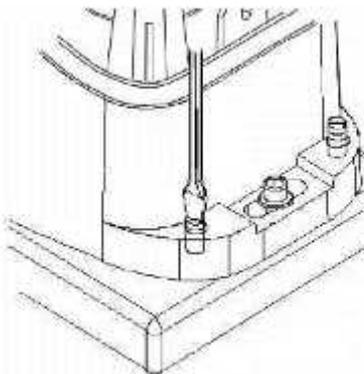


For the fixing of the motor proceed unscrewing and taking away the cover of the motor. Set the gear on the plate. Insert the two socket (or square screws).



It's important to strongly tighten the two square screws, making sure that for the complete run of the gate, the motor gear is well fixed on the ground.

In case the regulation allowed by the rack wouldn't be sufficient, it's possible to compensate the height of the motor gear by acting on the 4 screws.

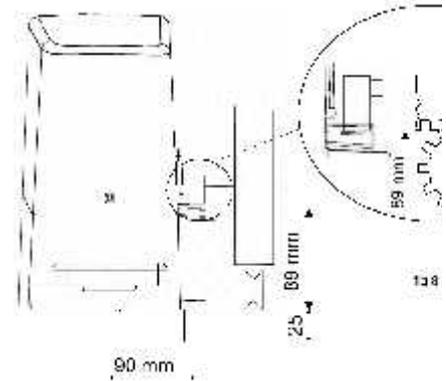


Is suggested, after a few manoeuvres of the motor, to do a further tighten.

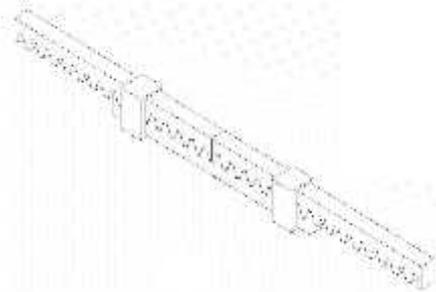
**FIXING OF THE RACK**

Release the motor and set the gate at its complete opening. Put a rack element on the pinion, and fix it with screws and spacing bars to the gate.

Manually move the gate putting the pinion into line with the last spacing bar. Definitely fix the rack element.

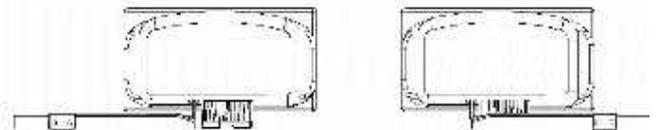


For a correct positioning of the other elements and in order to assure their straightness, it's necessary to use a rack element as reference and support.



It is also necessary to assure a space of 2 mm between rack and pinion so that the gate weight doesn't burden on the pinion of the motor gear.

**FIXING OF MECHANICAL LIMIT SWITCH (MC4C)**



The gate must be equipped with beaten whether in opening then in closing, which will prevent the gate derailment.

The position of the beaten must assure that limit switch brackets don't collide with pinion.

Put manually the gate in opening position, leaving a space between 30 to 50 mm between the gate and the mechanical stop (beaten), according to the weight of the gate. Fix the limit switch bracket trough the dowels so that the limit switch is pressed.

Repeat the operation with the gate in closing.

## MAINTENANCE

The motor gear MC4 is provided with a permanent lubrication of grease so it doesn't need of maintenance; nevertheless his good working depends on the state of the gate too, therefore we will describe some operations in order to have always an efficient gate.

Warning: none apart the maintainer, who must be a specialized technician, could command the gate in automatic during its maintenance. It is suggested therefore to cut electric energy, avoiding also electric shocks. If, otherwise, the energy has to be present for possible verifications, is recommended to check or disable any command devices (radio-controls, pushbuttons, etc) excepted the one used by the maintainer.

### ORDINARY MAINTENANCE

Each of the following operations must be done when we realize the need and in any case every 6 months.

#### 1) Mechanic maintenance:

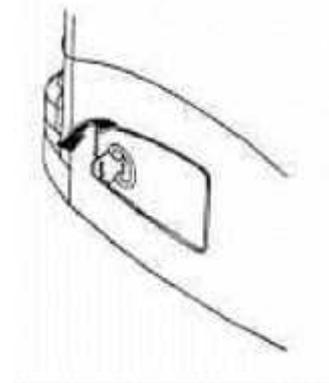
- Clean from debris the rail and the respective wheels;
- Check the good fixing of the motor and the relative plate;
- do an unlocking manoeuvre in order to be sure that the mechanism will always be efficient.

#### 2) Electric maintenance:

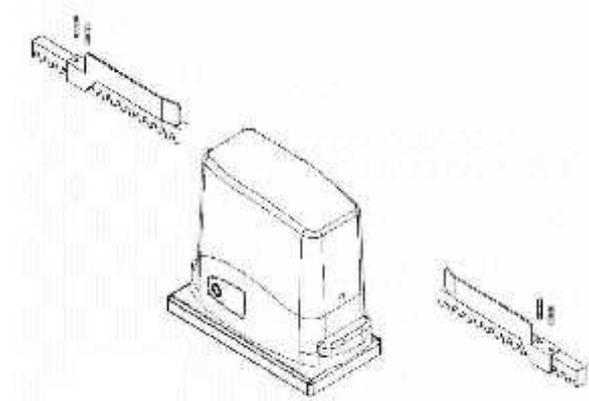
- Check the good state of the safety devices;
- Check the efficiency of the electronic power regulation
- Check the efficiency of the ground system (differential). Test the differential switch once a month pushing the test button on the pushbutton.

