



SEA®

Sistemi Elettronici
di Apertura Porte e Cancelli
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CE

Italiano

English

Français

Español

USER 2 - 24V DG R1B

“ALL IN”

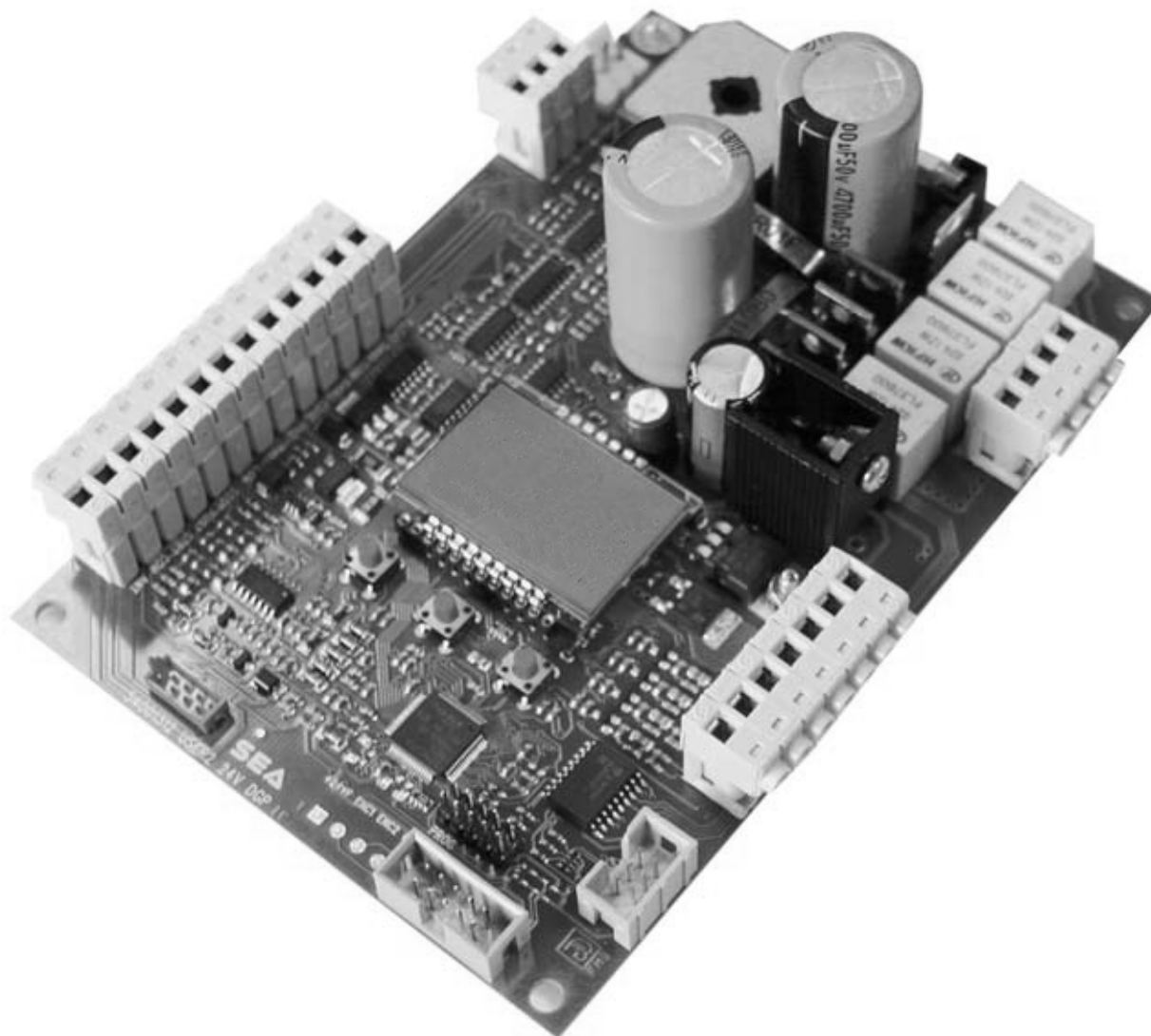
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APPAR. ELETTRONICA 24V === PER CANCELLI A BATTENTE

ELECTRONIC CONTROL UNIT 24V === FOR SWING GATES

ARMOIRE ELECTRONIQUE 24 V === POUR PORTAILS A BATTANTS

TARJETA ELECTRONICA 24V === PARA CANCELA ABATIBLES



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DESCRIPTION OF THE COMPONENTS

