



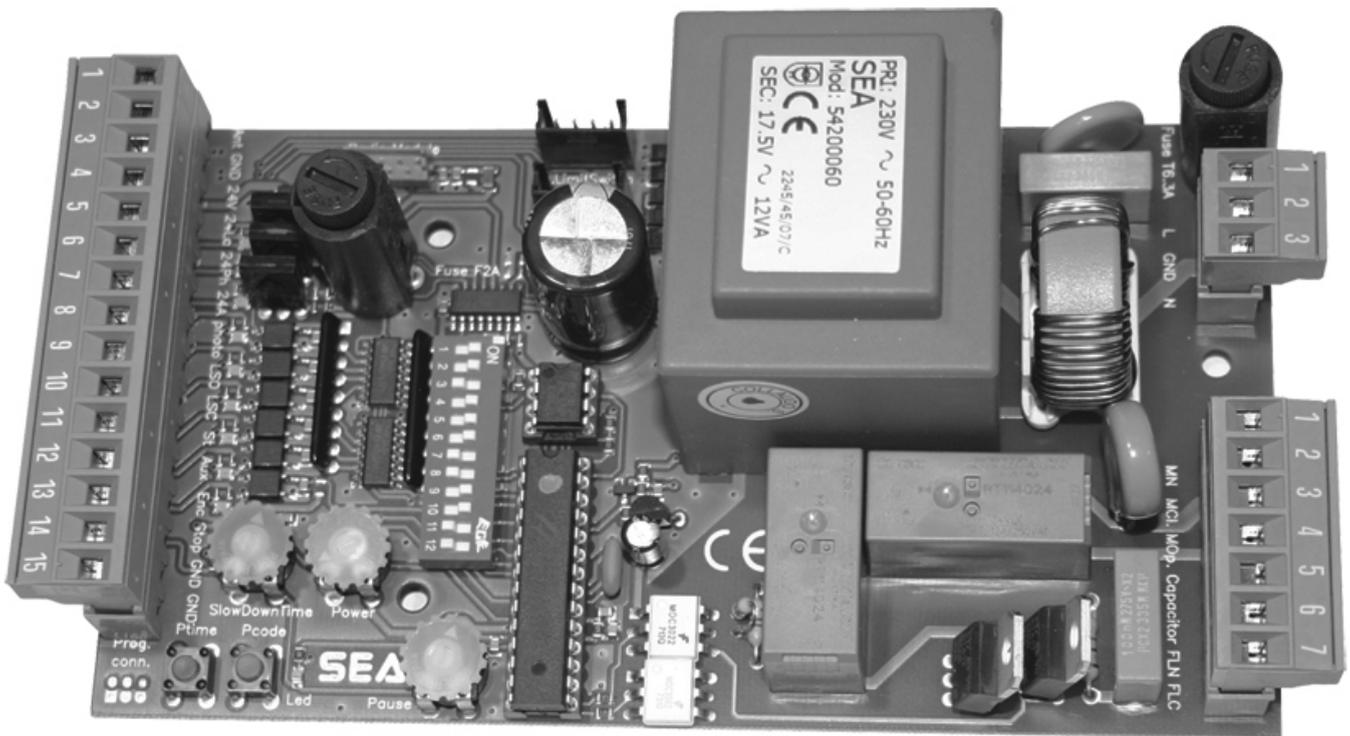
SEA[®]
Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 804888



English

GATE 1

(cod. 23001120)



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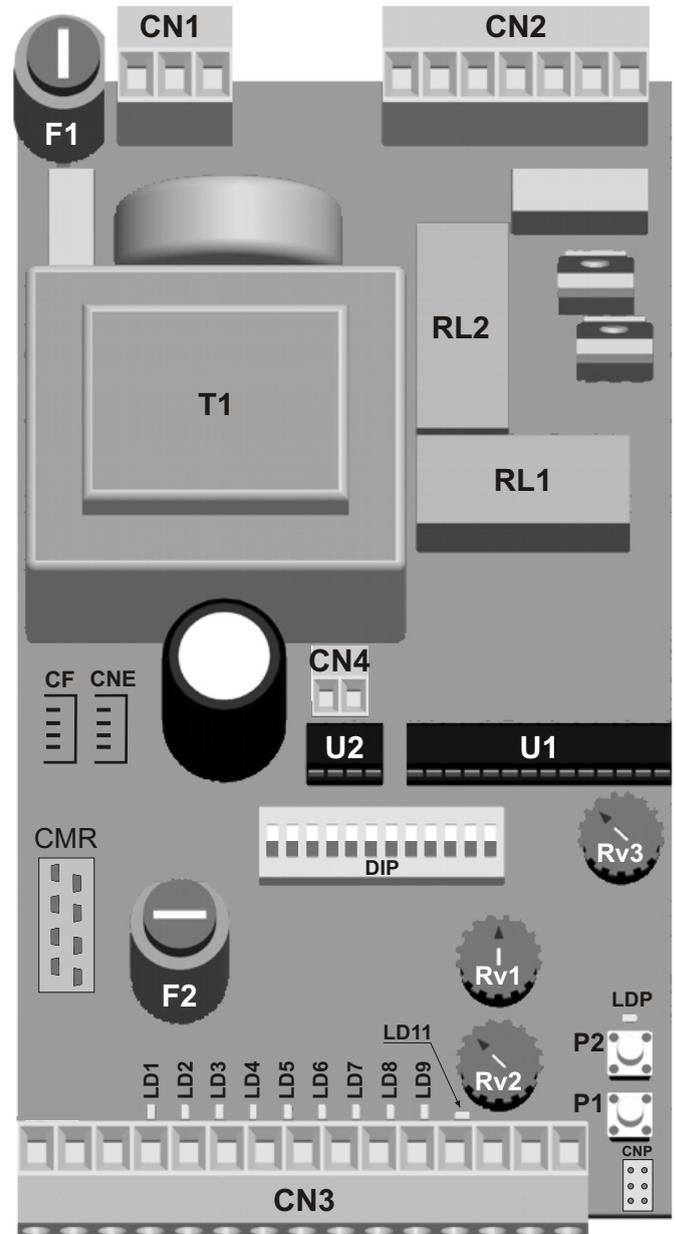
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TECHNICAL DATA

GATE 1 CONTROL UNIT

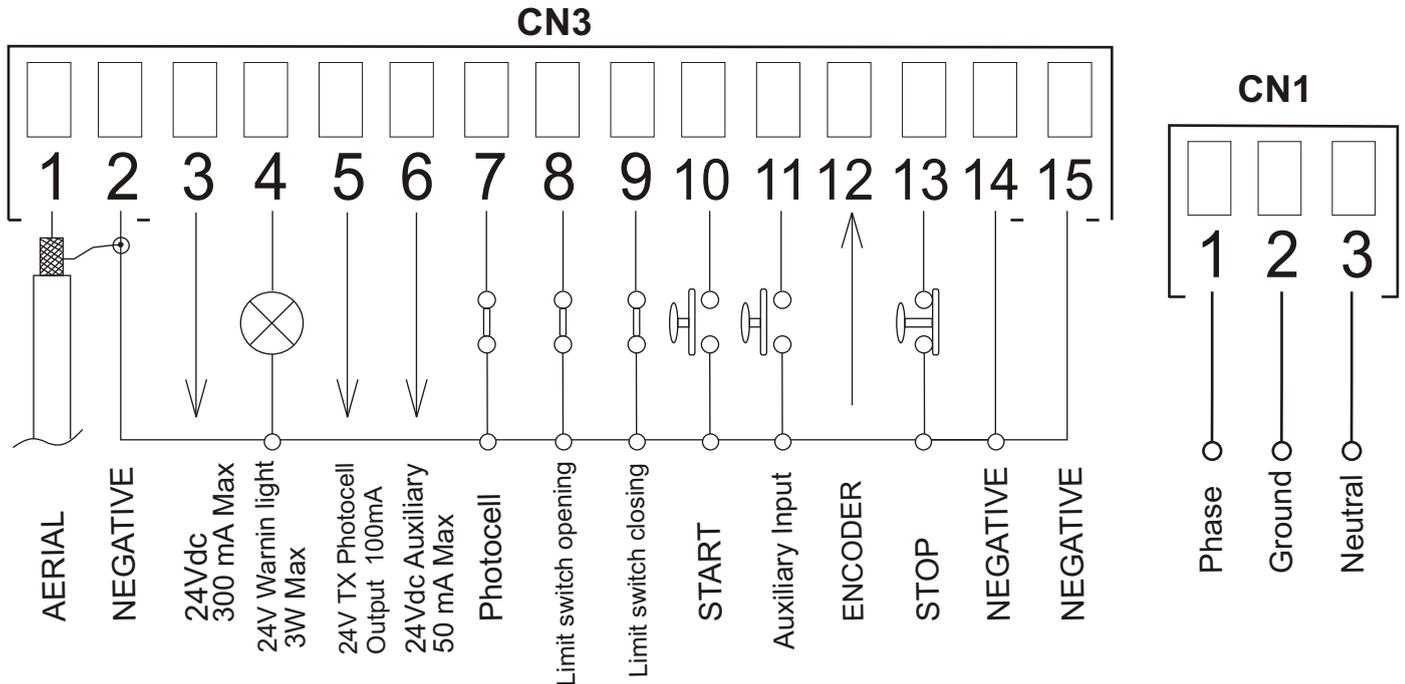
Automatic Logic
Manual Logic
Safety Logic
Automatic Logic 1
Automatic Logic 2
Partial start
Photocell management in opening
Timer control
Pre-flashing
Warning light
Pause time adjusting
Encoder administration with inversion on obstacles
Warning lamp
Motor torque regulation
Limit switch control
Slow down adjustment and administration
Adjustment leaf delay in opening and closing
Photocells auto-testing