## USAGE OF THE MANUAL RELEASE

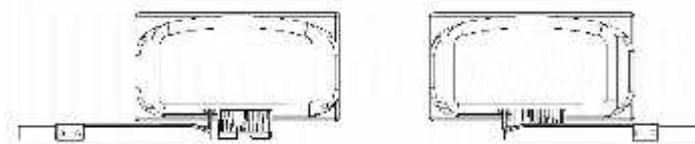
In case of lack of electric energy, act on the manual release device and move the gate manually.



Insert the unlocking key and rotate it counter clockwise of 90°. Pull the handle until it is perpendicular to the motor gear.



## INSTRUCTION FOR MAGNETIC LIMIT SWITCHES (MC4 MFC)

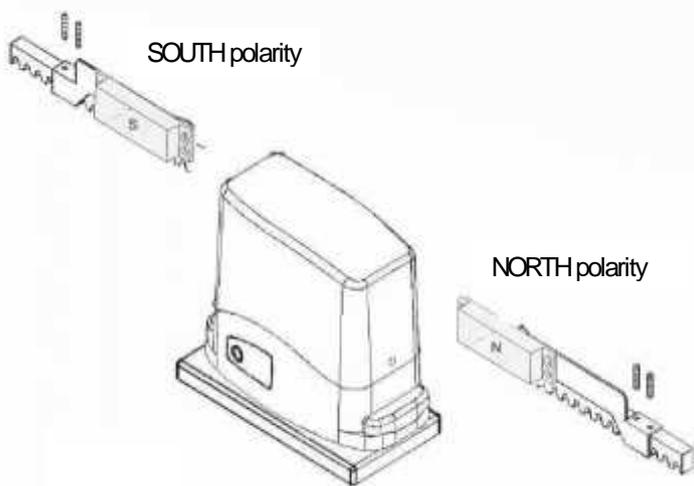


The gate must have stops in opening and in closing in order to avoid the derailment of the gate.

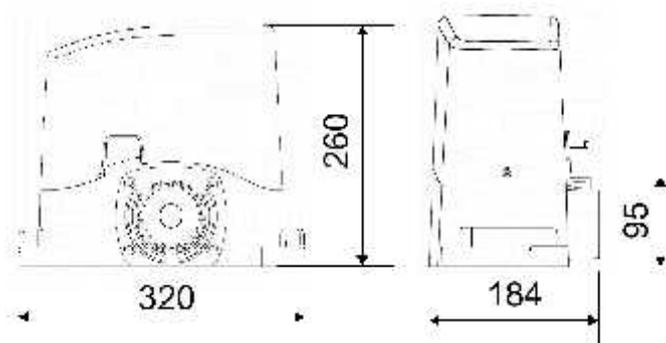
The position of the stop must assure that limit switch brackets don't collide with the pinion.

Manually move the gate in opening position and leaving a space between 30 and 50 mm between the gate and the mechanical stop, according to the weight of the gate. Fix the bracket of the magnetic limit switches with the proper pivot.

Repeat the operation with the gate in closing position.