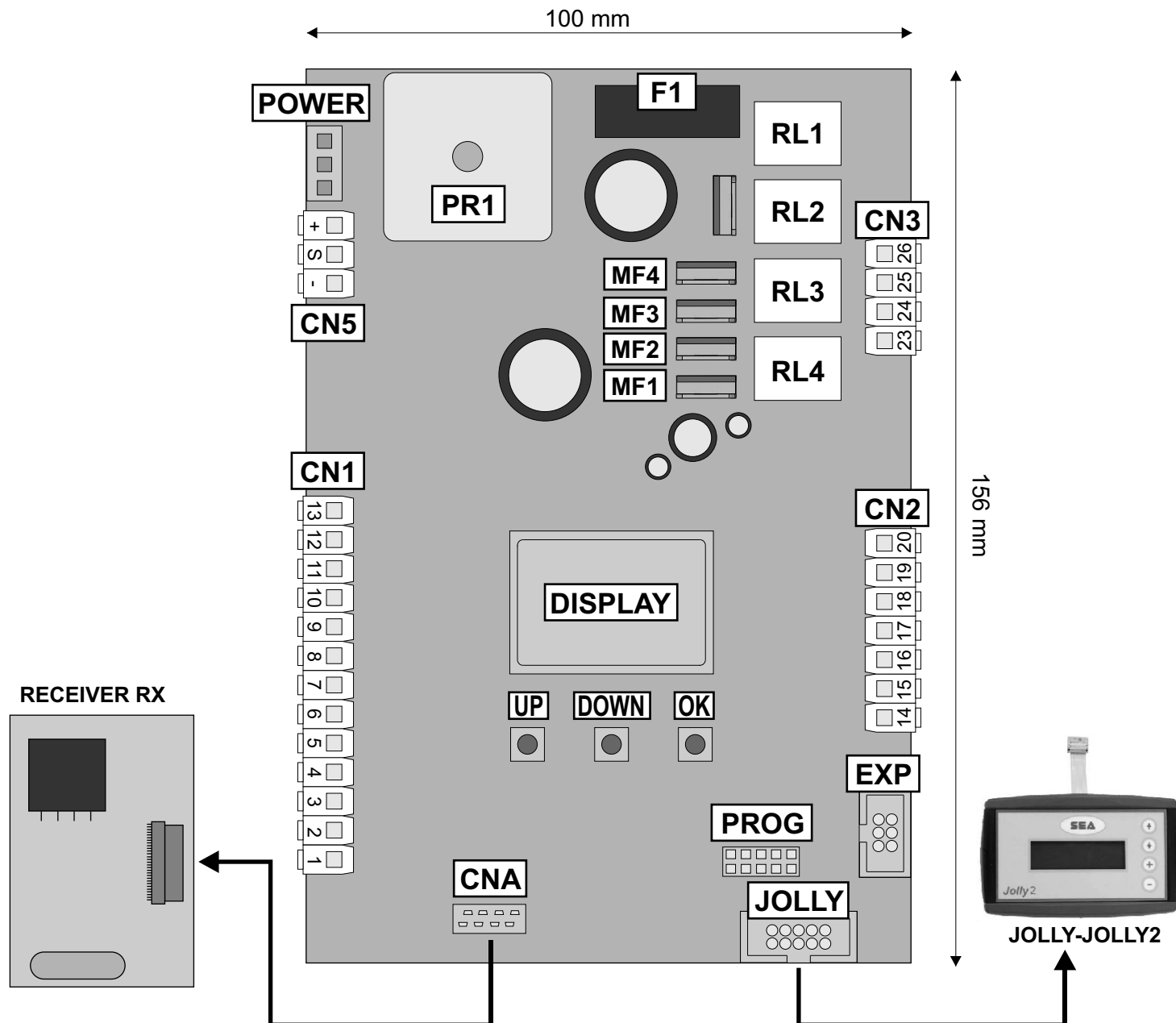
TECHNICAL SPECIFICATIONS

Control unit power supply: 24V

Absorption in stand by: 30 mA

Environment temperature : -20°C / +50°C

Specifications of external enclosure: 305 x 225 x 125 mm - Ip55



CN1 = Input/Output connector

CN2 = Limit switch, electro-lock connector

CN3 = Motors connector

CN5 = Battery charger connector

CNA = RX Receiver module connection

EXP = External module connector

JOLLY = Jolly-Jolly 2 programmer connector

MF1 - MF2 = Mosfet motor 2

MF3 - MF4 = Mosfet motor 1

POWER = 24V~ power supply connection

PROG = Programming connector

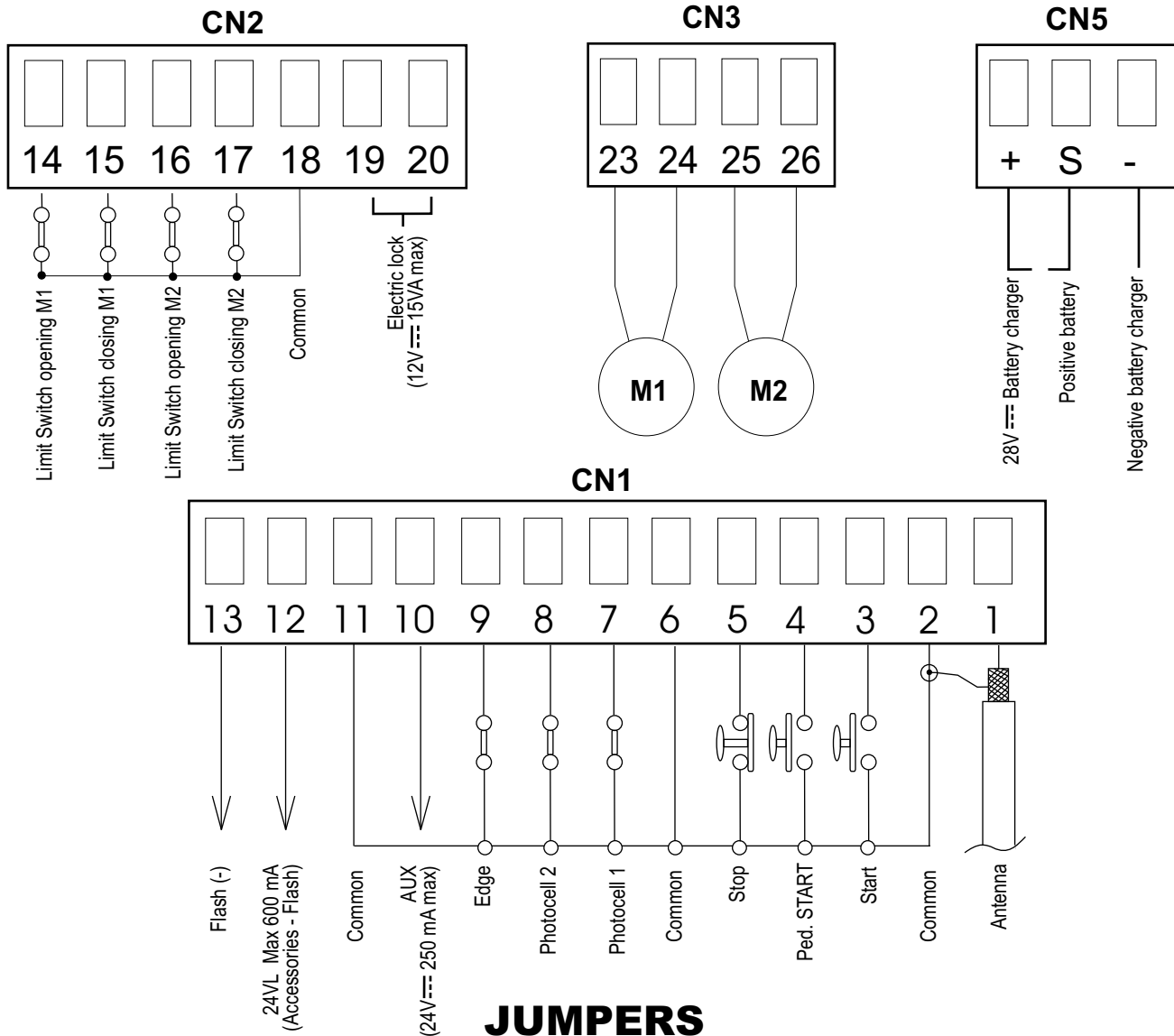
Pr1 = Rectifier jumper

RL1 - RL2 = Relay motor 2

RL3 - RL4 = Relay motor 1

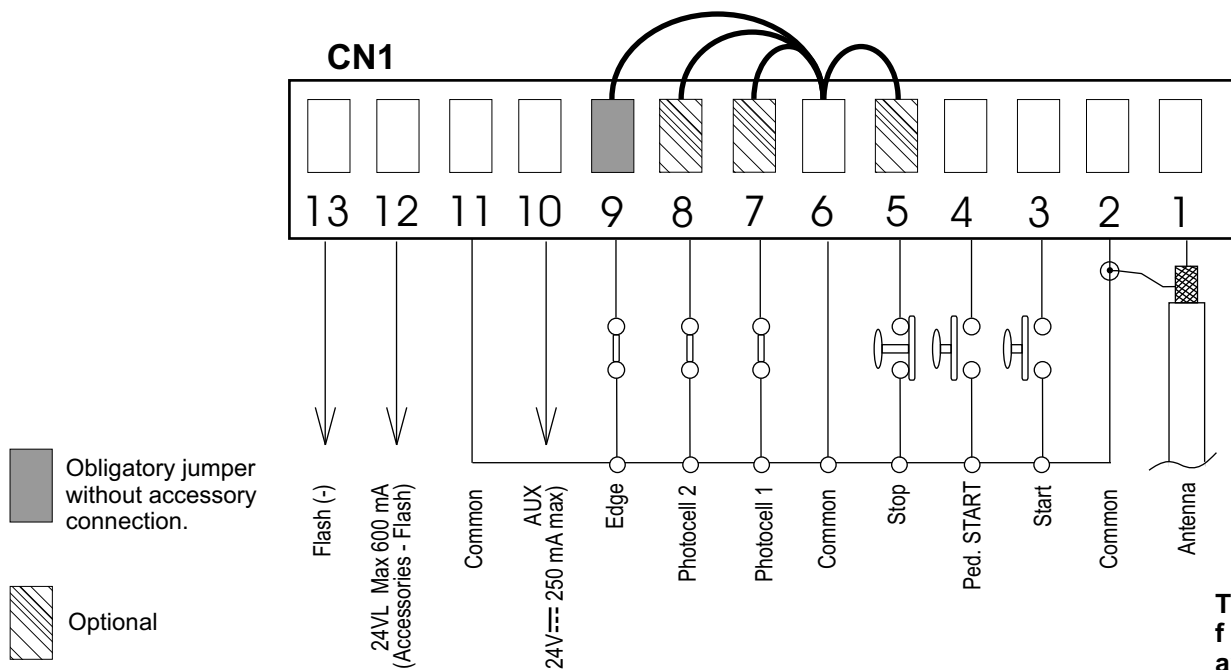
F1 = Fuse 10AT

CONNECTIONS



JUMPERS

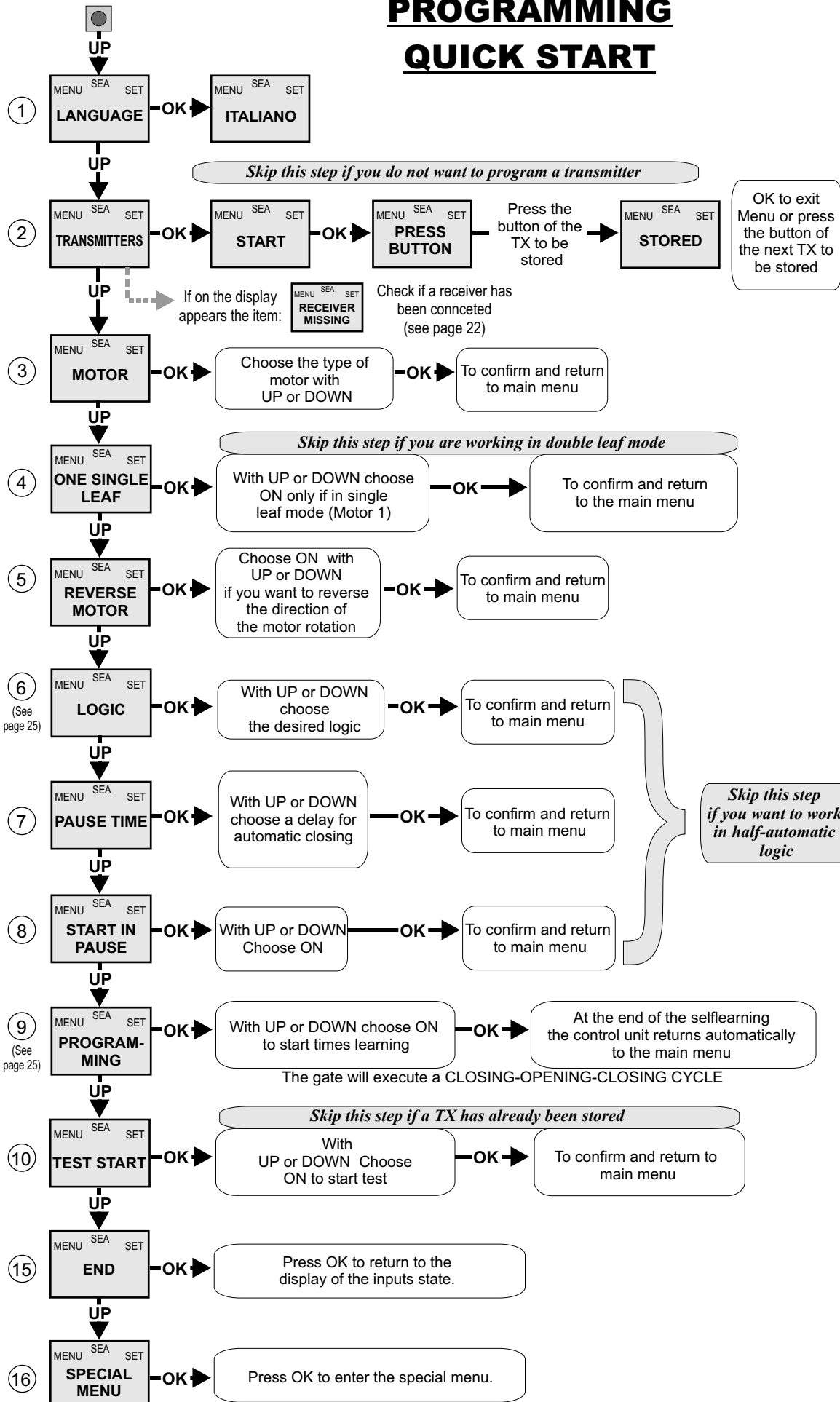
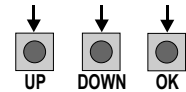
WARNING: The control unit is designed with the automatic detection of not used N.C. inputs (Photocells, Stop and Limit switch) except the SAFETY EDGE input. The exclude inputs in self-programming can be restored in the "Check inputs" menu without need to repeat the programming (page 33).



The herein reported functions are available starting from revision 032.

PROGRAMMING **QUICK START**

PROGRAMMING **BUTTONS**



ALL OTHER PARAMETERS HAVE DEFAULT SETTINGS WHICH ARE USEFUL FOR THE 90% OF THE APPLICATIONS BUT CAN BE HOWEVER SET THROUGH THE SPECIAL MENU. FOR ENTERING INTO THE SPECIAL MENU MOVE ON ONE OF THE MENU AND PRESS THE UP AND DOWN BUTTONS AT THE SAME TIME FOR 5 S.

MENU FUNCTIONS TABLE USER 2 24V DG R1B "ALL IN"

MENU	SET	Description	Default	Set value
1 - LANGUAGE	<i>Italiano</i>	Italian	<i>Italiano</i>	
	<i>English</i>	English		
	<i>Français</i>	French		
	<i>Español</i>	Spanish		
	<i>Dutch</i>	Olandese		
2 - TRANSMITTERS	<i>Start</i>	Start	<i>Start</i> <i>Pedestrian Start</i>	
	<i>Pedestrian Start</i>	Pedestrian Start		
	<i>External module</i>	External module		
	<i>Stop</i>	Stop		
	<i>Delete a transmitter</i>	Delete single transmitter		
	<i>Clear memory</i>	Delete transmitter memory		
	<i>End</i>	"Transmitters" menu output		
3 - MOTOR	<i>Flipper - Ger</i>	Flipper - Ger motors	<i>Flipper</i>	
	<i>Field</i>	Field motors		
	<i>Surf - Alpha</i>	Surf - Alpha motors		
	<i>Beta</i>	Beta motors		
	<i>B600</i>	B600 motors		
4 - ONE SINGLE LEAF	<i>Off</i>	Disabled	<i>Off</i>	
	<i>On</i>	In ON activates single leaf mode (Motor 1)		
5 - REVERSE MOTOR	<i>Off</i>	In On reverses the opening with the closing and / or vice versa.	<i>Off</i>	
	<i>On</i>			
6 - LOGIC (See page 26)	<i>Automatic</i>	Automatic	<i>Automatic</i>	
	<i>Open-stop-close-stop-open</i>	Step by step type 1		
	<i>Open-stop-close-open</i>	Step by step type 2		
	<i>2 buttons</i>	Two buttons		
	<i>Safety</i>	Safety		
	<i>Dead man</i>	Dead man		
7 - PAUSE TIME	<i>Off</i>	OFF (semi-automatic logics)	<i>Off</i>	
	<i>1 240</i>	Setting from 1s to 4min.		
8 - START IN PAUSE	<i>Off</i>	In pause start is not accepted	<i>Off</i>	
	<i>On</i>	In pause start is accepted		
9 - PROGRAMMING (See page 26)	<i>Off On</i>	Times learning start	<i>Off</i>	
10 - TEST START	<i>Off On</i>	Start command	<i>Off</i>	
15 - END	Press OK to return to the display of the firmware version and to the one of inputs state.			
16 - SPECIAL MENU	Press OK to enter the special menu.			

WORKING TIMES SELF LEARNING

Note1: Put a jumper on SAFETY EDGE contact if not used.

Note2: It is not necessary to put a jumper on the limit switches, photocells and Stop if they are not used.

1) Check the right operation of the accessories (photocells, buttons etc.). If necessary set the leaf delay.

2) If necessary adjust the selflearning speed.

3) Switch off power supply, release the motors (Fig. 1-2) and manually place the leaf on the middle of the stroke (Fig. 3).

Restore the mechanical lock (Fig.4-5)

4) Power the control unit.

5) Choose the desired motor type; use (default Flipper).

