



SEA[®]

Sistemi Elettronici
di Apertura Porte e Cancelli
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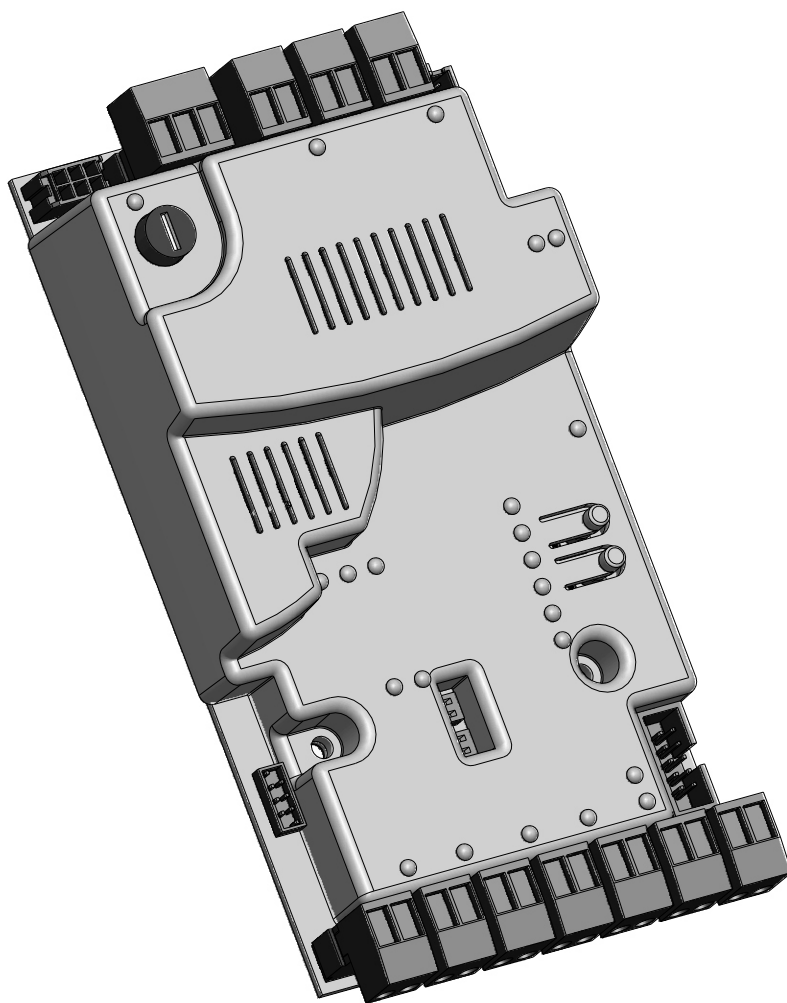


English

USER 1 - 24V

23024060/65

24V=== ELECTRONIC CONTROL UNIT FOR SLIDING GATES AND BARRIERS



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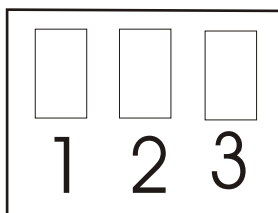
e-mail: seacom@seateam.com



CONNESSIONI / CONNECTIONS / CONNEXIONS

CONEXIONES / VERBINDUNGEN

M1



Solo con scheda
caricabatteria / Only with
battery charger card /
Seulement avec
chargeur batterie / Solo
con tarjeta cargabaterías
/ Nur mit
Batterieladekarte
(Cod.23101105)

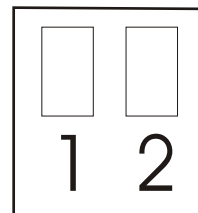
28V === Caricabatterie
28V === Battery charger
28V === Chargeur de batterie
28V === Cargabaterías
28V === Batterieadegerät

+ — — — s — — — -

Positivo batteria/Positive battery
Positif batterie/Positivo Bateria
Positiv Batterie

Negativo caricabatteria/
Negative battery charger
Négatif chargeur batterie
Negativo cargabaterías
Negativ Batterieaufladegerät

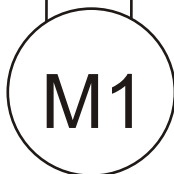
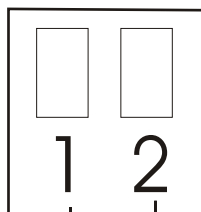
M2



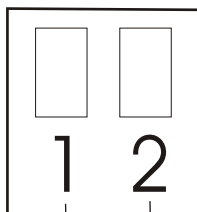
+ — — — -

24V === Accessori Max 200 mA
24V === Accessories Max 200 mA
24V === Accessoires Max 200 mA
24V === Accesorios Max 200 mA
24V === Zubehör Max 200 mA

M3

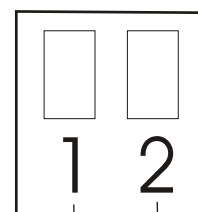


M4



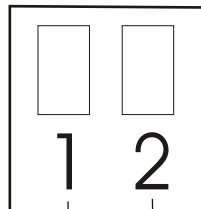
Lampeggiatore 24V === 15W /
Flashing lamp 24V === 15W
Lampe clignotante 24V === 15W /
Lampara 24V === 15W /
Blinklampe 24V === 15W

M5



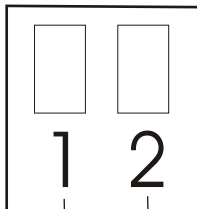
Antenna / Antenna /
Antenne / Antena /
Antenne
Comune / Common /
Comun / Comune /
Gemeinsam

M6



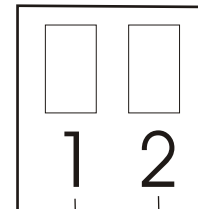
START
Comune / Common
/ Comun/Comune/
Gemeinsam

M7



START Ped./ START Ped. /
START Ped/START Ped./
START Fuss.
Comune / Common /
Comun/Comune/
Gemeinsam

M8

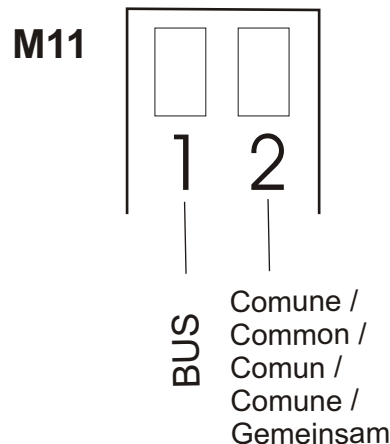
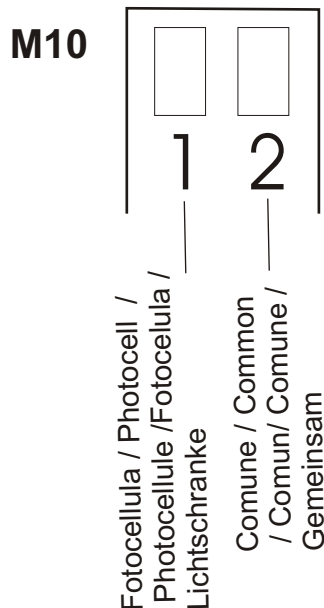
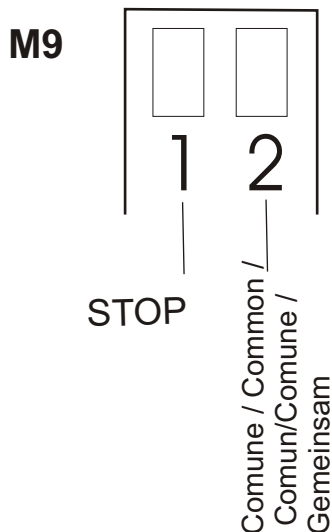


Costa di sicurezza / Safety edge
Tranche de sécurité /
Costa de seguridad /
Sicherheitsleiste
Comune / Common /
Comun / Comune /
Gemeinsam



CONNESSIONI / CONNECTIONS / CONNEXIONS

CONEXIONES / VERBINDUNGEN

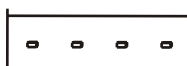


ENCODER



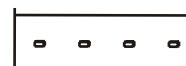
12 V --- Encoder 1 (Marrone)
12V --- Encoder 1 (Brown)
12 V --- Encoder 1 (Marron)
12 V --- Encoder 1 (Marron)
12 V --- Encoder 1 (Braun)
Encoder 1 (Bianco) / Encoder 1 (White)
Encoder 1 (Blanc) / Encoder 1 (Blanco) /
Encoder 1 (Weiss)
Encoder 1 (Verde) / Encoder 1 (Green)
Encoder 1 (Vert) / Encoder 1 (Verde) /
Encoder 1 (Grün)
Comune / Common / Comun / Comune /
Gemeinsam

LIMIT SWITCH



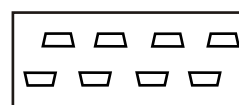
Finecorsa Ch.1 / Limit switch Cl.1 /
Fin de course Fe.1/Final de carrera Cie.1/
Endschalter Schlie.1
Finecorsa Ap.1 / Limit switch Op.1 /
Fin de course Ouv.1/Final de carrera Ap.1/
Endschalter Öffn.1
(Vert)
(Vert)
Comune / Common / Comun / Comune /
Gemeinsam