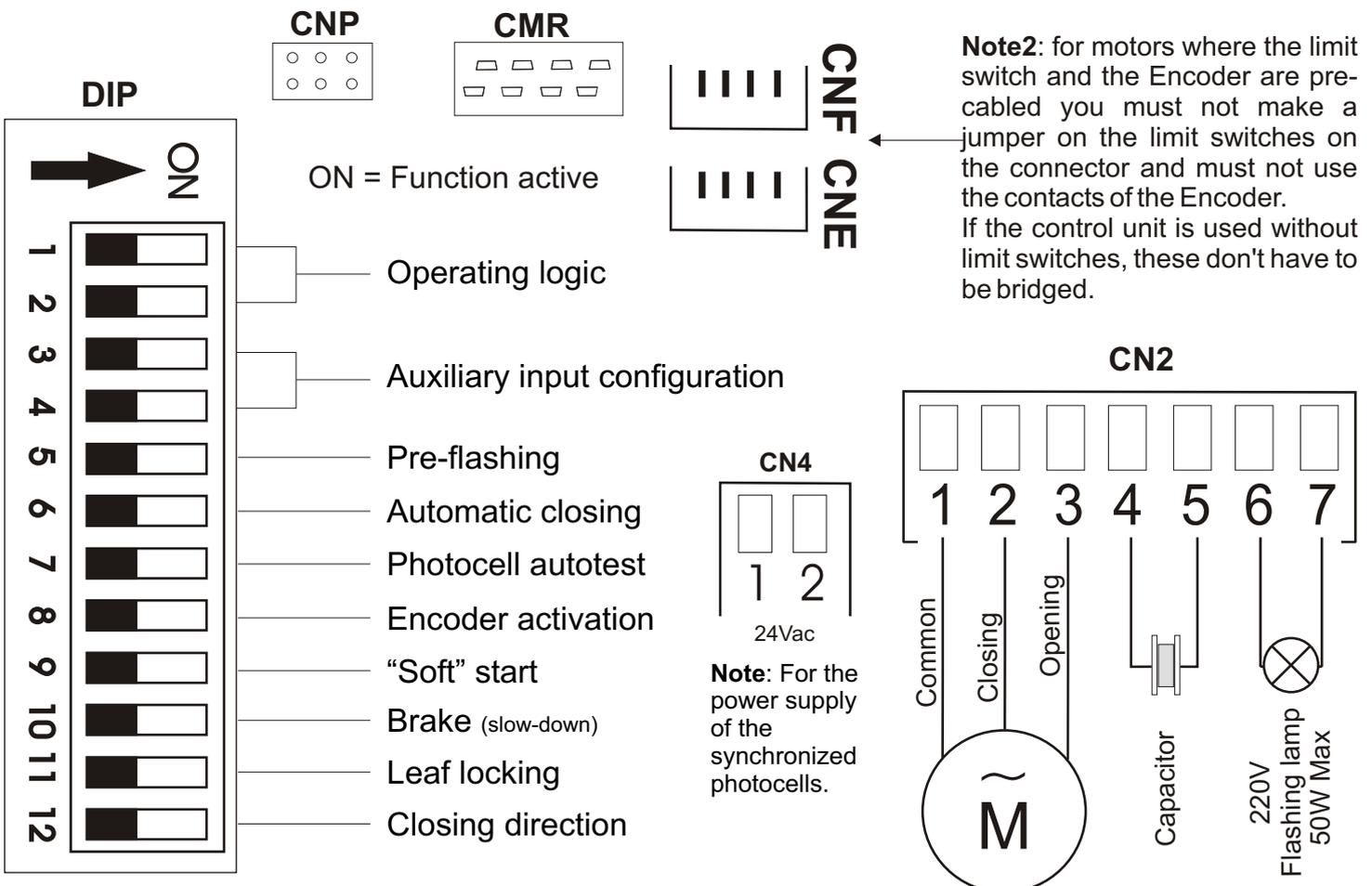
- LD1** = Warning light
- LD2** = TX Photocell power supply
- LD3** = 24V Auxiliary
- LD4** = Photocell
- LD5** = Limit switch in opening
- LD6** = Limit switch in closing
- LD7** = Start
- LD8** = Auxiliary input
- LD9** = Encoder
- LDP** = Programming
- LD11** = Stop
- CN1** = 230V power supply connector
- CN2** = Motor and Flashing lamp connector
- CN3** = 24V input / output connector
- CN4** = 24Vac Photosync connector
- CNP** = PALM connector

- Rv1** = Trimmer torque adjustment
- Rv2** = Trimmer slow down duration adjustment
- Rv3** = Trimmer regolazione pausa
- P1** = Pushbutton time selflearning
- P2** = Pushbutton radio control learning
- DIP** = Dip-switch Function Setting
- F1** = Output and motor fuse (6,3 AT)
- F2** = Accessories fuse (1 A)
- T1** = Transformer
- RL1** = Motor Power Supply Relay
- RL2** = Motor Operating Direction Relay
- U1** = Micro-controller
- U2** = EEPROM memory
- CMR** = Receiver module connector
- CF** = Limit switch connector
- CNE** = Encoder connector

CONNECTIONS



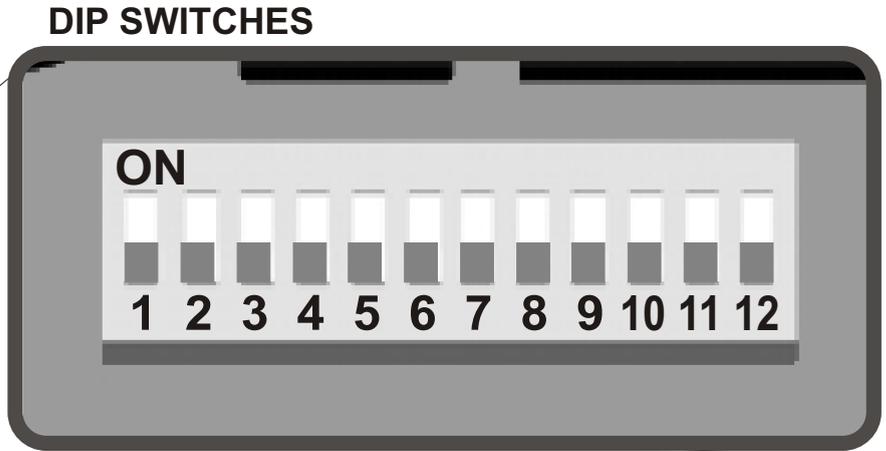
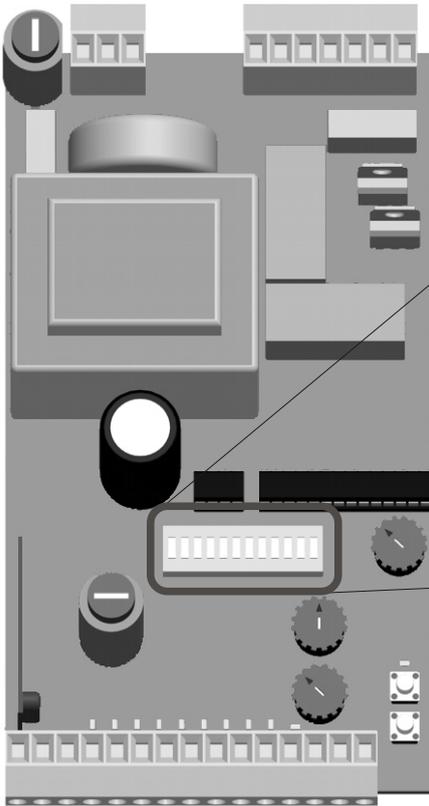
Note1: The 24VdcAux output delivers a auxiliar 24 Vdc power supply during the whole movement of the gate and during the pause when in automatic logic, while in semiautomatic logic only during the gate movement. On this output it is possible to connect a relay with 24V dc spool for the activation of a contact for generic use.



Note3: On the 24V Ph output it is possible to connect a relay for the timed activation of a courtesy light (see pag. 31)



DIP SWITCHES, LOGIC PROGRAM



WORKING LOGICS

Four different working logics can be selected.
The programming takes place using DIP1 and DIP2.

➔ **MANUAL LOGIC**

1  A START command opens the gate, a second START while it is opening stops the motor, a further start impulse closes.
2  With closed gate a start closes again, a START command while it is closing stops the motor, a further start opens again.
P. N.: For automatic closing, set DIP SWITCH 6 to the ON position.

SAFETY LOGIC

1  A START command opens the gate. A second START while it is opening reverses the motor. With open gate a start closes the gate again, a START command while it is closing reverses the motor.

AUTOMATIC LOGIC 1

1  A START command opens the gate. A second START while it is opening is not accepted. A start in pause is not accepted, at the end of the pause the gate closes, a START while it is closing reverses the direction.
P. N.: For automatic closing, set DIP SWITCH 6 to the ON position.
P. N.: When not activated the dip 6 (automatic re-closing) the start impulse during the pause is accepted.

AUTOMATIC LOGIC 2

1  A START command opens the gate. A second START is not accepted. A START during the pause time closes the gate immediately. A START while it is closing reverses the direction.
P. N.: for automatic closing, set DIP SWITCH 6 to the ON position.

DIP		DIP1 AND DIP2 PROGRAMMING FOR THE SELECTION OF THE WORKING LOGIC
1 / 2	OFF / OFF	If Dip1 and Dip2 are programmed in this way, the control unit will work with Manual Logic
1 / 2	ON / OFF	If Dip1 and Dip2 are programmed in this way, the control unit will work with Safety Logic
1 / 2	OFF / ON	If Dip1 and Dip2 are programmed in this way, the control unit will work with Automatic 1 Logic
1 / 2	ON / ON	If Dip1 and Dip2 are programmed in this way, the control unit will work with Automatic 2 Logic



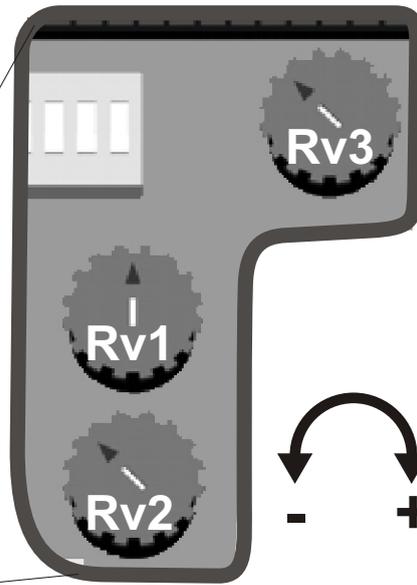
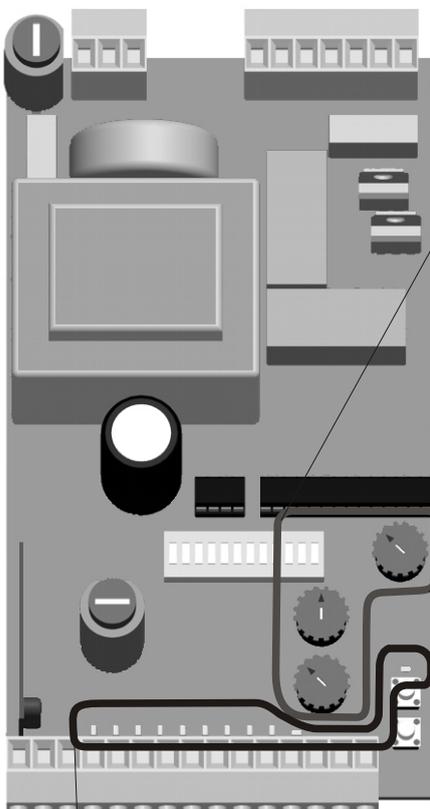
DIP ADJUSTMENT OTHER FUNCTIONS

DIP	OPENED	DIP 3 AND DIP 4 PROGRAMMING FOR AUXILIARY INPUT CONFIGURATION
	CLOSED	
3 / 4	OFF / OFF	SAFETY EDGE (N.C. contact) With dip 3 and dip 4 on OFF the AUX input is activated and works as security edge. When the security edge is connected to the AUX input, and the contact of the edge opens, the gate reverses the motor about 1 sec. A START command is required to restart movement
3 / 4	ON / OFF	TIMER (N.O. contact) If a TIMER is connected to this input, it is possible to open the gate and hold it open for as long as the contact remains closed. Using a 24 hour or a 7 day timer, openings time can be scheduled exactly as required. When the TIMER contact is open the motor operates following the operating logics previously set. Do not use this configuration (active) when not connected to a Timer.
3 / 4	OFF / ON	AUXILIARY PHOTOCELL (N.C. contact) The intervention of this Photocell contact stops the operator until the obstacle is removed. If it's verified while the gate is opening, movement resumes in the same direction; if it's verified while closing, the direction is reversed. With PALM device it can work as FOTOSTOP, or if occupied it prevents the gate to open and for the remaining opening it doesn't intervene.
3 / 4	ON / ON	PARTIAL OPENING (N.O. contact) On this command, the gate opens partially, for about 10 seconds. The opening time can be changed through the PALM device.

