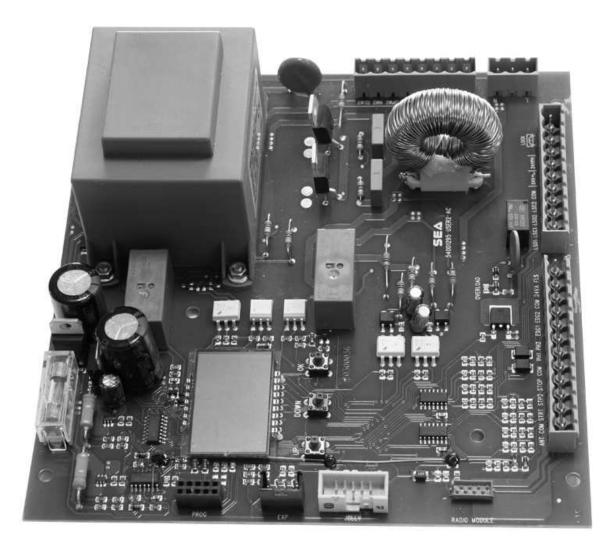




(Cod. 23023025)

#### CENTRALE ELETTRONICA PER 1 O 2 MOTORI A 230V/115V ELECTRONIC CONTROL UNIT FOR 1 OR 2 230V/115V MOTORS ARMOIRE DE COMMANDE POUR 1 OU 2 MOTEURS EN 230V/115V CENTRAL ELECTRÓNICA PARA 1 O 2 MOTORES A 230V/115V



#### SEA S.p.A. Zona industriale 64020 S.ATTO Teramo - (ITALY) Tel. +39 0861 588341 r.a. Fax +39 0861 588344

### www.seateam.com

seacom@seateam.com



### **CONNESSIONI / CONNECTIONS / CONNEXIONS CONEXIONES / VERBINDUNGEN**

ATTENZIONE: la scheda è predisposta con il riconoscimento automatico degli ingressi N.C. non utilizzati 🛛 (fotocellule, Stop e finecorsa) ad eccezione degli ingressi COSTA DI SICUREZZA.

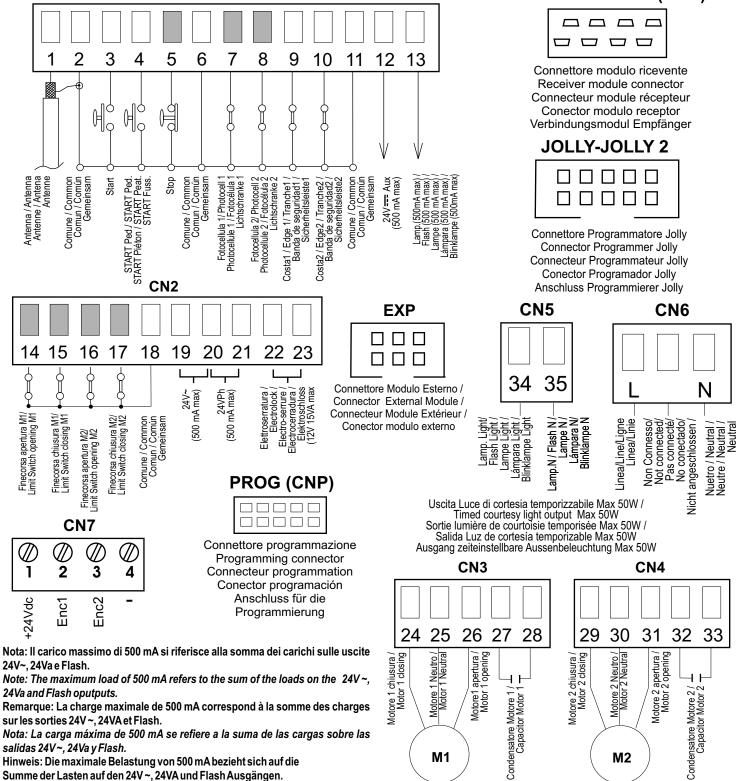
WARNING: The control unit is designed with the automatic detection of not used N.C. inputs (photocells, Stop and Limit switch) except the SAFETY EDGE inputs.

AVERTISSEMENT: L'armoire est conçue avec la détection automatique des accès N.C. pas utilisés (photocellules, Stop et fins de course), à l'exception des accès BARRE PALPEUSE DE SECURITE. ATENCIÓN: la tarjeta está predispuesta con el reconocimiento automático de las entradas N.C. no

utilizados, fotocélulas, stop y fin de carrera, con excepción de las entradas COSTA DE SEGURIDAD. ACHTUNG: Die Steuerung ist mit der automatischen Erkennung der nicht verwendeten N.C. Eingänge,

CN1

ausgestattet (Lichtschranken, Stop-und Endschalter) ausgenommen des Sicherheitsleisten Eingangs.



24Va and Flash oputputs.

Remarque: La charge maximale de 500 mA correspond à la somme des charges sur les sorties 24V ~, 24VA et Flash.

Nota: La carga máxima de 500 mA se refiere a la suma de las cargas sobre las salidas 24V~, 24Va y Flash.

Hinweis: Die maximale Belastung von 500 mA bezieht sich auf die

Summe der Lasten auf den 24V ~, 24VA und Flash Ausgängen.

Rev.04 - 06/2013

M1



M2





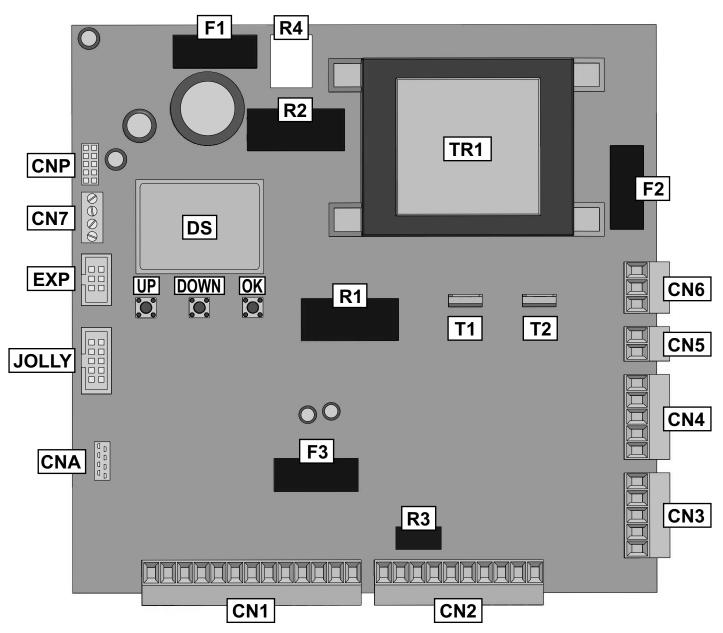
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## **COMPONENTS**



- **CN1** = Input/output connectors
- CN2 = Limit switch, 24V~, Electrolock connector
- CN3 = M1 Motors and capacitors connector
- CN4 = M2 motors and capacitors connector
- CN5 = Courtesy light output connector
- **CN6** = Power supply connector
- **CN7** = Encoder connector
- **CNA** = Receiver connector
- **CNP** = Porgramming connector
- **EXP** = Expansion module connector
- **JOLLY** = Jolly connector
- **DS** = Programming display

- **OK** = Programming button
- **DOWN** = Programming button
- **UP** = Programming button
- T1 = Motors piloting Triac
- T2 = Motors piloting Triac
- R1 = Motors comand relay
- R2 = Courtesy light comand relay
- **R3** = Photocell autotest relay
- R4 = Electrolock relay
- F1 = Accessories 1A fuse
- F2 = 6.3AT fuse on 230V/10AT on 115V
- F3 = 6.3A Electrolock fuse
- TR1 = Power transformer





## **GENERAL INFORMATION**

The information on this page are only for technicians or for qualified or authorized installers.