PROGR RX



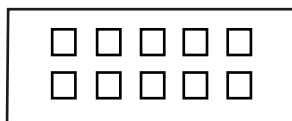
Connettore programmatore OPEN/
Connector programmer OPEN/
Connecteur programmeur OPEN/
Conector Programador OPEN/
Anschluss Programmierer OPEN

RADIO MODULE



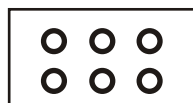
Connettore modulo ricevente /
Receiver module connector /
Connecteur module récepteur /
Conector modulo receptor /
Verbindungsmodul Empfänger

JOLLY



Connettore Programmatore Jolly /
Connector Programmer Jolly /
Connecteur Programmeur Jolly /
Conector Programador Jolly /
Anschluss Programmierer Jolly

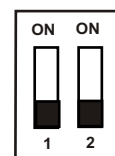
POWER



Connettore alimentazione 24V ---/
24V--- feed connector /
Connecteur alimentation 24V ---/
Conector alimentaciùn 24V ---/
Speisungsverbindung 24V ---

DIP SWITCH

Chiusura automatica/
Automatic closing/
Fermeture automatique/
Cierre automatico/
Automatische Schliessung



Start in pausa/
Start in Pause/
Start en pause/
Start in Pause

Inversione motore/
Motor reversion/
Inversion moteur/
Inversión motor/
Motorreversierung



Attivazione dip switch/
Dip Switch activation/
Activation Dip Switch/
Activación dip switch/
Dip switch Aktivierung

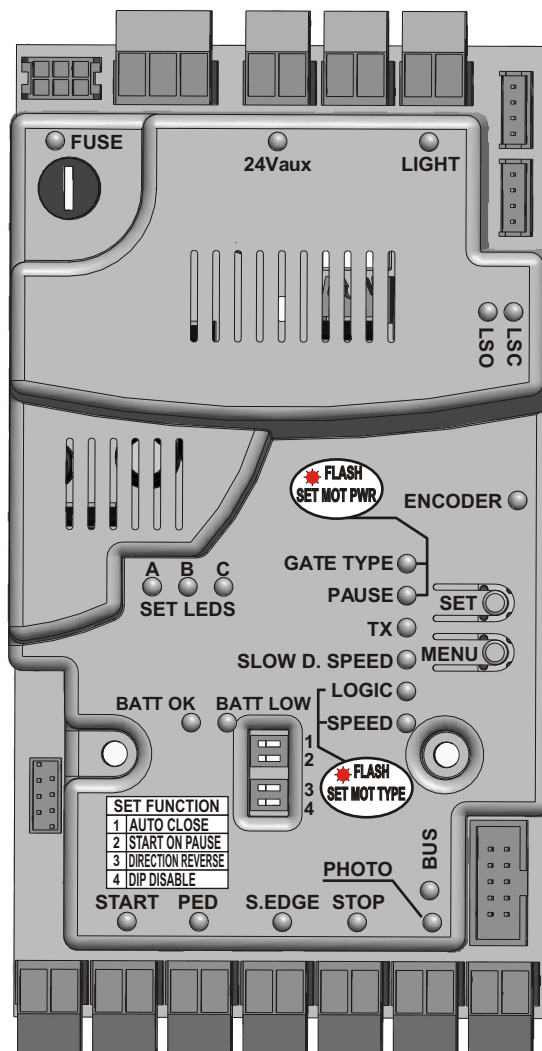
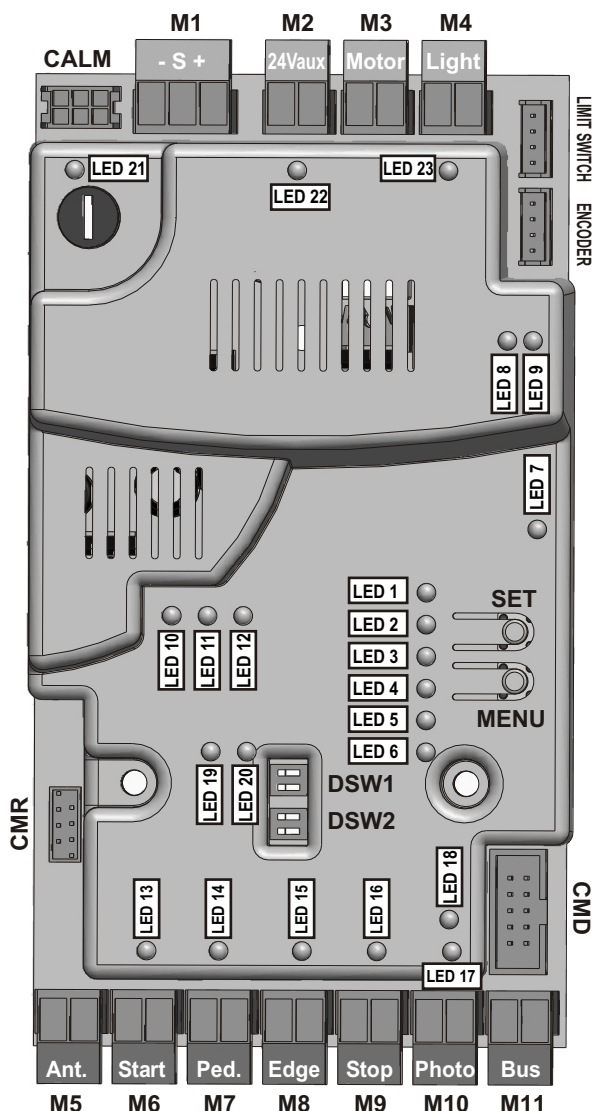


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DESCRIPTION OF THE COMPONENTS



LED1 = Encoder ON - Encoder OFF
LED2 = Pause adjustment
LED3 = TX Programming
LED4 = Slowdown speed adjustment
LED5 = Functioning logics
LED6 = Motors speed
LED7 = Encoder
LED8 = Limit switch in opening
LED9 = Limit switch in closing
LED10 A = Led for SET
LED11 B = Led for SET
LED12 C = Led for SET
LED13 = Start
LED14 = Pedestrian Start
LED15 = Security edge
LED16 = Stop
LED17 = Photo
LED18 = Indicator BUS
LED19 = Battery Ok
LED20 = Unloaded Battery
LED21 = Broken fuse
LED22 = 24Vaux condition
LED23 = Warning lamp condition
SET = Setting
MENU = Selection

M1 = Connection to battery charger
M2 = 24Vaux exit ===
M3 = Motor power supply
M4 = Warning lamp 24V === 15W
M5 = Antenna
M6 = Start
M7 = Pedestrian start
M8 = Security edge
M9 = Stop
M10 = Photocell
M11 = BUS
CNE = Encoder connector
CNF = Limit switch connector
CMD = Jolly programmer connector
CMR = Receiver module connector
CALM = 24V===power supply connector
CPO = Programmer connector OPEN
CRC = Control unit reprogramming connector
µC = Micro-controller
DSW1 = Automatic closing/Start in pause
DSW2 = Opening direction/Dip Switch activation



GENERAL INFORMATION

The information in this section of the manual are only for technicians or for qualified or authorized installers.

GENERAL CHARACTERISTICS

The USER 1 24V control unit has been designed to manage one low voltage motor with or without electronic limit switches.

It is of very small dimensions and besides the possibility to adjust motor speed, amperemetric anti squeezing sensitivity, leaf delay in closing, pausing time, it is also possible to manage a display, through which it is possible to control a lot of management functions and the maintenance of the control unit. The most important change however concerns the presence of a BUS connector with two wires, through which it is possible to connect accessories as photocells, flashing lamp, key switch and so on,... connecting only two cables with the control unit. The self-learning of working time can be done automatically.

TECHNICAL SPECIFICATIONS

Control unit power supply	24 V ===
Absorption in stand by	90 mA
Max. motor charge	90 W x 2
Max. accessories charge	24V=== 250mA
Max. Flash light charge	24V=== 15W max.
Environment temperature	-20°C ↕ +50°C ↕
Protection fuse (24V accessories)	F1 (2A)
Function logic	Automatic/Step by Step 1/S. By Step 2/Sec./Dead man
Opening/closing time	In selflearning in programming phase
Time of pause	Adjustable
Thrust	Adjustable Opening and Closing
Slow down	Adjustable
Input on connecting terminal	Battery power supply / Total opening / Pedestrian opening adjustable / Edge/ Stop / Limit switch opening and closing / Encoder/ BUS accessories
Output on connecting terminal	Power supply accessories 24V===/ Motors 24V===/ Flashing lamp 24V=== / BUS
Board dimensions	156 x 100 mm
Specifications of optional batteries	24V Pb 2Ah min.
Specifications of external enclosure	305 x 225 x 125 mm - Ip55
Special accessories	Battery charger card (cod.23101105), Relay card for courtesy light or bolt lock (cod.23101106), Programmer JOLLY (cod.23105276), Programmer OPEN (cod.23105290), Photocell SUNSET BUS (cod.23102075)

ARRANGEMENTS

Read attentively the installation manual as it gives important indications concerning safety, installation, use and maintenance.

Installation, maintenance, reparation, controls and eventual putting out of function of the product must be executed by qualified staff only.

For the security of people it is important to follow with attention all the advises and instructions in this manual. A wrong installation or a wrong use of the product can cause sever damages to people.



The max. length of the power supply cable between control unit and motors is 10m, use cables with 2,5 mm² section.

