ITALIANO

MANUALE D’USO

Nel ringraziarVi per la preferenza accordata a questo prodotto, la ditta è certa che da esso otterrete le prestazioni necessarie al Vostro uso.

1) GENERALITÀ
Il quadro comandi LEO D UL viene fornito dal costruttore con settaggio standard. Qualsiasi variazione, deve essere impostata mediante il programmator a display incorporato o mediante programmatori palmare universale. La Centralina supporta completamente il protocollo EELINK compresa l’autoutilamentazione del programmator da centralina.
È disponibile in due versioni: per installazione esterna, all’interno della scatola SD, o montata e precablatà all’interno dell’attuatore.
Le caratteristiche principali sono:
- Rallentamento della velocità all’accostamento.
- Regolazione elettronica della coppia.
- Frenatura elettrodinamica regolabile.
- Ingressi di fine-corsa chiusura / apertura
- Ingressi separati per le sicurezze.
- Ingresso orologio.
- Ingresso collegamento protocollo seriale (opzionale).
- Ricevitore radio incorporato

2) FUNZIONI
PER L’INSTALLATORE: compilare la tabella con i parametri impostati al fine di facilitare future modifiche e manutenzioni.

| PARAMETRI                  | Visto e non indicato per 
|                           | l’installazione esterna.
|                            | all’interno della scatola SD, o
| Apertura parziale          | montata e precablatà all’interno
| Tempo Chiusura Automatica | dell’attuatore.
| Encoder                    |
| Coppia apertura            | [75%]  
| Coppia chiusura            | [75%]  
| Coppia rallentamento       | [75%]  
| Freno                      | [0]    
| Zona                       | [0]    
| Spazio rallentamento       | [0]    | 

3) DEMOLIZIONE
Attenzione: Avvalersi esclusivamente di personale qualificato.
L’eliminazione dei materiali va fatta rispettando le norme vigenti. Nel caso di demolizione, non esistono particolari pericoli o rischi derivanti dal prodotto stesso. È opportuno, in caso di recupero dei materiali, che vengano separati per tipoologia (parti elettriche - rame - alluminio - plastica - ecc.).

4) SMANTELLAMENTO
Attenzione: Avvalersi esclusivamente di personale qualificato.
Nel caso la centralina venga smontata per essere poi rimontata in altro sito bisogna:
- Togliere l’alimentazione e scollegare tutto l’impianto elettrico.

ENGLISH

USER’S MANUAL

Thank you for buying this product, our company is sure that you will be more than satisfied with the product’s performance. The product is supplied with a “Warnings” leaflet and an “Instruction booklet”. These should both be read carefully as they provide important information about safety, installation, operation and maintenance. This product complies with the recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 89/336/EEC and 73/23/EEC, 98/37/EEC (and subsequent amendments).

1) GENERAL OUTLINE
The LEO D UL control panel is supplied by the manufacturer with standard setting. Any alteration must be set by means of the incorporated display programmer or by means of Universal palmtop programmer. The Control unit completely supports the EELINK protocol, including the programmer self-supply from the control unit. It is available in two versions: one for external installation, inside the SD box, the other fitted and pre-wired inside the controller.

Its main characteristics are:
- Slow down of end-of-run speed.
- Electronic torque setting
- Adjustable elettrodinamic braking
- Closing / opening limit-switch inputs
- Separate inputs for safety devices
- Clock input
- Serial protocol connection input (Option).
- Incorporato radio receiver

2) FUNCTIONS
FOR THE INSTALLER: Fill in the table with the parameters set, in order to facilitate future modifications and maintenance operations.
The preset values are indicated between square brackets [ ].

| PARAMETER MENU                  | Visto e non indicato per l’installazione esterna.
| Partial opening                | [1m]  
| Automatic Closing Time (TCA)   | [40s]  
| Encoder                        | [1]    
| Opening torque                 | [75%]  
| Closing torque                 | [75%]  
| Slow-down torque               | [75%]  
| Brake                          | [0]    
| Zone                           | [0]    
| Slow-down Distance             | [0]    |

3) SCRAPPING
Warning: This operation should only be carried out by qualified personnel. Materials must be disposed of in conformity with the current regulations. In case of scrapping, the automation devices do not entail any particular risks or danger. In case of materials to be recycled, these should be sorted out by type (electrical components, copper, aluminium, plastic etc.).