DIP	OPENED	PROGRAMMING OF OTHER DIPS FOR OTHER FUNCTIONS
	CLOSED	
5	ON	PRE-FLASHING When this function is activated, the flashing lamp and warning light begin flashing about 3 seconds before the motor starts opening, whether in opening or closing.
6	ON	AUTOMATIC CLOSING When activated, the motor automatically closes the gate after the PAUSE time set by trimmer Rv3. This function can be activated independently from the operating logic set. (DIP SWITCH 1 & 2).
7	ON	PHOTOCELL AUTOTEST When this function is activated, a test on the photocells is carried out prior to any movement of the gate. In order to use this function, the transmitting photocells must be connected to terminals 5 (24V) and 2 (Negative) on the CN3 connector. In the event of a malfunctioning, the flashing lamp and warning light will both flash slowly. It is possible to connect a relay to this exit for the courtesy lamp administration.
8	ON	ENCODER MANAGEMENT (REVERSING SENSOR) Setting dip 8 on ON the inversion on obstacle with Encoder is activated. Such sensor, in case of obstacle, reverses the motion for about one second, stops and waits for new commands. In the event of a malfunctioning, the flashing lamp and warning light will both flash slowly. On the following start the automation will open or close slowly up to the attainment of one of the stops. P.N: if no ENCODER is installed, set DIP 8 on OFF. The Encoder sensitivity is adjustable through the PALM device or through the pushbuttons Ptime and Pcode on board of the control unit.
9	ON	"SOFT" START When activated, the motor will start at a lower torque level, to avoid stresses and strains on the mechanical components of the gate. The starting torque is a percentage of the normal operating torque. P.N.: When the gate is very heavy or does not run smoothly, it is advised NOT TO activate this function.
10	ON	BRAKING (slow-down) AT LIMIT SWITCH When activated, the motor speed is reduced before reaching the limit switch or the end of the operating time. The purpose of this function is to bring the leaf gently towards the stop position to avoid a noisy collision. The closing speed is fixed, but the slow-down time is adjustable, using the Rv2 trimmer.
11	ON	LEAF LOCKING When activated, after slowing down, and when the leaf has reached the mechanical stop, for about 1 second the motor is supplied at the maximum power. This increases the oil pressure in the motor, making the hydraulic lock more effective. In case of use of the automation, the function (when activated) will be repeated in intervals of one hour more or less. IMPORTANT NOTE: ! This function SHOULD NOT be activated when used on sliding gates, as it can cause the gate over-running of the limit switches and the motor jamming • Note2: With the Palm through the function PushOpen it is possible to exclude the tightening of the leaf during the opening phase.
12	ON	CLOSING DIRECTION This function allows to define the gate closing direction without reversing the Motor wiring connections and the Limit Switch contacts. Note: do not activate this Dip when the motor is working.



TRIMMER REGULATION, LEDS

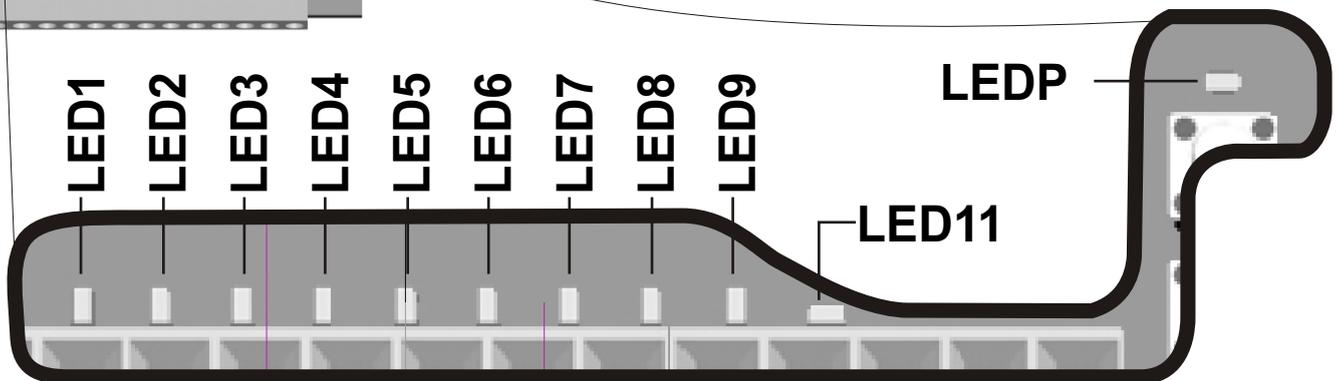


P.N.: TIMES AND VALUES ARE INCREASED BY ROTATING THE TRIMMERS CLOCKWISE

**Rv1
OPERATING TORQUE ADJUSTMENT**
This Trimmer allows to adjust the motor torque. This adjustment is needed for operators without mechanical or hydraulic anti-crush safety devices. Regulation should be carried out to avoid any risks of crushing either people or objects and, in any case, compliant with current legislation on the subject.

**Rv2
BRAKE (slow-down) LENGTH ADJUSTMENT**
This Trimmer allows to adjust the length of the slow-down

**Rv3
PAUSE LENGTH ADJUSTMENT**
This Trimmer allows the adjustment of the PAUSE time between 0 and 120 seconds. Set DIP SWITCH 6 to the ON position to enable automatic closing.



LED1 (TROUBLESHOOTING LED)

This led follows the flashing logic of the control lamp including the alarms' signalisation.

LED2 (TX PHOTOCELL POWER SUPPLY)

LED3 (24V AUX POWER SUPPLY)

LED4 (PHOTOCELL): When the photocell is occupied the led is switched off

LED5 and LED6 (OPENING LIMIT SWITCH) / (CLOSING LIMIT SWITCH): Switched off leds means that the limit switch is occupied

LED8 (AUX INPUT)

LED9 (ENCODER)

LEDP (PROGRAMMING)

LED11 (STOP): When connected the led is switched on

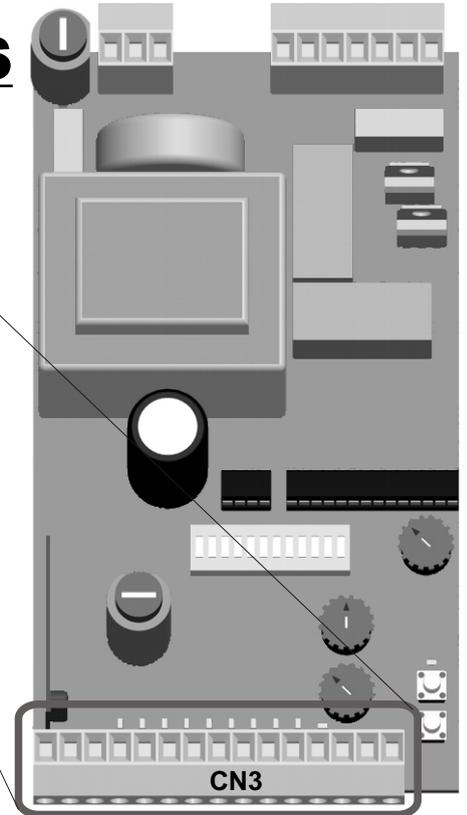
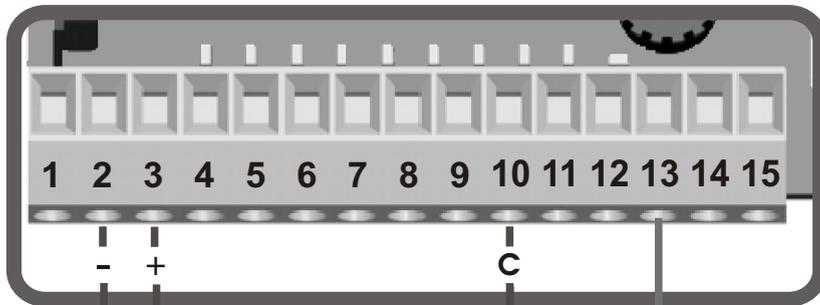
ALARM INDICATION BOARD ON CONTROL UNITS GATE

The sequence of lightning, intervals of pause, are shown on the flashlight (for ca. 20 sec.) and on the control lamp (until a new START).

Number of lightning	Type of alarm	Number of lightning	Type of alarm
1	Photocell	4	Stop
2	Safety edge	5	Photocell self-testing
3	Encoder	6	Triac test



RADIO RECEIVER, STOP BUTTON, START BUTTON CONNECTIONS



Connection of a radio receiver

Allows to connect an external receiver and to bettern the range of the radio transmitter. For the receiver connection make reference to the related instruction manual.

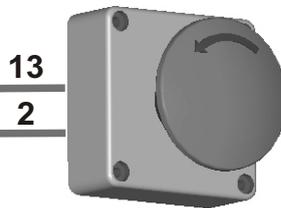
+ = 24Vdc,
- = 0Vdc,
C = Contact
Com = Common



Stop Button

The pressure of this button stops the automation in whatever condition it can be it needs a start command (sempre in richiusura) to re-establish the movement

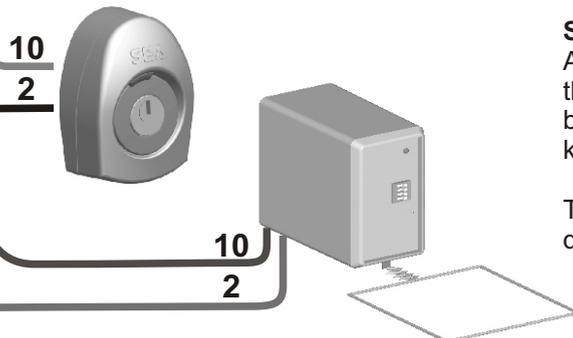
Notice: if it is not used, make a link between terminals n.13 and 14.



Start Button

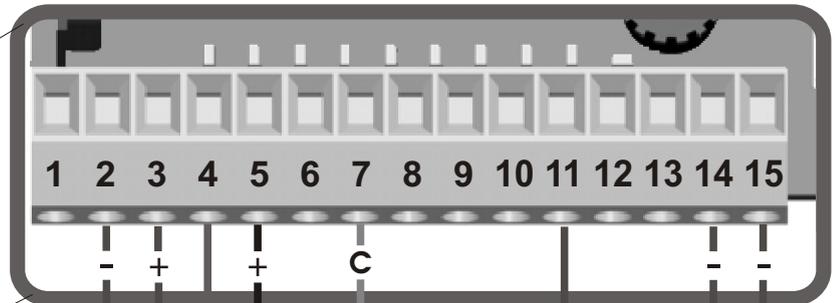
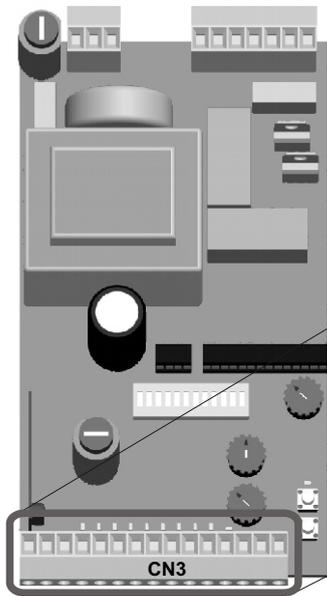
An impulse given to this entrance commands the opening/closing of the automation. It can be given by a key switch, a loop detector, a keyboard controller, etc.

To connect the supplied devices (for ex. Loop detector) see the related instructions.