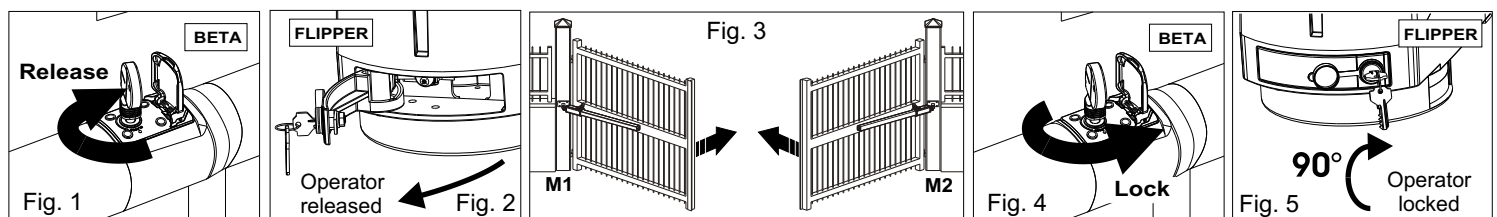
6) Select 9-PROGRAMMING on the display, press OK and then UP and DOWN to start the programming.

Note3: If on single leaf mode set 4-ONE SINGLE LEAF on ON.

Note4: If one or both motors start in opening, switch off power and invert the motor(s) cable starting in opening. Afterwards repeat the procedure starting from point 4, or activate 5-REVERSE MOTOR

7) Both leaves will start a CLOSE - OPEN - CLOSE cycle automatically (CLOSE M2 - CLOSE M1 - OPEN M1 - OPEN M2 - CLOSE M2 - CLOSE M1). End of selflearning.

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 "Init". The DEFAULT settings are shown in the Menues table.



FUNCTION LOGIC

AUTOMATIC LOGIC

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

A start impulse during closing reverses the movement.

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 8-START IN PAUSE 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 8-START IN PAUSE 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 8-START IN PAUSE 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 8-START IN PAUSE and choosing ON or OFF. By default, the parameter is OFF.

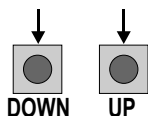
DEAD MAN LOGIC

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.

SPECIAL MENU



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

SPECIAL MENU FUNCTIONS TABLE USER 2 24V DG R1B "ALL IN"

For entering into the special menu move on one of the menu and press the UP and DOWN buttons at the same time for 5 s. For exiting the special menu press END or move on one of the menu and press the UP and DOWN buttons at the same time for 5 s.

MENU SP	SET	Description	Default	Set Value
17 - OPENING SPEED 1 *	30 100	Setting from 30 to 100	75	
18 - CLOSING SPEED 1 *	30 100	Setting from 30 to 100	75	
19 - OPENING SPEED 2 *	30 100	Setting from 30 to 100	75	
20 - CLOSING SPEED 2 *	30 100	Setting from 30 to 100	75	
21 - OPENING SLOWDOWN SPEED 1 *	30 100	Setting from 30 to 100	30	
22 - CLOSING SLOWDOWN SPEED 1 *	30 100	Setting from 30 to 100	30	
23 - OPENING SLOWDOWN SPEED 2 *	30 100	Setting from 30 to 100	30	
24 - CLOSING SLOWDOWN SPEED 2 *	30 100	Setting from 30 to 100	30	
25 - LEARNING SPEED *	30 100	Setting from 30 to 100	50	
26 - LEAF DELAY IN OPENING	Off 6	Setting from OFF to 6 seconds	3	
27 - LEAF DELAY IN CLOSING	Off 20	Setting from OFF to 20 seconds	3	
28 - OPENING TORQ 1 *	10 100	Opening torque M1 and amperometric sensitivity Note: By increasing the torque the sensitivity decreases	70	
29 - CLOSING TORQ 1 *	10 100	Closing torque M1 and amperometric sensitivity Note: By increasing the torque the sensitivity decreases	70	
30 - OPENING TORQ 2 *	10 100	Opening torque M2 and amperometric sensitivity Note: By increasing the torque the sensitivity decreases	70	
31 - CLOSING TORQ 2 *	10 100	Closing torque M2 and amperometric sensitivity Note: By increasing the torque the sensitivity decreases	70	
32 - ENCODER *	On	In ON enables the Encoder	Off	
32 - ENCODER *	Potentiometer	Enables the reading of the potentiometer with LE card.	Off	
51 - I.PAR.M1 *	-----	Reports the current position of the potentiometer on the leaf of motor 1. This parameter is useful for seeing if the potentiometer is read correctly.		

MENU SP	SET	Description	Default	Set Value
52 - I.AP.M1 *	-----	Reports the impulses stored by the control unit when the leaf of motor 1 is fully open.		
53 - I.CH.M1 *	-----	Reports the impulses stored by the control unit when the leaf of motor 1 is fully close.		
54 - I.PAR.M2 *	-----	Reports the current position of the potentiometer on the leaf of motor 2. This parameter is useful for seeing if the potentiometer is read correctly.		
55 - I.AP.M2 *	-----	Reports the impulses stored by the control unit when the leaf of motor 2 is fully open.		
56 - I.CH.M2 *	-----	Reports the impulses stored by the control unit when the leaf of motor 2 is fully close.		
32 - ENCODER *	Off	In OFF disables the Encoder	Off	
33 - OPENING SENSITIVITY MOTOR1 *	10% (Fast intervention) 99% (Slow intervention)	Adjusts the intervention time of the amperometric sensor on Motor 1 in opening	Off	
	Off (Intervention excluded)	Disabled		
34 - CLOSING SENSITIVITY MOTOR1 *	10% (Fast intervention) 99% (Slow intervention)	Adjusts the intervention time of the amperometric sensor on Motor 1 in closing	Off	
	Off (Intervention excluded)	Disabled		
35 - OPENING SENSITIVITY MOTOR2 *	10% (Fast intervention) 99% (Slow intervention)	Adjusts the intervention time of the amperometric sensor on Motor 2 in opening	Off	
	Off (Intervention excluded)	Disabled		
36 - CLOSING SENSITIVITY MOTOR2 *	10% (Fast intervention) 99% (Slow intervention)	Adjusts the intervention time of the amperometric sensor on Motor 2 in closing	Off	
	Off (Intervention excluded)	Disabled		
46 - INVERSION	0 2000	Allows you to adjust the inversion space calculated in pulses.	500	
	Total opening	In case of inversion on obstacle during closing the gate will completely reopen and will try for 3 times the reclosing.		
59 - OPENING SLOWDOWN 1	Off 100%	From OFF to 100% of the stroke	30	
60 - CLOSING SLOWDOWN 1	Off 100%	From OFF to 100% of the stroke	30	
61 - OPENING SLOWDOWN 2	Off 100%	From OFF to 100% of the stroke	30	
62 - CLOSING SLOWDOWN 2	Off 100%	From OFF to 100% of the stroke	30	

MENU SP	SET	Description	Default	Set Value
64 - ACCELERATION	0 %  100%	Acceleration ramp. Adjusts the motor start.	75%	
70 - OPENING POSITION RECOVERY	0 15	Retrieves the inertia of the motor in opening after Stop or reversing	6 %	
71 - CLOSING POSITION RECOVERY	0 15	Retrieves the inertia of the motor in closing after Stop or reversing	6 %	
72 - OPENING TOLERANCE MOTOR1	0 100	Adjust the tolerance between stop and obstacle M1 opening	0	
73 - CLOSING TOLERANCE MOTOR1	0 100	Adjust the tolerance between stop and obstacle M1 closing	0	
74 - OPENING TOLERANCE MOTOR2	0 100	Adjust the tolerance between stop and obstacle M2 opening	0	
75 - CLOSING TOLERANCE MOTOR2	0 100	Adjust the tolerance between stop and obstacle M2 closing	0	
76 - PUSHING STROKE	Off 3	Facilitates the unlocking of the electrolock	Off	
77 - LOCK TIME	Off 5	Sets the lock release time from 0 to 5 s	1	
78 - LOCK	Only opening	Active only before opening	Only opening	
	Only closing	Active only before closing		
	Opening and closing	Active before opening and closing		
79 - ANTI INTRUSION	Only opening	If you force the gate manually, the control unit starts the motor to restore the state of the gate before forcing only if limit switch is present	Off	
	Only closing			
	Opening and closing			
	Off			
80 - PUSHOVER	Off	Allows the leaf to make an extra move at maximum torque to ensure the tightening.	Off	
	Opening and closing			
	Only opening			
	Only closing			
81 - PERIODICAL PUSHOVER	Off 8	Allows the repetition of the Pushover function at a distance of time adjustable from 0 to 8 hours at hourly intervals	Off	
82 - MOTOR RELEASE *	Off	Disabled	Off	
	0.1 3.0 s	Setting from 1 to 3 s. At the end of closing the motor re-opens for the set time.		
85 - PREFLASHING	Only closing	Pre-flashing only active before closing	Off	
	0.0 5.0 s	Pre-flashing time		

MENU SP	SET	Description	Default	Set Value
86 - FLASHING LIGHT	<i>Normal</i>	Normal	<i>Normal</i>	
	<i>Light</i>	Control lamp		
	<i>Always</i>	Always ON		
	<i>Buzzer</i>	Buzzer		
87 - FLASHING LIGHT AND TIMER	<i>Off</i>	The flashing light remains OFF with the active timer and open gate	<i>Off</i>	
	<i>On</i>	The flashing light remains ON with active timer and open gate		
88 - COURTESY LIGHT	<i>Off</i>	Disabled	<i>In cycle</i>	
	<i>1 240</i>	Courtesy light setting from 1s to 4min.		
	<i>In cycle</i>	Courtesy light in cycle		
89 - TRAFFIC LIGHT RESERVATION	<i>Off on</i>	When setting this function the pedestrian input will be activated to work on the auxiliary board SEM (traffic light management).	<i>Off</i>	
90 - PEDESTRIAN OPENING	<i>20 100</i>	Setting from 20 to 100	<i>100</i>	
91 - PEDESTRIAN PAUSE	<i>= Start</i>	Pause in pedestrian opening same as in total opening	<i>= Start</i>	
	<i>Off</i>	Disabled		
	<i>1 240</i>	Setting from 1s to 4 min.		
92 - TIMER	<i>Off</i>	Transforms the selected input in an input on which to connect an external clock.	<i>Off</i>	
	<i>On photo2</i>			
	<i>On pedestrian entry</i>			
94 - 24V AUX	<i>Always</i>	AUX output always power supplied	<i>Always</i>	
	<i>In cycle</i>	AUX output active only during cycle		
	<i>Opening</i>	AUX output power supplied only during opening		
	<i>Closing</i>	AUX output power supplied only during closing		
	<i>In pause</i>	AUX output power supplied only during pause		
	<i>Fototest</i>	AUX output for connection of photocell TX to autotest		
	<i>In cycle and fototest</i>	AUX output only during cycle with fototest function active		
	<i>Gate open warning light</i>	1 flash per sec. in opening 2 flashes per sec. in closing Steady lit in Stop or Open.		
95 - FOTOTEST	<i>Photo1</i>	Auto-test active only on Photo1	<i>Photo1-2</i>	
	<i>Photo2</i>	Auto-test active only on Photo2		
	<i>Photo1-2</i>	Auto-test active on Photo1 and Photo2		

MENU SP	SET	Description	Default	Set Value
97 - PHOTO1	<i>Closing</i>	Photocell active in closing	<i>Closing</i>	
	<i>Opening and closing</i>	Active in opening and closing		
	<i>Stop</i>	Photocell active before opening		
	<i>Stop and close</i>	The photocell stops in closing and closes when released		
	<i>Close</i>	The photocell gives a command to close during opening, pause and closing		
	<i>Pause reload</i>	The photocell charging the pausing time		
	<i>Delay pause time</i>	If the photocell is occupied during opening, pause or closing, the gate reopens completely and closes without observing the pause time.		
98 - PHOTO2	<i>Closing</i>	Photocell active in closing	<i>Opening</i>	
	<i>Opening and closing</i>	Active in opening and closing		
	<i>Stop</i>	Photocell active before opening		
	<i>Stop and close</i>	The photocell stops in closing and closes when released		
	<i>Close</i>	The photocell gives a command to close during opening, pause and closing		
	<i>Pause reload</i>	The photocell charging the pausing time		
	<i>Delay pause time</i>	If the photocell is occupied during opening, pause or closing, the gate reopens completely and closes without observing the pause time.		
100 - EDGE1	<i>Normal</i>	Normal N.C. contact	<i>Normal</i>	
	<i>8K2</i>	Edge is active and protected by a 8k2 resistor		
104 - SELECT LIMIT SWITCH	<i>Automatic</i>	Limit switch in automatic recognition	<i>Off</i>	
	<i>Only opening</i>	Only limit switch in opening present		
	<i>Only closing</i>	Only limit switch in closing present		
106 - DIAGNOSTICS	<i>1 10</i>	Shows last event (See alarms table)		
107 - MAINTENANCE CYCLES	<i>100 10E4</i>	Setting from 100 to 100000	<i>10E4</i>	
108 - PERFORMED CYCLES	<i>0 10E9</i>	Reports the executed cycles. Keep pressed OK to reset the cycles	<i>0</i>	

MENU SP	SET	Description	Default	Set Value
112 - PASSWORD	----	Allows the entering of a password blocking the control unit parameters modification.	----	
120 - BASIC MENU	Press OK to exit the special menu. The special menu switches off automatically after 20 minutes.			