4) DISMANTLING
Warning: This operation should only be carried out by qualified personnel. When the control unit is disassembled to be reassembled on another site, proceed as follows:
- Disconnect the power supply and the entire electrical installation.
In the case where some of the components cannot be removed or are damaged, they must be replaced.

WARNINGS
Correct controller operation is only ensured when the data contained in the present manual are observed. The company is not to be held responsible for any damage resulting from failure to observe the installation standards and the instructions contained in the present manual.

The descriptions and illustrations contained in the present manual are not binding. The Company reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving the essential product features unchanged, at any time and without undertaking to update the present publication.
Thank you for buying this product, our company is sure that you will be more than satisfied with the product’s performance. The product is supplied with a “Warnings” leaflet and an “Instruction booklet”. These should both be read carefully as they provide important information about safety, installation, operation and maintenance. This product complies with the recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 89/336/EEC and 73/23/EEC, 98/37/EEC and subsequent amendments.

1) GENERAL SAFETY
WARNING! An incorrect installation or improper use of the product can cause damage to persons, animals, or things.
- The “Warnings” leaflet and “Instruction booklet” supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.
- Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children’s reach.
- Keep the instructions together with the technical brochure for future reference.
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- The Company declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documentation.
- Do not install the product in explosive atmosphere.
- The construction components of this product must comply with the following European Directives: 89/336/CEE, 73/23/EEC, 98/37/EEC and subsequent amendments. As for all non-EEC countries, the above-mentioned standards as well as the current national standards should be respected in order to achieve a good safety level.
- The Company declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.
- The installation must comply with the provisions set out by the following European Directives: 89/336/CEE, 73/23/EEC, 98/37/EEC and subsequent amendments.
- Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.
- Fit an omnipolar or magnetothermal switch on the mains power supply, having a contact opening distance equal to or greater than 3.5 mm.
- Check that a differential switch with a 0.03A threshold is fitted just before the power supply mains.
- Check that earthing is carried out correctly: connect all metal parts for closure (doors, gates etc.) and all system components provided with an earth terminal.
- Fit all the safety devices (photocells, sensor ridge, etc.) which are needed to protect the area from any danger caused by squashing, conveying and shearing.
- Position at least one luminous signal indication device (blinker) where it can be easily seen, and fix a Warning sign to the structure.
- The Company declines all responsibility with respect to the automation safety and correct operation when other manufacturers’ components are used.
- Only use original parts for any maintenance or repair operation.
- Do not modify the automation components, unless explicitly authorised by the company.
- Instruct the product user about the control systems provided and the manual operation in case of emergency.
- Do not allow persons or children to remain in the automation operation area.
- Keep radio control or other control devices out of children’s reach, in order to avoid unintentional automation activation.
- The user must avoid any attempt to carry out work or repair on the automation system, and always request the assistance of qualified personnel.
- Anything which is not expressly provided for in the present instructions, is not allowed.
- Installation must be carried out using the safety devices and controls prescribed by the EN 12978 Standard.
- During installation, the power supply wires must be positioned at adequate distance from the motor, in order to prevent them from being subject to excessive temperature.
- The cables entering the control unit must be kept well away from heated parts (dissipator, braking resistor etc.)

2) GENERAL OUTLINE
The LEO D UL control panel is supplied by the manufacturer with standard setting. Any alteration must be set by means of the incorporated display programmer or by means of universal palmtop programmer. The Control unit completely supports the EELINK protocol. It is available in two versions: one for external installation, inside the SD box, the other fitted and pre-wired inside the controller. Its main characteristics are:
- Slow down of end-of-run speed.
- Electronic torque setting
- Adjustable electrodynamic braking
- Closing / opening limit-switch inputs
- Separate inputs for safety devices
- Clock input
- Serial protocol connection input (optional)
- Incorporated radio receiver

The board is provided with a terminal board which can be pulled out for easier maintenance or replacement. The board is supplied with a series of pre-wired jumpers to facilitate the installer’s work. The jumpers relate to the following terminals: 21-23, 21-24 and 21-30. If the above-mentioned terminals are in use, remove their respective jumpers.