#### **GENERAL DESCRIPTION**

The GATE 2 DG R1 control unit has been designed to control one or two 230V/115V 50/60 Hz motors with or without electronic limit switches.

The great news is the LCD display on board through which you can see and set in a simple and complete way all functions of the control unit.

#### **TECHNICAL SPECIFICATIONS**

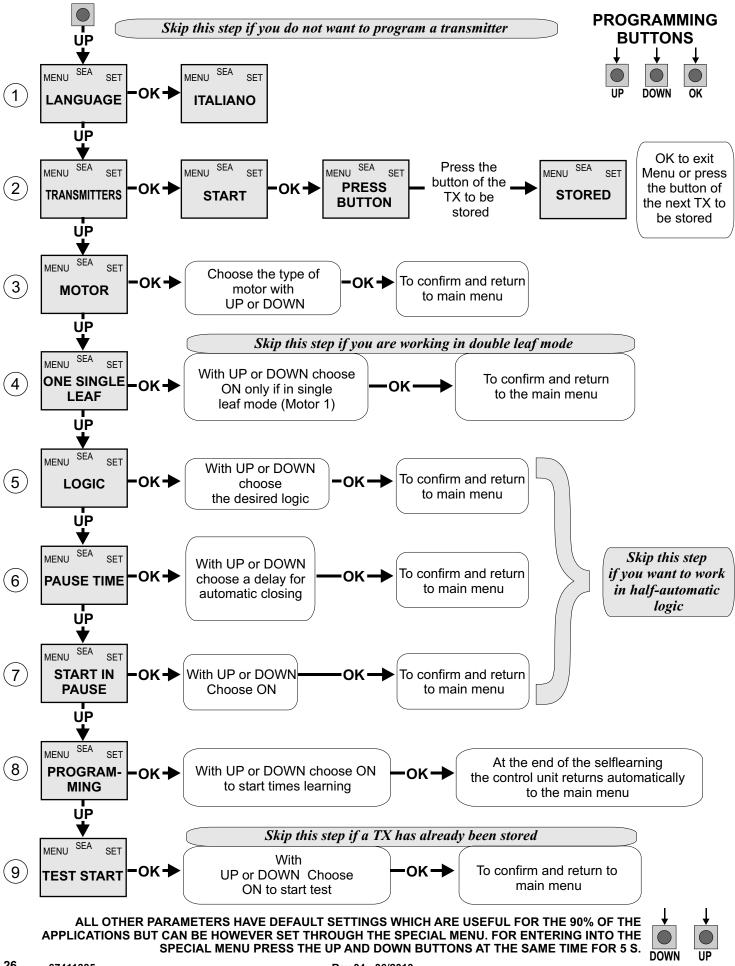
| Control unit power supply                               | 230 Vac 50/60 Hz - 115Vac 50/60 Hz                   |  |  |
|---|--|--|--|
| Absorption in stand by                                  | 30 mA  |  |  |
| Max. motor charge                                       | 800 W /motor   |  |  |
| Max. accessories charge 24V (24VA)                      | 24V=== 500mA   |  |  |
| Max. Flash light charge                                 | 24V(FL) 15W max.                                     |  |  |
|   | We recommend to use 24V Flash (Led)                  |  |  |
| Environment temperature                                 | -20°C∦ +50°C∦  |  |  |
| Accessories / Power/                                    | F1 (1 AT) / F2 (6.3 AT) / F3 (6.3 AT)                |  |  |
| Electrolock protection                                  |  |  |  |
| Function logic  | Automatic/S.by Step1/S.By Step2/Sec./Dead man/2Butt. |  |  |
| Opening/closing time                                    | In selflearning in programming phase                 |  |  |
| Time of pause   | Adjustable (from oFF to 4 min)                       |  |  |
| Thrust  | Adjustable Opening and Closing for single leaf       |  |  |
| Slowdown space  | Adjustable Opening and Closing for single leaf       |  |  |
|   | Total opening / Pedestrian opening adjustable /      |  |  |
| Input on connecting terminal                            | Balanced edge in opening and closing /               |  |  |
|   | Stop / Limit switch opening and closing /            |  |  |
|   | Photocell 1 and Photocell 2/ Encoder                 |  |  |
| Output on connecting terminal                           | (FLS) Flash 24V / LAMP(Max 50W) /                    |  |  |
|   | 24V~ / Motors / 24VA (Max 500 mA)                    |  |  |
| Board dimensions  | 168 X 174 X 65 mm                                    |  |  |
| Specifications of external enclosure                    | 325,7 X 246 X 140                                    |  |  |
| Special accessories:                                    | Relay card for traffic light management              |  |  |
| <ul> <li>Traffic light card on AUX connector</li> </ul> | (SEM Cod. 23021100),                                 |  |  |
| <ul> <li>Programmer on Jolly connector</li> </ul>       | Programmer JOLLY (cod.23105276),                     |  |  |
| - OPEN on Prog. Connector for                           | Programmer JOLLY 2 (cod.23105277),                   |  |  |
| software upgrating                                      | Programmer OPEN (cod.23105290)                       |  |  |

### The herein reported functions are available starting from revision 22.





## **QUICK START**







## **WORKING TIMES SELF LEARNING**

The control unit is pre-set with the default settings, to start the control unit with the DEFAULT settings just keep pressed the UP and DOWN buttons at the same time power supplying the control unit the display shows the message in k. The DEFAULT settings are shown in the Menues table.

#### WORKING TIMES SELFLEARNING THROUGH IMPULSES

ATTENTION: This procedure is potentially dangerous and should only be performed by qualified people in safety conditions.

## NOTE: The card is preset with the standard working times, therefore the automation can be started even without the times programming, simply by adjusting the timing on the display (see default times).

1) Turn off electricity, release the motors and manually position the leaves on halfway.

Reset the mechanical lock.

2) Connect the control board to the power supply

3) Select on the on-board display or JOLLY programmer, the type of motor that you are using as indicated in the dispaly management (RELHRA IE - ELEEL-oHYdrRuL IE, etc).

4) If necessary also set the operation logic and the other parameters. If you want to program with a transmitter, store a transmitter before programming.

5) Select ProGrAMM InG on the display, press OK and than one of the UP or DOWN buttons.

(If the motor starts in opening, remove and re-put power supply, select on the display <u>-EUEr5E Notor</u>. And through the UP and DOWN button put it on ON, or if you have the Jolly programmer, activate the motor exchange function.) 6) At this point the gate will start the following cycle: CLOSING M2 - CLOSING M1 - OPENING M1 - OPENING M2 -CLOSING M2 - CLOSING M1. During cycle, to store the respective stops, press UP or DOWN or START at every point of stop of the leaf.

7) The self-learning is done.

#### SELFLERNING OPERATION TIME WITH ENCODER

When an encoder is installed, it is necessary to select an in the EnEadEr menu, start programming and make sure that leaf 2 starts as first in closing. The gate will automatically execute the following cycle: CLOSING M2 - CLOSING M1 - OPENING M1 - OPENING M2 - CLOSING M2 - CLOSING M1.

Note: For stop detection sensitivity setting refer to the special menu.

#### SELFLEARNING OPERATION TIME WITH AMPEROMETRIC SENSOR (For electromechanical motors only)

The times learning can be done only on electromechanical gates, taking advantage of the automatic detection of the stops.

Once the programming has been started just make sure that the gate executes the following cycle: CLOSING M2 - CLOSING M1 - OPENING M2 - CLOSING M2 - CLOSING M1.

Note: For stop detection sensitivity setting refer to the special menu.