PHOTOCELLS, BUZZER, ACCESSORIES ON AUX ENTRY



Photocells Connection

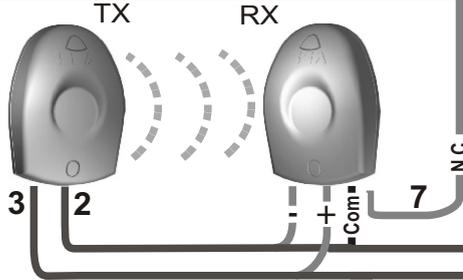
When the photocells beam is crossed, the automation reverses its movement if in closing phase.

To use photocell self-testing, connect positive (+) to terminal 5 instead of 3.

Notice: if it is not used, make a connection between terminals 7 and 14.

+ = 24Vdc - = 0Vdc C = Contact

Com = Common



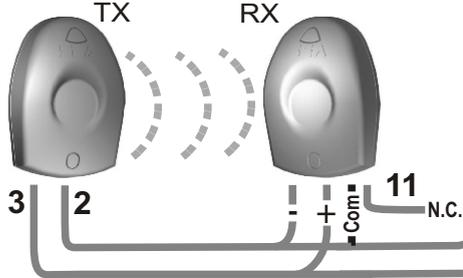
Photocells Connection AUX (DIP 3 OFF DIP 4 ON)

The intervention of this Photocell contact stops the operator until the obstacle is removed. If it's verified while the gate is opening, movement resumes in the same direction; if it's verified while closing, the direction is reversed.

With PALM device it can work as FOTOSTOP, or if occupied it prevents the gate to open and for the remaining opening it doesn't intervene.

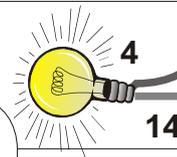
Notice: if it is not used, make a connection between terminals 11 and 14

+ = 24Vdc - = 0Vdc C = Contact Com = Common



Security light

The connection of the 24V security light allows to follow the function of the automation in distance as it flashes in the same frequency of the external warning lamp.



Partial Start

Allows the partial opening of the gate for about 10 seconds.

Notice: For the partial opening the contact is a N. O. contact (Usually opened). To use the partial access, place dip-switches 3 and 4 on ON.



With DIP3 on ON and DID4 on OFF it is possible to connect a timer. The Timer executes the timed opening and keeps the gate open for the whole adjusted time.



Safety edge input

The security edge is a (N.C.) contact which once opened causes an inversion of the movement for about one second and has to be mounted as protection on the principal edge of the gate)

Notice: To use the safety edge, place dip-switches 3 and 4 on OFF.

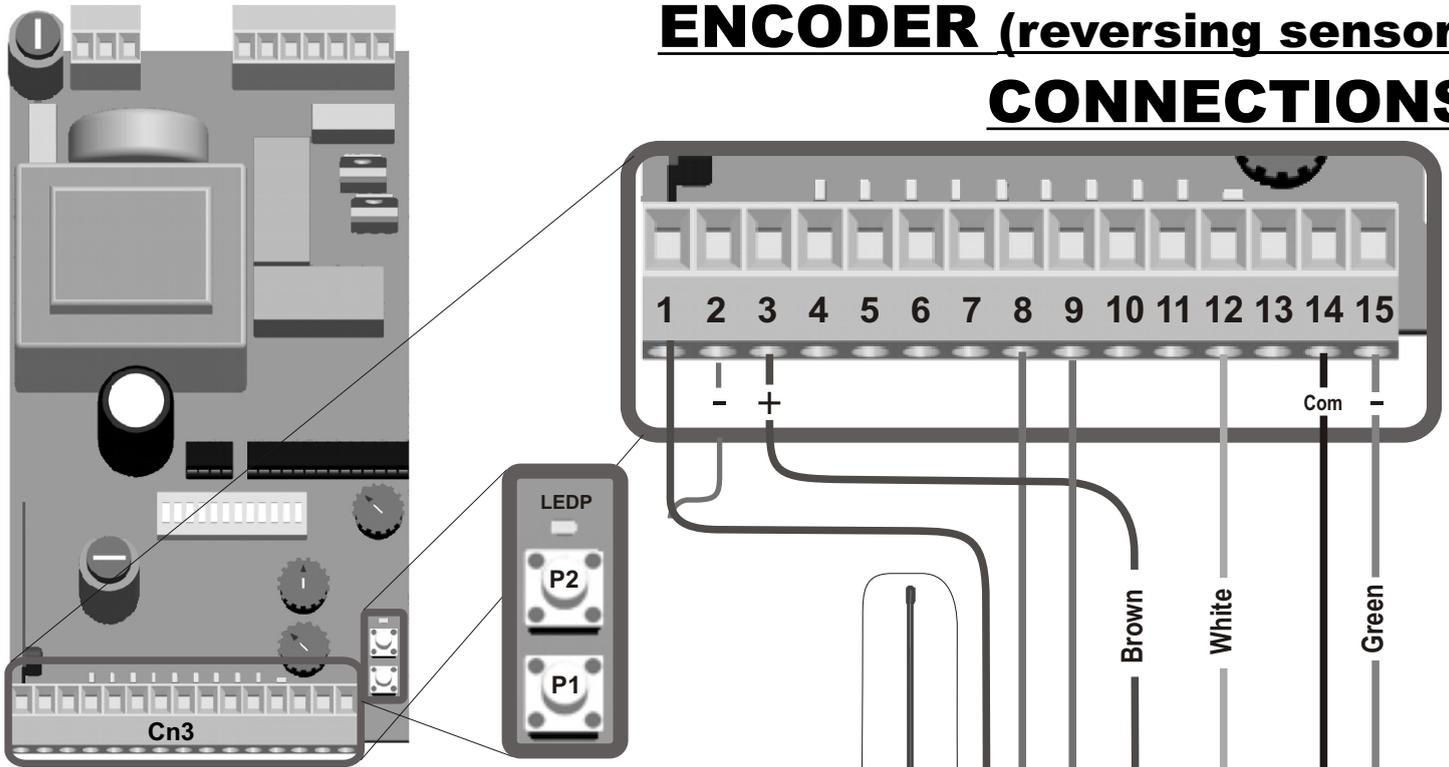
Notice: This contact can also be used for the connection of the photocell with battery.

Notice: If not used, but the function has been adjusted, bridge the contact with the negative (ex. 13,15)





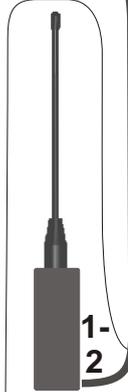
ANTENNA, LIMIT SWITCHES, ENCODER (reversing sensor) CONNECTIONS



Encoder adjustment procedure on board of the control unit

1. Keep pressed both Ptime and Pcode buttons for 3 seconds until ledP turns on..
2. The led turns on and stays on for 1 second, afterwards it reproduces the number of flashes corresponding to the level of the set encoder sensibility (from 1 to 15, where 15 stands for the maximum insensibility)
3. If the set level is not suitable, press the push-button Pcode to increase or Ptime to decrease it. Every impulse corresponds to the increase or the decrease of one unity.
4. After 1 second from the last pressure of the push-button the set sensibility level will be shown through the corresponding number of flashes.
5. After 3 seconds from the visualization, the procedure will be left and the ledP switches off.

Note: Execute the adjustment with still-standing gate.



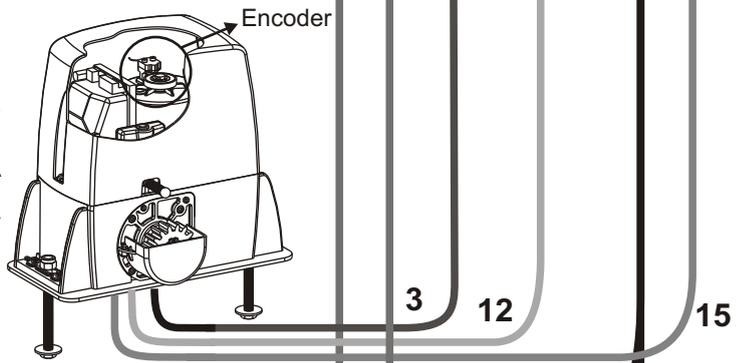
Antenna
Connect the antenna as in the picture.

Encoder (reversing sensor)

The encoder is a sensor which allows the inversion of the movement in case of an obstacle during the run of the gate in both opening and closing and up to few centimeters from the stop. It is set in the factory on a middle level but can be modified. Low sensibility levels do not allow a fast inversion as required by the En12453 rules. To use this system it is necessary to buy a SEA motor provided with encoder. If there are no limit switches, with active Encoder, whenever there will be a power failure and after every obstacle, the gate will proceed for one cycle at low speed to recover the position.

Note: When not used, place dip 8 on off.

Note: In case of anomalies of the encoder the warning lamp and the control lamp will blink slowly.



Limit Switches

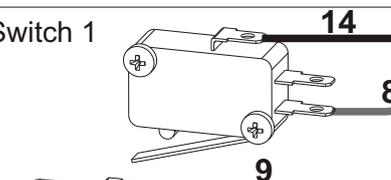
They can be of different types:

- inductive limit switch
- mechanical limit switch with lever
- limit switch with spring
- limit switch for motor-reducer with chain.

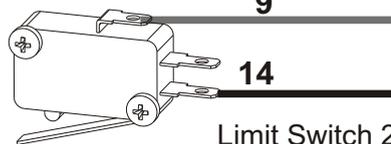
All these limit switches must be manufactured by SEA for a complete compatibility of the connectors
Com = Common

When the control unit is used without limit switches it is not necessary to bridge them.

Limit Switch 1

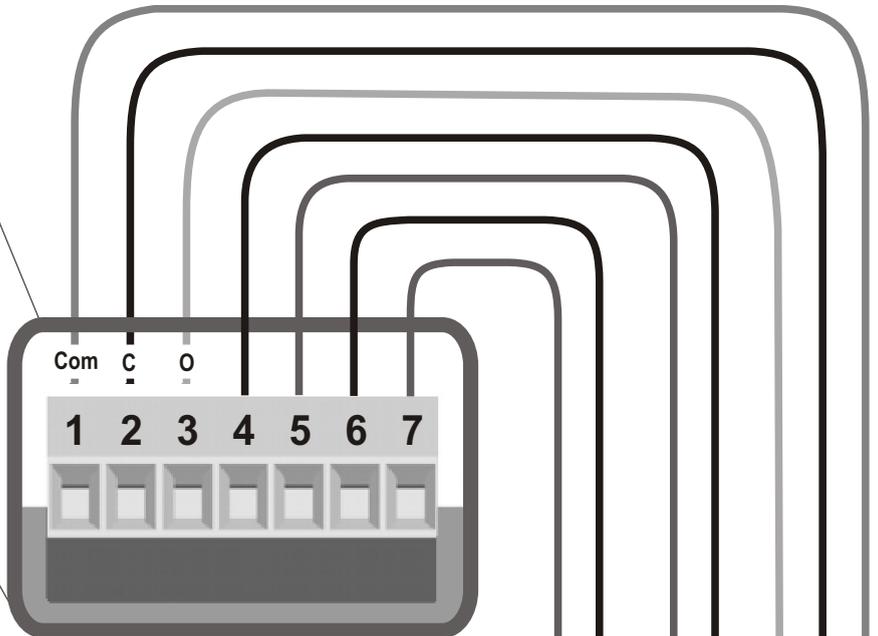
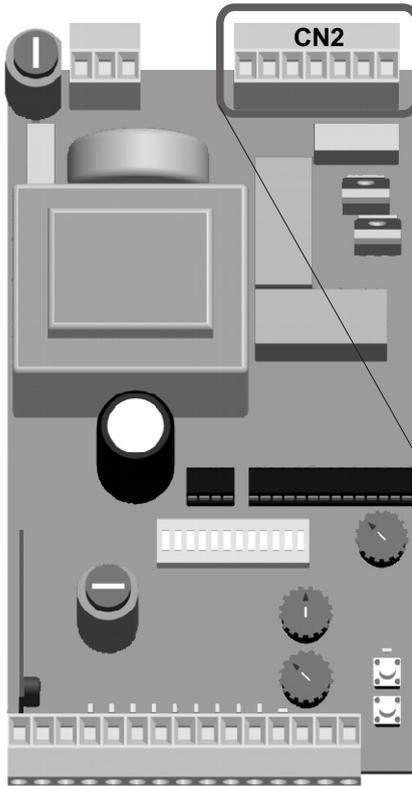


Limit Switch 2





MOTOR, CAPACITOR, FLASHING LAMP CONNECTIONS



Flashing Lamp

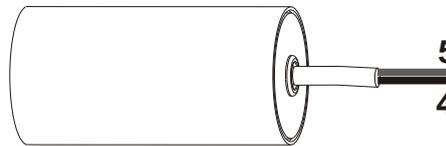
The warning lamp signals the movement of the gate and the alarm conditions due to anomalies of the control unit or itself.