CHECK
The control unit runs a check on the operating relays and safety mechanisms (photocells, sensor ridge, etc.) before performing opening and closing cycles.

CONNECTION OF PHOTOCELLS AND SENSOR RIDGE:
By convention, refer to a receiver (Rx-fig.7) with 5 terminals of which terminals 1 and 2 are for the 24V~ power supply, terminal 3 is shared, terminal 4 is the normally closed contact when at rest, terminal 5 is the normally open contact when at rest. The contact is not powered.

LEGEND
RX: photocell or infrared edge receiver.
TX: photocell or infrared edge transmitter.

Numerous combinations can be obtained between photocells and infrared edges; the most frequently used types of connections are illustrated in figures 7 to 14.

- Fig.7 shows the connection of LEO D UL with 1 photocell and 1 infrared edge unchecked. In the logic menu, set the “test phot” and “test bar” functions to OFF.
- Fig.8 shows the connection of LEO D UL with 1 photocell and 1 infrared edge checked. 8a : 1 photocell checked 8b : 1 infrared edge checked 8a=8b : 1 photocell + 1 edge checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.
- Fig.9 shows the connection of LEO D UL with 2 photocells and 2 infrared edges checked. 9a : 2 photocells checked 9b : 2 infrared edges checked 9a+9b : 2 photocells + 2 edges checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.
- Fig.10 shows the connection of LEO D UL with 3 photocells and 3 infrared edges checked. 10a : 3 photocells checked 10b : 3 infrared edges checked 10a+10b : 3 photocells + 3 edges checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.
- Fig.11 shows the connection of LEO D UL with 4 photocells and 1 infrared edge checked. 11a : 4 photocells checked 11a+11b : 4 photocells + 1 edge checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.
- Fig.12 shows the connection of LEO D UL with 1 photocell and 4 infrared edges checked. 12b : 4 infrared edges checked 11a+11b : 1 photocell + 4 edges checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.
- Fig.13 shows the connection of LEO D UL with 4 photocells and 2 infrared edges checked. 13b : 2 infrared edges checked 13a+13b : 4 photocells + 2 edges checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.
- Fig.14 shows the connection of LEO D UL with 2 photocells and 4 infrared edges checked. 14b : 4 infrared edges checked 14a+14b : 2 photocells + 4 edges checked
- In the logic menu, set the “test phot” and “test bar” functions to ON.

3) TECHNICAL SPECIFICATIONS
Power supply: 120V±10% 60Hz* 
Mains/low voltage insulation: > 2MOhm 500V= 
Dielectric strength: mains/low voltage 3750V~ for 1 minute
6) CONFIGURATION
The display programmer is used to set all the LEO D UL control panel functions.

The programmer is provided with three pushbuttons for menu scrolling and function parameter configurations (Fig. 2): + menu scrolling/value increment key - menu scrolling/value reduction key OK Enter (confirm) key

The simultaneous pressure of the + and – keys is used to exit the active menu and move to the preceding menu.

If the + and – keys are pressed simultaneously at the main menu level (parameters, logics, radio, language), programming is exited and the display is switched off (the OK message is displayed).

The modifications made are only set if the OK key is subsequently pressed.

When the OK key is pressed for the first time, the programming mode is entered. The following pieces of information appear on the display at first:

- Control unit software version
- Number of total manoeuvres carried out (the value is expressed in thousands, therefore the display constantly shows 0000 during the first thousand manoeuvres)
- Number of manoeuvres carried out since the last maintenance operation (the value is expressed in thousands, therefore the display constantly shows 0000 during the first thousand manoeuvres)
- Number of memorised radio control devices

When the OK key is pressed during the initial presentation phase, the first menu (parameters) can be accessed directly.

Here follows a list of the main menus and the respective submenus available.

The predefined parameter is shown between square brackets [ 0 ].

The writing appearing on the display is indicated between round brackets.

Refer to Figures A and B for the control unit configuration procedure.

6.1) Parameter Menu (Pr RP)
1- Partial opening (Pr RP b. oPe)n [ 001.0 m ]
   - Number of memorised radio control devices

2- Automatic Closing Time (tva cFa) [ 40 s ]
   - Number of total manoeuvres carried out from 3 to 180 seconds.

