POLARIS 5

ELECTRONIC CONTROL BOARD FOR SLIDING GATES

DELMA

MANUAL

!!! ATTENTION - NOTICE FOR THE INSTALLER !!!

The bridges present on the contacts STOP, SENSITIVE EDGE, PHOTOCELLS, will not be installed anymore by BAME s.r.l. for safety and normative reasons.

If one more of these contacts will not be utilised for any reason, the installer must insert a bridge on the contacts to assure a correct operation of the control board.

Always follow the european standard specifications for garage doors and gates, EN12453 and EN12445.

POLARIS 5

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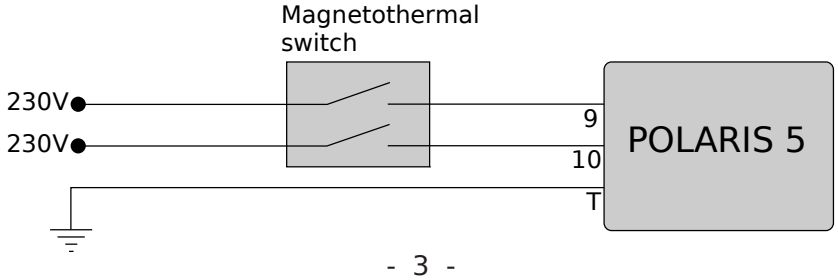
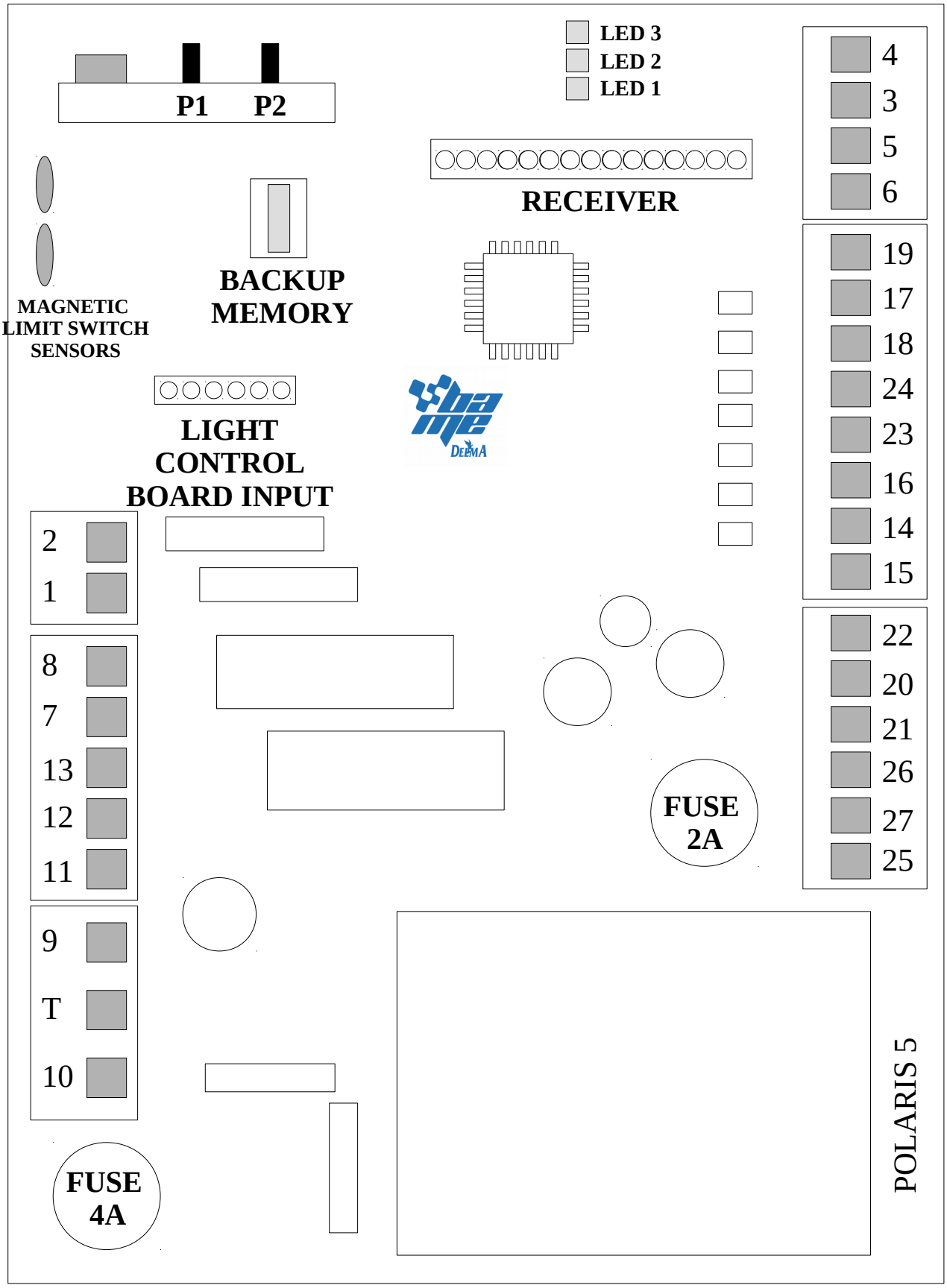
Note:
When installing the device, insert a switch with a contact opening of at least 3mm which ensures the Equipment omni-polar disconnection from the power supply.

!!!Please read carefully this manual before proceeding with the installation of the device!!!




LED 3
LED 2
LED 1
P1
P2
RECEIVER
MAGNETIC LIMIT SWITCH SENSORS
BACKUP MEMORY
LIGHT CONTROL BOARD INPUT
4
3
5
6
19
17
18
24
23
16
14
15
22
20
21
26
27
25
2
1
8
7
13
12
11
9
T
10
FUSE 2A
FUSE 4A
POLARIS 5

ELECTRIC CONTACTS

25 ENCODER POWER SUPPLY (POSITIVE POLE)
26 ENCODER POWER SUPPLY (NEGATIVE POLE)
27 ENCODER HALL SENSOR

14 – 15 START/STOP CONTACT
14 – 16 PEDESTRIAN OPEN CONTACT
17 – 18 PHOTOCELL CONTACT (Normally Close - Insert a bridge if not used)
17 – 19 PRESSURE SAFETY DEVICE CONTACT (Normally Close - Insert a bridge if not used)

20 – 21 OPENING LIMITSWITCH (MECHANICAL)
20 – 22 CLOSING LIMITSWITCH (MECHANICAL)

23 – 24 STOP (Normally Close - Insert a bridge if not used)

1 – 2 COURTESY LIGHT CONTACT, without electric tension (Max. 10 A / 230 V)

3 – 4 ANTENNA (Metallic mesh on contact 4)

5 – 6 PHOTOCELLS POWER SUPPLY 24 VDC (Max 150 mA) (5: +24Vdc 6: - 24Vdc)

7 – 8 BLINKER CONTACT (Type Quick MAX. 10 A 230 Vac)

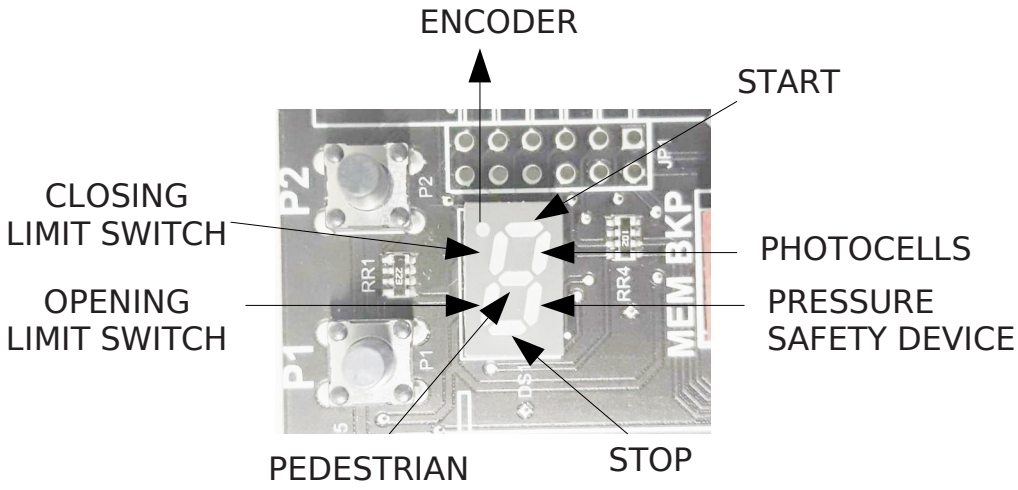
9 – 10 MAIN POWER SUPPLY 230 VAC / 50 Hz (Phase on 10)
T - GROUND