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

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

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 112-PASSWORD Submenu.

Pressing OK in the 112-PASSWORD 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 "Sure?" appears, confirm the activation of the password and the message OK appears, pressing UP or DOWN instead you can cancel the operation and "No operation" 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 112-PASSWORD 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 112-PASSWORD 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.

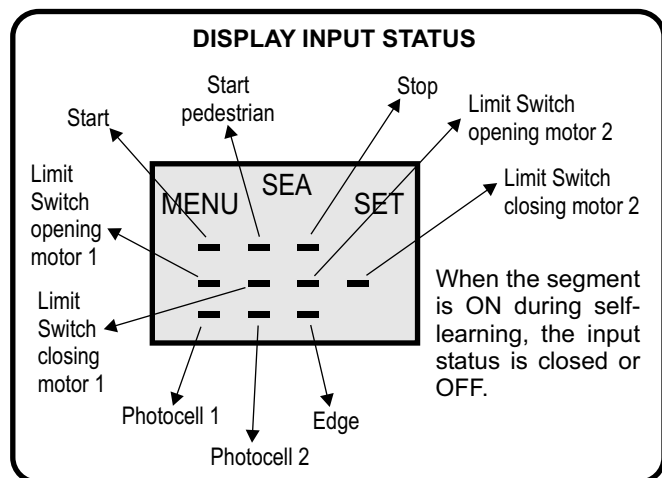
Note: The password cannot be set through the Jolly or Jolly 2 terminal.

MENU FOR INPUT CHECK

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.

Moving in the language menu pressing the UP and DOWN buttons at the same time you access the SP MENU for special settings.

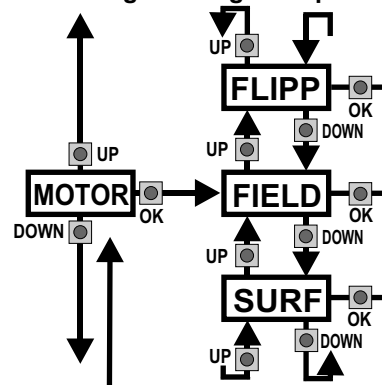
Moving in the language menu pressing the OK button for 5 seconds, you enter the CHECK MENU, where you can check the operating status of all inputs.



Initial system

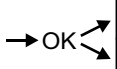
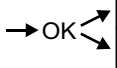
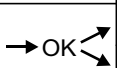
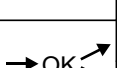
U.001 Software Version

Programming example



MENU FUNCTION TABLE CHECK USER 2 24V DG R1B "ALL IN" INPUTS

To access the Menu for input check keep pressed OK for about 5 seconds.

MENU			Description	Description
START			Start test	The contact must be a N.O. Contact . When activating the related command on the display SET lights up, the input works. If SET is always on, check the wirings.
STOP		Enabled	Stop test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. Contact.
		Blocked		
PEDESTRIAN START			Pedestrian start test	The contact must be a N.O. Contact . When activating the related command on the display SET lights up, the input works. If SET is always on, check the wirings.
EDGE		Enabled	Safety edge test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. Contact.
		Blocked		
PHOTO1		Enabled	Photocell 1 test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. Contact.
		Blocked		
PHOTO2		Enabled	Photocell 2 test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. Contact.
		Blocked		
LIMIT SWITCH OPENING 1			M1 opening limit switch test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. contact or that the related limit switch is not occupied.
LIMIT SWITCH CLOSING 1			M1 closing limit switch test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. contact or that the related limit switch is not occupied.
LIMIT SWITCH OPENING 2			M2 opening limit switch test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. contact or that the related limit switch is not occupied.
LIMIT SWITCH CLOSING 2			M2 closing limit switch test	The contact must be a N.C. Contact. If activating the related command on the display SET lights up, the input works. If SET is always on, make sure that the contact is a N.C. contact or that the related limit switch is not occupied.
0.0U			Batteries' voltage level	Batteries charge level indicator
END			Exit menu	

Note: If the **Stop**, **Photocell 1** and **Photocell 2** contacts are not bridged in self-learning, they will be deactivated and can be reactivated through this menu, without repeating times self-learning.

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.

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

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 case of **transmitters with fixed code** it is necessary to **press 1 time** the button of the transmitter you want to program to store the first remote control

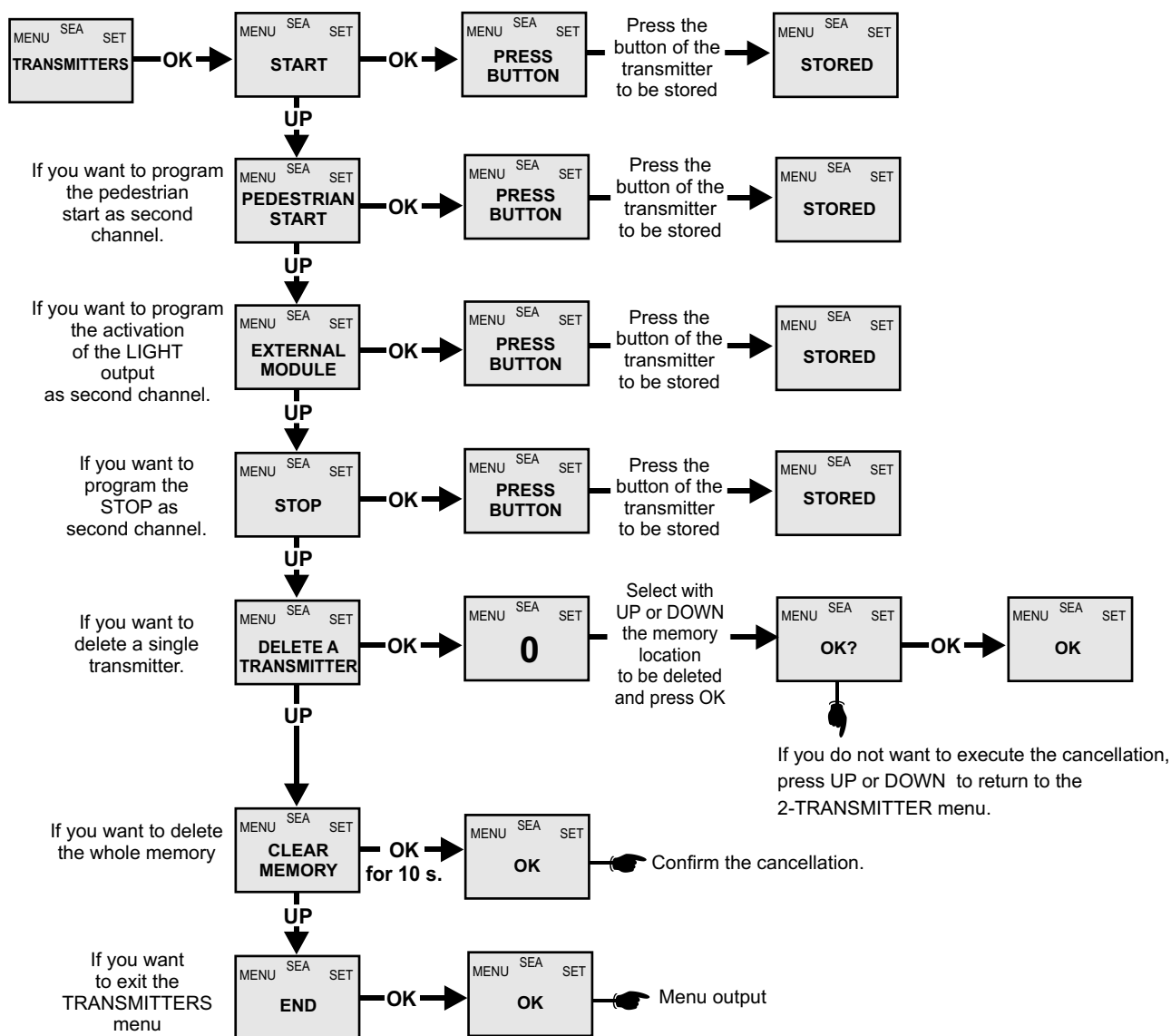
Notes:

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

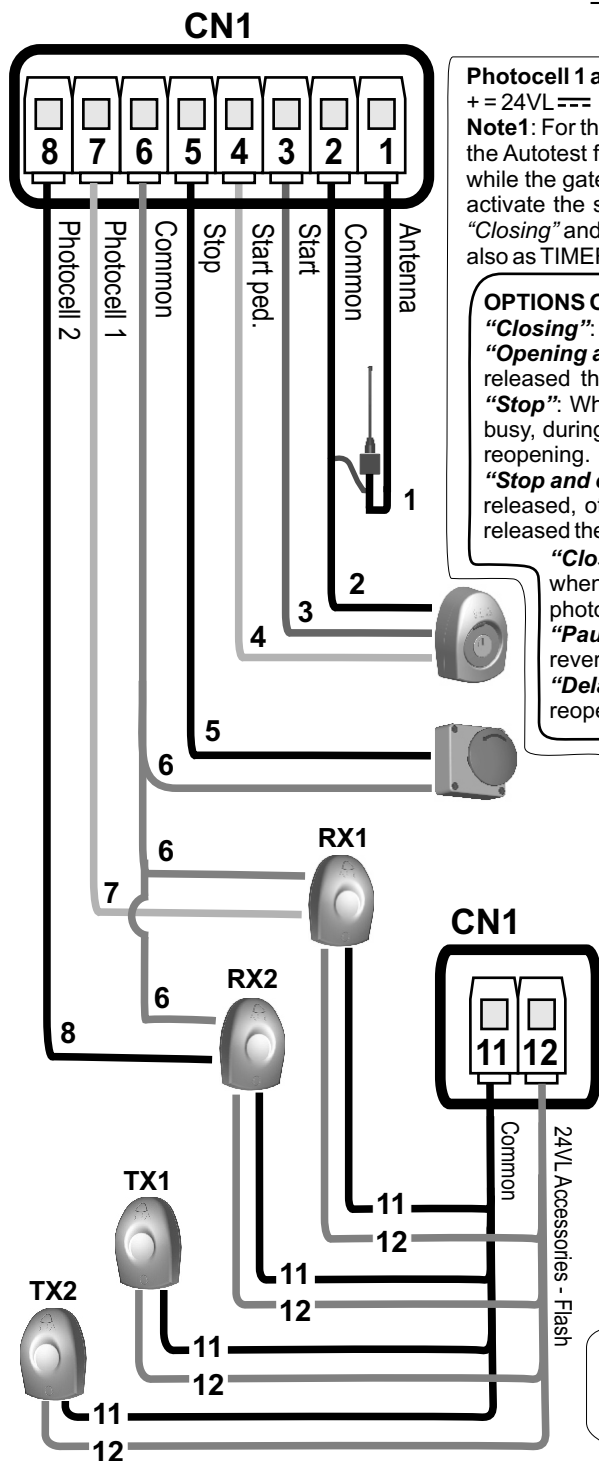
RF UNI	16 USERS Whitout memory 800 USERS With additional memory MEM
RF UNI PG <i>Old Model</i>	100 USERS Fixed code 800 USERS Roll Plus
RF UNI PG <i>New model</i>	800 UTENTI Fixed code 800 UTENTI Roll Plus

TABLE EXAMPLE

Transmitter button Memory location	1	2	3	4	Serial number	Customer
0						
1						
2						
3						



START - STOP - PEDESTRIAN START - ANTENNA - PHOTOCELL



Photocell 1 and Photocell 2 Connections

+ = 24VL --- COM = 0V PH1 = Photocell contact 1 PH2 = Photocell contact 2

Note1: For the autotest connect in the menu 92-24V AUX the TX to the 24VAux clamp and activate the Autotest function. **Note2:** The "In cycle and fototest" function will keep the photocells OFF while the gate is closed, thus saving energy. **Note3:** On the 95-FOTOTEST menu you can also activate the self-test even on the single photocell. The standard setting of the photocell 1 is in "Closing" and the one of the photocell 2 is in "Opening and closing". The photocell 2 can be set also as TIMER (see TIMER function). The selftest can be applied also on single photocell.