## DIMENSIONS



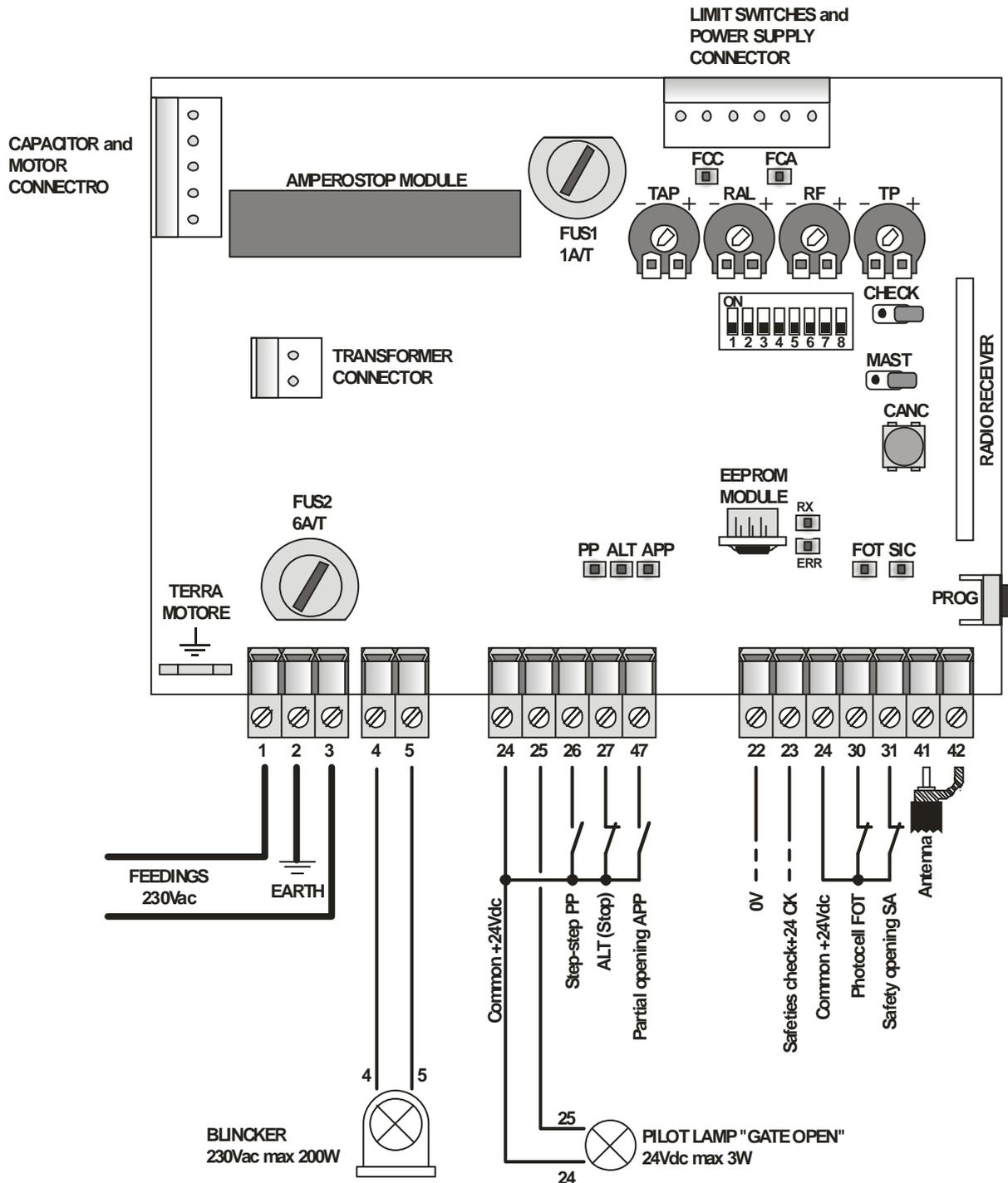
# CLAMPS DESCRIPTION AND ELECTRIC PLAN

1, 3	Feeding 230Vac ± 10% (50-60 Hz)
	Ground connection
4, 5	Output for blinker LAMP, 230Vac 200W max
24	Output +24Vdc 10W max (common tension and safeties)
25	Output Pilot lamp "Open Gate" SCA, 24Vdc 3W max
26	(NO) Input Step-Step command PP
27	(NC) Input of command ALT/STOP
47	(NO) Input of command of partial opening APP

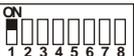
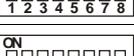
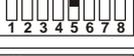
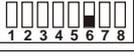
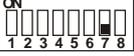
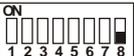
22	Reference 0V
23	Output feeding for safeties check +24Vdc CK
24	Output common +24Vdc
30	(NC) Input photocell FOT
31	(NC) Input safety Opening SA
41	Input of radio antenna
42	Input of radio antenna cable shield

	(NC) Normally closed entrance, if not used it has to be bridge with the common (clamps 24, 24)
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	(NO) Normally opened entrance, it has to remain opened if not used
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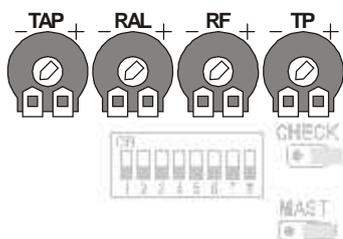
## DIPSWITCH

DIP	Position	Function	Description
1 OFF		FOT	Modality STOP-REOPEN: Even in opening than in closing, the gate stops and at the release of the photocell FOT after 2 seconds it reopens.
1 ON		FOT	Modality REOPEN: makes the inversion of motion in closing phase.
2 OFF		FOT/TP	At the passage through the photocell the pause time restarts (if trimmer TP isn't at the minimum).
2 ON		FOT/TP	The passage through the photocell sets the pause time at 5s (if trimmer TP isn't at the minimum).
3 OFF 4 OFF		Command PP	Function modality OPEN-CLOSE
3 OFF 4 ON		Command PP	Function modality OPEN-STOP-CLOSE-STOP
3 ON 4 OFF		Command PP	Function modality REMOTE OPENING: Opens, only at complete opened gate is possible to close.
3 ON 4 ON		Command PP	Function modality CONDOMINIUM: makes only the opening. The closing takes place at the expiring of pause time.
5 OFF		Working time	Maximum working Time 80s.
5 ON		Working time	Maximum working Time 160s.
6 OFF		Forewarn	Blinker and motor start immediately together.
6 ON		Forewarn	The blinker starts 2.5s before of the manoeuvre.
7 OFF		Push	Starting Push, disabled.
7 ON		Push	At the start of manoeuvre the board gives a brief push at maximum power.
8 OFF		Direction	Defined direction of motion (motor and limit switch as by serigraphy and manual instruction).
8 ON		Direction	Direction of motion inverted (motor and limit switch with inverted meanings with reference to serigraphy and manual instruction).