11 – 12 MOTOR OUTLET (Max 500 W 230 Vac) (BROWN – BLACK)
13 COMMON OF THE MOTOR (GREY OR BLUE)

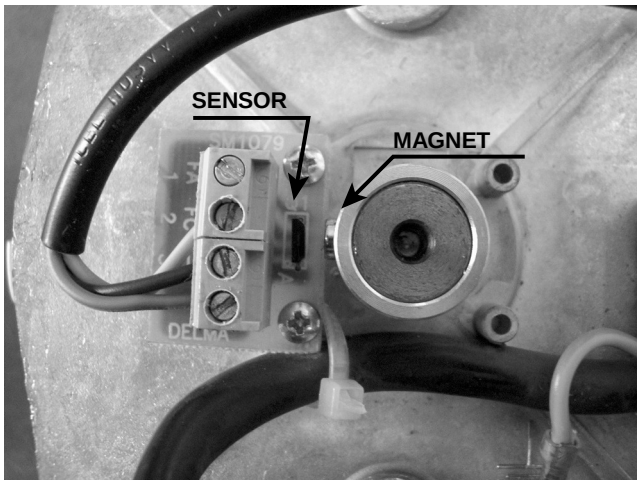
DEFAULT PARAMETERS

T3 EXTRA TIME = 4,5 SECONDS
T4 TIMING OF PHOTOCELLS OPERATED CLOSURE = 3 SECONDS
T5 TIMING OF AUTOMATIC CLOSURE = 30 SECONDS
T6 COURTESY LIGHT TIMING = GATE OPEN PILOT LIGHT
T7 PEDESTRIAN OPENING = 6 SECONDS
T8 MOTOR BRAKE = 270 ms
F1 ENCODER: DISABLED
F2 PRE-BLINKING OPENING = ON
F3 PHOTOCELL ENABLED DURING OPENING PHASE = OFF
F4 TRANSFORM PRESSURE SAFETY DEVICE CONTACT IN PHOTOCELL 2 CONTACT = OFF
F5 START INPUT : START – PEDESTRIAN OPEN
F7 SECURITY TEST = DISABLED
F8 OBSTACLE DETENCTION = 5
F9 LIMIT SWICTH = MAGNETICAL

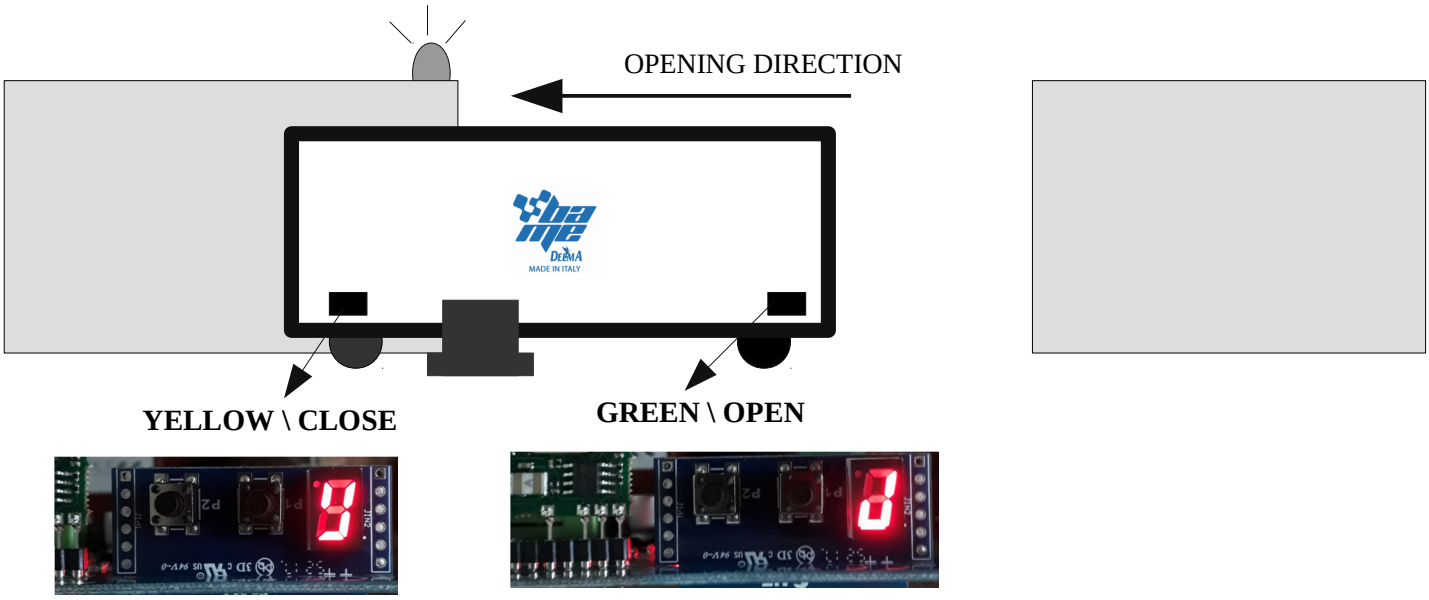
• The segments on the display corresponding to STOP, PRESSURE SAFETY DEVICE and PHOTOCELLS must be lit. These input contacts must be normally closed. (FIG.1)



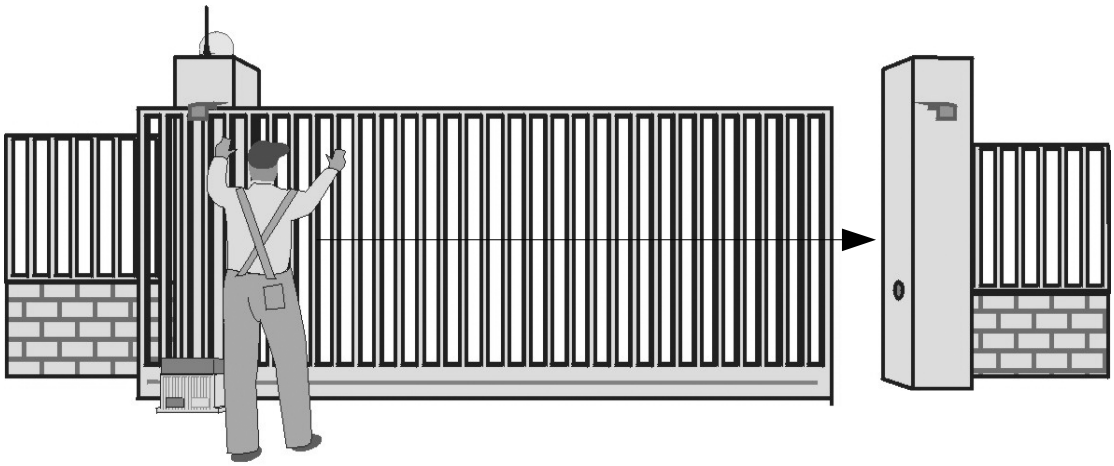
• If the board for the electronic clutch is present, turn with the hand the motor shaft and verify that the small dot on the display goes on every time the magnet pass in the sensor range. (FIG.2)



• Unlock the motor with the emergency release system and move the gate until complete opening and complete closing to verify if the limit switches are installed correctly.
At each limit switch correspond one segment on the display (FIG.1).