#### LEARNING WITH LIMIT SWITCH

When limit switches are mounted, the gate executes automatically the following cycle: CLOSING M2 - CLOSING M1 - OPENING M1 - OPENING M2 - CLOSING M2 - CLOSING M1.

Before starting the learning, make sure(through the test menu), that the relative limit switches of every leaf and every opening are employed.

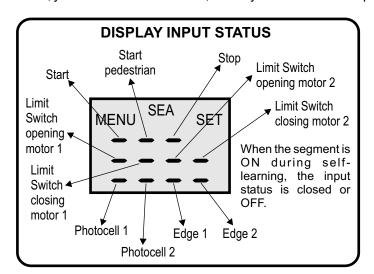
Exe: For the M2 motor closing the limit switch M2 in closing must be employed.

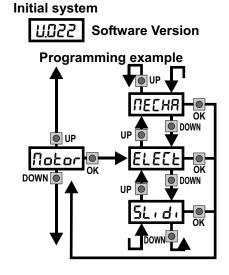




## **SELECTION OF THE SETTINGS**

The settings of the control unit are made through the UP, DOWN and OK buttons. The UP and DOWN buttons to scroll through the MENUS and SUBMENUS. By pressing OK you enter from MENU into SUBMENU and confirm the choice. Pressing the UP and DOWN buttons at the same time you access the SP MENU for special settings. Pressing the OK button for 5 seconds, you enter the TEST MENU, where you can check the operating status of all inputs.





#### **MENU FUNCTION board GATE 2 DG INPUT TESTS** To access the Menu for input TESTS keep pressed OK for about 5 seconds.

| MENU                      | Description                     | Description  |
|---------------------------|---------------------------------|--|
| SERre                     | Start test                      | The contact must be a N.O. Contact . When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, check the wirings.  |
| Stop                      | Stop test                       | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, make sure that the contact is a N.C. Contact   |
| PEdEStriAn StArt          | Pedestrian<br>start test        | The contact must be a N.O. Contact. When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, check the wirings.   |
| EdGE (                    | Safety edge 1<br>test           | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, make sure that the contact is a N.C. Contact   |
| E90E5                     | Safety edge 2<br>test           | IThe contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, make sure that the contact is a N.C. Contact  |
| Photo I                   | Photocell 1 test                | IThe contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, make sure that the contact is a N.C. Contact  |
| Photo2                    | Photocell 2 test                | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works.<br>If SET is always on, make sure that the contact is a N.C. Contact   |
| LιΠιΕ SUιΕCH<br>σΡΕπιπῶ Ι | M1 opening<br>limit switch test | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works. If SET is always on, make<br>sure that the contact is a N.C. contact or that the related limit switch is not occupied. |
| LιΠιΕ 5UιΕCh<br>[Lo5ιn0 Ι | M1 closing<br>limit switch test | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works. If SET is always on, make<br>sure that the contact is a N.C. Contact or that the related limit switch is not occupied. |
| LιΠιΕ 5UιΕCh<br>οΡΕπιπώ 2 | M2 opening<br>limit switch test | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works. If SET is always on, make<br>sure that the contact is a N.C. Contact or that the related limit switch is not occupied. |
| נוחוב 50ובנה<br>ננסקותה 2 | M2 closing<br>limit switch test | The contact must be a N.C. Contact. When activating the related command<br>on the display SET lights up, the input works. If SET is always on, make<br>sure that the contact is a N.C. contact or that the related limit switch is not occupied. |
| End                       |                                 | Exit menu  |



| MENU FUNCTIONS TABLE GATE 2 DG |  |  |                  |           |  |  |
|--------------------------------|--|--|------------------|-----------|--|--|
| MENU                           | SET  | Description  | Default          | Set value |  |  |
|                                | , ERL, Rno                                   | Italian  |                  |           |  |  |
| 1 - LAnGuRGE                   | EnGLiSH                                      | English  | , ERL, Roo       |           |  |  |
|                                | FrAnERis                                     | French   |                  |           |  |  |
|                                | ESPRnol                                      | Spanish  |                  |           |  |  |
|                                | SERre  | Start  |                  |           |  |  |
|                                | PEdEStriAn StArt                             | Pedestrian Start   |                  |           |  |  |
|                                | EHEErnAL Nodule                              | External module  |                  |           |  |  |
|                                | Stop   | Stop   | SERrE            |           |  |  |
| 2 - ErAnSNitterS               | unlo[H                                       | Storing of a command<br>for unlocking an<br>electric brake   | PEd SERrE.       |           |  |  |
|                                | dELEEE R ErRnSNIEEr                          | Delete single transmitter                                    |                  |           |  |  |
|                                | CLERr NENory                                 | Delete transmitter memory                                    |                  |           |  |  |
|                                | ΕΔΕΣΕΓΟΗΥΔΟΓΑυΔ. Ο                           | Electrohydraulic   |                  |           |  |  |
|                                | SLidinū                                      | Sliding  | 05540 <u>-</u> 5 |           |  |  |
| 3 - Notor                      | rEUErSibLE SLidinG GREE                      | Reversible sliding gate                                      | NECHRA,C         |           |  |  |
|                                | NECHRo, C                                    | Mechanic   |                  |           |  |  |
| 4 - onE SinGLE                 | oFF  | Disabled   |                  |           |  |  |
| LEAF *                         | n In ON activates single leaf mode (Motor 1) |  | oFF              |           |  |  |
|                                | RutoNRt, C                                   | Automatic  |                  |           |  |  |
|                                | oPEn-StoP-CLoSE-StoP-oPEn                    | Step by step type 1  |                  |           |  |  |
| 5 - LoG,C                      | oPEn-StoP-ELoSE-oPEn                         | Step by step type 2  |                  |           |  |  |
|                                | 2 button5                                    | Two buttons  | RutoNAt, C       |           |  |  |
|                                | SRFELY                                       | Safety   |                  |           |  |  |
|                                | dERdNRn                                      | Dead man   |                  |           |  |  |
| 6 - PRUSE EINE                 | oFF  | OFF<br>(semi-automatic logics)                               | oFF              |           |  |  |
|                                | 1 240  | Setting from 1s to 4min.                                     |                  |           |  |  |
| 7 _ CLO_L _ 00 CC              | oFF  | In pause start is not acceped                                | oFF              |           |  |  |
| 7 - SERre in PRuse             | n  | In pause start is accepted                                   | ' ''             |           |  |  |
| 8 - ProGrANNinG                | oFF on                                       | Times learning start   | oFF              |           |  |  |
| 9 – ŁESŁ SŁArł                 | oFF on                                       | Start command  | oFF              |           |  |  |
| End                            |  | d press OK to exit the menu<br>tes automatically after 2 min |                  |           |  |  |

**Note 1**: The \* indicates that the default value may change depending on the selected motor type.







PRESS AT THE SAME TIME FOR 5 SECONDS TO ENTER OR TO EXIT THE SPECIAL MENU

#### SPECIAL MENU FUNCTIONS TABLE GATE 2 DG

To enter the Special Menu keep pressed UP and DOWN at the same time for 5 seconds. To exit the Special Menu pressed END or keep pressed UP and DOWN at the same time for 5 seconds.