3- Encoder (enCodEn) [ 1 ]
   0: operation without encoder: timed slow-down, obstacle detection function not active. (The encoder can be disconnected). Manual setting of “opening torque”, “closing torque” and “slow-down torque” parameters.
   1: operation with encoder: used as position sensor to acquire slow-down values (default).

   WARNING: Check that the impact force value measured at the points established by the EN 12445 standard is lower than that specified in the EN 12453 standard.

   Incorrect sensitivity setting can cause injuries to persons or animals, or damage to things.

4- Opening torque (oPeN b rQue) [ 75% ]
   - Motor power specifications (the value is expressed in thousands, therefore the display constantly shows 0000 during the first thousand manoeuvres)

5- Closing torque (cL 5 b oQe) [ 75% ]
   - Motor power specifications (the value is expressed in thousands, therefore the display constantly shows 0000 during the first thousand manoeuvres)

- Motor closing torque value between 1% and 99%.

6- Slow-down torque (SL o b rUL) [ 75% ]
   - Set the motor opening and closing slow-down torque value between 1% and 99%.

7- Brake (br RP) [ 0% ]
   - The required brake value between 0 and 99%, compatibly with the weight of the gate and the existing stresses.

8- Zone (ZonEn) [ 0 ]
   - Set the zone number between a minimum value of 0 and a maximum value of 128. See paragraph 11 on “Serial connection”.

9- Slow-down Distance (sldLoUd) [ 000 ]
   - Set the required slow-down distance for opening and closing between 0 cm and 100 cm. The 000 cm value does not carry any slow-down.

   NOTE: If a slow-down distance value other than 000 cm is set, after the first manoeuvre, power failure, reset or manual gate release, the control panel carries out a complete manoeuvre at reduced speed, in order to learn the length of gate stroke.

6.2) Logic Menu (Log i c)
- TCA (tva Fa) [ OFF ]
   ON Activates automatic closing
   OFF Excludes automatic closing
3 Steps [3 StEP] [OFF]
ON Enables 3-step logic. A start impulse has the following effects:
- door closed: ................................................................. opens on opening:............................................stops and enters TCA (if configured)
- door open: ............................................................... closes on closing:............................................................ reverses movement after stopping: opens
OFF Disables 3-step logic.
- Opening Impulse lock (lbl. aPen) [ON]
ON The Start impulse has no effect during the opening phase.
OFF The Start impulse becomes effective during the opening phase.
- Impulse lock TCA (lbl. cPen) [OFF]
ON The Start impulse has no effect during the TCA dwell period.
OFF The Start impulse becomes effective during the TCA dwell period.
- Pre alarm (Pr-RL, Pr-R[OFF]) [OFF]
ON The blinker comes on about 3 seconds before the motor starts.
OFF The blinker comes on at the same time as the motor starts.
- Hold-to-run (Hold-to-rUn) [OFF]
ON Hold-to-run operation: the manoeuvre continues as long as the command key is kept pressed.
OFF Impulse operation: one impulse opens the gate if closed, and closes it if open.
- Rapid closing (FRSc cLs) [OFF]
ON Closes the gate after photocell disengagement, before waiting for the end of the TCA (automatic closing time) set.
OFF Command not entered.
- Photocells on opening (Phoc. aPen) [ON]
ON: In case of obscuring, this excludes photocell operation on opening. During the closing phase, it immediately reverses the motion.
OFF: In case of obscuring, the photocells are active both on opening and on closing. When a photocell is obscured on closing, it reverses the motion only after the photocell is disengaged.
- Master/Slave ([MrSt,Fls,Pr]) [OFF]
(Advanced logics => address 11)
ON The control panel is set as Master in a centralised connection (see Paragraph 11).
OFF The control panel is set as Slave in a centralised connection (see Paragraph 11).
- Photocell test (Phst, aPen) [OFF]
(Advanced logics => address 13)
ON Activates photocell check (see fig. 7 to 14)
OFF Deactivates photocell check.
- Electric edge test (ELst, bRr) [OFF]
(Advanced logics => address 14)
ON Activates electric edge check (see fig. 7 to 14)
OFF Deactivates electric edge check.
- Fixed code (F wrEd, coEd) [OFF]
(Advanced logics => address 13)
ON The receiver is configured for operation in fixed-code mode, see paragraph on “Radio Transmitter Cloning”.
OFF The receiver is configured for operation in rolling-code mode, see paragraph on “Radio Transmitter Cloning”.
- Radio transmitter programming (rRd lo PrEd) [ON]
(Advanced logics => address 15)
ON This enables transmitter storage via radio:
1 – First press the hidden key (P1) and then the normal key (T1, T2, T3 or T4) of a transmitter already memorised in standard mode by means of the radio menu.
2 – Within 10s press the hidden key (P1) and the normal key (T1, T2, T3 or T4) of a transmitter to be memorised.
The receiver exits the programming mode after 10s, other new transmitters can be entered before the end of this time.
This mode does not require access to the control panel.
OFF This disables transmitter storage via radio.
The transmitters can only be memorised using the appropriate Radio menu.