OPTIONS ON FOTO1 and FOTO2 adjustable on on-board display or with JOLLY terminal.

"Closing": if occupied, reverses the movement in closing, during pause it prevent the closing.

"Opening and closing": If activated the photocell blocks the movement as long as it's busy, when released the opening continues.

"Stop": When activated before the opening the photocell blocks the automation as long as it is busy, during the opening it will be ignored. In closing the intervention of the photocell causes the reopening.

"Stop and close": in opening it is not active; in pause are activated it commands the closing when released, otherwise it's not active; in closing it stops the movement as long as it is busy, when released the closing continues.

"Close": The photocell stops the gate as long as it is occupied in both opening and closing, when released it gives a closing command (Closing one second after release of the photocell).

"Pause reload": If occupied, during pause it recharges the timer of pause. In closing it reverses the movement.

"Delay pause time": If the photocell is occupied during opening, pause or closing, the gate reopens completely and closes without observing the pause time.

Options AUX 24V --- can be set with on-board Display or with Jolly device.

It is possible to chose when having tension on the AUX output. The options are: **Always, In cycle, Opening, Closing, In pause, Fototest, In cycle and fototest, Gate open warning light.** When using control units with batteries and / or solar panels, we recommend connecting the accessories which are not used when operator stands still (e.g. photocells) to a AUX 24V output, setting the option "In cycle". With this setting you can save energy by lowering power consumption in stand-by, increasing the autonomy of the system.

PEDESTRIAN START (N.O.) The pedestrian start can be connected between the clamps 2 and 4 of the CN1 terminal.

This input allows a partial opening the opening space can be set through the on-board display or through the JOLLY device.

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

Note2: In 2 BUTTONS logic it is necessary to keep pressed the Start Ped. to re-close the automation.

Note3: In dead man logic this button executes the re-closing if you keep it pressed.

Note4: When closed during pause, the gate will reclose only after this input has been reopened.

TIMER activation: This input can be transformed into TIMER (See TIMER).

STOP (N.C.) The STOP is connected between the clamps 2 and 5 of the CN1 terminal. The pressure on this button immediately stops the motor in any condition/position. A start command is needed to re-start the movement. After a stop the motor always re-starts in closing.

START (N.O.) The START is connected between the clamps 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 key switch, a keypad, etc. To connect the other devices refer to the related instructions leaflets. (ie. loop detectors and proximity switches).

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

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

Timer activation: it is possible to connect a timer on the start only in auto logic with time of pause different than DISB and with START IN PAUSE function OFF.

TIMER



Can be activated through on-board display or through the Jolly programmer. In both cases it's a N.O. contact which provokes the opening of the automation keeping it open until it is activated. When it's released, the gate attends the set pausing time and executes the reclosing. The TIMER command can be activated on the inputs FOTO2, START PEDESTRIAN.

Note1: When activated on the pedestrian entry, the pedestrian will be disabled also on the radio transmitter.

Note2: In case of intervention of a security device during the timer (Stop, Ammeter, Edge), to restore the movement it will be necessary to give a start impulse.

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

AMPEROMETRIC MANAGEMENT

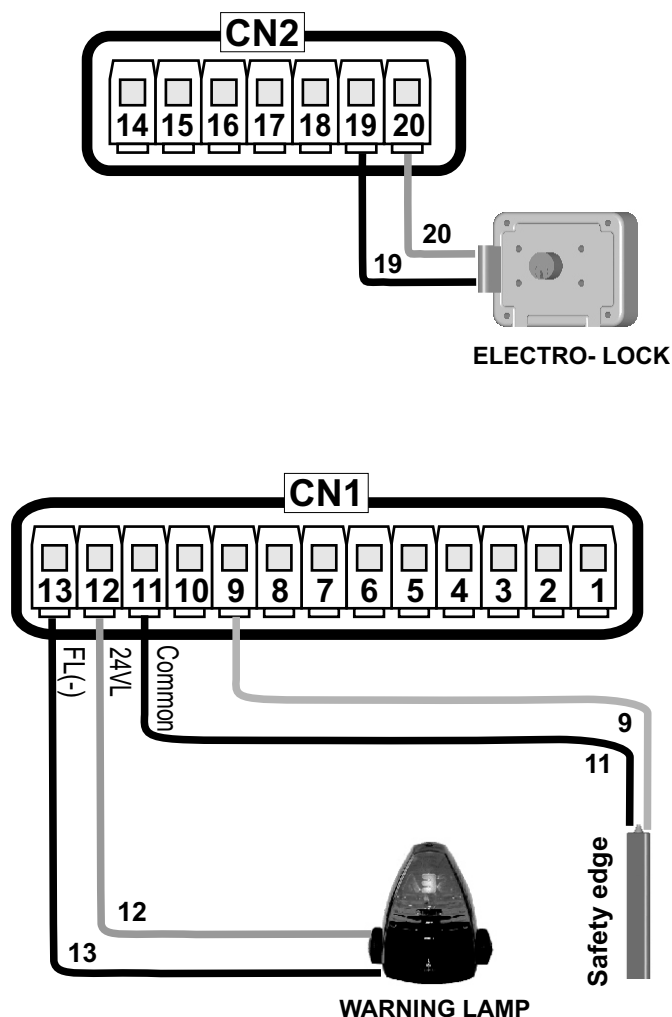
AMPEROMETRIC DEVICE FOR ELECTROMECHANICAL OPERATORS

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.

The sensitivity is adjustable for single leaf and single opening and closing direction through the torque parameter.

ATTENTION: The first operation after power failure, will be executed with the set speed to search the mechanical stops limit.

ELECTRO- LOCK AND WARNING LAMP - EDGE



Electro-lock exit

An electro-lock of 12V $\equiv$ 15VA max can be connected. It is possible to deactivate the electroc-lock if not used. This operation allows to save energy of the control unit. The release of the electro-lock can be 'timed' from 0 to 5 s.

Flashing Lamp 24VL $\equiv$ 15W (Warning lamp) / 24VL $\equiv$ 4W Led

The warning lamp advises that the automatic gate is in movement performing 1 flash /second in opening and 2 flashes / second in closing. Instead it remains turned on fix during pause.

To connect it, connect the wires of the warning lamp as shown in the figure. **Note:** It is recommended to use the flash 24V Led.

Pre-flashing form 0 to 5 seconds can be activated before operator start or only before closing.

Furthermore from the flashing lamp it is possible to verify some alarm signals. See alarms indications.

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

SAFETY EDGE

It is possible to connect an active safety edge on the terminal CN1. If this device is pressed it opens the contact causing a partial inversion of the movement both in opening and in closing. If not used bridge the contacts 9 and 11 of CN1. Note: contact N.C.

LIMIT SWITCH

Limit switch

If not connected they don't have to be bridged.

For the limit switch function the presence of the limit switches in both closing and opening is necessary.

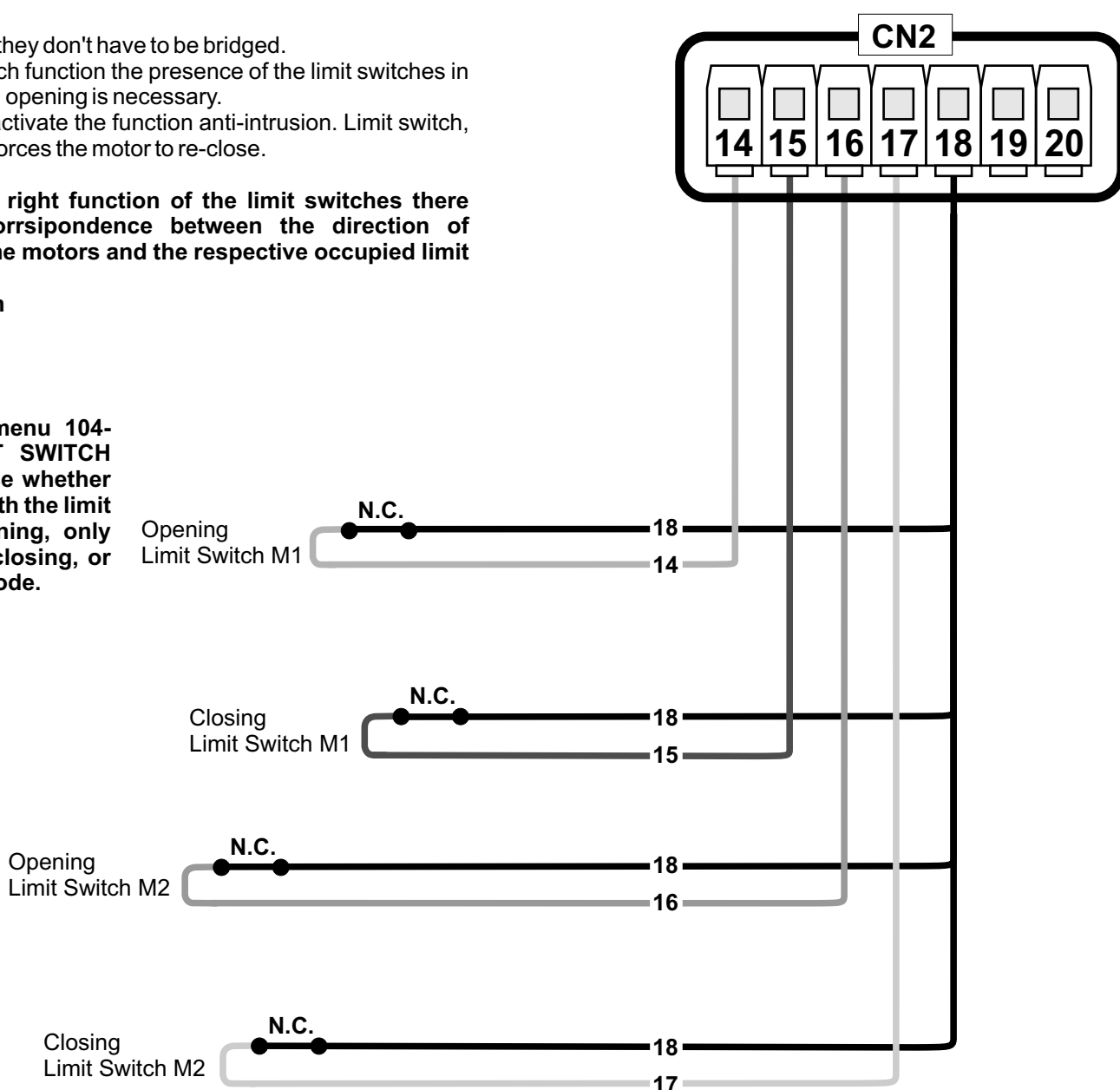
It is possible to activate the function anti-intrusion. Limit switch, that if released, forces the motor to re-close.