Notice: It is possible to activate a pre-flashing of 3 seconds before activating the automation placing Dip 5 on ON.



Starting Capacitor

The start condensator allows the motor start, when not connected it is possible that the motor does not start.



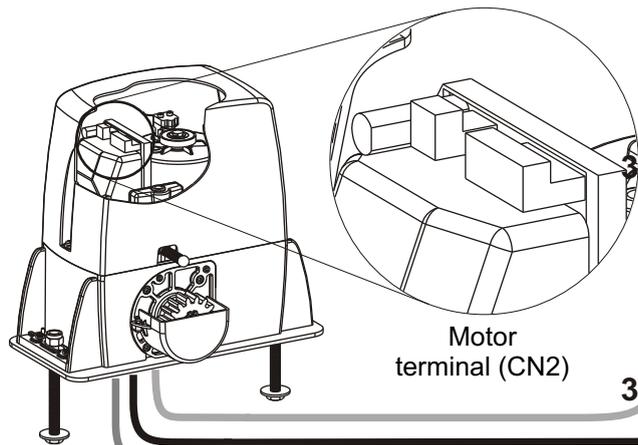
Motor

Output for motor connection

O = OPEN

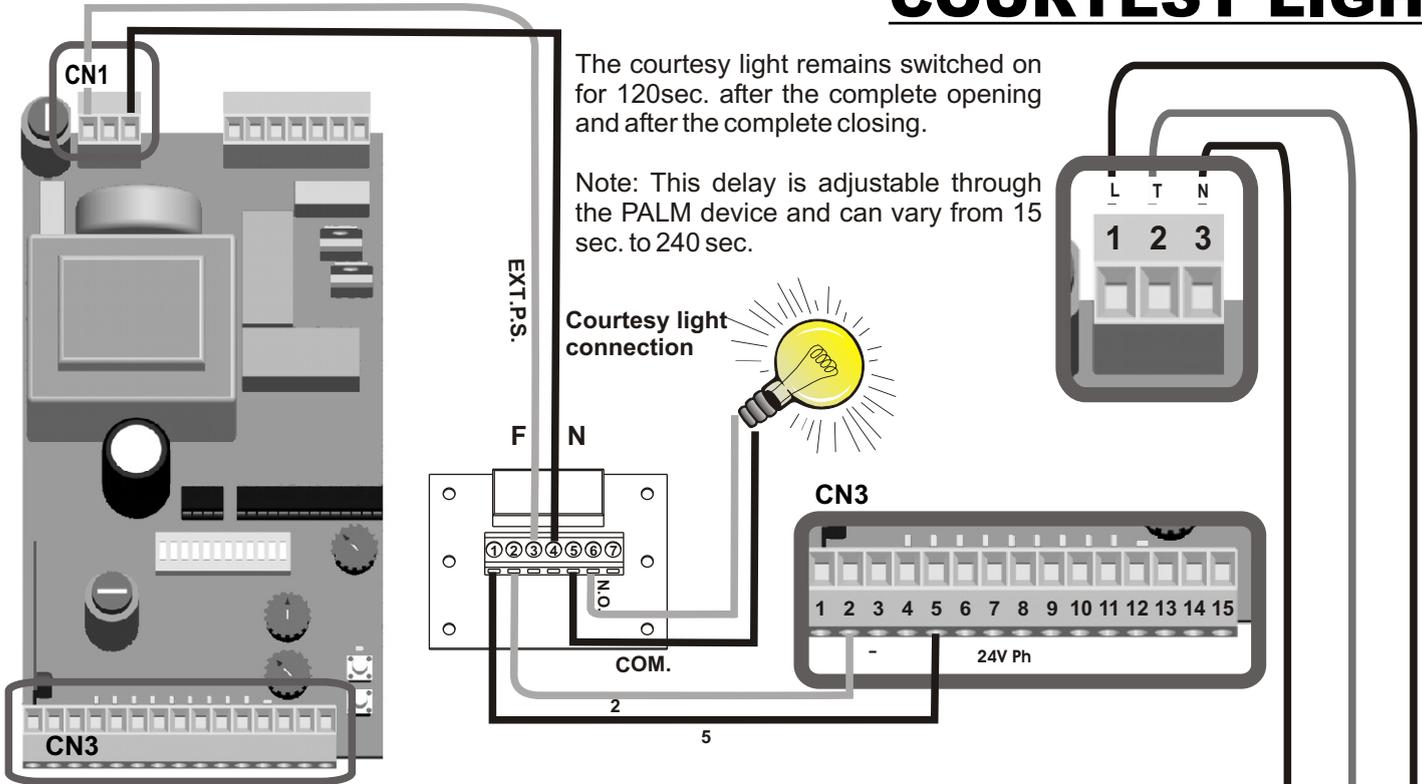
C = CLOSED

Com = COMMON

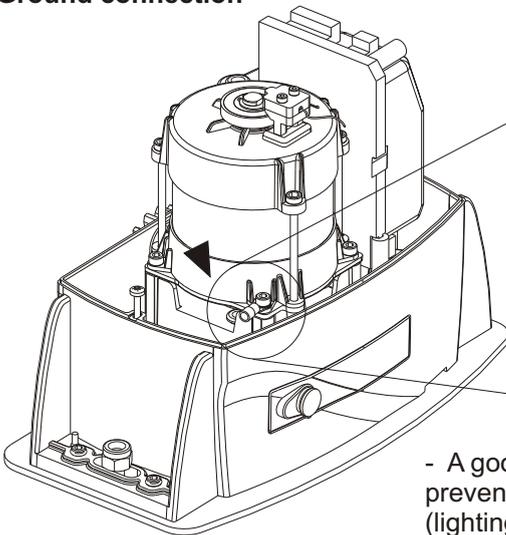




POWER SUPPLY AND GROUND CONNECTIONS, COURTESY LIGHT



Ground connection



Example

- A good ground in a gate operator installation will minimize or prevent damage to the operator caused by natural events (lighting, strikes and others)

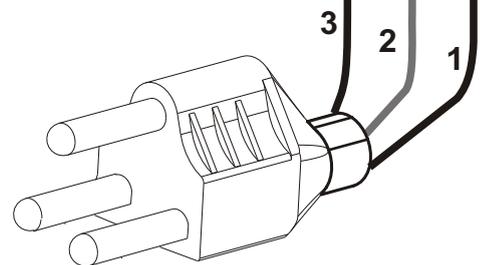
Net supply input

P = PHASE

N = NEUTRAL

G = GROUND

NOTICE: for the connection to the electric net see the norms in force.





SELF-LEARNING OF OPERATING TIME FOR SLIDING GATES (WITH LIMIT SWITCH)

STEP 1:

Make all the electrical connections and jumpers on all N.C. contact.

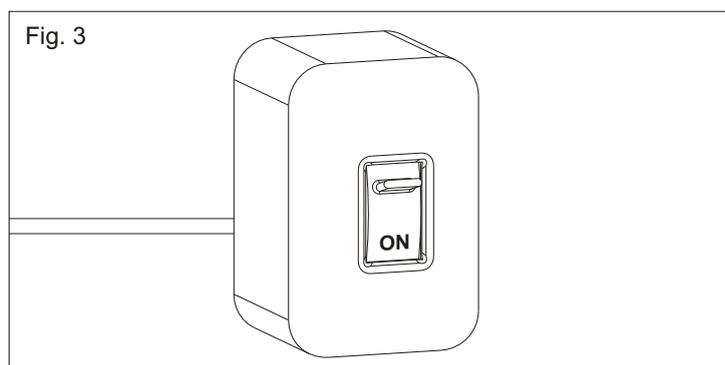
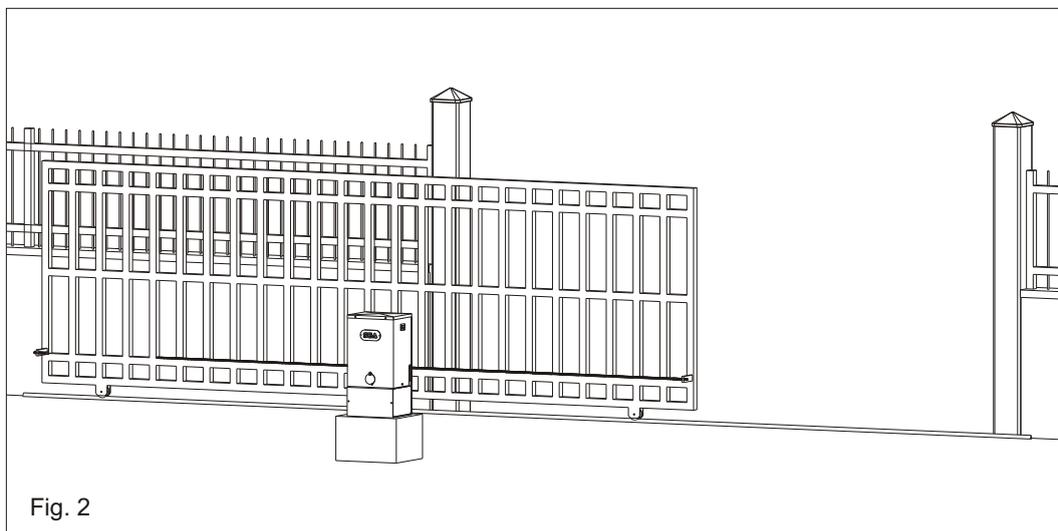
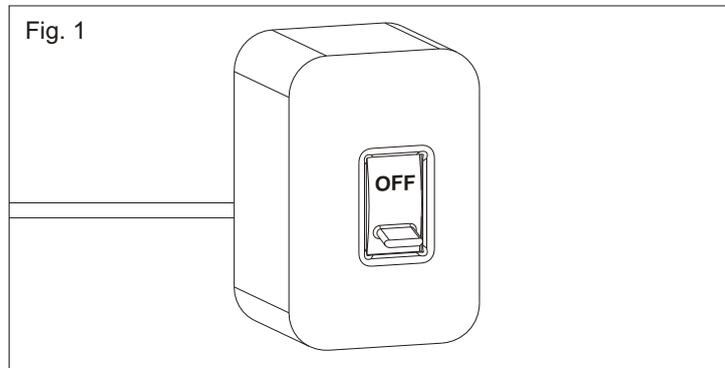
If an operator equipped with mechanical or hydraulic anti-crush safety device is being used, set the torque (trimmer Rv1) to the maximum value and adjust the motor torque using the by-pass valves or clutch adjustment screws located on the operator.