## CHECK JUMPER

Jumper	Position	Function	Description
CHECK open		Check sic.	Enables the check of safeties at every start of manoeuvre.
CHECK close		Check sic.	Disable the check of safeties.

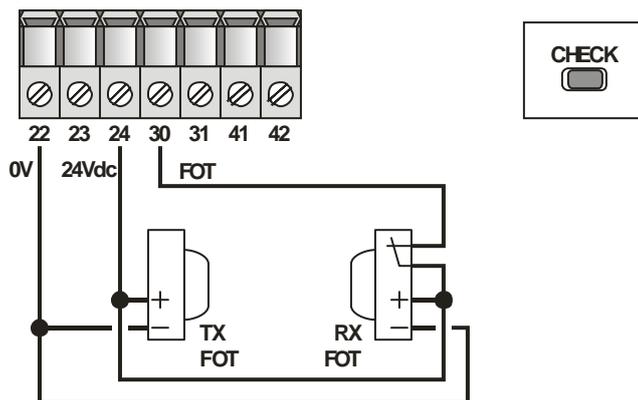
## DESCRIPTION OF TRIMMERS



Trimmer	Description
TAP	Working Time for partial opening (input APP)
RAL	Slowing down Time in closing, between 0s and 8s.
RF	Electronic power regulation of motor.
TP	Pause time for automatic closing (3s - 80s, at the minimum it disables)

## CONNECTION OF PHOTOCELLS

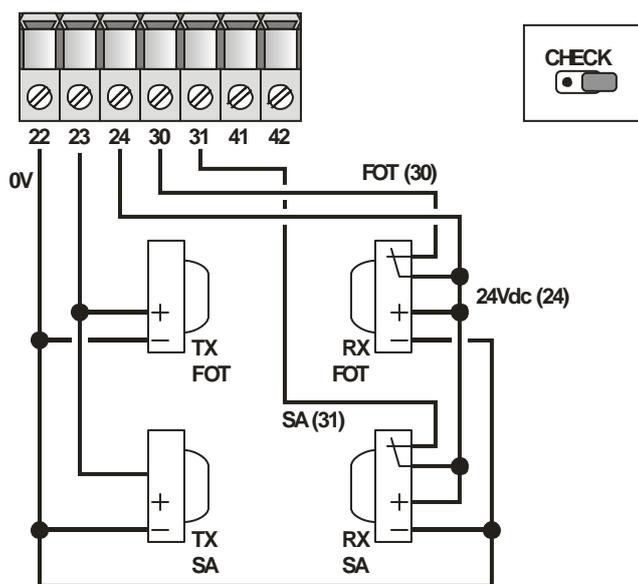
Standard connection (**jumper CHECK closed**, without check securities) of the photocell FOT (same procedure is for the **SA**):



Connection without FOT check  
(jumper CHECK closed)

The control board B631 is provided by a feeding voltage of **+24V CK** for the control (check) of photocells or similar safeties (input **FOT** and **SA**).

To allow to the B631 board to control the safeties you have to connect the positive feeding of each transmitter to the clamp 23 (+24V CK) and **open the jumper CHECK**.



FOT and SA with safety check  
(jumper CHECK open)

During the installation phase (LEDs RX and ERR blink alternatively) the board checks which securities are connected to the feeding of **+24V CK (clamp 48)** according to the plan above. The securities whose TX transmitters are connected to the +24V common feeding (clamp 24) are not controlled.

At the end of the installation and before each manoeuvre, the under check securities will be controlled through the deactivation and the following reactivation of the +24V CK output and the simultaneous control of the securities state. If this control fails (e.g.: photocell doesn't work) the move will be stopped and the ERR LED will blink 5 times.

To disable the securities check, close the **jumper CHECK**.

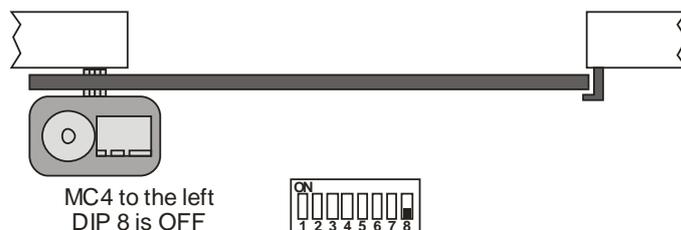
In order to connect more securities to the same entrance (e.g.: FOT), connect the normally closed contacts (NC) in series.

## INSTALLATION PROCEDURE

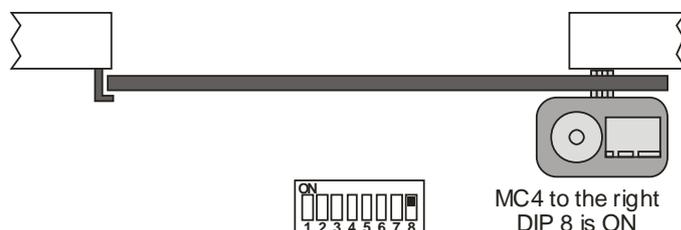
**WARNING!** During the installation:

- LEDs' RX and ERR blink alternatively
- The slowing down isn't functioning
- The check of securities isn't functioning

- 1) Check the fixing of motor and gate.
- 2) Adjust opening and closing limit switches in order to stop the gate at the desired position.
- 3) At board switched off, set DIP 8 according if the motor is installed either on the left or on the right hand of the gate.