6.3) Radio Menu (rRd lo)
- Add Start button (rRd StRl)
associates the required key to Start command
- Read (rErEd)
Checks one key of a receiver; if stored it displays a message showing the receiver number in the memory location (from 01 to 64), and the key number (T1, T2, T3 or T4).
- Eliminate list (E, ERSÉ 5°)
WARNING! Completely removes all memorised radio control devices from the receiver memory.
- Receiver code reading (rH coEd)
This displays the code entered in the receiver.

6.4) Language Menu (L RSCURGE)
Allows you to set the language on the display programmer.
4 languages are available:
- ITALIAN (lFl)
- FRENCH (FFl)
- ENGLISH (EFl)
- SPANISH (ESFl)

6.5) MENU DEFAULT (dERFUL)
Restores the preset default values on the control unit. After restoring, a new autoset operation must be carried out.

6.6) DIAGNOSTICS AND MONITORING
The display on the LEOL D UL panel shows some useful information, both during normal operation and in the case of malfunctions.

Diagnostics:
In the case of malfunctions, the display shows a message indicating which device needs to be checked:
- STRT = START input activation
- STOP = STOP input activation
- PHOT = PHOT input activation
- FLT = FAULT input activation for checked photocells
- SWO = input activation OPENING LIMIT SWITCH
- SWC = input activation CLOSING LIMIT SWITCH
- PED = input activation PARTIAL OPENING
- OPEN = OPEN input activation
- CLS = CLOSE input activation
- BAR = input activation SAFETY EDGE
- TIME = TIMER input activation

In the case where an obstacle is found, the LEOL D UL panel stops the door and activates a reverse manoeuvre; at the same time the display shows the “BAR” message.

6.7) Statistics
Having connected the universal palmtop programmer to the control unit, enter the CONTROL UNIT / STATISTICS menu and scroll the screenful showing the statistical parameters:
- Board microprocessor software version.
- Number of cycles carried out. If motors are replaced, count the number of manoeuvres carried out up to that time.
- Number of cycles carried out from the latest maintenance operation.
- It is automatically set to zero after each self-diagnosis or parameter writing.
- Date of latest maintenance operation. To be updated manually from the appropriate menu “Update maintenance data”.
- Installation description. 16 characters can be entered for installation identification.

7) INTEGRATED RECEIVER TECHNICAL SPECIFICATION
Receiver output channels:
- output channel 1, if activated, controls a START command.

Transmitter versions which can be used:
all Rolling Code transmitters compatible with ANTENNA INSTALLATION

Use an antenna tuned to 433MHz.

For Antenna-Receiver connection, use RG8 coaxial cable.
The presence of metallic masses next to the antenna can interfere with radio reception. In case of insufficient transmitter range, move the antenna to a more suitable position.

8) RECEIVER CONFIGURATION
Cloning operations can be carried out with the special Universal palmtop programmer only. The on-board receiver combines characteristics of utmost safety in copying variable code (rolling code) coding with the convenience of carrying out transmitter “cloning” operations thanks to an exclusive system.
Cloning a transmitter means creating a transmitter which can be automatically included within the list of the transmitters memorised in the receiver, either as an addition or as a replacement of a particular transmitter.
Cloning by replacement is used to create a new transmitter which takes the place of the one previously memorised in the receiver; in this way a specific transmitter can be removed from the memory and will no longer be usable.
Therefore it will be possible to remotely program a large number of additional transmitters or, for example, replacement transmitters for those which have been lost, without making changes directly to the receiver.
When coding safety is not a decisive factor, the on-board receiver allows you to carry out fixed-code additional cloning which, although abandoning the variable code, provides a high number of coding combinations, therefore keeping it possible to “copy” any transmitter which has already been programmed.
PROGRAMMING
Transmitter storage can be carried out in manual mode or by means of the Universal palmtop programmer which allows the complete installation database to be managed through the Eedbase software. In this second case, receiver programming takes place through the connection of Universal palmtop programmer to the LEO D UL control panel, using the UNIFLAT and UNIDA accessories as indicated in Fig. 4.