⚠ For the right function of the limit switches there must be a correspondence between the direction of movement of the motors and the respective occupied limit switches.

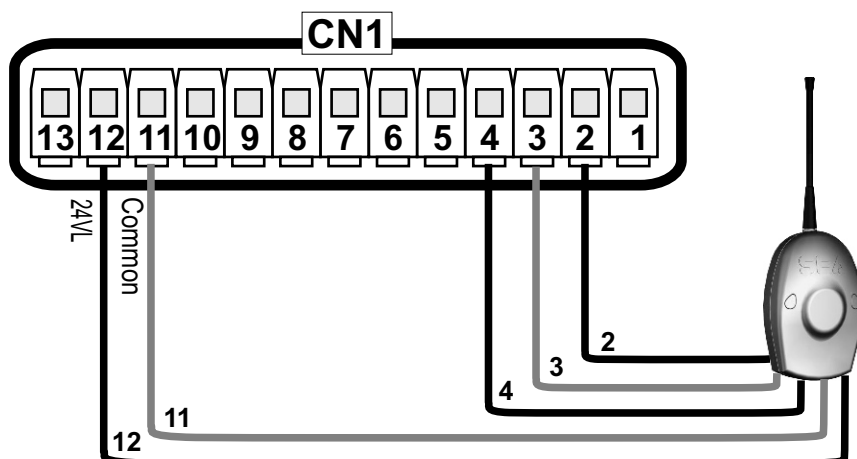
Com = Common

C = Contact

Note: In the menu 104-SELECT LIMIT SWITCH you can choose whether to work only with the limit switch in opening, only with those in closing, or in automatic mode.



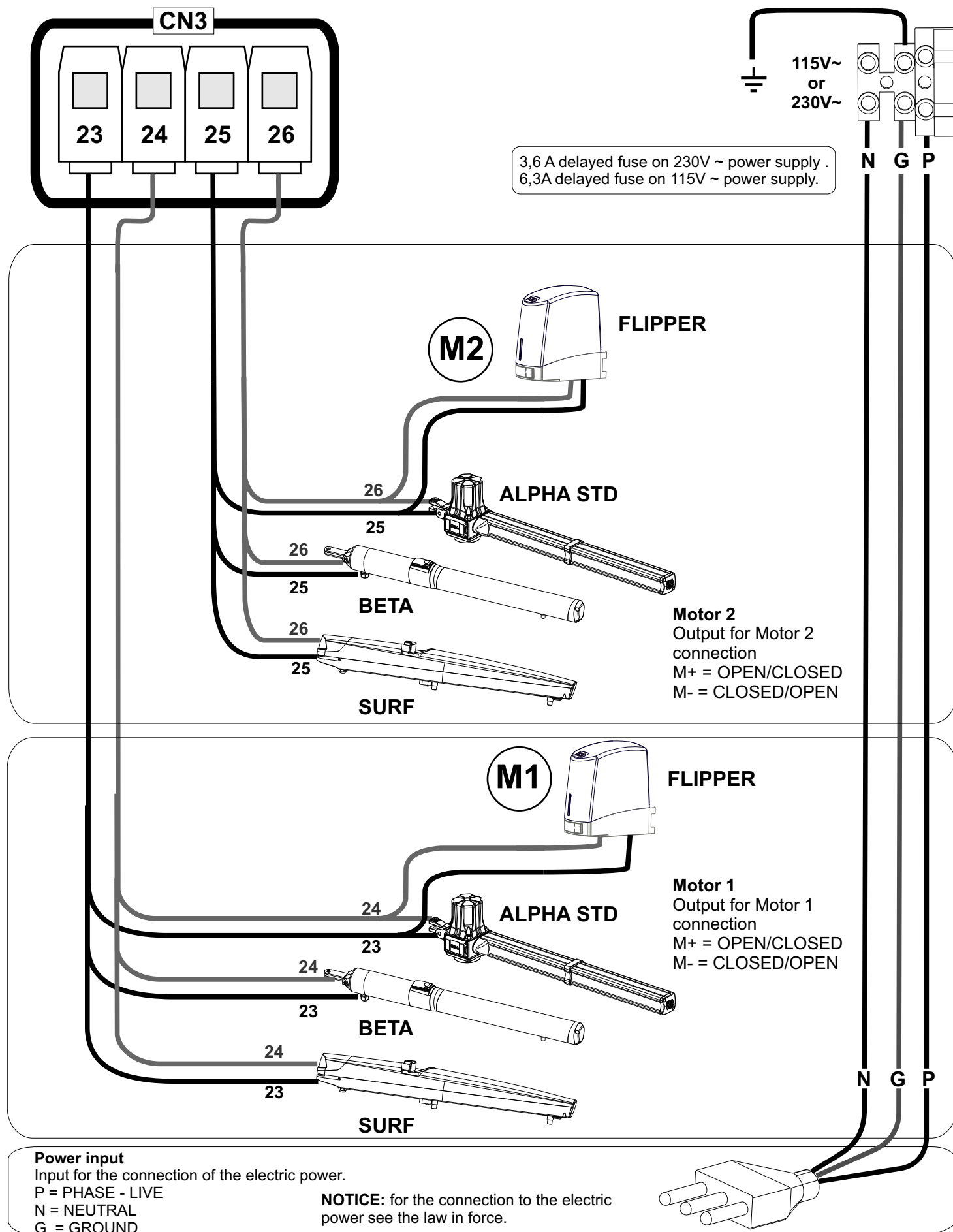
EXTERNAL RECEIVER



Example: Connection of a radio receiver

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

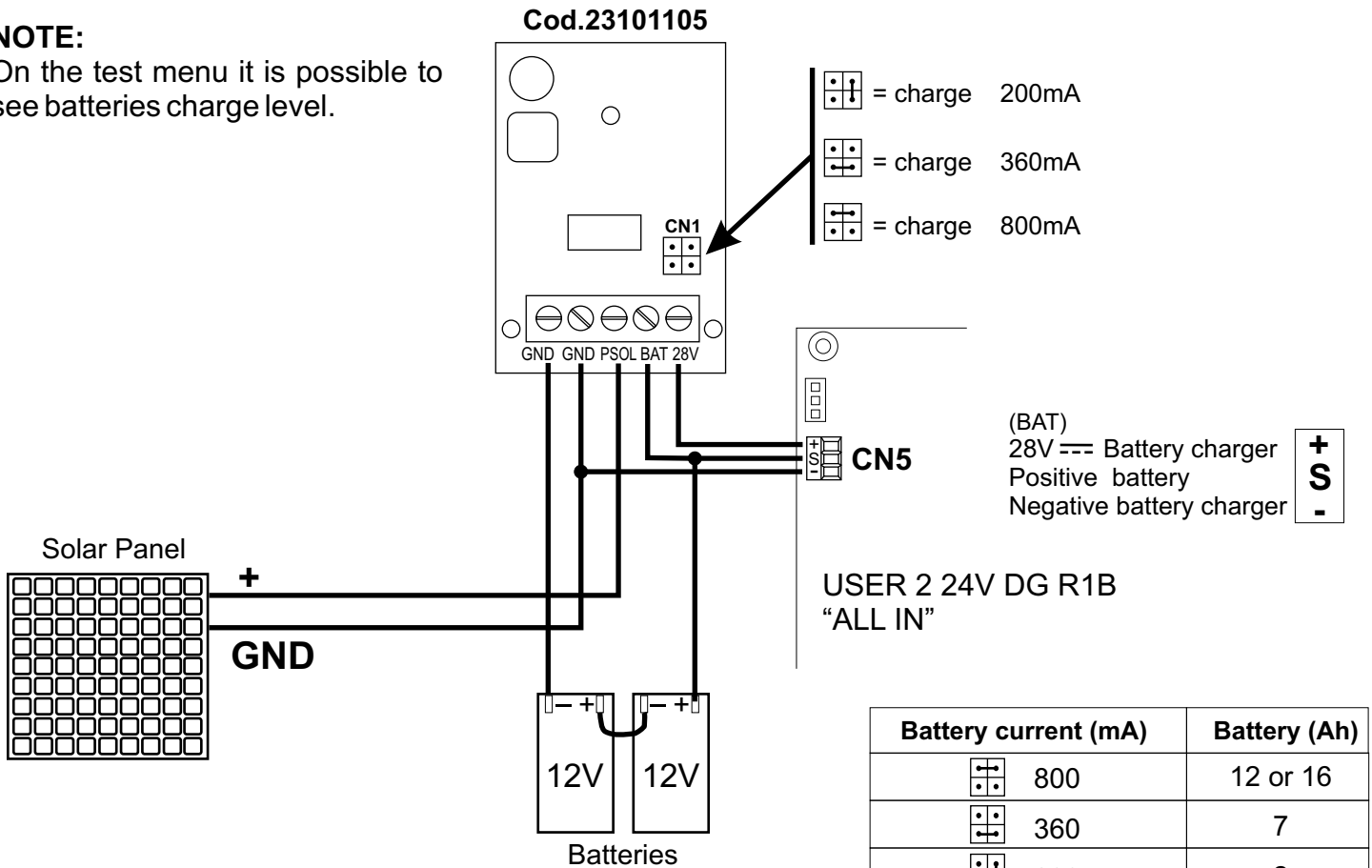
POWER SUPPLY - MOTORS



CONNECTION OF BATTERIES TO BATTERY CHARGER CARD

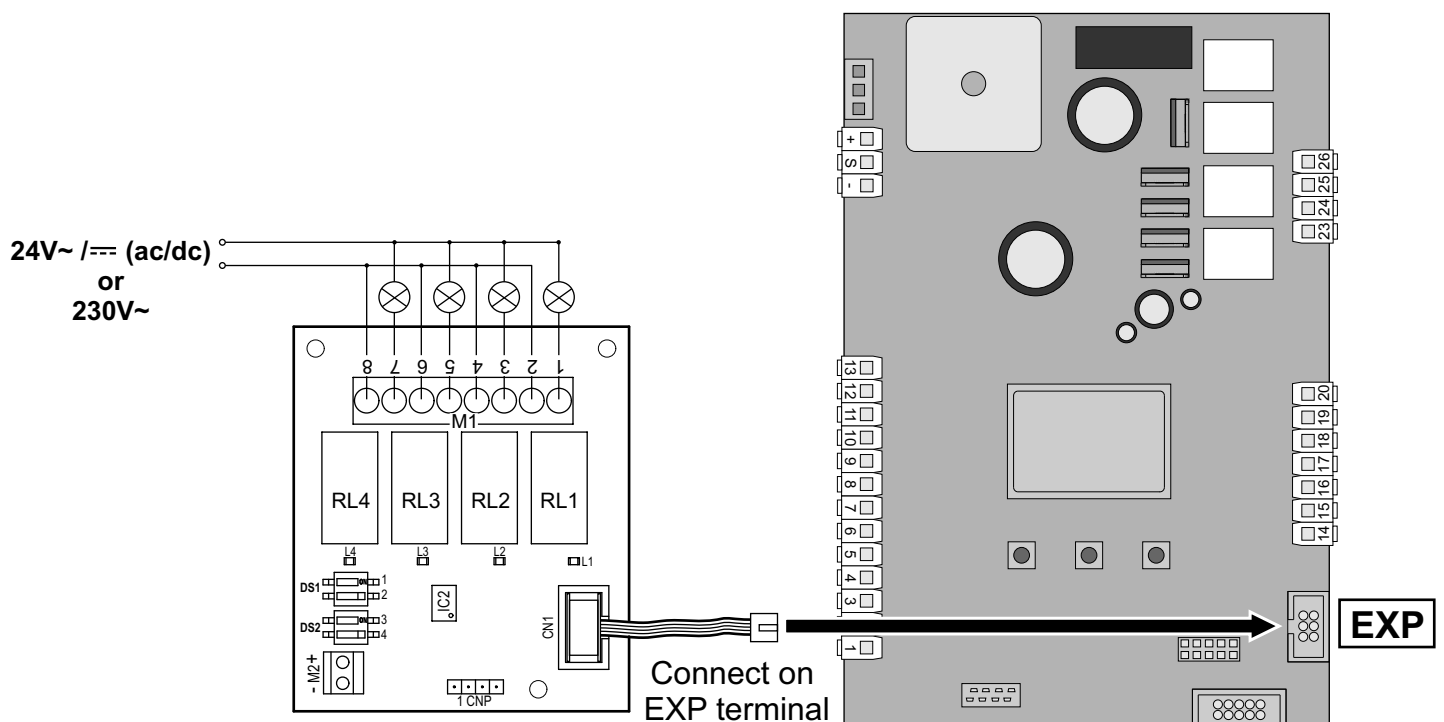
NOTE:

On the test menu it is possible to see batteries charge level.