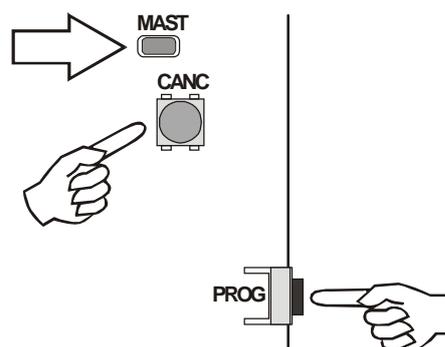


MC4 to the left  
DIP 8 is OFF



MC4 to the right  
DIP 8 is ON

- 4) Put the gate at the middle of his run and switch on the B631 board. Verify that no buzz, overheated or undesired command of the motor are present.
- 5) Verify that the LEDs' ALT, SA, FOT, FCC, FCA are lighted on (input closed on the common) and the LEDs' PP and APP are off (input open).
- 6) Reset the settings of the board: close the **jumper MAST** and push simultaneously **buttons PROG and CANC**: the LEDs' ERR and RX blink together; after approx 5s the board is reset and LEDs' ERR and RX blink alternatively (installation phase).



- 7) Program the DIPs 1, 2, 3, 4, 5, 7, 8 in **OFF** and the DIP 6 in **ON** (forearm enabled). Open the **jumper CHECK** to check the securities before any manoeuvre, otherwise close the jumper to disable this function.
- 8) Adjust the trimmer **RF1** at the middle of its run (power regulation of approx 50%), and the trimmers **RAL**, **TP** and **TAP** at the minimum.
- 9) Verify that the first manoeuvre of the gate, after the switching on, is an opening. If not, verify connections or that there are not safeties enabled. If the motor buzzes or it works only in one direction, check the right connection of the common or capacitor.

- 10) Adjust trimmer **RF1** in order to regulate the push of the motor, according to current laws.
- 11) Let to the gate to do 3 complete cycles (opening and closing) ) without the intervention of securities, so that the board is able to learn working times of the gate. At the third manoeuvre LEDs' ERR and RX stop to blink alternatively: it means that the installation phase is over.
- 12) Adjust the **trimmer TP** in order to set the **pause** (automatic closing time) from 0s to 80s approx. When the trimmer TP is at the minimum disables the automatic closing.
- 13) Adjust the **trimmer TAP** to set the **partial opening time** of the gate.
- 14) Adjust the trimmer **RAL** to set the **slowing down time in closing**, from 0 to 8s. When the trimmer RAL is set at the minimum it disables the slowing down.
- 15) Adjust the dipswitches according to the desired motor functioning.

## COMMANDS AND FUNCTIONING MODALITIES

### MODALITY OPEN-CLOSE (DIP 3 OFF and DIP 4 OFF)

Pushing button **PP** or a button of the **radio-control**, the board makes alternatively an opening and a closing phase.

### MODALITY OPEN-STOP-CLOSE-STOP (DIP 3 OFF and DIP 4 ON)

Pushing button **PP** or a button of the **radio-control**, the board makes alternatively opening-STOP-closing-STOP.

### MODALITY "REMOTE OPENING" (DIP 3 ON and DIP 4 OFF)

Pushing button **PP** or a button of the **radio-control**, the board makes an opening; only when the gate reaches the limit switch or when the working time is expires, it is possible to close the gate. During the closing phase the gate reopens. This modality is suggested in presence of lot of interferences on the radio transmission or when many users can command simultaneously the gate.

### MODALITY "CONDOMINIUM" (DIP 3 ON and DIP 4 ON)

Pushing button **PP** or a button of the **radio-control**, the board makes an opening; closing takes place automatically only with the pause time (trimmer TP). This modality is recommended in condominiums with lot of users.

### PARTIAL OPENING (APP)

A n.o. pushbutton connected between **clamps 24 and 47**, commands a partial opening of the gate, which is adjustable by **trimmer TAP**. If during the phase of partial opening arrives a command of complete opening the gate executes this last one.

### PUSHBUTTON ALT (STOP)

Pushing the button **ALT** (stop) that is connected to the clamp 27 makes the board stop any motion of the gate. The automatic closing is suspended. The restart of motion takes place only by a new command.

### FOREWARN

Putting **DIP 6** in **ON**, the blinker is lighted on for approx 2.5s. to indicate the beginning of any manoeuvre.

### SLOWING DOWN

In order to have a precise and quiet stop of the gate it is possible to set a period of slowing down in closing before the stop of motor.

**WARNING: because of the clearances or particular features of some motors, in case of repeated inversions of motion without reaching the full opening or closing, the working time increases and the beginning of the slowing down can assume different**

**positions, till to be not visible. A full opening or closing re-establish the right operation.**

To activate and adjust the slowing down time in closing, use the **trimmer RAL**, from 0s to 8s approx.