| MENU SP                     | SET                 | Description  | Default | Set value |
|-----------------------------|---------------------|--|---------|-----------|
| 1 - oPEninū tor9 1 *        | 10 100              | M1 opening torque<br>Note: with hydraulic motors<br>the torque will be on 100% | 75      |           |
| 2 - [Lo5:nG tor9   *        | 10 100              | M1 closing torque<br>Note: with hydraulic motors<br>the torque will be on 100% | 75      |           |
| 3 - oPEninű Łor9 2 *        | 10 100              | M2 opening torque<br>Note: with hydraulic motors<br>the torque will be on 100% | 75      |           |
| 4 - [Lo5:nG tor9 2 *        | 10 100              | M2 closing torque<br>Note: with hydraulic motors<br>the torque will be on 100% | 75      |           |
| 5 - LERF dELRY in oPEninG * | oFF 6               | Setting from OFF to<br>6 seconds   | 1,5     |           |
| 6 - LEAF dELAY in ClosinG * | oFF 20              | Setting from OFF to 20 seconds   | 2,5     |           |
|                             | oFF                 | Disabled   |         |           |
| l - PuShoUEr *              | oPEninG Rnd [LoSinG | Opening an closing   | oFF     |           |
|                             | օրլդ օելուսը        | Opening only   |         |           |
|                             | only [Lo5,n0        | Closing only   |         |           |
| 8 - PuSHinG StroHE          | oFF 3               | From OFF to 3 seconds  | ٥FF     |           |
| 9 - oPEninū SLoUdoUn I      | oFF 50              | From OFF to 50% of the stroke  | 20      |           |
| 10 - ClosinG SloUdoUn I     | oFF 50              | From OFF to 50% of the stroke  | 20      |           |
| 11 - oPEninū SLoUdoUn 2 *   | oFF 50              | From OFF to 50% of the stroke  | 20      |           |
| 12 - [Lo5:n[ 5LoUdoUn 2 *   | oFF 50              | From OFF to 50% of the stroke  | 20      |           |
| 13 - PrEFLASHinG            | οπιμ Γεοδιπδ        | Pre-flashing only<br>active before closing                                     | oFF     |           |
|                             | 0.0 5.0             | Pre-flashing time  |         |           |
|                             | norARL              | Normal   |         |           |
|                             | L , БНЕ             | Control lamp   |         |           |
| 14 - FLRSHING LIGHE         | ALUAYS              | Always ON  | norNAL  |           |
|                             | եսշշեւ              | Buzzer   |         |           |
|                             | oFF                 | Synchronized right motor   | ٥FF     |           |
| 15 – rEUErSE Notor          | on                  | Synchronized left motor  | orr     |           |
| 16 – EnCodEr                | on oFF              | In ON enables the<br>Encoder, in OFF<br>it's disabled                          | oFF     |           |





| MENU SP                           | SET  | Description  | Default | Set value |
|-----------------------------------|--|--|---------|-----------|
| 17 - oPEninG tiNE Notor I         | 0 240  | Learned operation time setting   | 28.6    |           |
| 18 - ELoSinG tiME Notor I         | 0 240  | Learned operation time setting   | 28.6    |           |
| 19 - oPEninū tiNE Notor2 *        | 0 240  | Learned operation time setting   | 28.6    |           |
| 20 - CLosinG tiNE Notor2 *        | 0 240  | Learned operation time setting   | 28.6    |           |
|                                   | in EYELE   | Courtesy light in cycle  |         |           |
| 21 - CoUrtESY LiGHt               | 1 240  | Courtesy light setting from 1s to 4min.  | 20      |           |
| 22 - ErRFFiC LiGHE<br>rESErUREion | oFF on   | When setting this function<br>the pedestrian input will be<br>activated to work on the<br>auxiliary board SEM<br>(traffic light management). | oFF     |           |
| 23 - PEdEStriAn oPEninū           | 20 100   | Setting from 20 to 100   | 100     |           |
| 24 - PEdEStriAn PRuse             | = StArt  | Pause in pedestrian<br>opening same as in<br>total opening   | : StArt |           |
|                                   | oFF  | Disabled   |         |           |
|                                   | 1 240  | Setting from 1s to 4 min.  |         |           |
| 25 - RECELErAtion                 | 0 100  | Acceleration ramp  | 100%    |           |
| 26 - NRINEENRACE CYCLES           | IDD IDEY Setting from 100 to 100000  |  | IDE 4   |           |
| 27 - PErforNEd CYCLES             | 0 1069   | Reports the executed<br>cycles. Keep pressed OK<br>to reset the cycles   |         |           |
|                                   | oFF  | Disabled   |         |           |
| 28 - EINEr                        | on PHoto2  | Timer function active<br>on photocell 2  | oFF     |           |
|                                   | on PEdEStrißn Entry  | Timer function active on<br>pedestrian input   |         |           |
|                                   | oPEninū Rnd EloSinū  | Active in opening<br>and closing   | oPEninű |           |
| 29 - EdGE I                       | οπίζ οΡέπιπΰ   | Active only in opening   | Rnd     |           |
|                                   | օրլց ըրօշոն  | Active only in closing   | נרסציטת |           |
|                                   | oPEninū Rnd EloSinū  | Active in opening and closing  | oPEninű |           |
| 30 - E4CES                        | οπίβ οβέπιπΰ   | Active only in opening   | Rnd     |           |
|                                   | οηίβ δίοδιηδ   | Active only in closing   | ELoSinū |           |
|                                   | norNRL   | Normal N.C. contact  |         |           |
| 31 - EdGE1                        | Edge is action of the sector o |  | norNRL  |           |
|                                   | norNRL   | Normal N.C. contact  |         |           |
| 33 - E90E5                        | 8H2  | Edge is active and protected by a 8k2 resistor   | norNAL  |           |





| MENU SP                | SET                          | Description   | Default | Set value |
|------------------------|------------------------------|---|---------|-----------|
|                        | [LoSinG                      | Photocell active in closing   |         |           |
|                        | oPEninū And EloSinū          | Active in opening and closing   |         |           |
|                        | StoP                         | Photocell active before<br>opening  |         |           |
| 33 - PHoto I           | Stop And CloSE               | The photocell stops in closing and closes when released                           | ներջորը |           |
|                        | ELo5E                        | The photocell gives a<br>command to close during<br>opening, pause and<br>closing |         |           |
|                        | PRUSE rELoRd                 | The photocell charging the pausing time   |         |           |
|                        | ELoSinū                      | Photocell active in closing   |         |           |
|                        | oPEninū Rnd [LoSinū          | Active in opening and closing   |         |           |
|                        | StoP                         | Photocell active before opening   |         |           |
| 34 - РНого2            | Stop And CloSE               | The photocell stops in closing and closes when released                           | οΡΕπιπΰ |           |
|                        | CLo5E                        | The photocell gives a<br>command to close during<br>opening, pause and<br>closing |         |           |
|                        | PRUSE rELoRd                 | The photocell charging the pausing time   |         |           |
|                        | RLURYS                       | 24Vaux output always power supplied   |         |           |
|                        | IN EYELE                     | 24V output active only<br>during cycle  |         |           |
|                        | οΡΕπιπΰ                      | 24Vaux output power supplied only during opening                                  |         |           |
| 35 - 240 RuH           | [LoSinD                      | 24Vaux output power supplied only during closing                                  | RLURYS  |           |
|                        | in PRuSE                     | 24Vaux output power supplied only during pause                                    |         |           |
|                        | Positile brake<br>NanaGenent | Positive Electrobrake   |         |           |
|                        | NEGALIUE BRAHE<br>NANAGENENE | Negative Electrobrake   |         |           |
| 36 - Position recoulry | 0 20                         | Retrieves the inertia of the<br>motor after Stop or<br>reversing from 0 to 20 s   | 1       |           |
| 37 - Notor rELERSE *   | oFF                          | Disabled  | 0.1     |           |
|                        | 0.1 3.0                      | Setting from 1 to 3   |         |           |
| 38 - 6rRHE *           |                              | Adjusts the braking on the limit switches   | 0       |           |