Use wirings with double insulated cables (cables with sheath) up to the immediate proximities of the terminals especially for the power supply cable (230V~).

The control unit must not be used by people (including children) whose physical, sensory or mental ability is reduced, or with lack of experience or knowledge, unless they are guarded or have been instructed on how to use the control unit by a person responsible for their safety. Children must be guarded to make sure that they don't play with the control unit.

Foresee on the power supply net of the automation a device that assures the complete omnipolar disconnection from the net, with a distance of opening of the contacts on each pole of at least 3mm. Those devices of disconnection have to be foreseen on the power supply net accordingly to the rules of installation, and they have to be directly connected to the power supply terminals.

It is necessary to keep in adequate distance (at least 2.5 mm in the air) the low tension conductors (230V~) from the very low tension conductors (SELV) or to use a suitable sheath of at least 1 mm which supplies an additional insulation.

Make sure that during installation the power supply and interconnection cables cannot come into contact with pointed or sharp extremities.

Dispose of the package materials (plastics, carton, polistirene, etc.) respecting the laws in order. Keep nylon and polistirene bags out of the reach of children.

Save these instructions for further information attaching them to the technical documents.

This product has been projected and built exclusively for the use described in this instruction manual.

Uses not indicated in this manual could damage the product and be source of danger.

SEA declines all responsibility for improper or different use from the one for which it has been planned and described in the present manual.

Don't install the product in explosive atmospheres.

SEA declines all responsibility for the non-observance of the good technique in the construction of closings (doors, gates, etc.), as well as for the deformations which could occur during the use.

Remove the power supply before any intervention on the installation. Disconnect also possible battery buffers if present.

Make sure that the earth installation has been correctly made: connect all the metallic parts of the closing (doors, gates, etc.) and all the components of the installation provided with earth terminals.

Apply all the safety devices (photocells, sensitive edges, etc.) which are necessary to protect the area from dangers of crushing, conveying, cutting.

SEA declines all responsibility for safety and for the correct functioning of the automation if parts of other producers are used.

Use only original parts for any maintenance or reparation.

Do not modify the parts of the automation if not explicitly authorized by SEA.

Instruct the user of the installation on the applied command systems and how to manually open the gate in case of emergency.

What is not explicitly contained in these instructions is not permitted.



START - STOP - PEDESTRIAN START - ANTENNA - PHOTOCELL

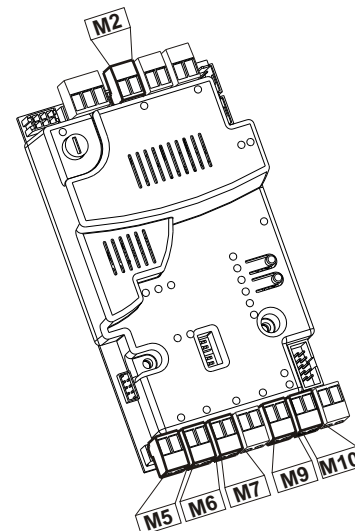
Photocell 1 Connection

When the ray of the photocell is crossed, and the automation is in phase of closing it reverses its movement.

Note: If the photocell is not connected, put a jumper between the clamps 1 and 2 of (M10).

+ = 24V --- - = 0V --- C = Connection Com = Common

The photocell is also usable in connection with BUS photocells.



JOLLY OPTIONS

FOTOCLOSE activation: If activated when the photocell is crossed during the pause, the gate interrupts the pause and immediately closes again.

TIMER activation: If the entry is activated it turns into a N.O. entry with TIMER function (see TIMER).

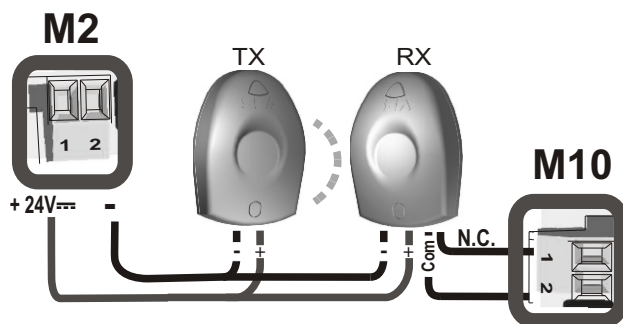
Fotoopen activation: If activated the photocell blocks the movement as long as it's busy, when released it opens.

24Vaux --- max 200 mA



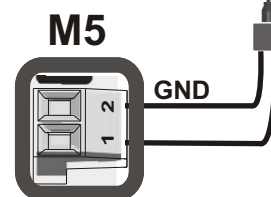
JOLLY OPTION

Through the Jolly programmer it is possible to chose when having tension on the 24vaux output. The options are: always, only during opening, only during cycle, only before opening or only during pause.

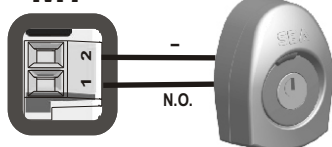


ANTENNA

Connect the antenna as in the figure.



M7



PEDESTRIAN START (N.O.)

To obtain a partial opening connect the key-button wires as in the figure. It is possible to connect other command devices (push button board, radio receiver, keypad).

Note1: The contact for partial opening is a N.O. Contact (Normally open)

Nota2: In manual logic it is necessary to keep pressed the Start Ped. To re-close the automation.

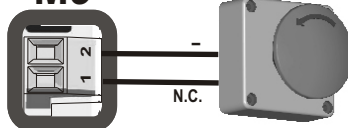


JOLLY OPTIONS

Activation TIMER: this entry can be transformed into TIMER (See TIMER)

Pedestrian opening space : Linearly adjustable from 30% to 100%.

M9



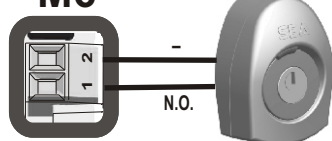
STOP (N.C.)

The pressure on this button immediately stops the motor in any condition/position. A start command is needed to re-start movement.

After a stop the motor always re-starts in closing.

Notice: If stop button is not used it is not necessary to close the N.C. contact between the clamps 1 and 2 of M9 as the absence of the stop is revealed during the selflearning phase of the times.

M6



START (N.O.)

An impulse given to this contact opens and closes the automation depending on logic selected. It can be given by a key switch, a keypad, etc. To connect the other devices refer to the related instructions leaflets. (ie. loop detectors and proximity switches)

Note1: In DEAD MAN logic it is necessary to keep pressed the Start for the opening of the automation.



JOLLY OPTION

Can be activated through the Jolly programmer or modifying either the PHOTO entry or the PEDESTRIAN entry. In both cases it's a N.O. contact which provokes the opening of the automation keeping it open until it is activated. When it's released, the gate attends the set pausing time and executes the reclosing.

Note2: When activated on the pedestrian entry, the pedestrian will be disabled also on the radio transmitter.

Note3: In case of intervention of a security device during the timer (Stop, Ammeter, Edge), to restore the movement it will be necessary to give a start impulse.

Note4: In case of no power supply with open gate and active Timer the control unit will restore its use, otherwise if during restore of the power supply the TIMER is not activated it will be necessary to give a start impulse for the reclosing.

TIMER





ENCODER - LIMIT SWITCH

Encoder / Ammeter sensor

The encoder is a device that allows to reveal possible obstacles during the opening and the closing of the gate. When this device intervenes in opening it causes the inversion of the movement for around a second, if it intervenes in closing it causes the total reopening.

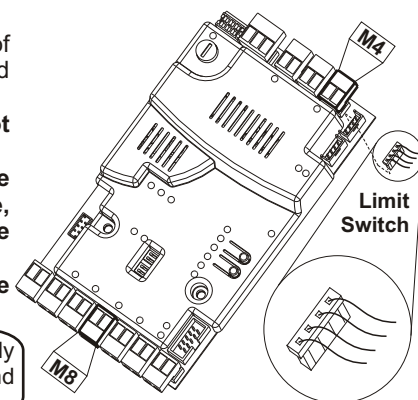
Note 1: Such function is active through an ammeter sensor on the control board. It is not necessary to mount any external devices for the respect of the normative.

Note2: The ammeter sensitivity is adjustable both in opening and in closing through the JOLLY terminal. On the control unit the torque can be adjusted in 4 steps: low, middle, middle high, high and will be the same in opening and closing. With high torque the gate reverses after 5 seconds.

Attention: after every intervention of the ammeter sensor it is necessary to give a start impulse to restore the movement.



JOLLY functions: With the JOLLY programmer the torque parameters can be adjusted linearly from 10% to 100% on each single motor. Furthermore, they are differentiable between opening and closing.



Limit switch

For the functioning the presence of both the limit switch in closing and in opening are necessary.

For the right functioning of the limit switch the movement direction of the motor and the respective busy limit switches must correspond. Through DIP3 it is possible to exchange contemporarily the direction of the motor and of the limit switches.

Note: if during programming phase the motor and limit switch times should not result in phase between them, the gate will start in closing, it stops and will not complete the selflearning of the times, at this point it will be necessary to switch off the tension and to invert the cables of the motor and to eventually exchange the motor direction on DIP 3. The first movement in selflearning must always be executed in closing.