### AUTOMATIC CLOSING

Adjust **trimmer TP** for the desired closing time. When you don't need any automatic closing, set the trimmer TP at the minimum. If during an automatic closing the photocells intervene and the **DIP 2** is in **OFF**, the internal timer will be restart. If the **DIP 2** is in **ON**, the closing takes place 5s after the release of photocells.

### SAFETY OPENING "SA"

The intervention of the **safety opening SA** (clamp 31) during an opening movement determines the immediate stop of the gate and the restart in closing for 2s. The restart of motion can take place only with a new command and it will be, for sure, a closing movement.

### PHOTOCELL FOT

The **photocell FOT** installed at the entrance of the gate has to be connected to **clamp 30**. With the **DIP 1** in **OFF** (modality stop-reopen) passing trough the photocell, even in opening than in closing, the gate stops and after 2s from the release, the gate reopens. With the **DIP 1** in **ON** (modality reopen) only in closing and passing trough the photocell the gate stops and reopens after a brief pause; during opening it makes no effect.

### CHECK OF SAFETIES

The control board is provided by a feeding voltage of **+24V CK** (clamp 23) for the control of photocells or similar safeties (input FOT and/or SA). Connecting photocells as by electric plan and the opening of the **jumper CHECK**, the functionality of the safeties is verified before any manoeuvre.

### OBSTACLE DETECTION MODULE (OPTIONAL)

The obstacle detection module (amperostop) checks the functioning of the motor during the normal motion (push and slowing down excluded). If it is detected a situation that stops the motor, after approx 1 second the control panel reverses the motion for about 2s, the LED ERR and the pilot lamp SCA blink for 7 times. The restart of movement can take place only by a new command and it would be certainly in the opposite side.

### SIGNALLING LED AND "GATE OPEN" PILOT LAMP

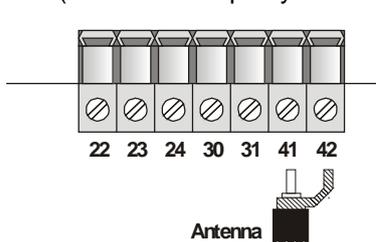
Generally, the **LED RX** signals the power of the radio transmission received, the **LED ERR** and the pilot lamp **SCA (clamp 25)** signals that the gate is open or an error situation. The alternate blinking of the LEDs' RX and ERR signals the phase of installation (see pag.8).

LED ERR	Description of the error
1 blink	Error in the memory module EEPROM
2 blinks	Expired working time
3 blinks	In the installation, found wrong limit switch.
4 blinks	Error in the check of triacs (probably damaged)
5 blinks	Error in the check of safeties before any manoeuvre.
7 blinks	Intervention of obstacle detection module
8 blinks	Limit switch found before its correct position.

## RECORDING OF RADIO-CONTROLS

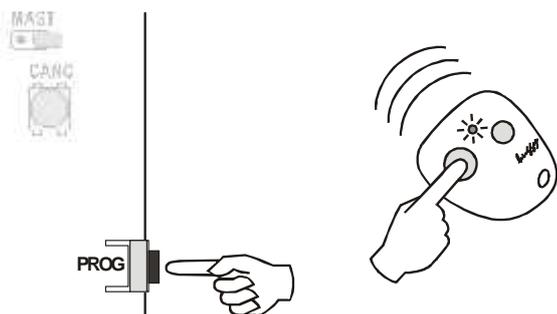
### CONNECTION OF THE ANTENNA

It necessary to connect the antenna with maximum 5m of 50ohm Coax cable to the clamps **41** and **42**, knowing that in order to have the best performance, the antenna must be installed as high as possible, close to the receiver, in an area free of radio magnetic interferences and far from metallic elements. For short ranges is enough to connect a piece of rigid cable (17cm for the frequency 433.92MHz).



### RECORDING PROCEDURE

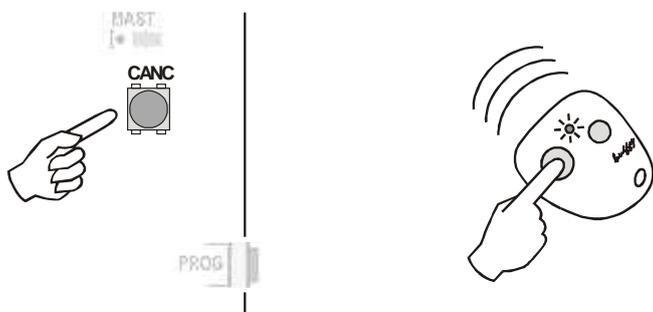
- Verify that pushing the button of the radio control, the RX LED of the control board blinks.
- If the RX LED of the board blinks without having push any button on the radio control, it means that we are in presence of radio interferences or that other radio-controls are transmitting. In this conditions, it is suggestible you do not proceed through the recording phase.
- Push the button **PROG** on the control board and push the desired button of the radio-control till the RX LED remains always lighted on (recording done).



- Release buttons and verify the correct functioning.