Insert two 12V batteries connected in series.

TRAFFIC LIGHT CARD CONNECTION



ALARMS INDICATIONS

Signals	Kind of alarm	Solutions
FAILURE MOTOR	Motors current failure	Sure there are no short circuits on the motors or on the control unit.
FAILURE24	24V Power supply failure	Make sure there are no short circuits on the wiring or on the control unit and no overloads.
FAILURE24VAUX	24Vaux output voltage failure	Make sure there are no short circuits on wiring or control unit and no overload.
FAILURE SELF TEST	Self-test photocells failure	Check the photocells operation and / or connections on the control unit.
FAILURE LIMIT SWITCH	Limit switch activation failure	Check the operation of both limit switches and / or correspondence between movement direction of the motors and engaged limit switches.
FAILURE FLASHING LIGHT	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:

Flashings Number	Kind of alarm	Flashings Number	Kind of alarm
9	Motors failure	5	Stop
2	Photocell in closing	7	Max. Reached cycles
3	Photocell in opening	6	Closing impact
6	Opening impact	4 fast	Limit switch error
4	Safety edge		

ALARM SIGNALS

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

The 7 flashes refer to the attainment of the established maximum cycles for the maintenance of the control unit, therefore it is recommended to perform the maintenance and to put on zero the number of cycles.

TROUBLE SHOOTING

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

Page for both installer 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.le, 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 recommend to separate this product from other forms of waste and to recycle it in a responsible way in order to provide the sustainable re-use of material resources. Domestic users are invited to contact the retailer where the product has been purchased or the local office in charge of all the information related to differential waste collection and recycling of this kind of product.

STORING

WAREHOUSING TEMPERATURES

T _{min}	T _{Max}	Dampness _{min}	Dampness _{Max}
- 20°C	+ 65°C	5% 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.

CONDIZIONI DI VENDITA

EFFICACIA DELLE PRESENTI CONDIZIONI GENERALI DI VENDITA: Le presenti condizioni generali di vendita si applicano a tutti gli ordini indirizzati a SEA S.p.A. Tutte le vendite fatte da SEA ai clienti sono regolate secondo le presenti condizioni di vendita che costituiscono parte integrante del contratto di vendita ed annullano ogni clausola contraria o pattuizioni particolari presenti nell'ordine o in altro documento proveniente dall'acquirente (cliente)

AVVERTENZE GENERALI Gli impianti di automazioni porte e cancelli vanno realizzati esclusivamente con componenti SEA, salvo accordi specifici. L'inosservanza delle norme di sicurezza vigenti (Norm. EUROPEE EN 12453 - EN 12445 e altro) e di buona tecnica esclude la SEA da ogni responsabilità. La SEA non risponde del mancato rispetto della corretta e sicura installazione secondo le norme.

1) PROPOSTA D'ORDINE La proposta d'ordine si intenderà accettata solo dopo la sua approvazione da parte della SEA. Conseguenza della sua sottoscrizione, l'acquirente sarà vincolato alla stipula di un contratto d'acquisto, secondo quanto contenuto nella stessa proposta d'ordine e nelle presenti condizioni di vendita. Viceversa, la mancata comunicazione all'acquirente dell'approvazione della proposta d'ordine, non comporta la sua automatica accettazione da parte della SEA

2) VALIDITÀ OFFERTA Le offerte proposte dalla SEA o dalla sua struttura commerciale periferica, avranno una validità di 30 giorni solari, salvo diversa comunicazione in merito.

3) PREZZI I prezzi della proposta d'ordine sono quelli del listino in vigore alla data della redazione della stessa. Gli sconti applicati dalla struttura commerciale periferica della SEA si intenderanno validi solo dopo la loro accettazione da parte della SEA. I prezzi si intendono per merce resa franco ns. stabilimento in Teramo, esclusi IVA ed imballaggi speciali. La SEA si riserva il diritto di modificare in qualsiasi momento il listino, dando opportuno preavviso alla rete di vendita. Le condizioni speciali riservate agli acquisti con formula agevolata Qx, Qx1, Qx2, Qx3 sono riservate ai distributori ufficiali dietro accettazione scritta da parte della direzione SEA.

4) PAGAMENTI Le forme di pagamento ammesse sono quelle comunicate o accettate di volta in volta dalla SEA. Il tasso di interesse sul ritardo da pagamento è del 1,5% mensile e comunque non oltre il tasso massimo legalmente consentito.

5) CONSEGNA La consegna avverrà indicativamente ma non tassativamente entro 30 giorni lavorativi dalla data di ricezione dell'ordine, salvo diverse comunicazioni in merito. Il trasporto degli articoli venduti sarà effettuato a spese ed a rischio dell'acquirente. La SEA si libera dall'obbligo della consegna rimettendo la merce al vettore, sia esso scelto dalla SEA oppure dall'acquirente. Eventuali smarrimenti e/o danneggiamenti della merce dovuti al trasporto, sono a carico dell'acquirente.

6) RECLAMI Eventuali reclami e/o contestazioni dovranno pervenire alla SEA entro 8 giorni solari dalla ricezione della merce, supportati da idonei documenti provanti la loro veridicità.

7) FORNITURA L'ordine in oggetto viene assunto da SEA senza alcun impegno e subordinatamente alle possibilità di approvvigionamento delle materie prime occorrenti alla produzione; eventuali mancate esecuzioni totali o parziali non possono dar luogo a reclami e riserve per danni. La fornitura SEA è strettamente limitata alla sola merce di sua produzione, esclusi il montaggio, l'installazione ed il collaudo. La SEA declina pertanto ogni responsabilità per danni che dovessero derivare, anche a terzi, dall'inosservanza delle norme di sicurezza e della buona regola d'arte nelle fasi dell'installazione e dell'impiego dei prodotti venduti.

8) GARANZIA La garanzia minima è di 12 mesi e può essere estesa, come di seguito, in caso di riconsegna del certificato di garanzia.

SILVER: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 24 mesi dalla data di fabbricazione riportata sull'operatore.

GOLD: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 36 mesi dalla data di fabbricazione riportata sull'operatore.

PLATINUM: Le parti meccaniche degli operatori rientranti in tale categoria sono garantite per 36 mesi dalla data di fabbricazione riportata sull'operatore. La garanzia di base (36 mesi) sarà estesa per ulteriori 24 mesi (fino ad un totale di 60 mesi) qualora venga acquistato il certificato di garanzia che dovrà essere compilato e rispedito alla SEA S.p.A. entro 60 giorni dall'acquisto. L'elettronica e le centrali di comando sono garantite per 24 mesi dalla data di fabbricazione. Nell'eventualità di difettosità del prodotto, la SEA si impegna alla sua sostituzione gratuita oppure alla sua riparazione, previa restituzione al proprio centro di riparazione. La definizione di stato di garanzia è ad insindacabile giudizio della SEA. I pezzi sostitutivi restano di proprietà della SEA. In modo vincolante, il materiale dell'acquirente ritenuto in garanzia deve essere spedito al centro di riparazione della SEA in porto franco e sarà rispedito dalla SEA in porto assegnato. La garanzia non si estende alla manodopera eventualmente accorsa. I difetti riconosciuti non produrranno alcuna responsabilità e/o richiesta di danni, di qualsiasi natura essi siano, da parte dell'acquirente nei riguardi della SEA. La garanzia non è in ogni caso riconosciuta qualora sia stata apportata alla merce qualsivoglia modifica, oppure vi sia stato un uso improprio, oppure si sia in presenza di una qualsivoglia sua manomissione o di un montaggio non corretto, oppure se sia stata rimossa l'etichetta apposta dal produttore comprensiva del marchio SEA registrato n° 804888. La garanzia non è inoltre valida nel caso la merce SEA sia stata in parte o in toto accoppiata a componenti meccanici e/o elettronici non originali, ed in particolare in assenza di una specifica autorizzazione in merito, ed inoltre nel caso in cui l'acquirente non sia in regola con i pagamenti. La garanzia non comprende danni derivati dal trasporto, materiale di consumo, avarie dovute al mancato rispetto delle specifiche prestazionali dei prodotti indicate nel listino. Non è riconosciuto alcun indennizzo durante il tempo di riparazione e/o sostituzione della merce in garanzia. La SEA declina ogni responsabilità per danni a cose o persone derivanti dall'inosservanza delle norme di sicurezza e della non conforme installazione o dall'impiego errato dei prodotti venduti. La riparazione dei prodotti in garanzia e fuori garanzia è subordinata al rispetto delle procedure comunicate da SEA.

9) RISERVATO DOMINIO Sulla merce venduta è valida la clausola del riservato dominio, della quale la SEA deciderà autonomamente se avvalersi o meno, in virtù della quale l'acquirente acquisisce la proprietà della merce, solo dopo che il suo pagamento sia stato completamente effettuato.

10) FORO COMPETENTE Per qualsiasi controversia avente per oggetto l'applicazione di questo contratto, viene eletto competente il Foro di Teramo. La lingua valida nell'interpretazione di cataloghi, manuali di installazione, condizioni di vendita o altro è quella italiana. La SEA si riserva la facoltà di apportare modifiche tecniche atte a migliorare i propri prodotti, presenti o meno in questo Listino, in qualsiasi momento senza preavviso. La SEA declina ogni responsabilità derivante da possibili inesattezze contenute nel presente listino, derivanti da errori di stampa e/o trascrizione. Il presente Listino annulla e sostituisce quelli precedenti. L'acquirente ai sensi della legge 196/2003 (codice privacy) acconsente all'inserimento dei propri dati personali derivanti dal presente contratto negli archivi informatici e cartacei della SEA S.p.A. al loro trattamento per motivi commerciali ed amministrativi.

Diritti di proprietà industriale: il cliente, con l'acquisto, accetta le presenti condizioni di vendita e riconosce in capo a SEA la titolarità esclusiva del marchio internazionale SEA registrato n. 804888 apposto sulle etichette dei prodotti e/o sui manuali e/o su ogni altra documentazione, e si impegna ad utilizzare il medesimo nella propria attività di rivendita e/o installazione secondo modalità che non ne riducano in alcun modo i diritti, a non rimuovere, sostituire o alterare marchi o altri segni distintivi di qualsiasi genere apposti ai prodotti.