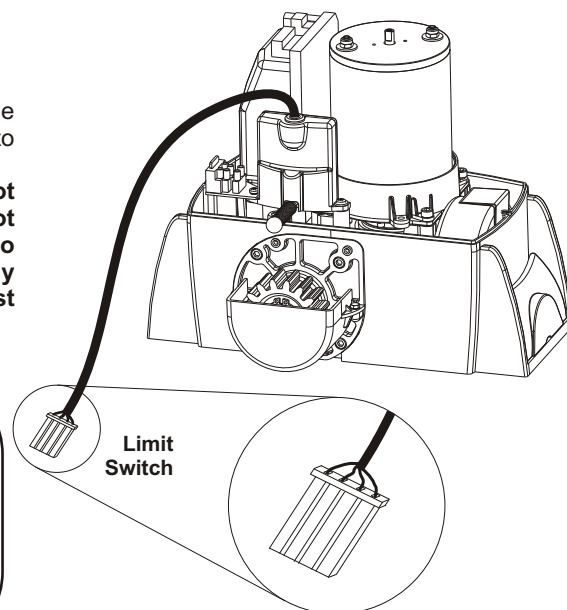
Com = Common

C = Contact

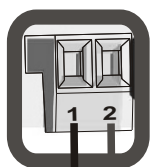


JOLLY functions:

- 1) With the Jolly programmer such function is tied up to the presence of at least one limit switch and it's possible to activate the function anti-intrusion. When the limit switch is free it forces the motor to re-close.
- 2) With the Jolly programmer it is possible to exchange the motor and the limit switch without setting DIP3 of the control unit.



SECURITY EDGE AND WARNING LAMP



It is possible to connect an active safety edge on the terminal M8. If this device is pressed it opens the contact causing a partial inversion of the movement both in opening and in closing. If not used bridge the contacts 1 and 2 of M8. Note: contact N.C.

M8

Costa di sicurezza



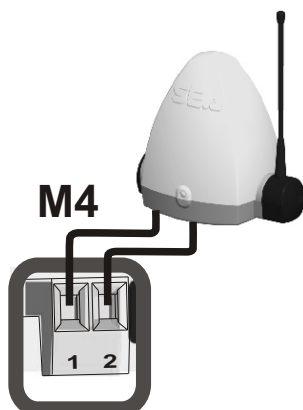
JOLLY FUNCTIONS:

It is possible to activate the balanced edge 8K2, in this case the edge contact will be controlled by a specific value of resistance revealing the eventual unintentional short circuit of the device. In case of an unbalance of the device the corresponding led of the terminal board M8 will flash quickly.

Flashing Lamp 24V --- 15W (Warning lamp)

The warning lamp advises that the automatic gate is moving with 1 flash /second in opening and 2 flashes / second in closing. During pause it remains fixed on.

Connect the cables of the warning lamp as shown in the figure. The pre-flashing function can be activated with the Jolly terminal or with Led 4 of the menu through the SET and MENU buttons.



JOLLY functions:

It is possible to activate a pre-flashing of 3 seconds before activating the automation, on setting pre-flashing on ON, through the Jolly programmer. Furthermore from the flashing lamp it is possible to verify some alarm signals. See alarms indications.

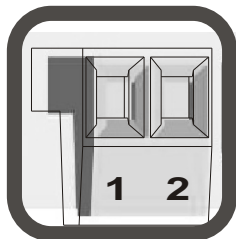
Through the Jolly programmer it is possible to set this exit with fixed flashing also when the gate is not moving or it is possible to change this exit into control lamp. In such case all the indications of alarm remain on the warning lamp as long as they are active.



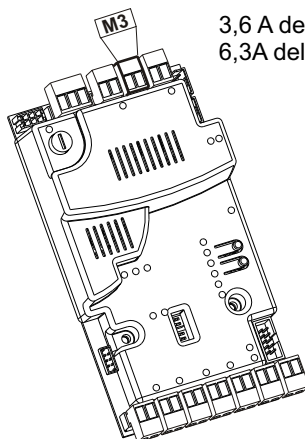
MOTOR POWER SUPPLY

M3

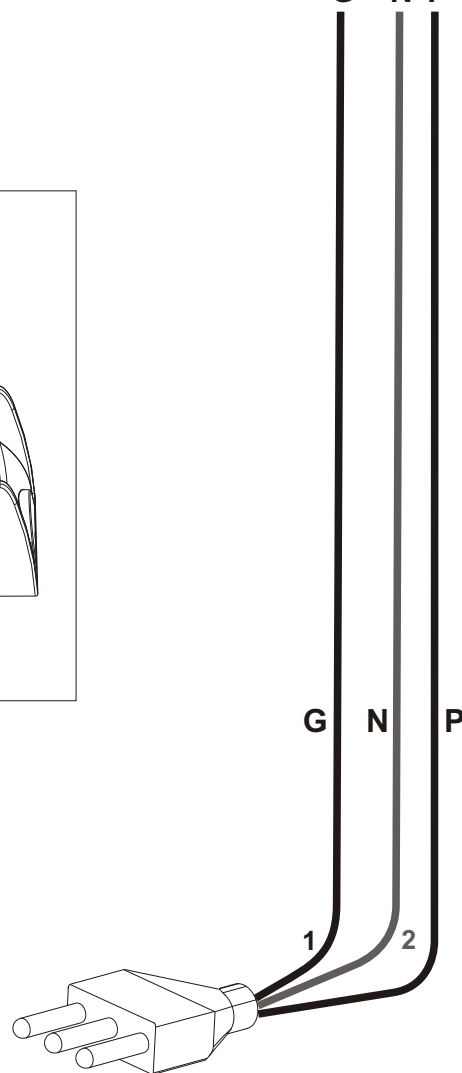
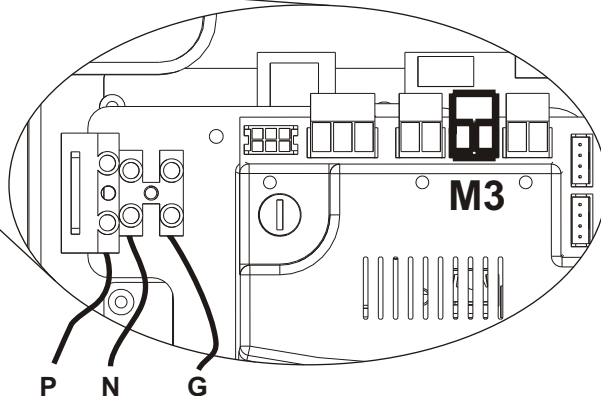
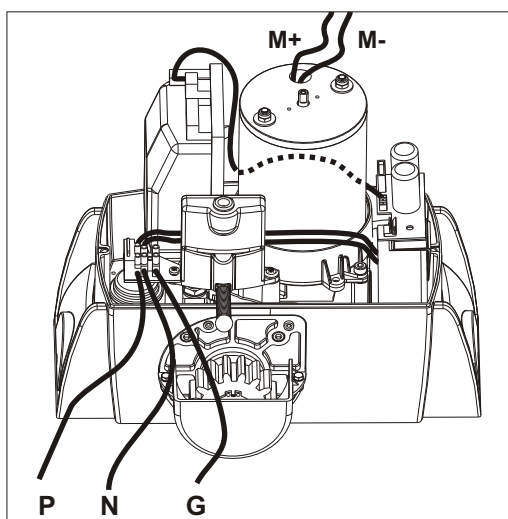
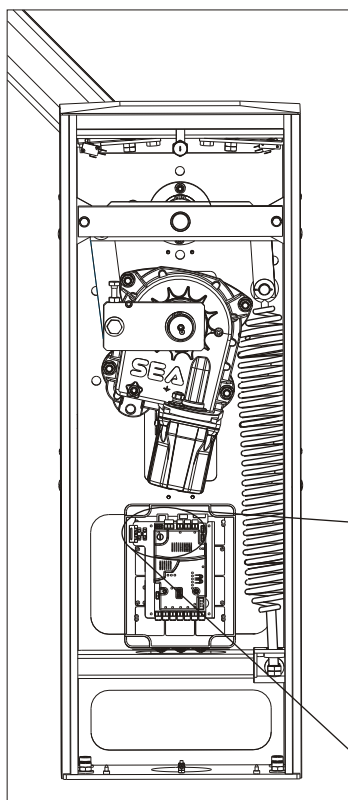
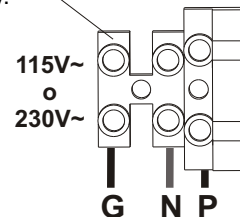
Motor
connection



M+M-



3,6 A delayed fuse on 230V ~ power supply .
6,3A delayed fuse on 115V ~ power supply.



Power input

Input for the connection of the electric power.

P = PHASE - LIVE

N = NEUTRAL

G = GROUND

NOTICE: for the connection to the electric power see the law in force.

SELFLEARNING WITH DEFAULT PARAMETERS

The control unit is pre-set with the default settings, to learn the working times it is sufficient to press the Menu button once and to hold pressed the SET button until the motors start in closing. The settings of **DEFAULT** are: **AUTOMATIC LOGIC**, **ENCODER OFF**, **SPEED 80%**, **PRE-FLASHING OFF**, **PAUSE 10S.**, **TORQUE 75%**, **SLOWDOWN SPEED 40%**, **LEARNING SPEED 80%**, **ACCELERATION 70%**, **DECELERATION 30%**, **LEAF STROKE OFF**, **ANTI-INTRUSION OFF**, **SELFTEST OFF**, **PEDESTRIAN 30%**, **PHOTO OPENING OFF**, **MAX CYCLES 100000**, **SLIDING MOTOR TYPE**, **WARNING LAMP NORMAL**, **PHOTO/TIMER OFF**, **PEDESTRIAN/TIMER OFF**, **CLOS.FOTO OFF**, **BALANCED EDGE OFF**, **24Vaux ALWAYS**, **START IN PAUSE OFF**, **AUTOMATIC CLOSING OFF**. IF YOU WANT TO RESTORE THE DEFAULT SETTINGS JUST SWITCH ON THE CONTROL UNIT KEEPING PRESSED THE BOUTONS MENU AND SET CONTEMPORARILY.