• Before to start programming bring the gate in CLOSING POSITION and lock again the motor (FIG.4)



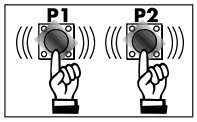
Programming the working time PROFESSIONAL

The technician set manually the slow down point

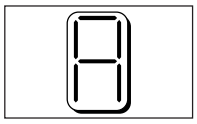
1. Power the control board.

2. Memorize the remote as parameter C1 page 16

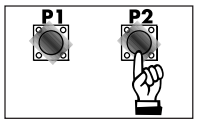
3. Press P1 and P2 simultaneously for three seconds to begin programming the board.



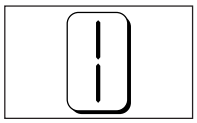
4. Letter A appear on the display.



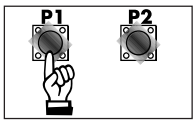
5. Press P2 to confirm.

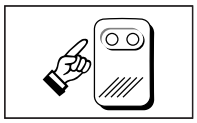


6. The number 1 appear on the display.



7. Push P1 or the button of the remote memorized to start OPENING gate

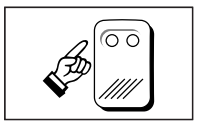




8. Push P1 or the button of the remote memorized when you want start the

9. Please wait that the gate opens completely. The reclosing is automatic.

10. Push P1 or the button of the remote memorized when you want start the slowing down



11. Please wait the complete closing of the gate.
Please wait that the board goes out automatically from the programming.

IF THE GATE START IN THE WRONG DIRECTION, REMOVE POWER SUPPLY,

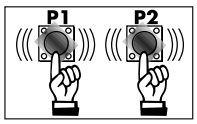
AND REVERSE THE MOTOR'S CABLES ON CLAMMPS 11-12

Programming the working time AUTOMATIC

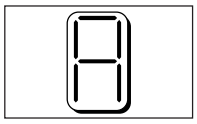
Automatic learning of working time with slow down

1. Power the control board.

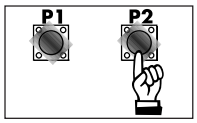
2. Press P1 and P2 simultaneously for three seconds to begin programming the board.



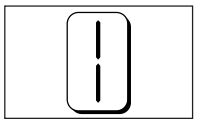
3. Letter A appear on the display.



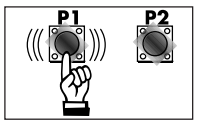
4. Press P2 to confirm.

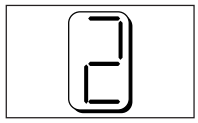


6. The number 1 appear on the display

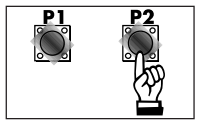


7. Scroll the menu with P1 up to number 2

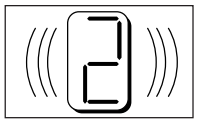


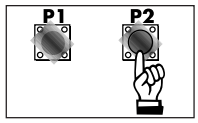


8. Press P2 to confirm.



9. The display start blinking. Press P2 to start programmation





10. Gate performs a slow opening movement

11. Gate performs a slow closing movement

12. Gate performs a complete opening movement

13. Gate performs a complete closing movement

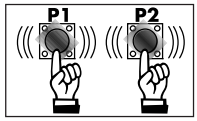
IF THE GATE START IN THE WRONG DIRECTION, REMOVE POWER SUPPLY, AND REVERSE THE MOTOR'S CABLES ON CLAMMPS 11-12

Setting the torque and lagging

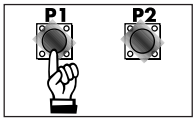
PARAMETER T1 - Torque setting for normal working phase

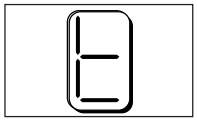
Values goes from 0 to 9 0 = maximum torque 9 = minimum torque

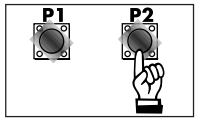
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



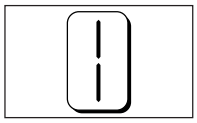
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.

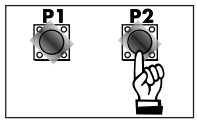




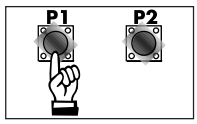


3. You should see 1 on the display. Press P2 to confirm.

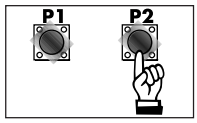




4. Select the torque from 0 to 9 with P1.



5. Press P2 to confirm.

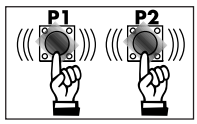


ATTENTION!!!!!! Always set and check the torque of the motor.
ATTENTION!!!!!! Every time that the force is modified it is necessary to do again the programming

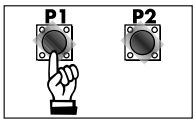
PARAMETER T2 - Torque setting for lagging phase

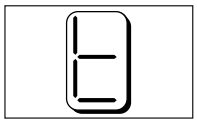
Values goes from 0 to 9 0 = maximum torque 9 = minimum torque

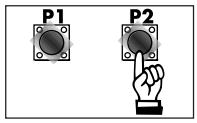
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



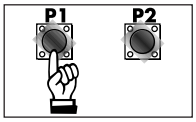
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.

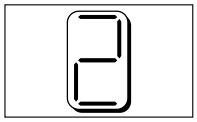


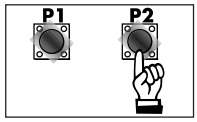




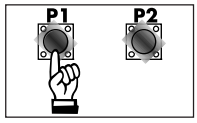
3. You should see 1 on the display. Scroll the values with P1 until 2 will appear on the display. Press P2 to confirm.



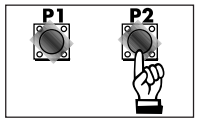




4. Select the torque from 0 to 9 with P1.



5. Press P2 to confirm.



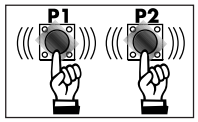
ATTENTION!!!!!! Always set and check the torque of the motor.
ATTENTION!!!!!! Every time that the force is modified it is necessary to do again the programming.

PARAMETER T3 – Extra time

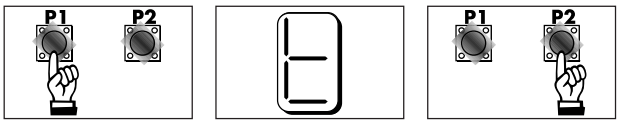
Values goes from 0 to 9
0 = 1 second of extra time
9 = 5,5 secons of extra time

Display	Seconds
0	1
1	1,5
2	2
3	2,5
4	3
5	3,5
6	4
7	4,5
8	5
9	5,5

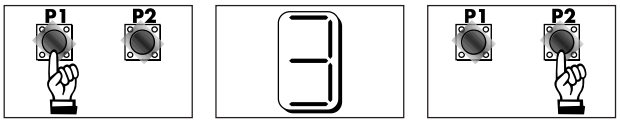
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



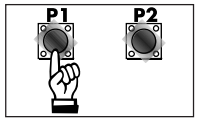
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.



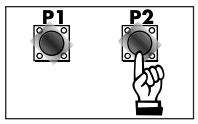
3. You should see 1 on the display. Scroll the values with P1 until 3 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).



5. Press P2 to confirm.



ATTENTION!!!!! The board has a factory setting 4,5 seconds of extra time.