9) MANUAL PROGRAMMING
In the case of standard installations where advanced functions are not required, you can proceed to manual storage of the transmitters, making reference to fig. B for basic programming.

- If you wish the transmitter to activate output 1 (START) by means of key1, key2, key3 or key4, enter the transmitter in menu “Start key”, as in fig. B.

  Note: Hidden key P1 appears differently depending on the transmitter model.
  For transmitters with hidden key, press hidden key P1 (fig. B). For transmitters without hidden key, the key P1 function corresponds to simultaneously pressing the 4 transmitter keys or, after opening the battery compartment, bridging the two P1 points by means of a screwdriver (fig. B).

IMPORTANT NOTE: ATTACH THE ADHESIVE KEY LABEL TO THE FIRST MEMORIZED TRANSmitter (MASTER).
In the case of manual programming, the first transmitter assigns the key code to the receiver; this code is necessary in order to carry out subsequent cloning of the radio transmitters.

10) RADIO-TRANSMITTER CLONING
Rolling-code cloning / Fixed-code cloning
Make reference to the universal palmtop programmer Instructions and the CLONIX Programming Guide.

10.1) ADVANCED PROGRAMMING: COLLECTIVE RECEIVERS
Make reference to the universal palmtop programmer Instructions and the CLONIX Programming Guide.

11) SERIAL CONNECTION USING SCS1 BOARD (Fig.5)
The LEO D UL control panel allows several automation units (SCS1) to be connected in a centralised way by means of appropriate serial inputs and outputs. This makes it possible to use one single command to open and close all the automation units connected.
Following the diagram in Fig.5, proceed to connecting all the LEO D UL control panels, exclusively using a telephone-type line.
Should a telephone cable with more than one pair be needed, it is indispensable to use wires from the same pair.
The length of the telephone cable between one appliance and the next must not exceed 250 m.
At this point, each of the LEO D UL control panels must be appropriately configured, by setting a MASTER unit first of all, which will have control over all the others, to be necessarily set as SLAVE (see logic menu).
Also set the Zone number (see parameter menu) between 0 and 127.
The zone number allows you to create groups of automation units, each one answering to the Zone Master unit. Each zone can only be assigned one Master unit, the Master unit in zone 0 also controls the Slave units in the other zones.

11.1) Opposite sliding leaves (Fig.6)
Only with 2.7 or later microprocessor version.
By means of a serial connection, it is also possible to obtain centralised control of two opposite barriers/gates.
In this case, the Master M1 control panel will simultaneously manage closing and opening for the Slave M2 control panel.

SETTING REQUIRED FOR OPERATION:
- MASTER board: 0x0E=128, 0x5E=0=ON
- SLAVE board: 0x0E=128, 0x5E=0=OFF

WIRING REQUIRED FOR OPERATION:
- The MASTER and SLAVE control units are interconnected through the 4 wires (RX/ TX) for the SCS1 interface boards;
- All the activation controls, as well as the remote controls must refer to the MASTER board;
- All the photocells (checked or unchecked) must be connected to the MASTER control panel;
- The safety edges (checked or unchecked) of the MASTER leaf must be connected to the MASTER control unit;
- The safety edges (checked or unchecked) of the SLAVE leaf must be connected to the SLAVE control unit.

12) SCRAPPING
Warning: This operation should only be carried out by qualified personnel.
Materials must be disposed of in conformity with the current regulations. In case of scrapping, the automation devices do not entail any particular risks or danger. In case of materials to be recycled, these should be sorted out by type (electrical components, copper, aluminium, plastic etc.).

13) DISMANTLING
Warning: This operation should only be carried out by qualified personnel.
When the control unit is disassembled to be reassembled on another site, proceed as follows:
- Disconnect the power supply and the entire electrical installation.
- In the case where some of the components cannot be removed or are damaged, they must be replaced.