| MENU SP                    | SET  | Description  | Default  | Set value |
|----------------------------|--|--|----------|-----------|
| 39 - PEriodiCAL PuShoUEr * | □FF B Allows the repetition of the Pushover functionat a distance of time adjustable from 0 to 8 hours at hourly intervals |  | oFF      |           |
|                            | οπίβ οβέπιπΰ   | Only on limit switch in opening  |          |           |
|                            | only ClosinG   | Only on limit switch in closing  |          |           |
| 40 – Anti intrusion        | οΡΕπιπώ Rnd CloSinū  | On limit switches in closing and in opening  | oFF      |           |
|                            | oFF  | If the limit switch is freed<br>manually it forces the<br>reclosing of the gate                        |          |           |
| ЧІ- СосН ЕЛЕ               | oFF 5  | Sets the lock release<br>time from 0 to 5 s  | З        |           |
|                            | only openinū   | Active only before opening   |          |           |
| 42 – LocH                  | only [LoSinD   | Active only before cloning   | oPEninű  |           |
|                            | oPEninū Rnd [Lo5inū  | Active before opening and closing  |          |           |
| 43 - FLRSHING LIGHE Rod    | oFF  | The flashing light remains<br>OFF with the active timer<br>and open gate                               |          |           |
| EiNEr                      | n  | The flashing light remains<br>ON with active timer and<br>open gate                                    | oFF      |           |
| 44 - Rnt, oUErLAP *        | oFF  | Desactivate the leaves<br>anti-overlapping control,<br>allowing separate control<br>of the two leaves. | oFF      |           |
|                            | n  | Activate the leaves<br>anti-overlapping control  |          |           |
| 45 -d.RGnoSt.ES            | 1 10   | Shows last event   |          |           |
| 46- SLoUdoUn rANP tor9     | 0 100  | Adjusts the transition<br>between max. torque<br>and slowdown  | 100      |           |
| 47 - FototESt              | Photo I  | Auto-test active only on Photo1  |          |           |
|                            | Photo2   | Auto-test active only on Photo2  | oFF      |           |
|                            | Photo 1-2  | Auto-test active on<br>Photo1 and Photo2   |          |           |
|                            | oFF  | Disabled   |          |           |
|                            | E90E 1   | Test enabled on edge 1   |          |           |
|                            | 53062  | Test enabled on edge 2   |          |           |
| 48 – EdűE RutotESt         | EdGE 1-2   | Test enabled on edge<br>1 and 2  | E90E 1-5 |           |
| 67411385                   | oFF<br>Rev.04 - 06/2   | Disabled   |          | 3         |

33





| MENU SP                            | SET  | Description   | Default | Set value |
|------------------------------------|--|---|---------|-----------|
| 49 - oPEninű tolErAnCE<br>Notor I  | 0 100  | Adjust the tolerance<br>between stop and<br>obstacle Motor 1 opening. | ٥       |           |
| 50 – EloSinG tolErAnEE<br>Notor I  | 0 100  | Adjust the tolerance<br>between stop and<br>obstacle Motor 1 closing. | 0       |           |
| 51 - oPEninū toLErRnCE<br>Notor2 * | 0 100  | Adjust the tolerance<br>between stop and<br>obstacle Motor 2 opening. | ٥       |           |
| 52 – ELoSinG toLErAnEE<br>Notor2 * | 0 100  | Adjust the tolerance<br>between stop and<br>obstacle Motor 2 closing. | 0       |           |
| 53 - oPEninū SEnSitiUity           | 10 99  | Motor 1 sensitivity adjustment in opening                             | oFF     |           |
| Notor I                            | oFF  | Disabled  |         |           |
| 54 - [Lo5:nG 5En5:ביטוצא           | 10 99  | Motor 1 sensitivity<br>adjustment in closing                          | oFF     |           |
| Notor I                            | oFF  | Disabled  |         |           |
| 55 - OPEninG SEnsitiUity           | 10 99  | Motor 2 sensitivity adjustment in opening                             | oFF     |           |
| Notor2 *                           | oFF  | Disabled  |         |           |
| 56 - [Lo5:n0 5En5:1:1124           | 10 99  | Motor 2 sensitivity<br>adjustment in closing                          | oFF     |           |
| Notor2 *                           | oFF  | Disabled  |         |           |
| 57 - 5LoU doUn<br>5En5:t:U:tY      | 10 99  | Reversing sensitivity<br>adjustment during<br>slowdown                | oFF     |           |
|                                    | oFF  | Disabled  |         |           |
| 58 - PRSSUord                      | Allows the entering of a<br>password blocking the<br>control unit parameters<br>modification (see page 36) |   |         |           |
| End                                |  | and press OK to exit the spec<br>switches off automatically aft       |         | utes.     |

**Note 1**: The \* indicates that the default value may change depending on the selected motor type.

**Note 2**: After initialization the parameters "motor type" and "limit switch type" remain son the value chosen in the setup program.





## 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, RF Roll, RF Roll Plus or RF UNI module).

With RF Roll or RF Roll Plus module it will be possible to use only Coccinella Roll or Coccinella Roll Plus radio transmitters. or Smart Dual Roll or Smart Dual Roll Plus.

With the RF UNI module it will be possible to use both the transmitters of the Roll Plus series and those with fixed code. The first memorized transmitter determines the type of the remaining radio transmitters.

Select through the display ErRn571 IEEr5 and press OK, now select with the UP and DOWN buttons, the command to which you want to associate the button (it is possible to associate max. 2 commands) and press OK to confirm the choice, now press the button of the radio transmitter which you want to associate. If the storage is successful, the display will show SEorEd.

If the receiver is a Rolling Code, press twice the button of the radio transmitter that you want to program to memorize the first TX.

In the LrRoSALEEr5 MENU it is possible to select 5ERrE (to associate a Start command), PEdESEr IRo SERrE (Pedestrian Start), EHEErORE RoduLE (For the activation of a contact on the EXP output), 5EoP (To associate the STOP command to the TX), ELER REROW (To delete all TX), dELEER ErRoSALEEr (To delet the single transmitter only if it is a Rolling Code Plus), and a Contact the release of the electric brake to the transmitter). To release the electric brake it is necessary to give three consecutive pulses, the 4th will reactivate the lock of the electric brake.

#### Notes:

- Enter radio transmitters learning only when the working cycle stops and the gate is closed.

- If the radio transmitters are Rolling Code it's possible to memorize up to 800 codes (buttons).

- If the radio transmitters are with fixed code it will be possible to memorize up to max. 30 codes (buttons).

- You can store max. 2 of the available 4 functions. If the control unit receives a code which was already associated to another function it will be updated with the new function.

#### DELETE TRANSMITTERS FROM THE RECEIVER

With modules different from RF UNI, it will be possible to delete only the entire memory of the receiver. Proceed as follows: select from the menu ErAnS NIELER: SELER, NERoy J and hold the OK button until the display shows the message of.

With the RF UNI module, it will be possible to also delete the single button of the transmitter. It can be done in two ways:

1) If you have the transmitter, or if you are using transmitters with fixed code, the cancellation can be executed by simply retransmitting the code. Ex. Button 1 of the transmitter memorized as START; access the menu  $E_{RA}5\Pi E_{E}5$  press OK, select  $5E_{R-E}$ , press OK.

Send a 5ER-E command from the transmitter and on the display will show dELEEEd.

At this point the single button results deleted.

2) If you do not have a transmitter, or you are using a Roll Plus transmitter, you can delete the transmitter selecting the serial number of the transmitter to be deleted.

Procede as follows: Access the menu  $rRn5\Pi$  tEEr5, press OK, select  $dELEEER trRn5\Pi tEEr$ , press OK, choose the memory location to be deleted through the UP and DOWN buttons, press OK, check on the display if the serial number of the transmitter to be deleted is the right one, press OK, on the display shows 5urEP, if the transmitter to be deleted is the right one press OK and OK will appear to confirm the cancellation, otherwise press the DOWN button to return to the menu  $trRn5\Pi tEEr5$ .