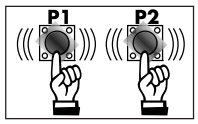
Setting of secondary parameters (not necessary for a standard installation)

PARAMETER T4 - Automatic closure of the gate from photocell impulse

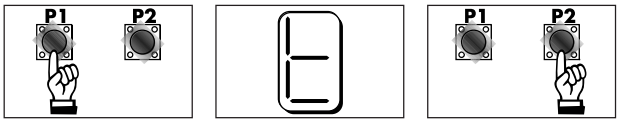
Values goes from 0 to 9
0 = function OFF
9 = closure after 27 seconds from the impulse

Display	Seconds
0	OFF
1	3
2	6
3	9
4	12
5	15
6	18
7	21
8	24
9	27

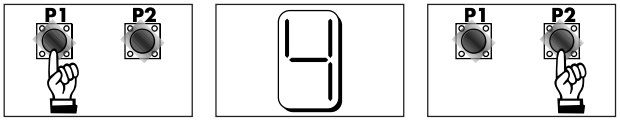
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



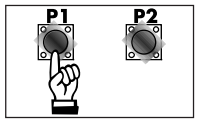
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.



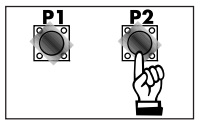
3. You should see 1 on the display. Scroll the values with P1 until 4 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).



5. Press P2 to confirm.



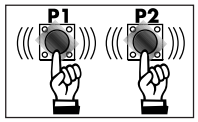
ATTENTION!!!!!! The control board has a default setting of 1 = 3 seconds.
ATTENTION!!!!!! If the automatic closure option T5 is turned off, the parameter T4 will be automatically disabled.

PARAMETER T5 - Timing for automatic closure

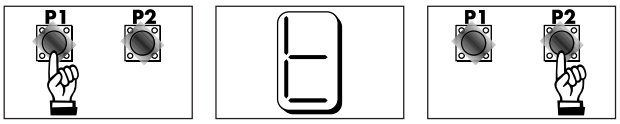
Values goes from 0 to 9
0 = function OFF
9 = closure after 240 seconds

Display	Seconds
0	OFF
1	10
2	20
3	30
4	45
5	60
6	90
7	120
8	180
9	240

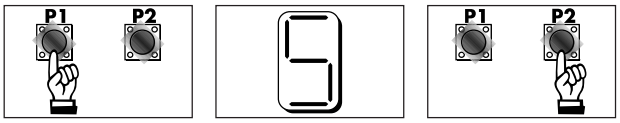
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



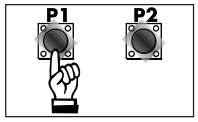
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.



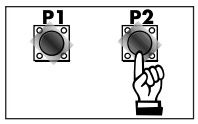
3. You should see 1 on the display. Scroll the values with P1 until 5 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).



5. Press P2 to confirm.



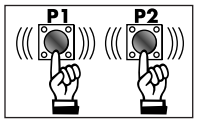
ATTENTION!!!!!! The control board has a default setting of 3 = 30 seconds.
ATTENTION!!!!!! This timing is valid also for the pedestrian opening.

PARAMETER T6 - Timing for courtesy light

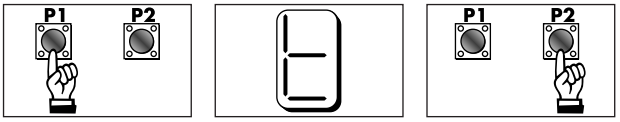
Values goes from 0 to 9
0 = open gate pilot light
9 = switching off after 4,5 minutes

Display	Seconds
0	open gate pilot light
1	30
2	60
3	90
4	120
5	150
6	180
7	210
8	240
9	270

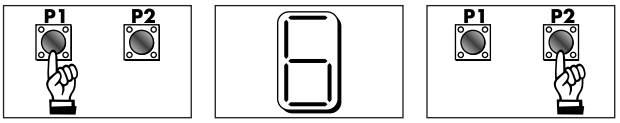
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



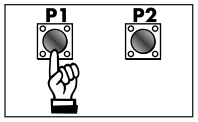
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.



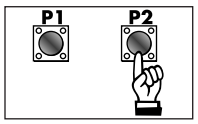
3. You should see 1 on the display. Scroll the values with P1 until 6 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).



5. Press P2 to confirm.



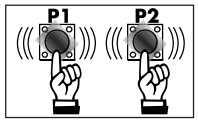
ATTENTION!!!!!! The control board has a default setting of 0 = open gate pilot light.
ATTENTION!!!!!! If the courtesy light will be operated with a remote control it will remain On until the next impulse from the remote control or until the gate will be closed or opened again.
ATTENTION!!!!!! If the value open gate pilot light will be selected it will not be possible to operate the courtesy light with the remote control.

PARAMETER T7 - Timing for pedestrian opening

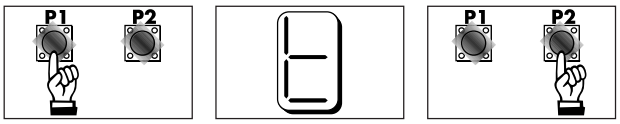
Values goes from 0 to 9
0 = function OFF
9 = opening of 18 seconds

Display	Seconds
0	OFF
1	2
2	4
3	6
4	8
5	10
6	12
7	14
8	16
9	18

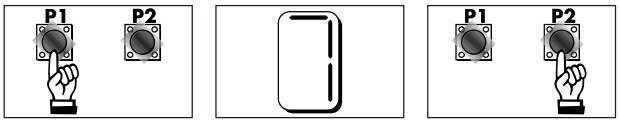
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



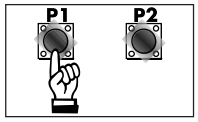
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.



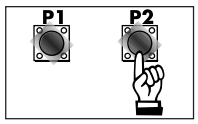
3. You should see 1 on the display. Scroll the values with P1 until 7 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).



5. Press P2 to confirm.



ATTENTION!!!!!! The control board has a default setting of 3 = 6 seconds.

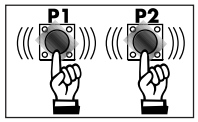
PARAMETER T8 Motor brake

The motor brake it is used to stop the movement of the gate after the intervention of a Stop command or limit switch command.

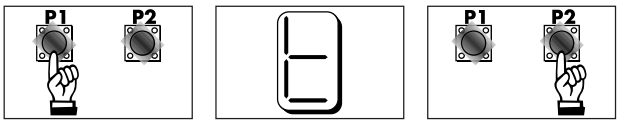
Value goes from 0 to 9
0 = brake OFF
1 = braking of 30ms
9 = braking of 270ms

Display	Milliseconds
0	OFF
1	30
2	60
3	90
4	120
5	150
6	180
7	210
8	240
9	270

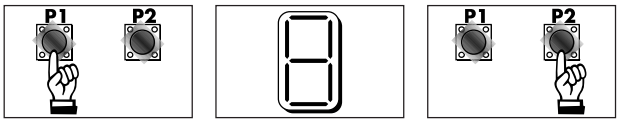
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



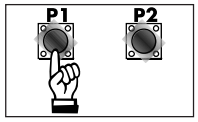
2. Letter A appear on the display. Scroll the menu with P1 until letter T appears on the display. Press P2 to confirm.



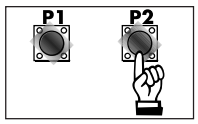
3. You should see 1 on the display. Scroll the values with P1 until 8 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).

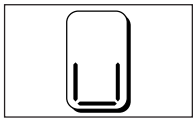


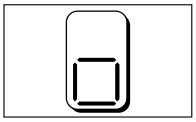
5. Press P2 to confirm.



ATTENTION!!!!!! The control board has a default setting of 1 = 50 milliseconds.

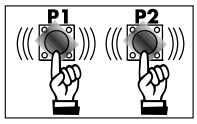
Setting the remote control codes

NEW REMOTE 

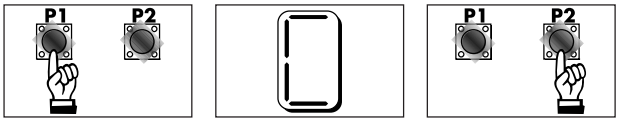
ALREADY IN MEMORY 

Parameter C1: step by step logic code (start/stop)

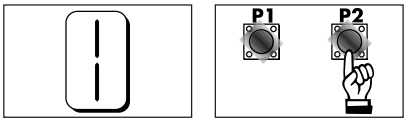
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



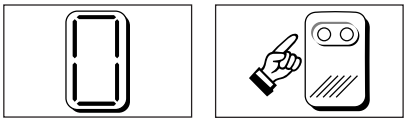
2. Letter A appear on the display. Scroll the menu with P1 until letter C appears on the display. Press P2 to confirm.