If an operator without a mechanical or hydraulic anti-crush safety system is being used, set the torque to the maximum value **ONLY** for the self-learning process.

Immediately afterwards, set a torque value that will ensure anti-crush safety, in accordance with current legislation.

ATTENTION! THIS PROCEDURE IS POTENTIALLY DANGEROUS AND MUST BE CARRIED OUT ONLY BY SPECIALIZED PERSONNEL USING ALL SAFETY PRECAUTIONS.

STEP 2: Take off the power supply (Fig. 1), release the motor and set the gate in the half open position (Fig. 2).
Re-lock the motor and set the power supply up (Fig. 3)

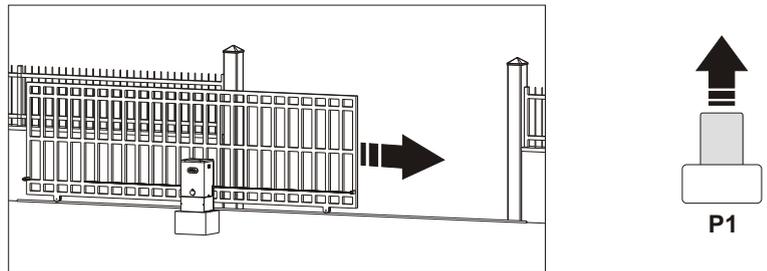
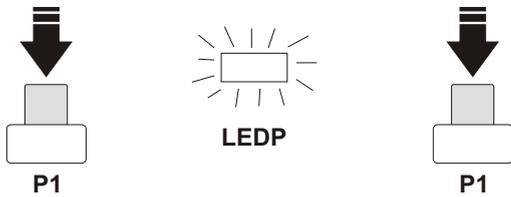
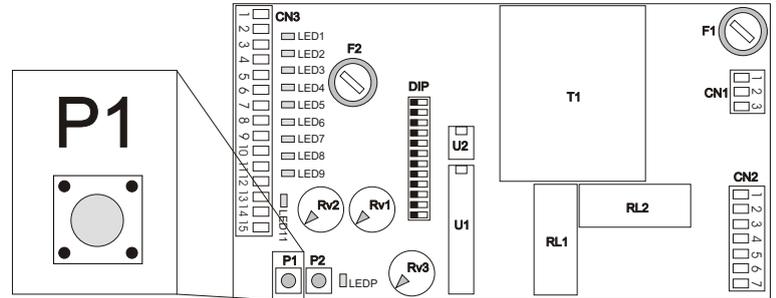




SELF-LEARNING OF OPERATING TIME FOR SLIDING GATES (WITH LIMIT SWITCH)

- **Note1:** When the Encoder is used, set dip 8 on ON
- **Note 2:** Make sure that the Stop, the photocell and the AUX input, are correctly represented. Press and hold button P1 (LedP will come on) until the gate starts closing*.

Release P1



* If the motor starts to open the gate, take OFF the power, move DIP SW 12 to opposite position and then repeat STEP 2

The gate will keep closing until it reaches the closing limit switch (Fig. 6). The motor stops and then immediately begins an opening cycle (Fig. 7). On reaching the opening limit switch, the motor stops and begins to close once more (Fig. 8) until it reaches the closing limit switch (Fig. 9). At this point the gate remains closed, the operating times are set and the operator is ready to work.

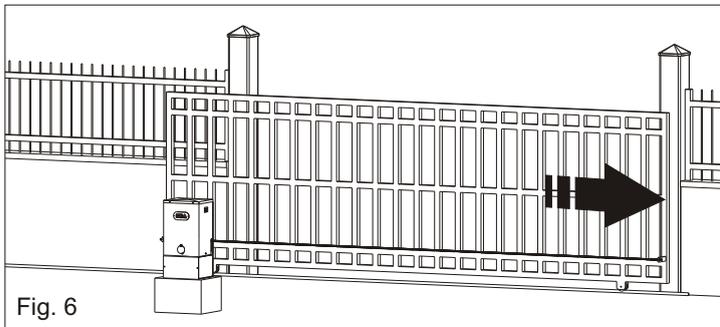


Fig. 6

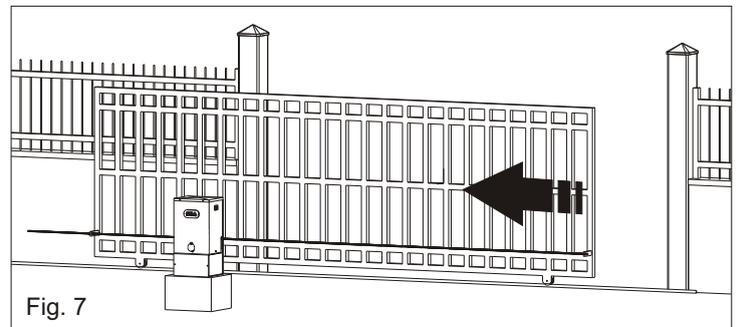


Fig. 7

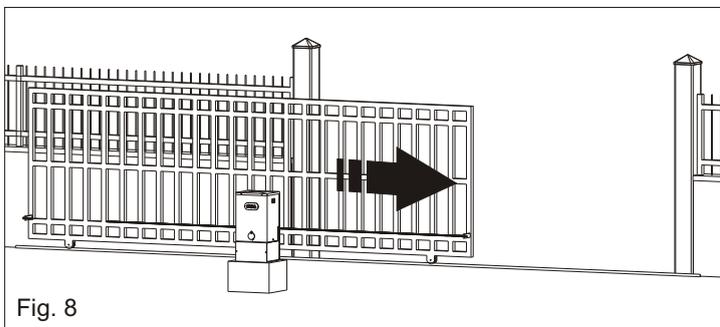


Fig. 8

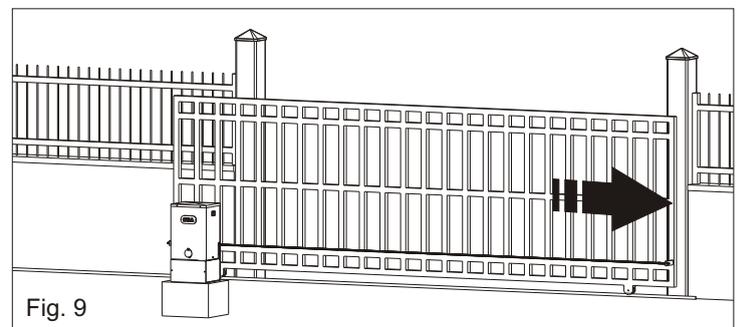


Fig. 9

STEP 3: Double check that the operating times have been memorized correctly giving a START or pressing P1. If necessary, repeat the programming procedure from STEP 2.

STEP 4: If used with an operator without a mechanical or hydraulic anti-crush safety device, adjust trimmer Rv1 to values that will ensure anti-crush safety, in accordance with current legislation. Adjust the slow-down length (if enabled), using trimmer Rv2.

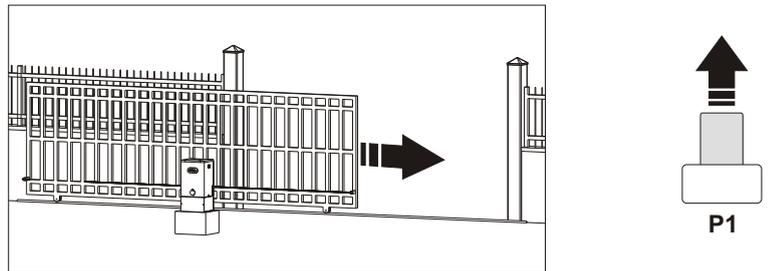
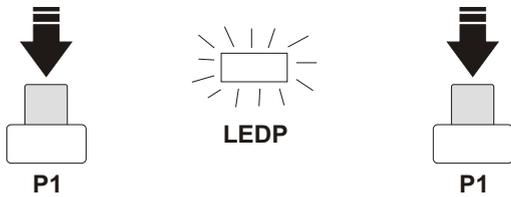
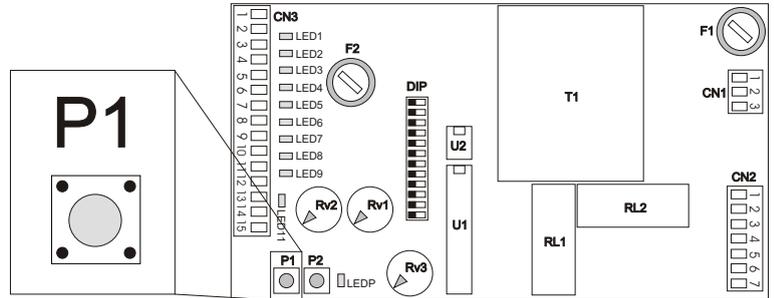


SELF-LEARNING OF OPERATING TIME FOR SLIDING GATES (WITHOUT LIMIT SWITCH)

- Note 1: Make sure that the limit switches are not bridged
- Note 2: Make sure that the Stop, the photocell and the AUX input, are correctly represented.

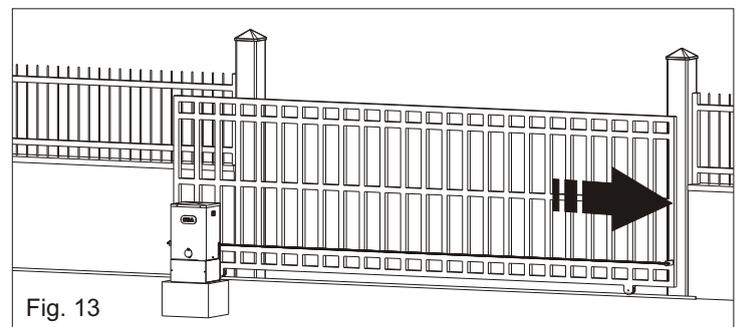
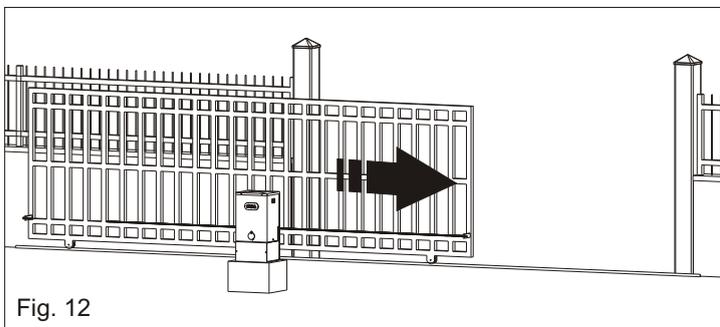
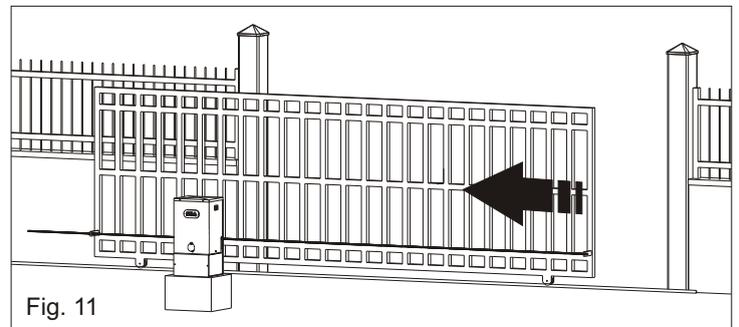
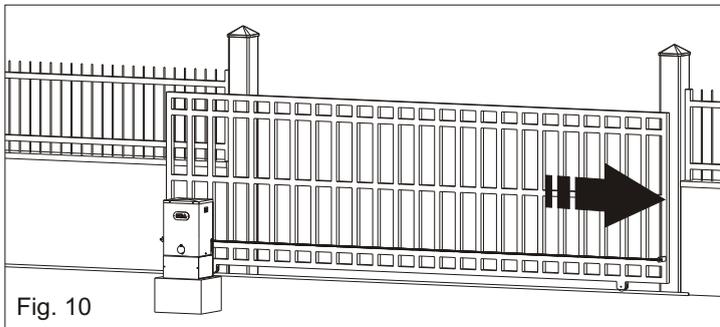
Press and hold button P1 (LedP will come on) until the gate starts closing*.