The descriptions and illustrations contained in the present manual are not binding. The Company reserves the right to make any alterations deemed appropriate for the technical, manufacturing and commercial improvement of the product, while leaving the essential product features unchanged, at any time and without undertaking to update the present publication.
ACCESS TO MENUS

Press the OK key

Control unit software version
No. total manoeuvres (in hundreds)
No. manoeuvres since latest maintenance (in hundreds)
No. radio control devices memorised

Press the OK key

Parameter increment/reduction
or ON/OFF commutation
Menu scrolling
(+ = preceding   - = following)

OK! message (confirms modification made)

OK

ACCESS TO MENUS

Simultaneously press the + and - keys. Simultaneous pressure of the + and – keys allows you to exit the active menu and return to the preceding menu; if this takes place at the main menu level, programming is exited and the display switched off.

The modifications made are only confirmed if the OK key is subsequently pressed.

Simultaneously press the + and – keys.

Preset value

OK

Simultaneously press the + and – keys
allows you to exit the active menu and return to
the preceding menu; if this takes place at the
main menu level, programming is exited and
the display switched off.

The modifications made are only confirmed if
the OK key is subsequently pressed.

Simultaneously press the + and – keys.

Preset value

OK

Simultaneously press the + and – keys
allows you to exit the active menu and return to
the preceding menu; if this takes place at the
main menu level, programming is exited and
the display switched off.

The modifications made are only confirmed if
the OK key is subsequently pressed.

Simultaneously press the + and – keys.
**Fig. A**

- **Preceding Menus**
  - OK
  - Press the OK key.
  - OK!

- **Parameter increment/reduction or ON/OFF commutation**
  - (+ = preceding   - = following)
  - Press OK key (Enter/confirm)
  - OK!

- **ACCESS TO MENUS**
  - Simultaneously press the + and - keys.
  - Simultaneous pressure of the + and – keys allows you to exit the active menu and return to the preceding menu; if this takes place at the main menu level, programming is exited and the display switched off.

- **Modifications made are only confirmed if the OK key is subsequently pressed.**
  - OK!

**Fig. B**

- **Control unit software version**
  - OK

- **No. total manoeuvres**
  - OK

- **No. manoeuvres since latest maintenance (in hundreds)**
  - OK

- **No. radio control devices memorised**
  - OK

- **KO! message (value or function error)**

- **“Wait” message (enter value or function)**

- **Simultaneously press the + and - keys.**

- **Press P1 (pushbutton) on radio control device.**

- **Press the required T (key) on radio control device – see Fig. B3**

- **Release P1 on radio control device**

- **Press the required T (key) on radio control device – see Fig. B3**

- **Press the required T (key) on radio control device – see Fig. B3**

- **OK! message (confirms modification made)**

- **OK! message (confirms modification made)**

- **Simultaneously press the + and - keys.**

- **Press P1 (pushbutton) on radio control device.**

- **OK! message (confirms modification made)**

- **OK! message (confirms modification made)**

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- **OK! message (confirms modific
Fig. 1

Fig. 2

Fig. 3

JP1

JP2

JP3

JP8

JP9

ALARM

<table>
<thead>
<tr>
<th>SOUND PATTERN SELECTION</th>
<th>1 CONTINUOUS link A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 LONG PIP link A &amp; E</td>
<td></td>
</tr>
<tr>
<td>3 SHORT PIP link A &amp; D</td>
<td></td>
</tr>
<tr>
<td>4 SHRIEK 1 link A B D</td>
<td></td>
</tr>
<tr>
<td>5 SHRIEK 2 link A C E</td>
<td></td>
</tr>
<tr>
<td>6 WARBLE 1 link A B</td>
<td></td>
</tr>
<tr>
<td>7 WARBLE 2 link A C</td>
<td></td>
</tr>
<tr>
<td>8 TWO TONE 1 link B</td>
<td></td>
</tr>
<tr>
<td>9 TWO TONE 2 link C</td>
<td></td>
</tr>
</tbody>
</table>

Utilizzare un pulsante a ritenuta
Use a hold-to-run button
Utiliser un bouton à action maintenue
Utilice un botón de retención

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