WORKING TIMES SELF LEARNING

Note1: it is not necessary to put a jumper between the STOP, PHOTOCELL contacts if they are not used. If they are used during selflearning phase they must stay (N.C.).

Note2: If accessories are connected on the BUS, align the photocells before programming, as shown in the description of the BUS system.

1) Make sure that each accessory (photocells, push buttons, and so on) works properly.

2) If necessary adjust the self-learning speed through the palm user.

3) Disconnect the power supply (Fig. 1), release the motor (Fig. 2) and put the leaves manually next to the stop in closing (Fig. 3-4). Reset the mechanical lock (Fig. 5)

4) Connect the control board to the power supply (Fig.6).

5) Select the desired type of motor; use as shown on pag. 28 or through JOLLY programmer.

6) Press the button "SET" until the led of the color corresponding to the type of application (Encoder ON, Encoder OFF) switches on.

7) Hold pressed the button "SET" until the motor starts in closing and then release the button.

Note: If FOTOBUS are present, check their alignment and give a new impulse on SET to start the programming.

Note: If the motor starts in opening, switch of the power supply and set DIP 3 on ON or if you have a Jolly terminal, activate the motor and limit switch exchange function. If the motor starts in closing and stops, switch off the power supply and invert the cable of the motor, afterwards repeat the procedure starting from step 4.

Note: If you do not have a Jolly terminal the functions of the DIPs on board of the control unit can be activated setting DIP4 on ON. If DIP4 is activated the functions which can be activated through DIP cannot be changed through the Jolly terminal.

8) The motor will close with the set speed.

9) After having reached the limit switch of closing it automatically will execute an opening cycle (Fig.7). After having reached the limit switch in opening it will automatically execute a closing cycle.

10) Wait for the end of the closing of the leaf (Fig.8). The self-learning is done.

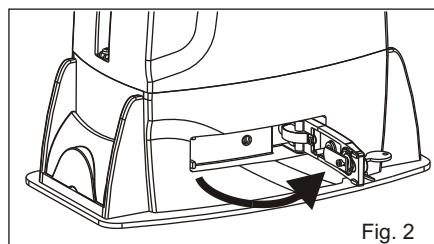
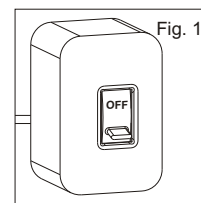


Fig. 2

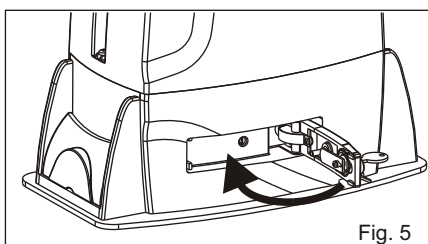


Fig. 5

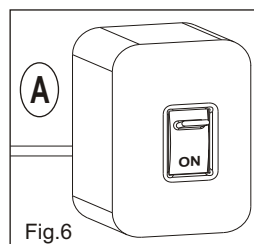


Fig.6

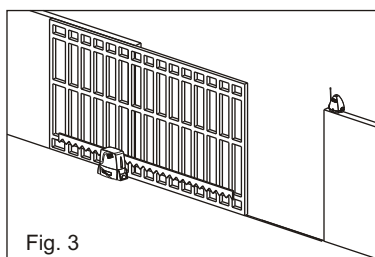


Fig. 3

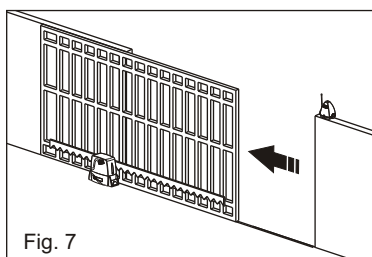


Fig. 7

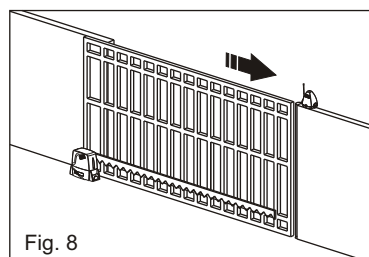


Fig. 8

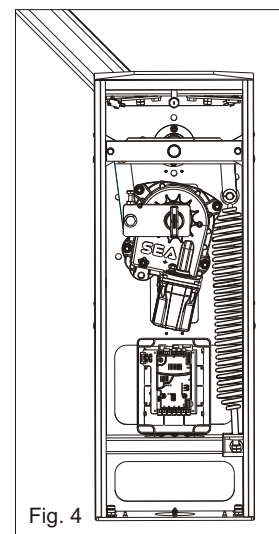


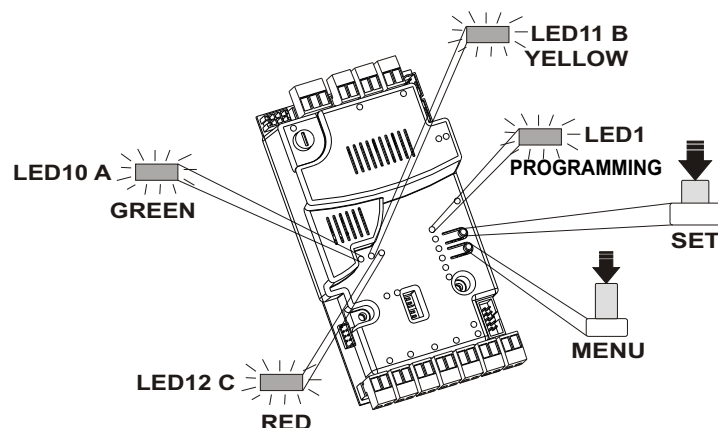
Fig. 4

A) Select LED 1 of the self-learning through the MENU button, with LED 1 turned on press button SET to choose the function modality:

-Led L10 A green on = Encoder ON

-Led L11 B yellow ON = Encoder OFF

B) Once the functioning modality has been chosen, always with Led10 A switched on, hold pressed SET up to the departure of the motors in closing and then release the button.



A) Press the "Menu" button so that to turn on the LED1

B) Press the "IMP" button till the Led of the colour which corresponds to the type of installation (Encoder ON or Encoder OFF) turns on.

Keep pressed the button "SET" till the departure of the motor in closing and then release the button.



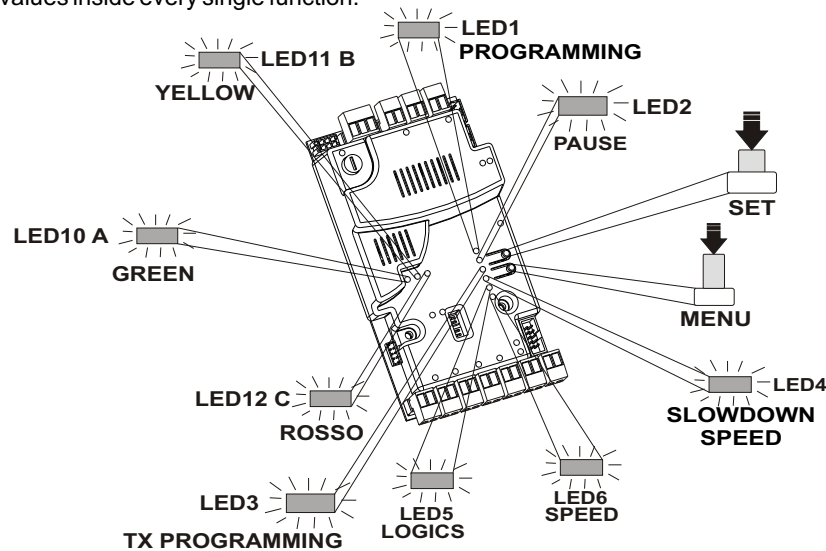
JOLLY functions:

- 1) With the JOLLY programmer it is possible to start the programming without using the MENU and SET button.
- 2) With the JOLLY programmer it is possible to choose the type of motor and the type of application without using the MENU and SET buttons.



SELECTION OF THE SETTINGS

The adjustments of the control unit are executed through the buttons "MENU" and "SET". Pressing the "MENU" button you select the Leds corresponding to the various functions to be set, pressing the "SET" button you select the leds corresponding to the desired values inside every single function.



Selecting **LED 2** with the "MENU" button you enter into pausing time regulation, with **LED 2** turned on, hold pressed the selected button "SET" for the desired time of pause. According to the colour that the leds 10 A, 11 B and 12 C will assume it will be possible to have an order of the length of the set time of pause. If the button is released and pressed again the time of pause will be annulled.

Led L10 A green turned on Time of pause <15 S.

Led L11 B yellow turned on Time of pause <45 S.

Led L12 C red turned on Time of break >45 S. up to 180 S.