**Note:** When using Roll Plus transmitters, it is recommended to record on a table similar to the below example, the serial number associateding it to the memory location where it was stored.

| TABLE<br>EXAMPLE | Transmitter<br>Memory button<br>location | 1 | 2 | 3 | 4 | Serial number | Customer |
|------------------|--|---|---|---|---|---------------|----------|
|                  | 0  |   |   |   |   |               |          |
|                  | 1  |   |   |   |   |               |          |
|                  | 2  |   |   |   |   |               |          |
|                  | 3  |   |   |   |   |               |          |
|                  | 4  |   |   |   |   |               |          |
|                  | 5  |   |   |   |   |               |          |
|                  | 6  |   |   |   |   |               |          |
|                  | 7  |   |   |   |   |               |          |
|                  | 8  |   |   |   |   |               |          |
|                  | 9  |   |   |   |   |               |          |
|                  | 10                                       |   |   |   |   |               |          |
|                  | 11                                       |   |   |   |   |               |          |
|                  | 12                                       |   |   |   |   |               |          |
|                  | 13                                       |   |   |   |   |               |          |
|                  | 14                                       |   |   |   |   |               |          |
|                  | 15                                       |   |   |   |   |               |          |
|                  | 16                                       |   |   |   |   |               |          |
|                  | 17                                       |   |   |   |   |               |          |
|                  | 18                                       |   |   |   |   |               |          |
|                  | 19                                       |   |   |   |   |               |          |
|                  | 20                                       |   |   |   |   |               |          |





## **FUNCTION LOGIC**

#### AUTOMATIC LOGIC

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

A start impulse during closing reverses the movement.

NOTE 1: To have the automatic closing it is necessary to set a pause time, otherwise all the logic will be semi-automatic. NOTE2: It is possible to choose, whether to accept or not, the start in pause, selecting in the MENU the item 5EBrE in PBuSE and choosing ON or OFF. By default, the parameter is OFF.

#### SECURITY LOGIC

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

A start impulse during closing reverses the movement.

NOTE 1: To have the automatic closing it is necessary to set a pause time, otherwise all the logic will be semi-automatic. NOTE2: It is possible to choose, whether to accept or not, the start in pause, selecting in the MENU the item 5EBrE in PBuSE and choosing ON or OFF. By default, the parameter is OFF.

#### STEP BY STEP TYPE 1 LOGIC

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

NOTE 1: To have the automatic closing it is necessary to set a pause time, otherwise all the logic will be semi-automatic. NOTE2: It is possible to choose, whether to accept or not, the start in pause, selecting in the MENU the item 5EBrE in PBuSE and choosing ON or OFF. By default, the parameter is OFF.

#### STEP BY STEP TYPE 2 LOGIC

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

NOTE 1: To have the automatic closing it is necessary to set a pause time, otherwise all the logic will be semi-automatic. NOTE2: It is possible to choose, whether to accept or not, the start in pause, selecting in the MENU the item 5EBrE in PBuSE and choosing ON or OFF. By default, the parameter is OFF.

#### **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.

#### **2 PUSHBUTTONS LOGIC**

One start opens, one pedestrian start closes. In opening the closing will not be accepted. In closing a start command reopens, a pedestrian start command (closes) will be ignored.

## **PASSWORD ENTERING MANAGEMENT**

With a new control unit all menus can be displayed and set and the password will be disabled.

Selecting one of the Menus and keeping UP and DOWN pressed at the same time for 5 seconds, you will access the SP Menu containing the PR55Upr d Submenu.

Pressing OK in the PR55Uard Menu, you will proceed with the entering of the numeric code of the 4-digit PASSWORD.

Use UP and DOWN to increase or decrease the number, press OK to confirm it and you will pass automatically to the entering of the next number. Pressing OK after the last entered number the word 5urEP appears, confirm the activation of the PASSWORD and the message DH appears, pressing UP or DOWN instead you can cancel the operation and no DPErRE lon will appear on the display.

Once entered the PASSWORD, it will be definitively activated, once the display switch off timeout has expired, or by turning off and on again the control unit. Once the PASSWORD has been activated, the menus of the display can be only displayed but not set. To unlock them you must enter the correct PASSWORD in the PR55U or d menu, if the password is wrong the message Error will appear.

At this point, if the password has been entered correctly, the menus will be unlocked and it will be possible to change the parameters of the control unit again.

If the control unit has been unlocked through PR55Uard Menu, it is possible to enter a new and different password, using the same entering process as for the first one; at this point, the old password will no longer be valid.

If the password has been forgotten, the only way to unlock the control unit is to contact the SEA technical assistance, which will assess whether to provide the procedure to unlock the control unit or not.

**Note:** The password cannot be set through the Jolly or Jolly 2 terminal.

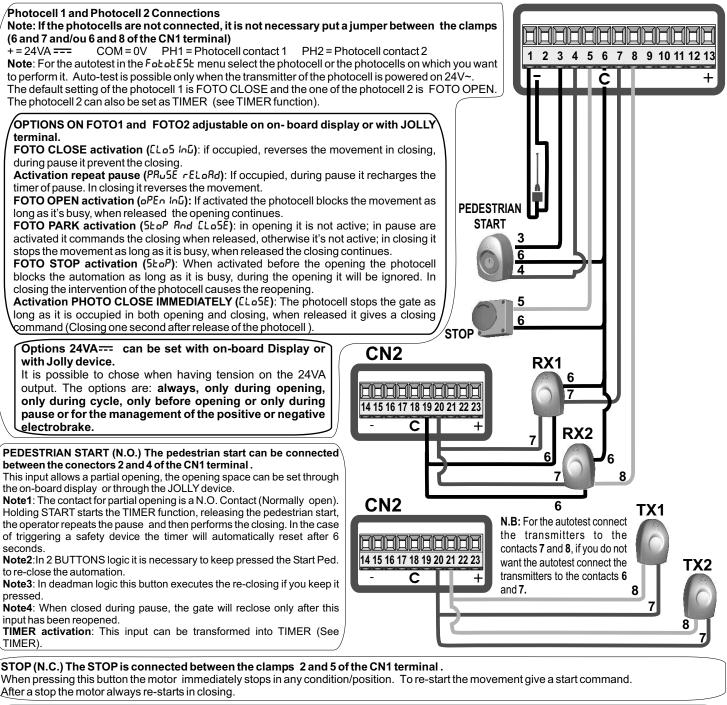




CN1

## **START - STOP - PEDESTRIAN START - ANTENNA -**

## **PHOTOCELL**



#### START (N.O.) The START is connected between connector 2 and 3 of the CN 1 terminal.

An impulse given to this contact opens and closes the automation depending on the selected logic, it can be given by a keyswitch, a keypad, etc. Holding START starts the TIMER function, releasing the start, the operator repeats the pause and then performs the closing. To connect the other devices refer to the related instructions leaflets. (ie. loop detectors and proximity switches). In the case of triggering a safety

device the timer will automatically reset after 6 seconds. **Note1**: In DEADMAN logic keep pressed the Start for the opening of the automation.

Note2: In 2 PLITTONS logic this button performs the species

Note2: In 2 BUTTONS logic this button performs the opening.

Can be activated through the on-board display or through the Jolly programmer. In both cases it's a N.O. contact which provoques the opening of the automation keeping it open as long as it is activated. When it's released, after having paused for the set pausing time the gate recloses. The TIMER can be activated on the inputs FOTO2, PEDESTRIAN START or keeping busy the START input. Note1: When activated on the pedestrian entry, the pedestrian will be OFF also on the radio transmitter.

**Note2**: In the event of an intervention of a security device during the timer (Stop, amperometric, Edge), a start impulse restors the movement.

**Note3**: In case of no power supply with open gate and active Timer the control unit will restore its function, otherwise if during restoring of the power supply the TIMER is not activated it will be necessary to give a start impulse for the reclosing.



difficult to detect the obstacle.