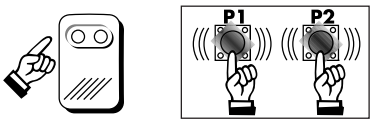
3. You should see 1 on the display. Press P2 to confirm.



4. You should see 0 on the display. Push the button on the remote to be learned.

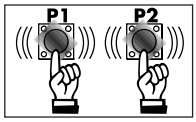


5. Add other remote controls or press P1+P2 to exit

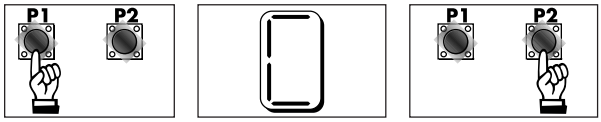


Parameter C2: non step by step logic code (open)

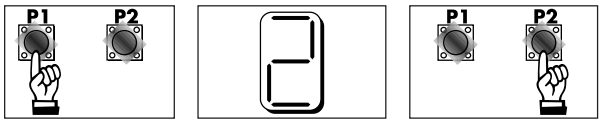
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



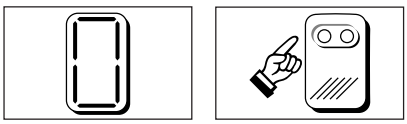
2. Letter A appear on the display. Scroll the menu with P1until letter C appears on the display. Press P2 to confirm.



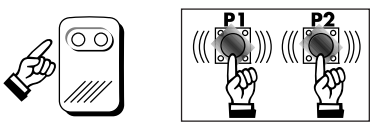
3. You should see 1 on the display. Scroll the values with P1 until 2 will appear on the display. Press P2 to confirm.



4. You should see 0 on the display. Push the button on the remote to be learned.

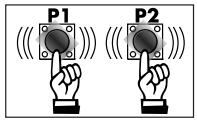


5. Add other remote controls or press P1+P2 to exit

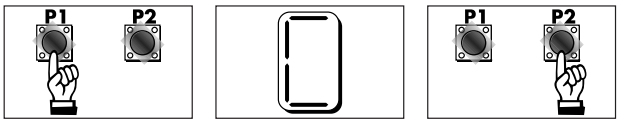


Parameter C3: pedestrian opening code

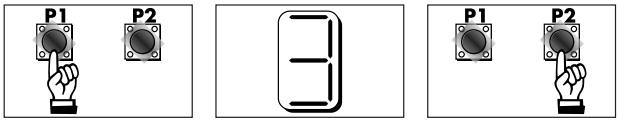
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



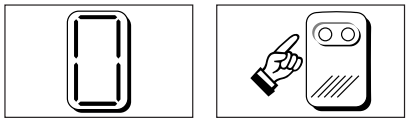
2. Letter A appear on the display. Scroll the menu with P1 until letter C appears on the display. Press P2 to confirm.



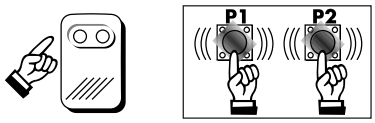
3. You should see 1 on the display. Scroll the values with P1 until 3 will appear on the display. Press P2 to confirm.



4. You should see 0 on the display. Push the button on the remote to be learned.

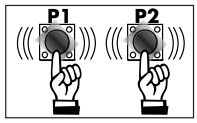


5. Add other remote controls or press P1+P2 to exit

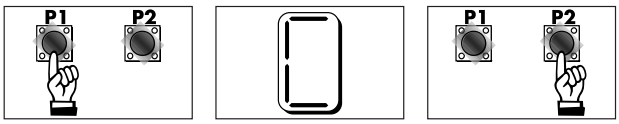


Parameter C4: courtesy light code

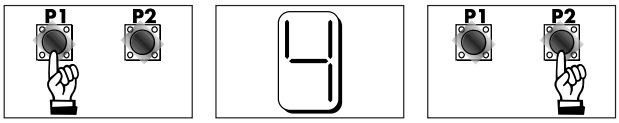
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



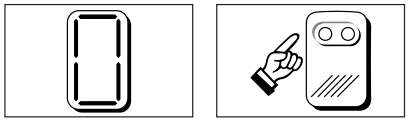
2. Letter A appear on the display. Scroll the menu with P1 until letter C appears on the display. Press P2 to confirm.



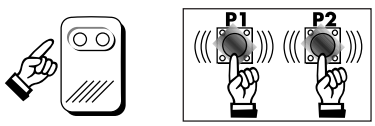
3. You should see 1 on the display. Scroll the values with P1 until 4 will appear on the display. Press P2 to confirm.



4. You should see 0 on the display. Push the button on the remote to be learned.

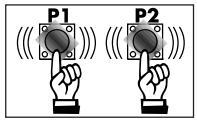


5. Add other remote controls or press P1+P2 to exit

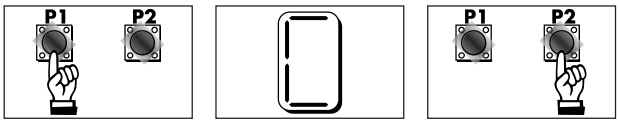


Parametro C5: cancellazione di tutti i codici telecomando

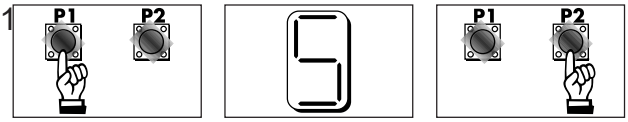
1. Portare la centralina in programmazione mediante la pressione contemporanea dei pulsanti P1 e P2 per circa 3 secondi.



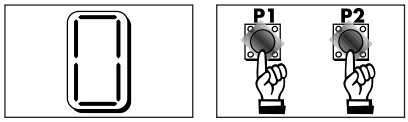
2. Scorrere il menù con P1 fino a visualizzare la lettera C. Premere P2 per confermare.



3. Il display visualizza il numero 1. Scorrere i valori con P1 fino a visualizzare il numero 5, quindi premere P2 per confermare.



4. Sul display compare uno 0. Ora premere i pulsanti P1 e P2 contemporaneamente fino all'uscita della programmazione.



5. I codici sono stati cancellati.

Attenzione!!!!! Questa operazione cancella tutti i codici presenti in memoria.

Addittional features

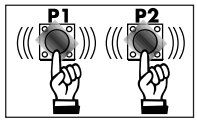
The additional features are not necessary for normal operations, but they are very useful in case of particular installations.

Parameter F1: E ncoder

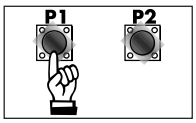
This parameter is used for ACTIVATE the encoder

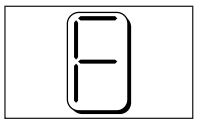
0 = DISABLED
1 = ENABLED

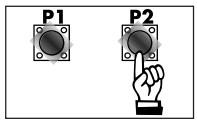
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



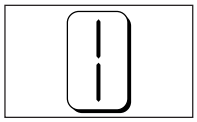
2. Letter A appear on the display. Scroll the menu with P1 until letter F appears on the display.
Press P2 to confirm.