JOLLY function: With the JOLLY programmer it is possible to adjust linearly this parameter without using the MENU and SET buttons.

Selecting **LED 4** with the "MENU" button you enter into the slowdown speed adjustment, with **LED 4** turned on, press the button "SET" till to select the desired leaf delay, observing the colours of the leds 10 A, 11 B and 12 C.

Led L10 A green slowdown speed 30%

Led L11 B yellow slowdown speed 35%

Led L10 A - Led L11 B Green-yellow slowdown speed 45%

Led L10 A - Led L12 C Green-red slowdown speed 50%



JOLLY function: With the JOLLY programmer it is possible to change this parameter without using the MENU and SET buttons.

Selecting **LED 5** with the "MENU" button you enter into the choice of the functioning logics, with **LED 5** turned on, press the button "SET" till to select the desired logic, observing the colours of the Leds 10 A, 11 B and 12 C.

Led L10 A green on dead man logic

Led L11 B yellow turned on automatic logic

Led L12 C red turned on security logic

Led L10 A green and L11 B yellow step by step type 1 logic

Led L11 B yellow and L12 C red Step by step type 2 logic



JOLLY function: With the JOLLY programmer it is possible to select the logic without using the MENU and SET buttons on the control unit.

Selecting **LED 5** with the "MENU" button you enter into the choice of the motors' speed, with **LED 5** turned on, press the button "SET" till to select the desired speed, observing the colours of the leds 10 A, 11 B and 12 C.

Led L10 A green turned on slow speed

Led L11 B yellow turned on middle speed

Led L12 C red turned on high speed

Hold pressed "SET" for more then 5 seconds to annul the executed number of cycles



JOLLY function: With the JOLLY programmer it is possible to select the speed without using the MENU and SET buttons on the control unit.

Selecting **LED 1** and **LED 2** (with alternate flashing) with the "MENU" button you enter into the motor torque adjustment. With **LED 1** and **LED 2** flashing alternatively keep pressed the button "SET" while selecting the desired torque observing the color of the **LEDS 10 A, 11 B, 12 C**.

Led L10 A green turned on, torque = Low

Led L11 B yellow turned on, torque = Middle

Led L12 C red turned on, torque = Middle high

Led L10 A, L11 B and L12 C turned on, troque = High



JOLLY function: With the Jolly programmer this parameter is adjustable linearly and differentiable for single opening direction without using the SET and MENU buttons on the control unit.

Selecting **LEDS 5 and 6** (with alternate flash) with the "MENU" button you enter into the choice of the type of motor that you are using.

Note: In default the control unit is set on sliding motor.

Led 10 A green sliding

Led 11 B yellow hydraulic barrier



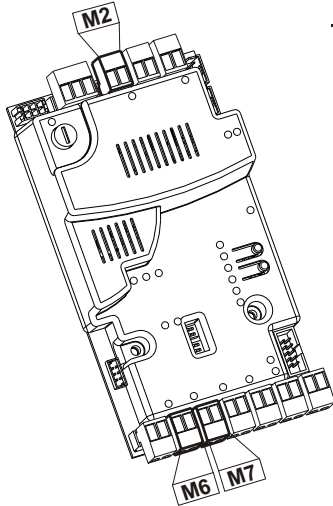
JOLLY function: With the Jolly programmer it is possible to select the motor type without using the SET and MENU button on the control unit.

After 5 seconds without having pressed any button, the parameters' adjustment function will be automatically left.

If the control unit turns on when holding pressed the buttons "MENU" and "SET" contemporarily, the control unit will start with the DEFAULT parameter (see preceding page).

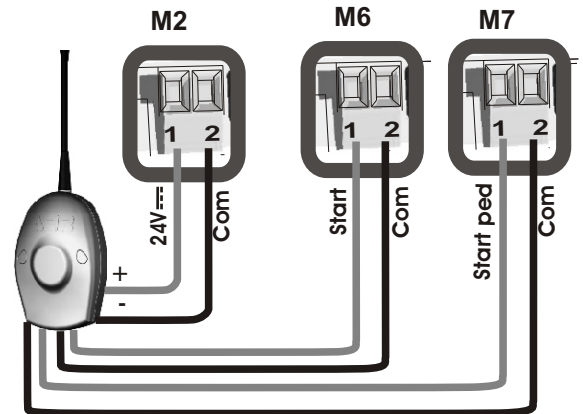


EXTERNAL RECEIVER



Example: Connection of a radio receiver

For the connection of the receiver refer to the relative instructions manual.



RADIO TRANSMITTER SELF LEARNING WITH RECEIVER ON BOARD OF CONTROL UNIT

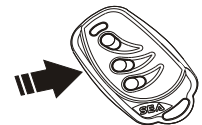
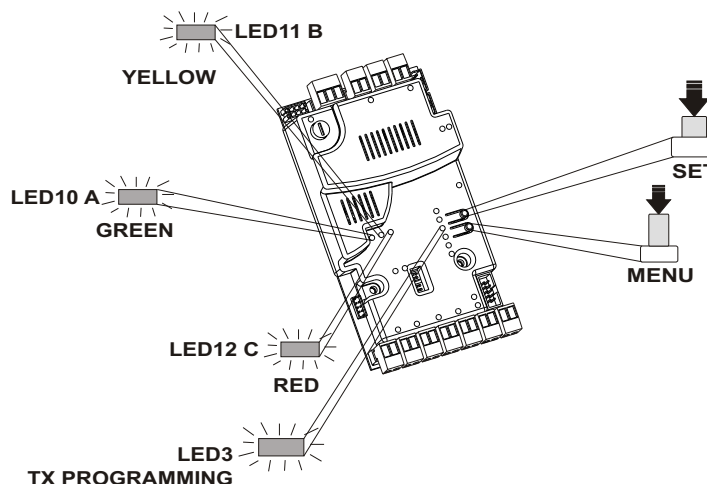
⚠ WARNING: Make the radio transmitters programming before you connect the antenna and insert the receiver into the special CMR connector (if available) with turned off control unit. (The control unit automatically recognizes if the receiver is a RF or RF Roll module)

Note: With a RF module it will be possible to use only 12 bit radio transmitters, that are Coccinella Dip and Copy and Smart Dual. With RF Roll module it will be possible to use only Coccinella Roll radio transmitters.

1. Select LED 3 with the MENU push button, at this point press the button "SET" and the LED 3 will flash together with the LED 10 A (green) to signal that it waits for a code to be associated to the total opening;
2. Press the desired button of the radio transmitter, the LED 10 A (green) will turn off to signal the memorisation of the data; now it returns to flash for 5 seconds waiting for other codes.
3. If it is desired to also associate a command to the pedestrian start, press **SET** again, the LED 11 B (yellow) will flash for signalling that it is waiting for a code to be associated to the **pedestrian opening**;
4. Press the desired button of the radio transmitter, LED 11 B will turn off to signal the memorisation of the data; now it will turn to flash waiting for other codes to be associated to the pedestrian start. If no other buttons are pressed within 5 seconds the programming will be left.
5. At this point it is possible to press the desired button of the radio transmitter and the LEDs 10 A, 11 B, 12 C (green, yellow, red) will show the available memory, LED 10 A (green) shows the occupied memory, less than 50%, LED 11 B (yellow) shows the occupied memory, more than 50%, LED 12 C (red) full memory.
6. To delete all memorized codes keep pressed for more than 5 seconds the adjusted button until the LEDs yellow B, red C and green A will flash contemporarily to confirm the cancellation.



JOLLY functions: It is possible to monitor the state of occupation of the of the radio transmitter memory.



Notes:

- Enter radio transmitters learning only when the working cycle stops and the gate is closed.
- It's possible to memorize up to 800 codes (buttons).
- If all available codes have already been memorized and you try to memorize a further code, the led 12 C (red) will flash for signalling the error.
- If the board receives a code which was already associated to another function it will be updated with the new function.



FUNCTION LOGIC

AUTOMATIC LOGIC

A start impulse opens the gate. A second impulse during the opening will not be accepted.

A start impulse during closing reverses the movement.

To activate the automatic re-closing put DIP1 and DIP4 on ON.

With DIP2 and DIP4 on ON start in pause is activated

SECURITY LOGIC

A start impulse opens the gate. A second impulse during opening reverses the movement.

A start impulse during closing reverses the movement.

To activate the automatic re-closing put DIP1 and DIP4 on ON.

With DIP2 and DIP4 on ON start in pause is activated.

STEP BY STEP TYPE 1 LOGIC

The start impulse follows the OPEN-STOP-CLOSE-STOP-OPEN logic.

To activate the automatic re-closing put DIP1 on ON.

With DIP2 it is possible to choose whether to make accept the start in pause or not.

STEP BY STEP TYPE 2 LOGIC

The start impulse follows the OPEN-STOP-CLOSE - OPEN logic.

To activate the automatic re-closing put DIP1 on ON.

With DIP2 it is possible to choose whether to make accept the start in pause or not.

DEAD MAN LOGIC

The gate opens as long as the **START** button of opening is pressed; releasing it the gate stops. The gate closes as long as the button connected to the **PEDESTRIAN START** is pressed; releasing it the gate stops. To execute complete opening and/or closing cycles the related pushbuttons must be constantly pressed.



JOLLY function: With the JOLLY programmer it is possible to select the logic without using the SET and MENU buttons on the control unit.