Release P1



* If the motor starts to open the gate, take OFF the power, move DIP SW 12 to opposite position and then repeat STEP 2

The gate will keep closing until it reaches the stop in closing (Fig. 10). Once it has reached it press P1 again, now an opening cycle will start (Fig. 11). When the gate has reached the mechanical stop in opening the motor stops, at this point press P1 again, the gate will execute the closing (Fig. 12) until it reaches the stop in closing (Fig. 13), now the selflearning has been concluded.



STEP 3: Double check that the operating times have been memorized correctly giving a START or pressing P1. If necessary, repeat the programming procedure from STEP 2.

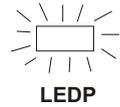
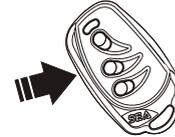
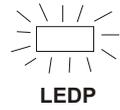
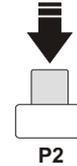
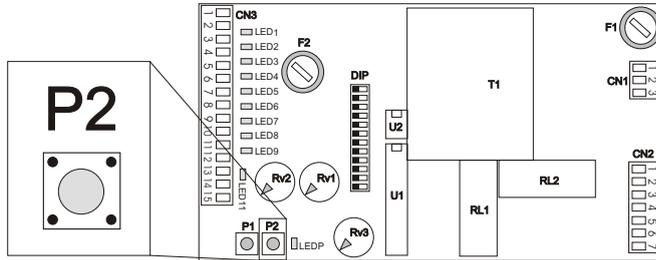
STEP 4: If used with an operator without a mechanical or hydraulic anti-crush safety device, adjust trimmer Rv1 to values that will ensure anti-crush safety, in accordance with current legislation. Adjust the slow-down length (if enabled), using trimmer Rv2.



PROGRAMMING A TRANSMITTER

PROGRAMMING A TRANSMITTER ON START

Press button P2 (PCode) until LEDP turns ON.



Give a START with the transmitter, using the button chosen for the start command.

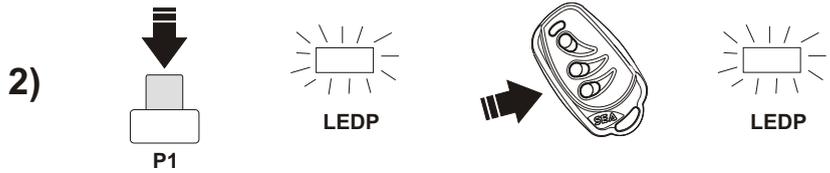
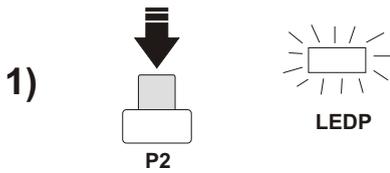
The LED will flash twice to confirm that the transmitter code has been memorized and will remain ON waiting for further transmitters.

If no further code is memorized within 10 seconds, the LED automatically goes OFF and the programming has to be repeated.

ATTENTION: If the code entered is already in the memory, it will be deleted. LedP flashes 4 times to indicate this procedure.

PROGRAMMING A TRANSMITTER ON PARTIAL START

- 1) Press button P2 (PCode) until LEDP turns ON.
- 2) Press button P1 (PTime). LEDP will start to flash quickly



Give a START with the transmitter, using the button chosen for the start command. The LED will flash twice to confirm that the transmitter code has been memorized and will remain ON waiting for further transmitters.

If no further code is memorized within 10 seconds, the LED automatically goes OFF and exits the programming procedure.

ATTENTION: If the code entered is already in the memory, it will be deleted. Led P flashes 4 times to indicate this procedure.

DELET ALL RADIO TRANSMITTERS

Press and keep pressed push button Pcode, now ledP begins a flashing sequence. Wait until the led stops to blink and release Pcode. Now ledP will blink for 6 times to confirm the cancellation.

PALM FUNCTIONS:



Description

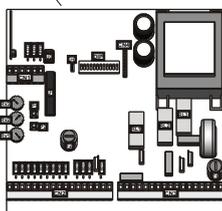
- Copy of code from a transmitter.
- Programming of a new code on TX in radio-frequency (wireless).
- Programming of the system code. It allows a different code to be assigned and to add transmitters without going to the installation site.
- Programming of the installer code with password. It avoids the possibility of adding transmitters to the system by not authorized installers.
- Sequential programming of transmitter. It allows the insertion of blocks of radio controls (100/200 each time) in order to speed up the programming.
- Modifying or deleting transmitter codes.
- Programming, copying or deleting of a memory module through PC interface by RS232 o Bluetooth.

Software for PC

- Detailed users management. Name, last name, system address.
- Insertion, modification or deleting of users.
- Management of installations files.
- Printing.

GATE 1-GATE 2 Administration

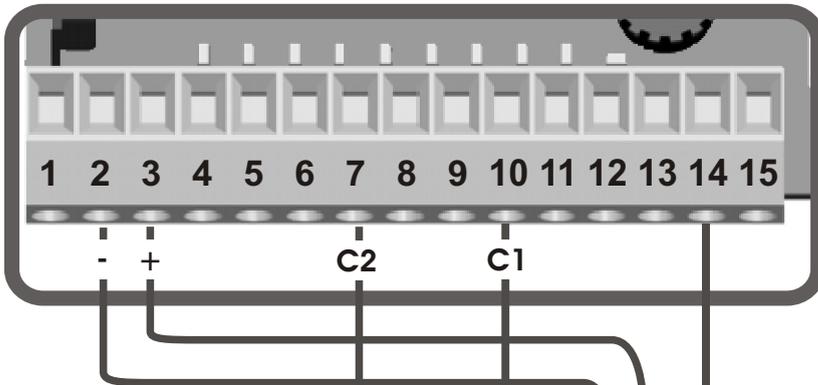
- Visualisation and modification of the following parameters:
 - Working times
 - Leaf delay
 - Partial opening time
 - 2 n. maintenance cycles adjustment
 - Antisquizzing sensibility SAFETY GATE
 - Photostop activation
 - Reclosing after photocell activation
 - Courtesy light time repetition
 - Disactivation Push over in opening





SAFETY LOOP CONNECTION

CN3



THIS SCHEME SHOWS HOW TO CONNECT EVENTUAL MAGNETIC LOOPS.

This scheme is only valid as a connection example.

3 = 24 Vdc
2 = 0 Vdc

EX. Loops' connection

Loop 1 (security in exit)

Connecting scheme of loop detector 1 reader.

7 = Contact photocell (n.c.)
14 = Common photocell

Loop 2 (start)

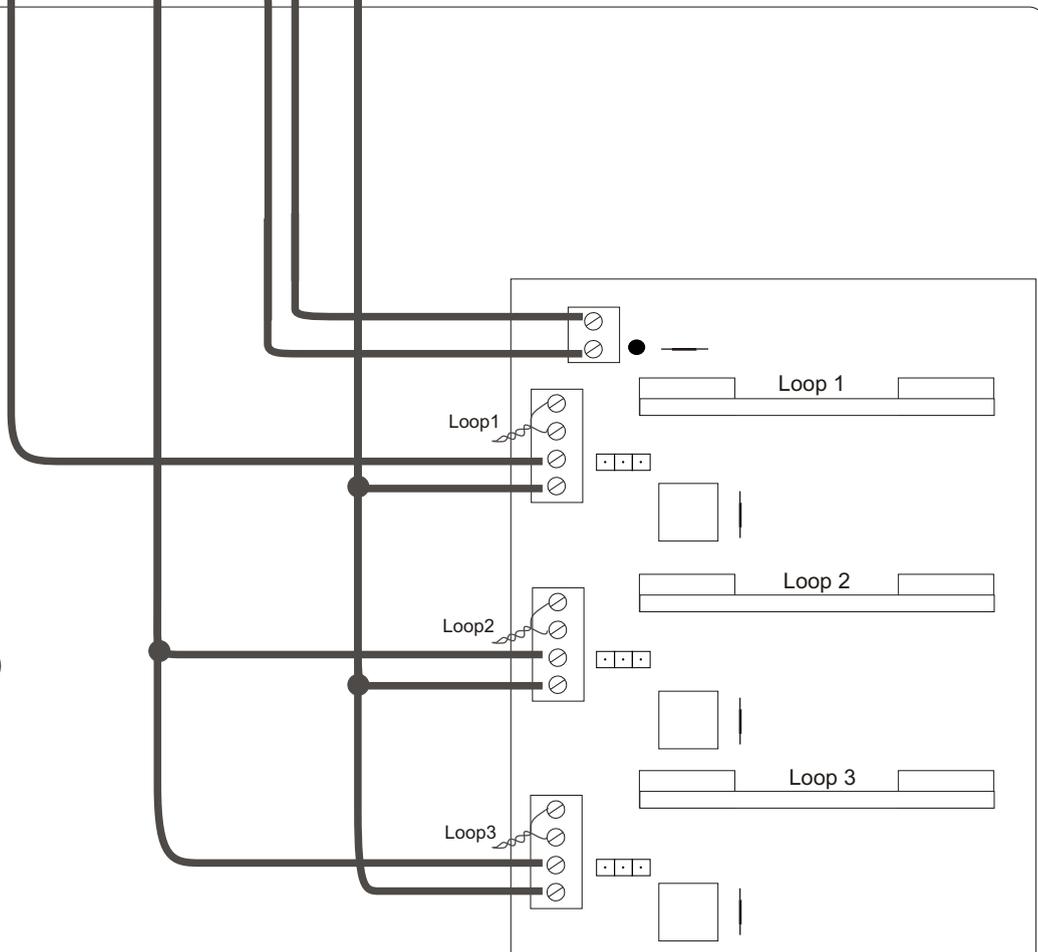
Connecting scheme of loop detector 2 reader.

10 = Contact start (n.o.)
14 = Common

Loop 3 (start)

Connecting scheme of loop detector reader.