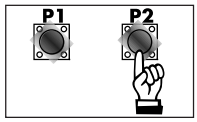




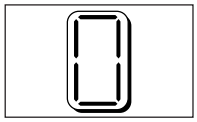


3. You should see 1 on the display.
Press P2 to confirm.

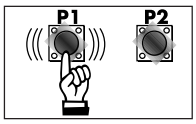


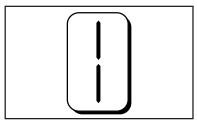


4. If you want to ELIMINATE encoder, scroll the menu up to 0 with Button P1

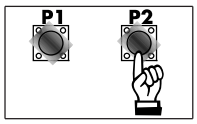


4, If you want to ACTIVATE the encoder, scroll the menu up to 1 with Button P1 l'encoder





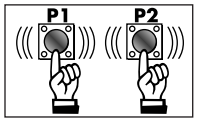
5, Confirm with P2



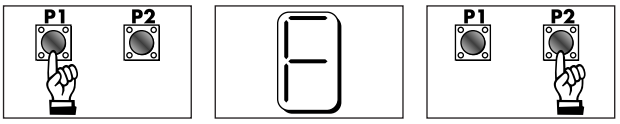
Parameter F2: pre-blinking

It is possible to enable or disable the pre-blinking in the opening and closing phase following the instruction listed below.
Values goes from 0 to 1
0 = pre-blinking OFF
1= pre-blinking ON

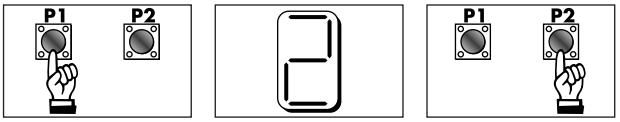
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



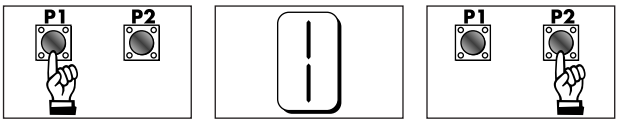
2. Letter A appear on the display. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.



3. You should see 1 on the display. Scroll the values with P1 until 2 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 1 with P1 and press P2 to confirm.

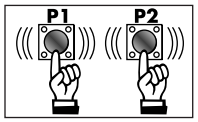


ATTENTION!!!!!! For security reasons the pre-blinking can be excluded only for the opening phase and not for the closing phase. The control board has a default setting of 0 = pre-blinking OFF.

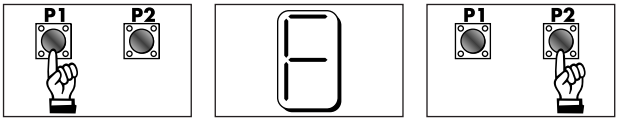
Parameter F3: enable the photocells also during the opening phase

Values goes from 0 to 1
0 = photocells enabled during the closing phase
1= photocells enabled during the closing and the opening phase

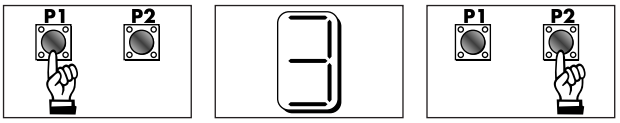
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



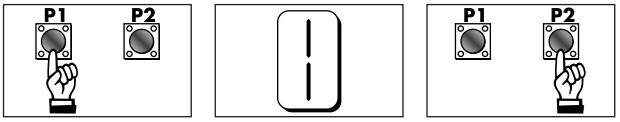
2. Letter A appear on the display. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.



3. You should see 1 on the display. Scroll the values with P1 until 3 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 1 with P1 and press P2 to confirm.

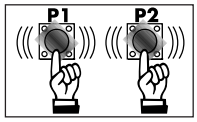


ATTENTION!!!!!! The control board has a default setting of 0 = photocells enabled during the closing phase.

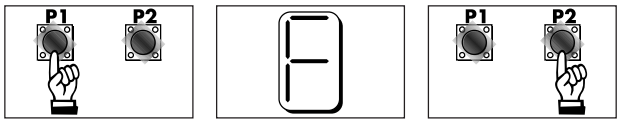
Parameter F4: PRESSURE SAFTEY DEVICE (NC), 8K2, 4K1

This parameter is used for pressure safety device., IT can be as NC, 8K2 or 4K1

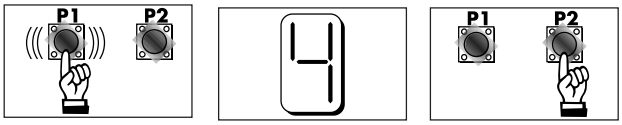
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



2. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.

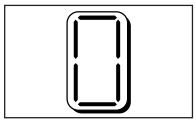


3, You should see 1 on the display. Scroll the values with P1 until 4 will appear on the display. Press P2 to confirm.



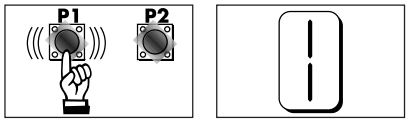
PRESSURE SAFTEY DEVICE (NC)

4. The display show 0.



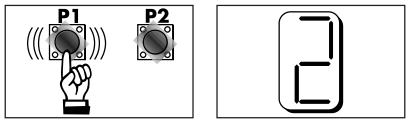
PRESSURE SAFTEY DEVICE (8K2)

4. Scroll with P1. The display show 1.

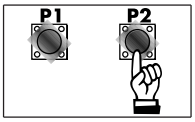


PRESSURE SAFTEY DEVICE (4K1)

4. Scroll with P1. The display show 2.



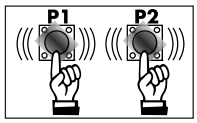
5. Confirm by pressing P2



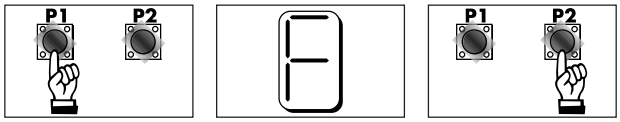
Parameter F5: START CONFIGURATION

0 = START \ PEDESTRIAN
1 = OPEN \ CLOSE
2 = START \ OPEN (CONDOMINIALE)
3 = OPEN \ CLOSE (MAN PRESENT)

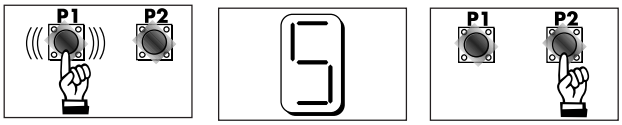
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



2. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.

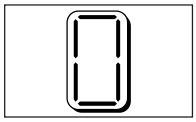


3, You should see 1 on the display. Scroll the values with P1 until 5 will appear on the display. Press P2 to confirm.



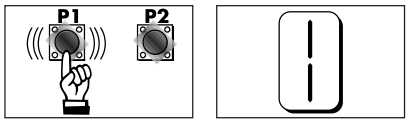
0. START – PEDESTRIAN OPEN

4. On the clamp 14-15 = START 14-16 = PEDESTRIAN OPENING



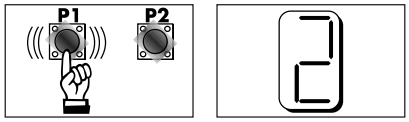
1. OPEN - CLOSE

4. Scroll with P1 up to nr. 1
On the clamp 14-15 = OPEN 14-16 = CLOSE



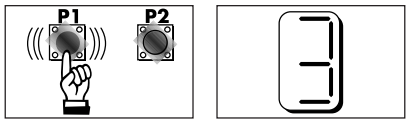
2. START \ OPEN (Only open)

4. Scroll with P1 up to nr. 2
On the clamp 14-15 = START \ STOP 14-16 = OPEN
14-15 is set for STEP by STEP
14/16 is set for ONLY OPEN COMMAND



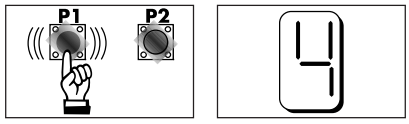
3. OPEN – CLOSE (MAN PRESENT)

4. Scroll with P1 up to nr. 3
14-15 = OPEN 14-16 = CLOSE
The buttons OPEN\CLOSE must be pressed until reaching the open\close limit switch

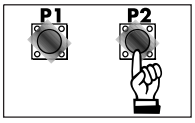


4. OPEN – CLOSE (TIMER \ CLOCK)

14-15 = OPEN 14-16 = CLOSE
On te input OPEN, it is possible to connect a timer\clock. Until the input is close from the timer, the gate is open and flashingh light is off. When the contact has been released, the gate start closing after the pre-set automatic closing time.