Jolly option:

If you dispose of a Jolly programmer it is possible to activate the automatic reclosing and the start in pause from the programmer without accessing the control unit.

DESCRIPTION OF THE BUS SYSTEM

The BUS is a connecting system through which it is possible to connect different accessories among which: photocells, key switches, warning lamps, numerical keyboards and key selectors, all in parallel on the same entry and all through two only threads. This system therefore allows to eliminate the two threads of the power supply for the accessories, therefore every accessory will be equipped with only two threads. Every accessory is equipped with a rotating changer, which allows to join the various devices according to a numerical sequence which defines the particular function assigned to that accessory.

Photocells' alignment

If photocells are connected on the BUS it is necessary to line up the same before programming. To do the alignment it is necessary to start a self-learning cycle of the times. At this point, the gate will stand still, as long as the photocells are not lined up. Once the photocells have been lined up, push the SET button to restart the self-learning of the times.

Photocells BUS addressing

Rotating Changer on TX and RX on 0 or 1 = photocell active only in opening Rotating Changer on TX and RX on 2 or 3 = photocell active only in closing Rotating changer on TX and RX on 4 = photocell both in opening and in closing.

The positions from 6 to 9 are interpreted as active photocells both in closing and in opening.

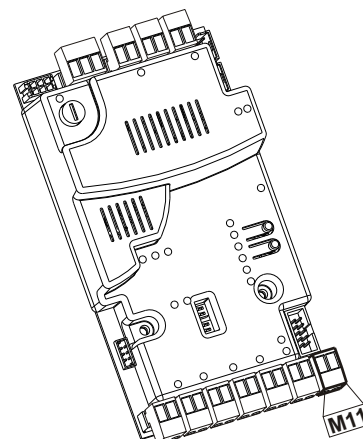
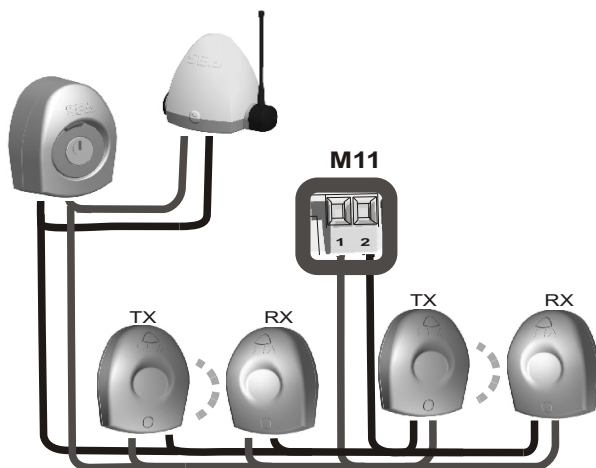
Note: Two couples of photocells with the same function have to have a different number. For ex. on two couples in closing TX and RX of the first one will have the number 2, TX and RX of the second couple will have the number 3.

Initialization BUS

Connect all the devices in parallel on the clamp M11 or in parallel between them.

At the lighting of the control unit make sure that the LED13 (red) performs some fast flashes, at this point, if the red led remains turned on this means that there is an error on the BUS, signalled from the display or by 8 flashes on the warning lamp, but if the red led will keep on flashing slowly the BUS is perfectly working.

NOTE: To repeat the search of the peripheral BUS in case of BUS error, press contemporarily the buttons + and - of the display, or press the button until LED 11 B turns on. At this point keep pressed SET as long as LED 11 B does not turn off and LED 10 A turns on.





PROGRAMMER JOLLY PARAMETERS ADJUSTMENT

The JOLLY programmer allows to keep under control and to change all parameters of the control unit without need to use the SET and MENU buttons of the control unit. Furthermore, it is essential for the initial setting of some parameters which are not settable directly on the control unit which are: selftest photocell, photocell in opening, anti-intrusion, separate regulation of the motor torque in opening and closing, slow-down speed, learning speed, acceleration, deceleration, leaf stroke, number of cycles, pedestrian opening, foto/timer, ped/Timer, 24Vaux, control lamp, balanced edge, closing with photocell.

Note: Through the JOLLY programmer it is also possible to start the selflearning of the working times.

Screen 1

Language: Italian	With buttons + and - it is possible to modify the language ←
-------------------	--

← The arrow shows that the parameter is modifiable with the buttons + and -

Screen 2

Cycle	Automat./Secur./Step by step1/Step by step2/Dead man ←
Encoder	on/off (function with encoder, not implemented) ←
Time of pause	[0÷120]s (time of pause in seconds) ←

→ Shows the working logic adjusted on board of the control unit.

Screen 3

Learning	on alignment/off (signalling of the execution of the learning) ←
Cicli exec.	[0÷2 ³²] (number of executed cycles)
Mem. free	[0÷100]% (percentage of available memory for the learning of remote controls)

Note: The alignment appears only if photocells are present on the BUS.

Screen 4

Motor	(Sliding) (Barrier) ←
Speed	[30÷100] adjusts the motors' speed ←
Sl. speed	[30÷100] adjusts the slow down speed ←
Lear. Speed.	[30÷100] adjusts the learning speed ←

→ Indicates the type of motor set

Screen 5

Photocell Tx1	[OK-NP] (peripheral reveal - not present)
Photocell Tx2	[OK-NP] (peripheral reveal - not present)
Photocell TX3	[OK-NP] (peripheral reveal - not present)

The screens 4, 5, 6, 7, 8 and 9 show the type of accessory on the BUS.

Screen 6

Photocell TX4	[OK-NP] (peripheral reveal - not present)
Photocell TX5	[OK-NP] (peripheral reveal - not present)

Screen 7

Photocell Rx1	[OK-NP] (peripheral reveal - not present)
Photocell RX2	[OK-NP] (peripheral reveal - not present)
Photocell Rx3	[OK-NP] (peripheral reveal - not present)

Screen 8

Photocell RX4	[OK-NP] (peripheral reveal - not present)
Photocell RX5	[OK-NP] (peripheral reveal - not present)

Screen 9

Interface relay	[OK-NP] (peripheral reveal - not present)
Flashing lamp	[OK-NP] (peripheral reveal - not present)



PROGRAMMER JOLLY PARAMETERS ADJUSTMENT

NOTE: For the respect of the valid European rules on the safety of the electric gates, it is recommended to not adjust the parameters **torque Max 1** and **torque Max 2** on the value 100%.

Screen 10		
Accelerat.	[0÷100]% (inclination of the ramp of acceleration)	←
Decelerat.	[0÷100]% (inclination of the ramp of acceleration)	←
Pedestrian op.	[30,50,100]% (percentage pedestrian opening)	←

It allows to regulate the duration of the acceleration of the motors on the start. If on 100% the gate will immediately depart at the max. adjusted speed

It allows to regulate the duration of the deceleration of the motor at the end of opening and closing. If on 0% the gate won't effect the phase of deceleration.

Screen 11		
Torque op. M1	[10÷100]% (max. current of the motors)	←
Torque clo. M1	[10÷100]% (max. current of the motors)	←

Allows to regulate and to visualize the sensitivity of the anti-squeezing for single opening direction. With value 100% the gate in presence of obstacle will reverse the movement after 5 seconds.

Screen 12		
Anti-intrusion	on/off (in ON it implicates the presence of a contact N.C. On the limit switch that, if freed, forces the motors in closing)	←
Pre- flashing	on/off (activation of the pre-flashing)	←
Autotest photo.	on/off (activates autotest photocell)	←
Max cycle	0÷100000 (indicates the number of cycles after which it is necessary to follow up the maintenance)	←

Normal:

1 Flash/s in opening
2 Flash/s in closing
On in pause

Control lamp: the alarm signals remain until they are eliminated

Continuous: flashes always also when gate is not in movement

Screen 13		
Warning lamp	Normal/Control/Continuous	←
Photo in opening	on/off (activation photocell in opening)	←
Reverse stroke	on/off (Disabled)	←
Posit. recover	0% 100%	←

If activated in opening it stops the automation as long as it is occupied. When restored in opening the opening continues, in closing it reverses the movement.

Screen 14		
Photo/Timer	ON/OFF On ON the PHOTO entry becomes TIMER	←
Ped/Timer	ON/OFF On ON the PED entry becomes TIMER	←
Clos. Photo	ON/OFF On ON if the photocell is occupied the gate recloses interrupting the pause	←
Balanced edge	on/off (In ON it is necessary to insert in series to the edge contact a 8K2 Ohm resistance)	←

Allows to optimize the point of slowdown beginning in case of inversion of the motion and in function of the weight of the gate

Screen 15		
24V aux	During cycle/in opening/in closing/in Pause/Always	←
Autom. clos.	ON/OFF If on ON at the end of the set pause the gate re-closes automatically	←
Start on pause	ON/OFF If on ON with autom. Clos. on ON a start impulse provokes the immediate re-closing of the autom.	←
Mot. rev.	ON/OFF Allows to exchange contemporarily the limit switch and the motor rotation direction without disconnecting the wires	←

Allows to decide when having power supplied the exit 24V Aux.

Note : After this operation it is necessary to switch off the power supply of the motors and to repeat the selflearning of the times. If the motor is not synchronized with the limit switch, during selflearning the automation stops on the first limit switch it recognizes without completing the selflearning of the times. In that case it will be necessary to switch off the power supply again, to manually exchange the wires of the motor and to repeat the selflearning.