### DELETING OF A RADIO CONTROL

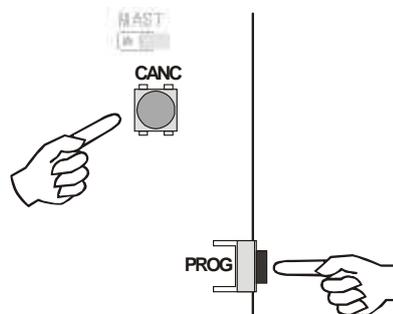
- First, push the button **CANC** on the control board then, for 1s, the desired button to be delete on the remote control. Now the RX LED remains lighted on (deleting done).



- This procedure must be done for every button you want to delete.

### TOTAL DELETING OF ALL RADIO-CONTROLS

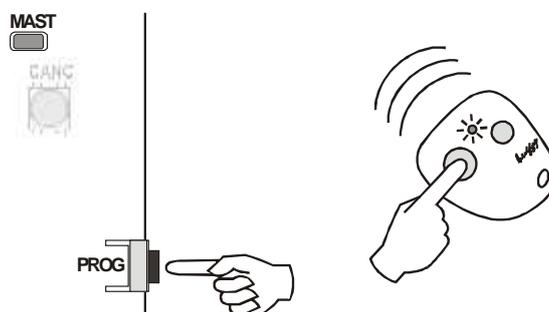
- Left the jumper **MAST** open. Push simultaneously buttons **PROG** and **CANC** of the Control Board.



- During the first 5 seconds the RX LED will blink slowly. At the end of deletion the Rx and ERR LEDs will remain lighted on. Release the buttons now.

### INSTALLATION OF THE "MASTER" RADIO-CONTROL (Ety4 or Emy4)

- Close the jumper **MAST**: the LED ERR blink quickly. Push the button **PROG** and simultaneously the button of the radio-control (Ety4F or Emy4F) to record as "MASTER", till the LED RX remains always lighted on.



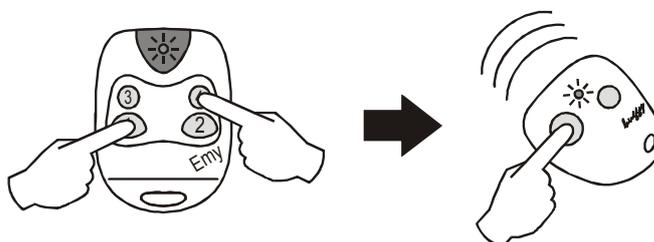
- Release buttons and the RX LED will switch off. Open the jumper MAST
- To verify the correct recording of the MASTER, push simultaneously **buttons 1 and 4** of the radio-control: The LED RX on the control board will blink slowly for 10s.
- Release the buttons.

**NOTE:** Only one remote-control can be recorded as "MASTER". The recording of a new "MASTER" eliminates automatically the previous recorded.

### REMOTE RECORDING OF NEW RADIOCONTROLS BY THE "MASTER" RADIOCONTROL

In order to avoid the opening of the box where the board or the radio receiver is stored, the control board is supplied by a function that allows to remote recording new radio-controls. To do this it is necessary to record a radio-control of the series Ety4 or Emy4 as "MASTER".

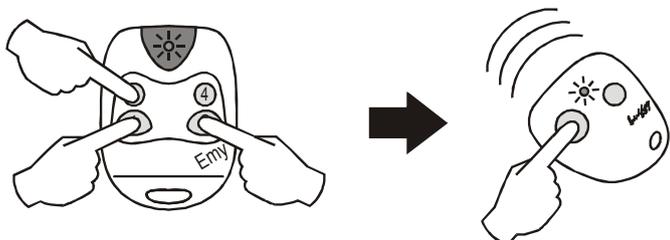
- Push simultaneously the **buttons 1 and 4** of the radio-control "MASTER". The LED of the radio-control will remain lighted on for 10s.
- Push (at least for one second) within this period, the button of the radio control we want to record. It is possible to record more radio-controls and more pushbuttons in sequence. The procedure ends after 10 seconds from the last recording.



- c) Test the new radio-controls recorded. In case it is not working one of the following situations could be happened: the command of the radio control MASTER (1 and 4) was not right received, the command of the new radio-control was not right received or the memory is full (max 60 radio controls).