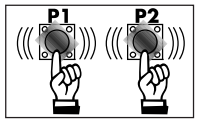
5. Confirm by pressing button P2.



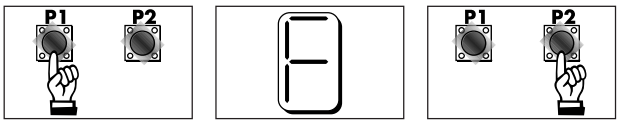
Parameter F6: reset of the control board

This function will reset all parameters to default settings without deleting the remote controls codes.

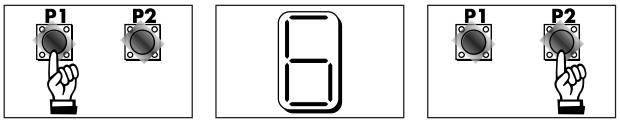
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



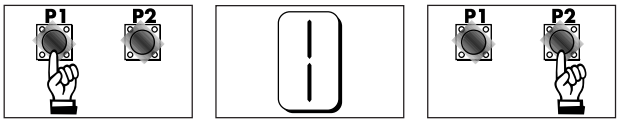
2. Letter A appear on the display. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.



3. You should see 1 on the display. Scroll the values with P1 until 6 will appear on the display. Press P2 to confirm.



4. Select the value 1 with P1 and press P2 to confirm the reset.



ATTENTION!!!!!! This operation will not delete the remote control codes.

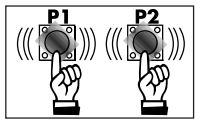
Parameter F7: SECURITY TEST

The control unit has a self-test function of the safeties connected to the “FTC” input of the control unit; it switches off the transmitter to check the commutation of the corresponding receiver contact before the execution of each manoeuvre.

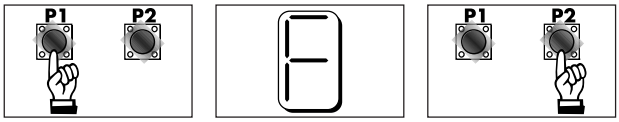
In case of pressure safety device type 8K2 o 4K1 also tha input is tested before each movement

0 = DISABLED 1 = ENABLED

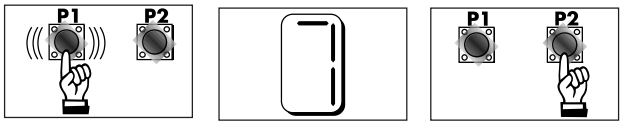
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



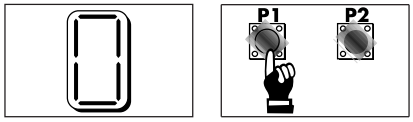
2. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.



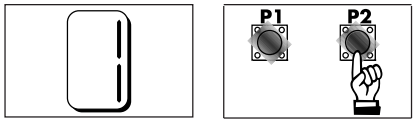
3, You should see 1 on the display. Scroll the values with P1 until 7 will appear on the display. Press P2 to confirm.



4, You should see 0 on the display. Scroll the values with P1 until 1 will appear on the display. Press P2 to confirm.

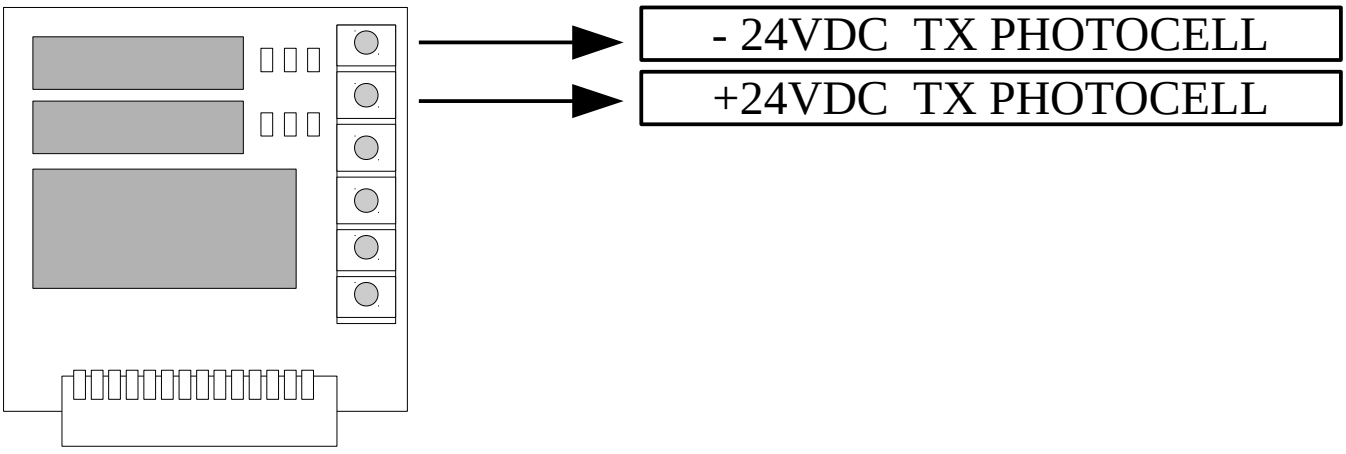


5. Confirm by pressing P2



IT IS NECESSARY TO INSTALL EXTERNAL BOARD

ACCESSORIES BOARD



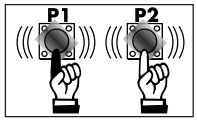
Parameter F8: OBSTACLE DETENCTION

This parameter is used to adjust at the same time the delay time of intervention after an obstacle has been detected and the threshold of the counter-force against the operator necessary to trigger the intervention.

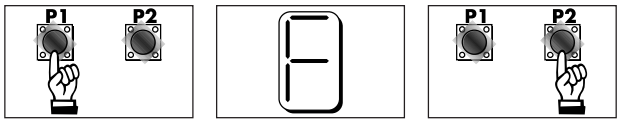
Display	SecondS
0	0,5
1	0,65
2	0,80
3	1
4	1,15
5	1,30
6	1,45
7	1,60
8	1,75
9	2,0

1. Press P1 and P2 simultaneously for three seconds to begin programming the board.

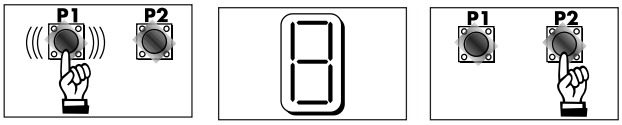
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



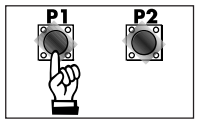
2. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.



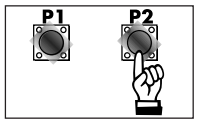
3. 3, You should see 1 on the display. Scroll the values with P1 until 8 will appear on the display. Press P2 to confirm.



4. Select the value from 0 to 9 with P1 (SEE THE CHART).



5. Press P2 to confirm



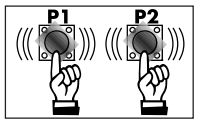
DEFAULT VALUE: 1,30 SECONDI

Parametro F9: LIMIT SWITCH

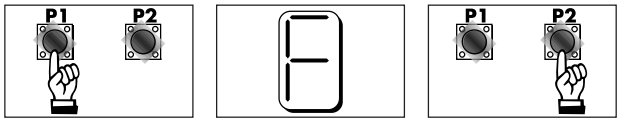
This parameter is used for selecting the type of limit switch

0 = MAGNETICAL 1 = MECHANICAL

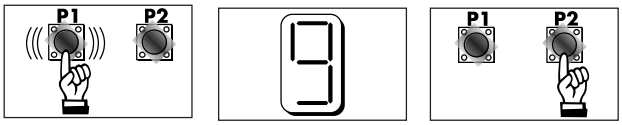
1. Press P1 and P2 simultaneously for three seconds to begin programming the board.