Screen 16		
List of events	Shows the last 10 events on the control unit	
N°10		←
N°9		
N°8		

Diagnostic 10 last events

CONNECTION OF BATTERIES TO BATTERY CHARGER CARD

Battery signals:

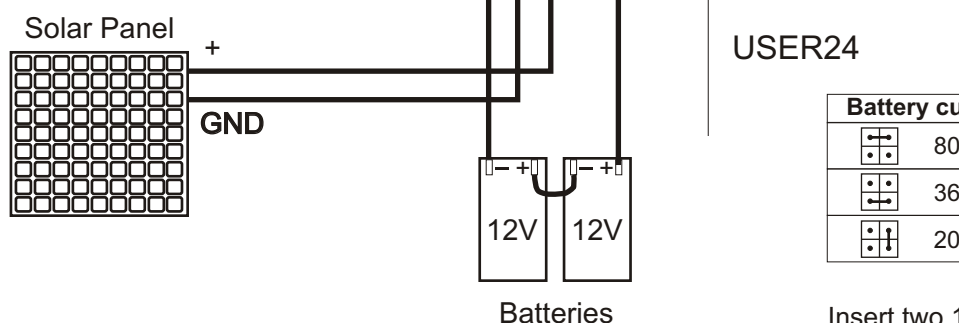
- Batteries loaded up to 20V:
green led turned on, red led turned off.

-Batteries with tension between 20 and 18V:

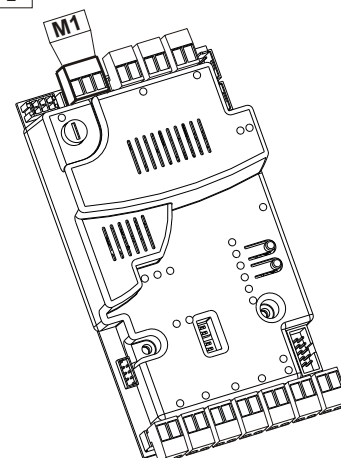
green led flashes, red led is off ; in absence of net the flashing lamp signals that the battery is unloaded sending flashes with less frequency.

- Unloaded batteries $< 18V$:

green led off, red led turned on fix. In absence of net the cycle will be stopped and the flashing lamp will send 10 flashes.



28V== Battery charger
(BAT) Positive battery
Negative battery charger



Battery current (mA)	Battery (Ah)
 800	12 or 16
 360	7
 200	2

Insert two 12V batteries connected in series.

ALARMS INDICATIONS

The flashing sequence is signalled at every opening and closing of the automation on the warning lamp. The warning lamp will send a flashing every second in opening and two flashings in closing, while it will remain turned on fixed in pause.

Flashings Number	Kind of alarm
2	Photocell
3	Photocell in opening
4	Safety edge
5	Stop

Flashings Number	Kind of alarm
6	Collision on obstacle
7	Reached maximum cycles
8	Alarm BUS
9	Motor failure
10	Alarm battery unloaded

ALARM SIGNALS

The dammages with 2,3, 4 and 5 flashings, refer to normally closed contacts, therefore verify if such are the connections and/or the correct working of the photocells, of the Stop button and/or of the safety edge.

2. The failure with 6 flashes refers to a collision with an obstacle which has been revealed by the ammeter sensor, therefore it is necessary either to repalce the motor or to verify the conditions of the connections.

3. Periodically, in relation to the number of manoeuvre and the type of gate, it is recommended to execute, if the gate has modified the attritions and it doesn't work, **the re-programming of the times of learning on the electronic board.**

The damage with 7 flashes refers to the attainment of the established maximum cycles for the maintenance of the control unit, therefore it is necessary to perform the maintenance and to put on zero the number of cycles, according to the following procedure: Through the button **SEL** select the **LED 6 of the motor's speed**, keep pressed the chosen button for more than 5 seconds.

4. The damage with 8 flashes indicates a generic error on the BUS, this means that there is a short circuit on one of the connected devices to the BUS, and it is necessary to verify the connections and the functionality of the connected devices or the connected devices are not correctly connected between them (see paragraph on the BUS management)

5. The damage with 9 flashes refers to the exceeding of the max. shreshold of supliable current from the central, therefore it is necessary to make sure that there is no short cut on the devices (f.ex. On the motor)



TROUBLE SHOOTING

Advices

Make sure all Safety LED are turned ON
All not-used N.C. contacts must have jumpers

Problem Found	Possibile Cause	Solution
Motor doesn't respond to any START impulse	a.) Jumper missing on one of the N.C. Contacts b.) Burnt fuse	a.) Check the connections or the jumpers on the connections of the safety edge, of the stop and of the photocell b.) Replace the burned fuse on the control unit led 1 turned on.
Gate doesn't move while the motor is running	a.) The motor is in the released position b.) There is an obstacle	a.) Re-lock the motor b.) Remove obstacle
Gate doesn't reach the complete Open / Closed position	a.) Wrong setting of the limit switches b.) Error on programming c.) Gate is stopped by an obstacle d.) Torque or speed too low	a.) Set limit switches b.) Repeat programming c.) Remove obstacle d.) Check fitting geometry following the operator installation manual e.) Increase torque parameter
The gate opens but doesn't close	a.) The photocell contacts are not closed b.) Ammeter alarm	a.) Check the LED or the jumpers or the signals indicated on the warning lamp b.) Check if the ammeter alarm has intervened and eventually increase the torque parameter.
The gate doesn't close automatically	a.) Pause time set to high b.) Control unit in semi-autom. logic	a.) Adjust pause time b.) Set DIP1 on ON or set "autom. closing" on the JOLLY programmer on ON.



WARNINGS, MAINTENANCE AND WARRANTY

This section of the manual is dedicated both to the technician and to the end user.

Don't allow people and children to stop in the area of function of the automation.

Don't leave transmitters or other devices of command in the reach of children to avoid unintentional activations of the automation.

The user has to avoid any attempt of intervention or reparation of the automation and must turn to qualified personal only.

MAINTENANCE

Considering the number of working cycles and the kind of gate, if the gate has changed the clutches and doesn't work it's necessary to periodically proceed, with **the learning times reprogramming on the electronic control unit**.

Periodically clean the optical systems of the photocells.

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 has been designed to be used exclusively as management equipment for automations of sliding gates, swing gates, sectional doors, overhead doors, barriers.

SAFETY AND ENVIRONMENTAL COMPATIBILITY

Disposal of the packaging materials of products and/or circuits should take place in an approved disposal facility.



REGULAR PRODUCT DISPOSAL (electric and electronic waste)

(It's applicable in EU countries and in those ones provided with a differential waste 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 waste at the end of life cycle. In order to avoid any possible environmental or health damage caused by irregular waste disposal, we recommend to separate this product from other forms of waste and to recycle it in a responsible way in order to provide the sustainable re-use of material resources. Domestic users are invited to contact the retailer where the product has been purchased or the local office in charge of all the information related to differential waste collection and recycling of this kind of product.

STORING

WAREHOUSING TEMPERATURES			
T_{min}	T_{Max}	Dampness_{min}	Dampness_{Max}
- 20°C	+ 65°C	5% <i>Not condensing</i>	90% <i>Not condensing</i>

Materials handling must be made with appropriate vehicles..

REPLACEMENT AND MAINTENANCE

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

WARRANTY LIMITS

The warranty form of the electronic equipment 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 ANY DAMAGE 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 SALES

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 costumers are made under the prescription of this terms of sales which are integral part of sale contract and cancel and substitute all apposed clauses or specific negotiations present in order document received from the buyer.

GENERAL NOTICE The systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EM12453 – EM 12445) 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.

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. The special sales conditions with extra discount on quantity basis (Qx, Qx1, Qx2, Qx3 formula) is reserved to official distributors under SEA management written agreement.

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 non-compliance of safety standards and good practice during installation and use of the purchased products.

8) WARRANTY The standard warranty period is 12 months. This warranty time can be extended by means of expedition of the warranty coupon as follows:

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. 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 assembly. 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.

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 purchases propriety of the goods only after full payment of the latter.

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. SEA reserves the faculty to make technical changes to improve its own products, which are not 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: once the Buyer has recognized that SEA has the exclusive legal ownership of the registered SEA brand, he will commit himself to use it in a way which does not reduce the value of these rights, he won't also remove, replace or modify brands or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any particularity on the products, unless preventive and expressed authorization by SEA.

In accomplishment with art. 1341 of the Italian Civil Law it will be approved expressly clauses under numbers:

4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LOW



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 comando User 1 24V (e tutti i suoi derivati)	23024060/65	SEA
<i>Control Unit User 1 24V (and all its by-products)</i>	<i>23024060/65</i>	<i>SEA</i>

è costruito per essere incorporato in una macchina o per essere assemblato con altri macchinari per costruire una macchina ai sensi della Direttiva 2006/42/CE:

is built to be integrated into a machine or to be assembled with other machinery to create a machine under the provisions of Directive 2006/42/CE:

è conforme ai requisiti essenziali di sicurezza relativi al prodotto entro il campo di applicabilità delle Direttive Comunitarie 2006/95/CE e 2004/108/CE.

it is conforming to the essential safety requirements related to the product within the field of applicability of the Community Directives 2006/95/CE and 2004/108/CE.

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)
Teramo, 25/06/2010

L'Amministratore
The Administrator
Ennio Di Saverio


[illegible]



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