ATTENTION: The first operation after power failure, will

be executed with the set speed

to search the mechanical stops



## GATE 2 DG R1

CN7

## SAFETY GATE OR AMPEROMETRIC MANAGEMENT

#### AMPEROMETRIC DEVICE FOR ELECTROMECHANICAL OPERATORS

This control unit comes with an obstacle detection system working only on electromechanical operators allowing to have the reversing on obstacles and the automatic detection of the stops.

Sensitivity adjustable from oFF to 99% inside the special menu. The more the percentage is high the more the obstacle detection will be difficult. On hydraulic unit this parameter will be always OFF.

#### **SAFETY GATE**

The Safety Gate, unlike the amperometric sensor, can be used both on electromechanical and hydraulic operators.

2 3 The Safety Gate is an ENCODER allowing the detection of the gate position GND ENC1 FNC2 +24V and its reversing in case of obstacles. To use the ENCODER it is necessary to enable it inside the special EnCodEr Menu. The sensitivity on the obstacle is adjustable from 0 - 99%. The higher the percentage is the more it will be **SAFETY GATE 1** 1 2 3 4 **SAFETY GATE 2** 1 3

## SAFETY EDGE AND FLASHING LAMP

#### SAFETY EDGE

limit.

Two safety edges (EDG1 e EDG2) can be connected, respectively between the contacts 9, 11 and 10 and 11 of CN1. Pressing EDG1 and EDG2, the contact opens, causing a partial reversing of the gate in closing and opening.

Note1: Put a jumper between the not used N.C. Contacts. The EDG1 and EDG2 inputs can be set: only in closing, only in opening or in both directions.

Note2: It is possible to activate a balanced edge 8K2 through the on board display or through the Jolly programmer, in such case the edge contact will be controled by a specific resistance value, detecting the possible involontary short circuit of the device. In case of an imbalanced device a special alarm will show on the on board display or on the JOLLY programmer.

If you connect a wireless edge it is possible to make a self-test on the power supply of the receiver by connecting it to 24Vac and selecting in the EdGE Rubebeet menu the edge or the edges on which to perform the test.

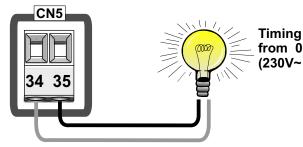
#### 24V Flashing light --- 15W Max (Control lamp)

The flashing light can be connected between the FLS and COM connectors from Cn1 (It is recomended to use a 24V Flash Led flashing light).

It blinks once per second during opening and twice per second during closing, while it remains lit during pause.

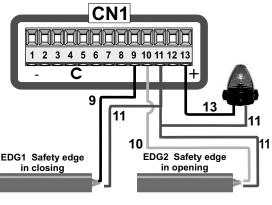
Throught the warning light it is also possible to identify alarm signals comming from the STOP, PHOTOCELL 1, PHOTOCELL2 and EDGE devices. Through the on board display or the Jolly programmer it is possible to activate the pre flashing function and/or to modify the flashing light function choosing between fixed flashing, control lamp or Buzzer. The pre-flashing can be set from 0 to 5 s. or it is possible to have it only before closing.

## **COURTESY LIGHT**



from 0 to 4 min (230V~ 50W Max - 115V~ 50W Max)

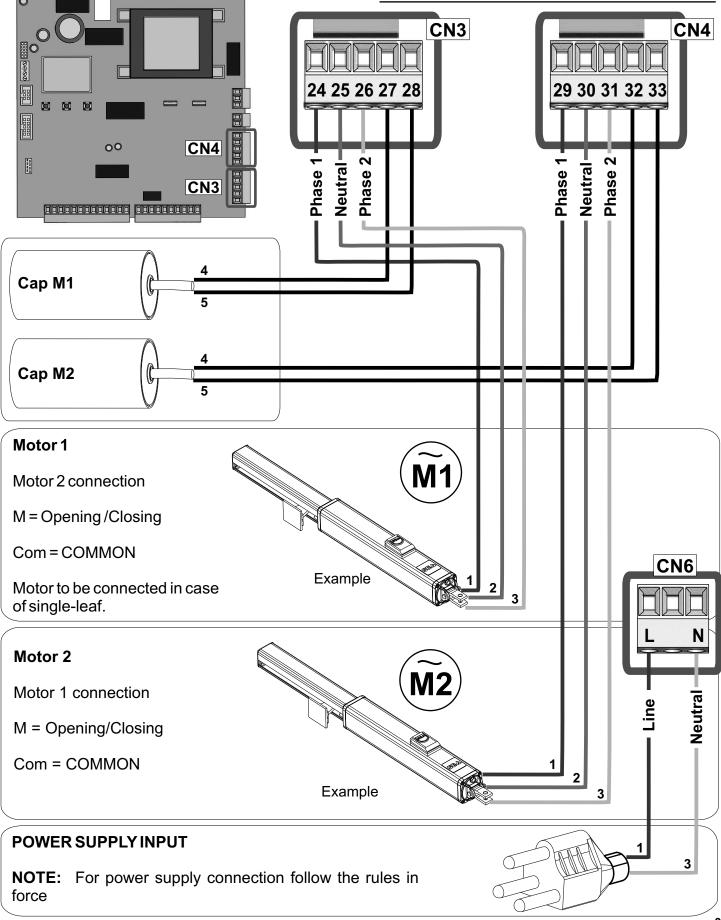
38 67411385







## MOTORS CONNECTION, CAPACITY AND POWER SUPPLY







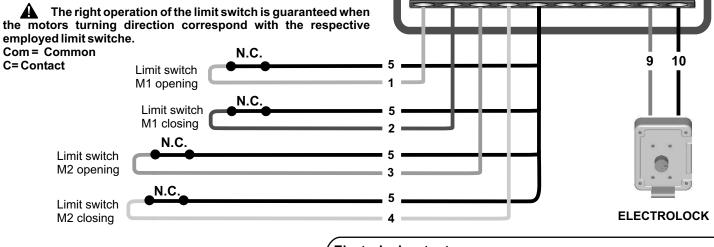
## LIMIT SWITCH, ELECTROLOCK CONNECTION

#### Limit switch

Does not need a jumper when not connected.

For the limit switch function, limit switches must be installed, both in opening and closing. In the case of single-leaf connect motor 1 (it is not necessary to bridge the limit switches of motor 2).

Anti-intrusion function can be activated. This function needs at least one limit switch, which pushes the motor in closing direction once it's released.



#### **Electrolock output**

A 12V---- 15W max electrolock can be connected Electrolock can be deactivated when not used for energy saving on the control unit. Electrolock release can be timed from 0 to 5 s. The electrobrake can be set: only before opening, only before closing or in both directions.