10 = Contact start (n.o.)
14 = Common





TROUBLESHOOTING

Advices		
Make sure all Safety LED are turned ON		
All not-used N.C. contacts must have jumpers		
Problem Found	Possible Cause	Solutions
Motor doesn't respond to any START command	<ul style="list-style-type: none"> a) Jumper missing on one of the N.C. Contacts b) Receiver doesn't work (LED 7 in not turned ON) c) Burnt fuses d) The Auxiliary contact is set as a N. C. Contact 	<ul style="list-style-type: none"> a) Check Connections or Jumpers on Contacts 13/14 and 7/2 b) Check connection, polarity and fuse of the receiver c) Replace burnt fuse on the Board d) Set the Auxiliary contact as a N.O. setting Dip Switches 3 and 4 in ON position
Gate doesn't move while the motor is running	<ul style="list-style-type: none"> a) The Motor is in the Released position b) The electronic / mechanic Clutch or By-pass Valve are not set c) There is an obstacle or the motor has reached a limit switch 	<ul style="list-style-type: none"> a) Re-lock the motor b) Adjust Electronic clutch using Trimmer Rv1 or Motor Clutch / By-pass Valve c) Remove obstacle or switch the the operating direction using Dip Switch 12
Gate doesn't reach the complete Open / Closed Positio	<ul style="list-style-type: none"> a) Wrong setting of the Limit Switches b) Erron on Programming (page 31) c) Gate is stopped by an obstacle 	<ul style="list-style-type: none"> a) Set Limit Switches b) Repeat Programming as on page 31 c) Remove obstacle
The gate opens but doesn't close	<ul style="list-style-type: none"> a) The photocell Contact 7/2 is not closed b) The auxiliary contac is set as a N.C. 	<ul style="list-style-type: none"> a) Check LED or jumpers b) Set the Auxiliary contact as a N.O. setting Dip Switch 3 and 4 in ON
The gate doesn't close automatically	<ul style="list-style-type: none"> a) The Automatic Closing is OFF b) Pause time set to High 	<ul style="list-style-type: none"> a) Activate Automatic Closing by Dip Switch 6 b) Adjust Pause time using Trimmer Rv3



WARNINGS AND WARRANTY

WARNINGS

The electric installation and the functioning logic choice must agree with the laws in force. In any case you must foresee a 16A and threshold 0.030A differential switch. Keep the power cables (motors, power supply) separate from the command cables (push buttons, photocells and so on). In order to avoid any interference it's preferable to foresee and use two separate sheaths.

Any manipulation realized by different people then the technicians authorized to the installation, putting in function of the door and afterward maintenance, will determine the decline of all the responsibilities towards the technician in case of accident on the automatic door.

REPLACEMENTS

Any request for spare parts must be sent to:

SEA s.r.l. - Zona Ind.le, 64020 S.ATTO - Teramo - Italia

USE DESTINATION

The electronic equipment 23001120 has been designed to be used exclusively as management equipment for sliding gates automation, swing gates, sectional doors, overhead doors, barriers.

SAFETY AND ENVIRONMENTAL COMPATIBILITY

It's recommended not to dispel in the environment the packaging materials of products and/or circuits.



REGULAR PRODUCT DISPOSAL (electric and electronic waste)

(It's applicable in UE countries and in those ones provided with a differential rubbish collection)

The brand that you find on the product or on documentation signals that the product must not be disposed off together with other domestic rubbish at the end of life cycle. In order to avoid any possible environmental or health damage because of the irregular waste disposal, we kindly invite you to separate this product from other kind of rubbish and to recycle it in a responsible way in order to favor the sustainable reuse of material resources. Domestic users are invited to contact the retailer where the product has been purchased or the local office in charge for all the information related to defferential collection and recycling of this kind of product.

STORING

WAREHOUSING TEMEPERATURES			
T_{min}	T_{Max}	Dampness min	Dampness Max
- 40°C	+ 85°C	5% <i>not condensing</i>	90% <i>not condensing</i>

Materials handling must be made with appropriate vehicles..

DISINSTALLATION AND MAINTENANCE

The disinstallation and/or putting out of service and/or maintenance of the electronic equipment 23001120 must be made only and exclusively by authorized and qualified staff.

WARRANTY LIMITS

The warranty form of the electronic equipment 23001120 is valid for 24 months starting from the printed date on the product. The mentioned product will be considered under warranty if it doesn't show any damage caused by an irregular use or by any modification or breaking. The warranty is valid only for the original buyer.

NOTE:THE MANUFACTURER IS NOT CONSIDERED RESPONSIBLE FOR EVENTUAL DAMAGES CAUSED BY IRREGULAR, WRONG OR UNREASONABLE USE.

SEA reserves the right to make any required modification or change to the products and/or to this manual without any advanced notice obligation.

TERMS OF SALE

EFFICACY OF THE FOLLOWING TERMS OF SALE: The following general terms of sale shall be applied to all orders sent to SEA srl. All sales made by SEA to all customers are made under the prescription of this terms of sales which are integral part of the sale contract and cancel and substitute all opposed clauses or specific negotiations present in the order or in other documents received from the buyer.

GENERAL NOTICE The gate automation systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EN 12453 EN12445 and others) and with good installation practice releases SEA from any responsibilities. SEA shall not be held responsible for any failure to execute a correct and safe installation under the above mentioned standards.

1) PROPOSED ORDER The proposed order shall be accepted only prior SEA approval of it. By signing the proposed order, the Buyer shall be bound to enter a purchase agreement, according to the specifications stated in the proposed order and always under those Terms of sale. On the other hand, failure to notify the Buyer of said approval must not be construed as automatic acceptance on the part of SEA.

2) PERIOD OF THE OFFER The offer proposed by SEA or by its branch sales department shall be valid for 30 solar days, unless otherwise notified.

3) PRICING The prices in the proposed order are quoted from the Price List which is valid on the date the order was issued. The discounts granted by the branch sales department of SEA shall apply only prior to acceptance on the part of SEA. The prices are for merchandise delivered ex-works from the SEA establishment in Teramo, not including VAT and special packaging. SEA reserves the right to change at any time this price list, providing timely notice to the sales network.

4) PAYMENTS The accepted forms of payment are each time notified or approved by SEA. The interest rate on delay in payment shall be 1.5% every month but anyway shall not be higher than the max. interest rate legally permitted.

5) DELIVERY Delivery shall take place, approximately and not peremptorily, within 30 working days from the date of receipt of the order, unless otherwise notified. Transport of the goods sold shall be at Buyer's cost and risk. SEA shall not bear the costs of delivery giving the goods to the carrier, as chosen either by SEA or by the Buyer. Any loss and/or damage of the goods during transport, are at Buyer's cost.

6) COMPLAINTS Any complaints and/or claims shall be sent to SEA within 8 solar days from receipt of the goods, proved by adequate supporting documents as to their truthfulness.

7) SUPPLY The concerning order will be accepted by SEA without any engagement and subordinately to the possibility to get it's supplies of raw material which is necessary for the production; Eventual completely or partially unsuccessful executions cannot be reason for complains or reservations for damage. SEA supply is strictly limited to the goods of its manufacturing, not including assembly, installation and testing. SEA, therefore, disclaims any responsibility for damage deriving, also to third parties, from noncompliance of safety standards and good practice during installation and use of the purchased products.

8) WARRANTY.

SILVER: The mechanical components of the operators belonging to this line are guaranteed for 24 months from the date of manufacturing written on the operator.

GOLD: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator.

PLATINUM: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator. The base warranty (36 months) will be extended for further 24 months (up to a total of 60 months) when it is acquired the certificate of warranty which will be filled in and sent to SEA s.r.l. within 30 days from the purchase date. The electronic devices and the systems of command are guaranteed for 24 months from the date of manufacturing. In case of defective product, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair centre.

The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labour activities. The recognized defects, whatever their nature, shall not produce any responsibility and/or damage claim on the part of the Buyer against SEA. The guarantee is in no case recognized if changes are made to the goods, or in the case of improper use, or in the case of tampering or improper installation, or if the product label of the manufacturer with the registered SEA trademark n° 804888 has been removed. Furthermore, the warranty shall not apply if SEA products are partly or completely coupled with non-original mechanical and/or electronic components, and in particular, without a specific relevant authorization, and if the Buyer is not making regular payments. The warranty shall not cover damage caused by transport, expendable material, faults due to non-conformity with performance specifications of the products shown in the price list. No indemnification is granted during repairing and/or replacing of the goods in warranty. SEA disclaims any responsibility for damage to objects and persons deriving from non-compliance with safety standards, installation instructions or use of sold goods. The repairs of products in warranty and out of warranty is accepted only if the procedure of SEA are fully respected by the customer.

9) RESERVED DOMAIN A clause of reserved domain applies to the sold goods; SEA shall decide autonomously whether to make use of it or not, whereby the Buyer acquires the property of the goods only after full payment of the invoice.

10) COMPETENT COURT OF LAW In case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo. The official language for the interpretation of the catalogue, the manuals, the terms of sale and any other is the Italian language. SEA reserves the faculty to make technical changes to improve its own products, which are and are not included in this price list at any moment and without notice.

SEA declines any responsibility due to possible mistakes contained inside the present price list caused by printing and/or copying. The present price list cancels and substitutes the previous ones. The Buyer, according to the law No. 196/2003 (privacy code) consents to put his personal data, deriving from the present contract, in SEA archives and electronic files, and he also gives his consent to their treatment for commercial and administrative purposes.

Industrial ownership rights: with the purchase, the buyer accepts in full the present Terms of Sale and recognizes that SEA has the exclusive legal ownership of the registered SEA International trademark n° 804888 which is attached on each products label, and/or on manuals, packaging and/or in any other documentation, and he will commit himself to use it in its marketing and/or installation activity in a way which does not reduce the value of these rights; he won't also remove, replace or modify the trademark or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any change of signs-brands on the products, unless preventive and expressed authorization by SEA.



Dichiarazione di conformità
Declaration of Conformity

La SEA s.r.l. dichiara sotto la propria responsabilità e, se applicabile, del suo rappresentante autorizzato che il prodotto:

SEA srl declares under its proper responsibility and, if applicable, under the responsibility of its authorised representative that the product:

Descrizione / Description	Modello / Model	Marca / Trademark
Centrale di controllo Gate1 <i>Gate1 Control Unit</i>	23001120 <i>23001120</i>	SEA <i>SEA</i>

è conforme a tutte le norme tecniche relative al prodotto entro il campo di applicabilità delle Direttive Comunitarie 2006/95/CE, 2004/108/CE e 99/5/CEE:

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2006/95/CE, 2004/108/CE and 99/5/CEE:

EN 61000-6-3 (2007)

EN 61000-6-2 (2005)

EN 60335-1 (2002) + A1 (2004) + A2 (2006) + A11 (2004) + A12 (2006)

EN 50366 (2003) + A1 (2006)

COSTRUTTORE o RAPPRESENTANTE AUTORIZZATO:
MANUFACTURER or AUTHORISED REPRESENTATIVE:

SEAS.r.l.
DIREZIONE E STABILIMENTO:
Zona industriale 64020 S.ATTO Teramo - (ITALY)
Tel. 0861 588341 r.a. Fax 0861 588344
[Http://www.seateam.com](http://www.seateam.com)

I test sul prodotto sono stati effettuati in configurazione standard e in riferimento alle norme specifiche per la sua classe d'utilizzo.

The products have been tested in standard configuration and with reference to the special norms concerning the classe of use.

(Luogo, data di emissione)
(Place, date of issue)
07/01/2009

L'Amministratore
The Administrator
Ennio Di Saverio



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