2. Scroll the menu with P1 until letter F appears on the display. Press P2 to confirm.

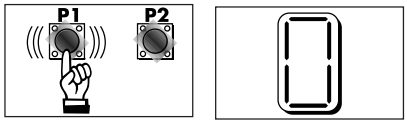


3. You should see 1 on the display. Scroll the values with P1 until 9 will appear on the display. Press P2 to confirm.



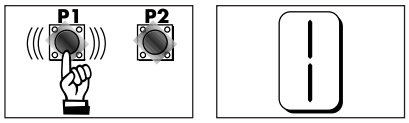
MAGNETIC LIMIT SWITCH

4. Scroll with P1 up to nr. 0

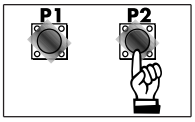


MECHANICAL LIMIT SWITCH

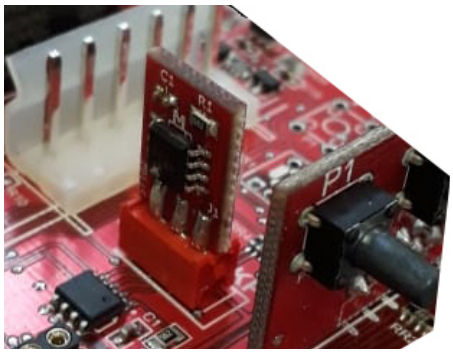
4. Scroll with P1 up to nr. 1



5. Press P2 to confirm



BACKUP MEMORY



Inside there are all remote controls code and working time.
Everytime one new remote control is memorized, automatically it is transfered to the backup memory

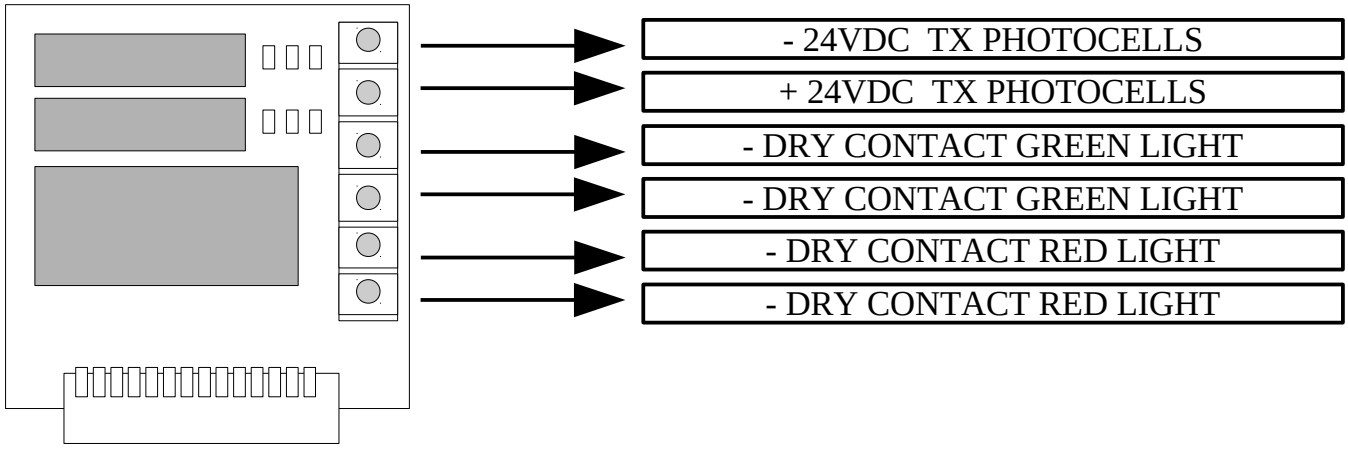
TRANSFER ALL DATA FROM THE BACKUP MEMORY
. Remove power supply
. Insert backup memory
. Give power to the board
. When all the leds are off, press and keep pressed the button P1 for 5 sec. Automatically the board check the memory and trasnfers the contents

LIGHTS CONTROL BOARD

GREEN\RED LIGHTS ARE FOR TRAFFIC LIGHT.
THESE CONTACTS ARE NOT POWERED

MAX 5A 230V

IT IS ALSO USED FOR SECURITY TEST
PAG. 24



LED

LED 3 STATUS LED
- is turned off during normal control unit operations
- is alight (fixed light) when the control unit is blocked because it has failed the safety test or a motor is disconnected

LED 2 LED RADIO
- flashes briefly when a 433 MHz radio code is received
- is alight (fixed light) when radio codes are being memorised

LED 1 SET LED
- flashes for 5 seconds when turned on to indicate that it is possible to enter the Professional or Simplified Learning modes.
- lights up with a fixed light while Professional or Simplified Learning are carried out.
- is turned off when the control unit functions normally.

TROUBLESHOOTING

The operator neither opens nor closes	. Check power supply and fuse . There is no power . The gearmotor is in release mode and the release door is open . The transmitter's batteries are run down . The transmitter is broken . The stop button is either stuck or broken . The opening/closing button or the key selector are stuck . Check safety test parameter F7
The operator opens but not closes	Check the safety device NC (photocells, stop, safety edge). Put a look on the LED indicator near the clamp. If it's OFF try to make a bridge and test the operator again
The operator does not carry out the automatic closing	Check the safety device NC (photocells, stop, safety edge). Put a look on the LED indicator on the clamp. If it's OFF try to make a bridge and test the operator again
You can't memorise the remote control	Memory is full. Erase completely the memory and try to memorise again the remote
The gate closes but will not open	Safety edge triggered
The flashing light does not work	Check the bulb and the clip inside
The motor continues to work even after the passage on the limit switch	Check the correct operation of limit switches and do again the programmation.

WARNINGS!!!

OUR COMPANY, AS MANUFACTURER, CAN NOT BE HELD RESPONSIBLE FOR DAMAGES DUE TO WRONG OR MISSING CONN ECTIONS OR DUE TO AN IMPROPER SETTING.

THE SAFETY DEVICES SHOULD BE ALWAYS INSTALLED AND KEPT IN FULL WORKING ORDER.

ONCE TERMINATED THE SYSTEM SETTING, YOU SHOULD PLACE BACK THE CONTAINER ON ITS POSITION, FASTENING TIGHT ITS SCREWS.

OUR COMPANY, AS MANUFACTURER, CAN NOT BE HELD RESPONSIBLE FOR DAMAGES DUE TO IMPROPER USE OF THE DOOR/GATE.

IT IS FORBIDDEN TO REPLACE ANY ELECTRIC, ELECTRONIC OR MECHANIC PART WITH NOT ORIGINAL OUR COMPANY SPARE PARTS.

OUR COMPANY, HAS THE RIGHT TO MODIFY OR CHANGE THE ELECTRONIC BOARDS AND MANUALS, WITHOUT PRIOR NOTICE.

ALWAYS REGULATE ACCURATELY THE TORQUE OF THE MOTORS. AN INCORRECT SETTING OF THE TORQUE, MAY CAUSE DAMAGE TO PEOPLE, ANIMALS OR OBJECTS.

WARRANTY:

Our company devices and accessories are for a period 24 months after production, whose date is printed on each item. Our company will replace or repair its devices, provided that they are returned to our plant. In order to check the actual functioning of the returned pieces, they will remain the property of the manufacturer. The warranty does not include demages due to any incorrect use, such as: non-fulfilment of the instruction detailed for each device, maintenance and repairing carried out without the previous written consent of our company. Moreover, warranty does not cover any damage due to wrong tension supply and any other reason for which the manufacturer cannot be made responsible. Any device returned must be delivered to our company with carriage paid and will be sent back with freight collect. Warranty validity ceases in case of the customer's non-fulfilment of payment. Each device by our company meets the safety regulations in force (UNI 8612). Our company declines all responsibility for the non-observance of the safety rules by part of the installer.

In order to reduce the time spent for repairing, all faulty materials sent back to us must be accompanied by the installer's comment about the piece.

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