CN2

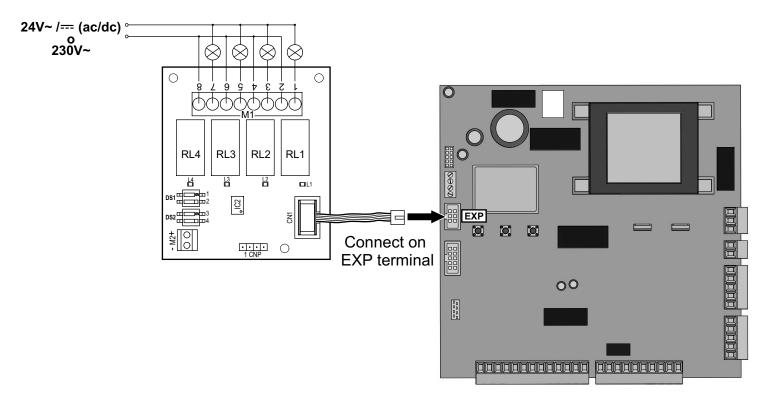
18 19 20

21

16

5

## **TRAFFIC LIGHT CARD CONNECTION**







## **ALARM DESCRIPTION**

| Signals                | Kind of alarm                      | Solutions  |
|------------------------|------------------------------------|--|
| FRilurE Notor          | Motors current failure             | Sure there are no short circuits on the motor or on the control unit.  |
| FRiLurE24              | 24V Power supply failure           | Make sure there are no short circuits on the wiring or on the control unit and no overloads.   |
| FRilorE24URoX          | 24VA output voltage                | Make sure there are no short circuits on wiring or control unit and no overload.   |
| FRILUE NEL             | Power supply failure               | Check the network or the F2 fuse   |
| FRILURE SELF EESE      | Self-test photocells<br>failure    | Check the photocells operation and / or connections on the control unit.   |
| FRILUFE LINIE SUIECH   | Limit switch<br>activation failure | Check the operation of both limit switches and / or correspondence between movement direction of the motor and engaged limit switches. |
| FRILUEE FLRSHING LIGHE | Flashing lamp failure              | Check connections and / or conditions of the lamp.   |

**Note 1**: If in the diagnostics shows "Max. cycles reached", do the maintenance and / or reset the number of cycles performed.

**Note2:** To exit from the error messages, press OK. If the error persists, make all required checks for the specific error and / or disconnect the device that generates the error to see if the error disappears.

At each opening and closing of the automation the flashing light will blink. It blinks once per second during opening and twice per second during closing, while it remains lit during pause.

It is possible to view the alarms also on the flashing light or on the control lamp, simply by observing the number of flashes emitted and verifying the reference in the table below:

| Blinks | Cause of alarm       | Blinks | Cause of alarm       |
|--------|----------------------|--------|----------------------|
| 9      | Motors failure       | 5      | Stop                 |
| 2      | Photocell in closing | 7      | Max. Cycles reached  |
| 3      | Photocell in opening | 6      | Collision in closing |
| 6      | Collision in opening | 4 fast | Limit switch fault   |
| 4      | Safety edge          |        |                      |





## **TROUBLE SHOOTING**

#### Advises

### Make sure all Safeties are turned ON

All N.C. contacts must have jumpers

| Problem Found   | Possibile Cause   | Solutions  |  |  |  |
|---|---|--|--|--|--|
| Motor doesn't respond to any START impulse                | <b>a.)</b> Jumper missing on one of the N.C.<br>Contacts  | <b>a.)</b> Check the connections or the jumpers on the connections of the safety edge, of the stop and of the photocell                        |  |  |  |
|   | <b>b.)</b> Burnt fuse   | <b>b.)</b> Replace the burned fuse on the control unit   |  |  |  |
| Gate doesn't move while the                               | a.) The motor is in the released position a.) Re-lock the motor   |  |  |  |  |
| motor is running  | <b>b.)</b> There is an obstacle   | <b>b.)</b> Remove obstacle   |  |  |  |
| Gate doesn't reach the complete<br>Open / Closed position | <ul> <li>a.) Wrong setting of the limit switches</li> <li>b.) Error on programming</li> <li>c.) Gate is stopped by an obstacle</li> <li>d.) Torque too low</li> </ul> | <ul> <li>a.) Set limit switches</li> <li>b.) Repeat programming</li> <li>c.) Remove obstacle</li> <li>d.) Increase torque parameter</li> </ul> |  |  |  |
| The gate opens but doesn't close                          | <ul><li><b>a.)</b> The contacts of the photocells are open.</li><li><b>b.)</b> The stop contact is open</li></ul>   | <b>a.) b.) c.)</b> Check the jumpers or the signals indicated on the warning lamp  |  |  |  |
|   | <ul><li>c.) The edge contact is open</li><li>d.) Ammeter alarm</li></ul>  | <b>d.)</b> Check if the ammeter alarm has intervened and eventually increase the torque parameter.   |  |  |  |
| The gate doesn't close                                    | a.) Pause time set to high  | <b>a.)</b> Adjust pause time   |  |  |  |
| automatically   | <b>b.)</b> Control unit in semi-autom. logic  | <b>b.)</b> Set the pause parameter on a different value from the oFF   |  |  |  |

#### Page for both instaler and user

#### 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.p.A. - Zona Ind.Ie, 64020 S.ATTO - Teramo - Italia

#### 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 recommand 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 <sub>min</sub>         | T <sub>Max</sub> | Dampness <sub>min</sub> | Dampness <sub>Max</sub> |  |
| - 20°C                   | + 65°C           | 5% Not condensing       | 90% Not condensing      |  |

Materials handling must be made with appropriate vehicles..

#### WARRANTY LIMITS

For the guarantee see the sales conditions on the official SEA price list.

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

# SELF INSTALL - NEED TECHNICAL ASSISTANCE?

## OPTION 1: DIRECT WITH THE SERVICE DESK – QUICKEST AND MOST EFFECTIVE METHOD

Submit your enquiry direct with the service desk at - <u>service@automaticsolutions.com.au</u>

- The service desk has the most experienced staff in Australia to help with your problem but they need your help.
  - Describe your problem in detail and as clearly as possible. Don't forget to include a telephone number.
  - Be certain to detail which model or models of you are working with.
  - Send photos of the installation they love photos. The people at the service desk are good but they are even better when they can see the installation. Send photos of the overall scene so they can see the entire installation. Also send photos of the wiring to the control board and any other part of the installation you think is relevant.
  - Send video if appropriate. Smartphone's these days take remarkably good video in small file sizes which can be emailed in a moment. If your problem needs a video to show the issue please feel free to send it. NOTE: THIS IS BY FAR THE FASTEST AND MOST SUCCESFUL WAY TO SOLVE YOUR PROBLEM PHOTOS AND VIDEOS ARE THE NEXT BEST THING TO BEING THERE

### **OPTION 2: LODGE YOUR ENQUIRY LOCALLY - SLOWER BUT CAN STILL BE EFFECTIVE**

Make contact with the store of purchase. Branch staffs are typically not technicians and dependent on their length of service will have varying degrees of technical knowledge. If they cannot help however they will certainly either source help locally from their technicians or make contact with the service technicians on your behalf.

### **OPTION 3: SERVICE CALL WITH AUTOMATIC SOLUTIONS TECHNICIAN – SLOWEST METHOD**

If you fall within the local branch service area it may be possible to book a local technician to look at your installation. Wait times will vary dependent on local workloads. The cost is a service fee which includes the first half hour and the hourly rate thereafter. If any Automatic Solutions provided parts are found to be defective and within warranty these will be provided free of charge.

(NOTE: If you suspect that any parts are defective and within warranty you may wish to consider option 4)

A note on this option: If you decide on this option you will be asked to sign an "authorisation to proceed" which will provide legal authority and payment security. This form has three options available of which only the first two are available to you. The third option is for warranty repairs only for full install customers. Self install customers requiring warranty only service need to refer to option four below.

IMPORTANT: IN SHORT THIS OPTION WILL INCUR CHARGES

### **OPTION 4: RETURN THE PRODUCT IF BELIEVED TO BE FAULTY**

As a self install customer who has purchased product if you believe the product to be faulty rather than an installation or site problem you have the option of returning the product for evaluation and to exercise your right to a replacement, repair or refund as applicable. All returned product is forwarded immediately to the service technicians for evaluation and response. There are two main methods available to return product –

- Direct to the service centre this is the quickest method as it cuts out the branch delay
- Via the branch of purchase slower because of the delay at the branch

When choosing this option you need to complete a product return form. This form gives you all the information on procedure involved and where to send to. These are available at the branch of purchase, can be emailed to you (contact your branch), or available here - <u>http://automaticsolutions.com.au/page/warranty.php</u>