#### REMOTE DELETING OF RADIO CONTROLS USING THE "MASTER" RADIOCONTROL

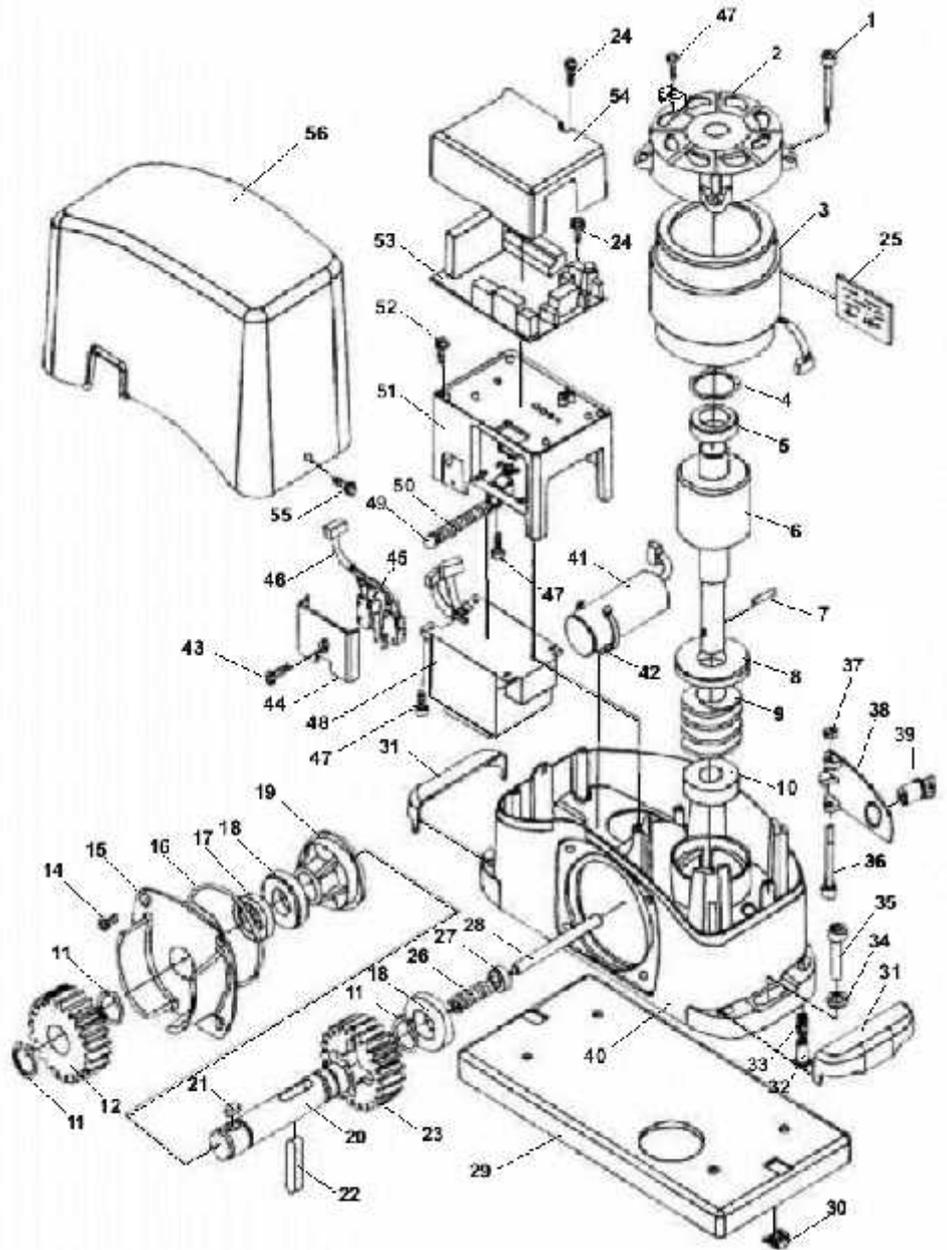
- a) Push simultaneously on the "MASTER" radio-control the **buttons 1-2-3**. The LED of the radio-control will remain lighted on for 10s.
- b) Within this period push the button of the radio-control to be deleted.



- c) Wait 10s and then verify the correct deleting.
- d) To delete other pushbuttons repeat the procedure from the beginning (point a).

## MC4 SPARE PARTS

1	390V6X60TCE
2	500CALSC-50
3	470S11062H-506
4	410AED10
5	440C6203
6	470R6250
7	410SE6X32
8	450AT256210
9	430VD48
10	440C6204
11	410AD25
12	480RM4Z18
13	
14	390V6X12TR
15	500 FLANSC-50
16	450OR4337
17	450AT25407
18	440C6005
19	570DISTSC
20	490ALSEC
21	410L8X7X15
22	410L10X8X50
23	570RM3Z23
24	390V2-9X13C
25	600ETDATISC
26	430MSBL
27	450AT10197
28	490PSBOTT
29	520CPSC-50
30	400DGM10
31	570CSTAFFSC
32	410RFM8FTT
33	400GM8X35
34	410RD10
35	390V10X35TCE
36	390V5X70TCE
37	400DAM5
38	500SPOSC-50S
39	420S2151B-KA
40	500CORSC-50
41	190CR16M450
42	380F290X3
43	390V4-2X19S
44	570PRMIC
45	330M16A300G
46	550CABSC-50



47	390V4-2X9-5C
48	900ATRA
49	570TAPMOLL
50	430MFIN
51	570CAST
52	390V3-9X13C

53	900CT-1A
54	570CCT-1A
55	390V4-2X13I
56	570CSC

## CE STATEMENT OF CONFORMITY

PROGET s.r.l declares that the product

**MC4**

complies with the essential requisites contained in the following UE directives:

- directive on the electromagnetic compatibility 89/336/EEC
- directive R&TTE 99/05/EC
- directive on the low voltage 73/23/CEE

Applied laws of harmonization:

EN60335-1, EN55014-1, EN55014-2, EN55081-1, EN55082-2, ETSI EN300220-3

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Ponte di Piave, 20-01-2006

Officer In Charge: GINO BASSI



The description and the electrical plan of this instructions guide are not binding. Although the main features of the device will be kept unchanged, Proget s.r.l. reserves itself at any time the faculty to improve the performance of the device even for commercial matters, and the right to up-date the instructions guide without any commitments.



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