E' vietata ogni forma di riproduzione o utilizzo del marchio SEA e di ogni altro segno distintivo presente sui prodotti, salvo autorizzazione scritta di SEA S.p.A..

Agli effetti dell'articolo 1341 del C.C. si approvano specificatamente per iscritto le clausole di cui ai numeri:

4) PAGAMENTI - 8) GARANZIA - 10) FORO COMPETENTE

TERMS OF SALES

EFFICACY OF THE FOLLOWING TERMS OF SALE: the following general terms of sale shall be applied to all orders sent to SEAS.p.A. All sales made by SEA to all costumers are made under the prescription of this terms of sales which are integral part of sale contract and cancel and substitute all apposed clauses or specific negotiations present in order document received from the buyer.

GENERAL NOTICE The systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EM12453 – EM 12445) and with good installation practice releases SEA from any responsibilities. SEA shall not be held responsible for any failure to execute a correct and safe installation under the above mentioned standards.

1) PROPOSED ORDER The proposed order shall be accepted only prior SEA approval of it. By signing the proposed order, the Buyer shall be bound to enter a purchase agreement, according to the specifications stated in the proposed order.

On the other hand, failure to notify the Buyer of said approval must not be construed as automatic acceptance on the part of SEA.

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

3) PRICING The prices in the proposed order are quoted from the Price List which is valid on the date the order was issued. The discounts granted by the branch sales department of SEA shall apply only prior to acceptance on the part of SEA. The prices are for merchandise delivered ex-works from the SEA establishment in Teramo, not including VAT and special packaging. SEA reserves the right to change at any time this price list, providing timely notice to the sales network. The special sales conditions with extra discount on quantity basis (Qx, Qx1, Qx2, Qx3 formula) is reserved to official distributors under SEA management written agreement.

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

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

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

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

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

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

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

PLATINUM: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator. The base warranty (36 months) will be extended for further 24 months (up to a total of 60 months) when it is acquired the certificate of warranty which will be filled in and sent to SEA S.p.A. The electronic devices and the systems of command are guaranteed for 24 months from the date of manufacturing. In case of defective product, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair centre. The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labour activities.

The recognized defects, whatever their nature, shall not produce any responsibility and/or damage claim on the part of the Buyer against SEA. The guarantee is in no case recognized if changes are made to the goods, or in the case of improper use, or in the case of tampering or improper assembly, or if the label affixed by the manufacturer has been removed including the SEA registered trademark No. 804888. Furthermore, the warranty shall not apply if SEA products are partly or completely coupled with non-original mechanical and/or electronic components, and in particular, without a specific relevant authorization, and if the Buyer is not making regular payments. The warranty shall not cover damage caused by transport, expendable material, faults due to non-conformity with performance specifications of the products shown in the price list. No indemnification is granted during repairing and/or replacing of the goods in warranty. SEA disclaims any responsibility for damage to objects and persons deriving from non-compliance with safety standards, installation instructions or use of sold goods. The repair of products under warranty and out of warranty is subject to compliance with the procedures notified by SEA.

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

10) COMPETENT COURT OF LAW In case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo. SEA reserves the faculty to make technical changes to improve its own products, which are not in this price list at any moment and without notice. SEA declines any responsibility due to possible mistakes contained inside the present price list caused by printing and/or copying. The present price list cancels and substitutes the previous ones. The Buyer, according to the law No. 196/2003 (privacy code) consents to put his personal data, deriving from the present contract, in SEA archives and electronic files, and he also gives his consent to their treatment for commercial and administrative purposes.

Industrial ownership rights: once the Buyer has recognized that SEA has the exclusive legal ownership of the registered SEA brand num.804888 affixed on product labels and / or on manuals and / or on any other documentation, he will commit himself to use it in a way which does not reduce the value of these rights, he won't also remove, replace or modify brands or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any particularity on the products, unless preventive and expressed authorization by SEA.

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

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

Italiano AVVERTENZE GENERALI PER INSTALLATORE E UTENTE

1. Leggere attentamente le **Istruzioni di Montaggio** e le **Avvertenze Generali** prima di iniziare l'installazione del prodotto. Conservare la documentazione per consultazioni future
2. Non disperdere nell'ambiente i materiali di imballaggio del prodotto e/o circuiti
3. Questo prodotto è stato progettato e costruito esclusivamente per l'utilizzo indicato in questa documentazione. Qualsiasi altro utilizzo non espressamente indicato potrebbe pregiudicare l'integrità del prodotto e/o rappresentare fonte di pericolo. L'uso improprio è anche causa di cessazione della garanzia. La SEA S.p.A. declina qualsiasi responsabilità derivata dall'uso improprio o diverso da quello per cui l'automatismo è destinato.
4. I prodotti SEA sono conformi alle Direttive: Macchine (2006/42/CE e successive modifiche), Bassa Tensione (2006/95/CE e successive modifiche), Compatibilità Elettromagnetica (2004/108/CE e successive modifiche). L'installazione deve essere effettuata nell'osservanza delle norme EN 12453 e EN 12445.
5. Non installare l'apparecchio in atmosfera esplosiva.
6. SEA S.p.A. non è responsabile dell'inosservanza della Buona Tecnica nella costruzione delle chiusure da motorizzare, nonché delle deformazioni che dovessero verificarsi durante l'uso.
7. Prima di effettuare qualsiasi intervento sull'impianto, togliere l'alimentazione elettrica e scollegare le batterie. Verificare che l'impianto di terra sia realizzato a regola d'arte e collegarvi le parti metalliche della chiusura.
8. Per ogni impianto SEA S.p.A. consiglia l'utilizzo di almeno una segnalazione luminosa nonché di un cartello di segnalazione fissato adeguatamente sulla struttura dell'infisso.
9. SEA S.p.A. declina ogni responsabilità ai fini della sicurezza e del buon funzionamento della automazione, in caso vengano utilizzati componenti di altri produttori.
10. Per la manutenzione utilizzare esclusivamente parti originali SEA.
11. Non eseguire alcuna modifica sui componenti dell'automazione.
12. L'installatore deve fornire tutte le informazioni relative al funzionamento manuale del sistema in caso di emergenza e consegnare all'Utente utilizzatore dell'impianto il libretto d'avvertenze allegato al prodotto.
13. Non permettere ai bambini o persone di sostare nelle vicinanze del prodotto durante il funzionamento. L'applicazione non può essere utilizzata da bambini, da persone con ridotte capacità fisiche, mentali, sensoriali o da persone prive di esperienza o del necessario addestramento. Tenere inoltre fuori dalla portata dei bambini radiocomandi o qualsiasi altro datore di impulso, per evitare che l'automazione possa essere azionata involontariamente.
14. Il transito tra le ante deve avvenire solo a cancello completamente aperto.
15. Tutti gli interventi di manutenzione, riparazione o verifiche periodiche devono essere eseguiti da personale professionalmente qualificato. L'utente deve astenersi da qualsiasi tentativo di riparazione o d'intervento e deve rivolgersi esclusivamente a personale qualificato SEA. L'utente può eseguire solo la manovra manuale.
16. La lunghezza massima dei cavi di alimentazione fra centrale e motori non deve essere superiore a 10 m. Utilizzare cavi con sezione 2.5 mm². Utilizzare cablaggi con cavi in doppio isolamento (cavi con guaina) nelle immediate vicinanze dei morsetti specie per il cavo di alimentazione (230V). Inoltre è necessario mantenere adeguatamente lontani (almeno 2.5 mm in aria) i conduttori in bassa tensione (230V) dai conduttori in bassissima tensione di sicurezza (SELV) oppure utilizzare un'adeguata guaina che fornisca un isolamento supplementare avente uno spessore di almeno 1 mm.

English GENERAL NOTICE FOR THE INSTALLER AND THE USER

1. Read carefully these **Instructions** before beginning to install the product. Store these instructions for future reference
2. Don't waste product packaging materials and /or circuits.
3. This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger. SEA S.p.A. declines all liability caused by improper use or different use in respect to the intended one.
4. The mechanical parts must be comply with Directives: Machine Regulation 2006/42/CE and following adjustments), Low Tension (2006/95/CE), electromagnetic Consistency (2004/108/CE) Installation must be done respecting Directives: EN12453 and EN12445.
5. Do not install the equipment in an explosive atmosphere.
6. SEA S.p.A. is not responsible for failure to observe Good Techniques in the construction of the locking elements to motorize, or for any deformation that may occur during use.
7. Before attempting any job on the system, cut out electrical power and disconnect the batteries. Be sure that the earthing system is perfectly constructed, and connect it metal parts of the lock.
8. Use of the indicator-light is recommended for every system, as well as a warning sign well-fixed to the frame structure.
9. SEA S.p.A. declines all liability as concerns the automated system's security and efficiency, if components used, are not produced by SEA S.p.A..
10. For maintenance, strictly use original parts by SEA.
11. Do not modify in any way the components of the automated system.
12. The installer shall supply all information concerning system's manual functioning in case of emergency, and shall hand over to the user the warnings handbook supplied with the product.
13. Do not allow children or adults to stay near the product while it is operating. The application cannot be used by children, by people with reduced physical, mental or sensorial capacity, or by people without experience or necessary training. Keep remote controls or other pulse generators away from children, to prevent involuntary activation of the system.
14. Transit through the leaves is allowed only when the gate is fully open.
15. The User must not attempt to repair or to take direct action on the system and must solely contact qualified SEA personnel or SEA service centers. User can apply only the manual function of emergency.
16. The power cables maximum length between the central engine and motors should not be greater than 10 m. Use cables with 2,5 mm² section. Use double insulation cable (cable sheath) to the immediate vicinity of the terminals, in particular for the 230V cable. Keep an adequate distance (at least 2.5 mm in air), between the conductors in low voltage (230V) and the conductors in low voltage safety (SELV) or use an appropriate sheath that provides extra insulation having a thickness of 1 mm.

Français CONSIGNES POUR L'INSTALLATEUR ET L'UTILISATEUR

1. Lire attentivement les **instructions** avant d'installer le produit. Conserver les instructions en cas de besoin.
2. Ne pas disperser dans l'environnement le matériel d'emballage du produit et/ou des circuits.
3. Ce produit a été conçu et construit exclusivement pour l'usage indiqué dans cette documentation. Toute autre utilisation non expressément indiquée pourrait compromettre l'intégrité du produit et / ou être une source de danger. L'utilisation inappropriée est également cause d'annulation de la garantie. SEA S.p.A. N'assume aucune responsabilité pour une utilisation inappropriée ou une utilisation autre que celle pour laquelle l'automatisme est destiné.
4. Les composants doivent répondre aux prescriptions des Normes: Machines (2006/42/CE et successifs changements); Basse Tension (2006/95/CE et successifs changements); EMC (2004/108/CE et successifs changements). L'installation doit être effectuée conformément aux Normes EN 12453 et EN 12445.
5. Ne pas installer l'appareil dans une atmosphère explosive.
6. SEA S.p.A. n'est pas responsable du non-respect de la Bonne Technique de construction des fermetures à motoriser, ni des déformations qui pourraient intervenir lors de l'utilisation.
7. Couper l'alimentation électrique et déconnecter la batterie avant toute intervention sur l'installation. Vérifier que la mise à terre est réalisée selon les règles de l'art et y connecter les pièces métalliques de la fermeture.
8. On recommande que toute installation soit dotée au moins d'une signalisation lumineuse, d'un panneau de signalisation fixé, de manière appropriée, sur la structure de la fermeture.
9. SEA S.p.A. décline toute responsabilité quant à la sécurité et au bon fonctionnement de l'automatisme si les composants utilisés dans l'installation n'appartiennent pas à la production SEA.

10. Utiliser exclusivement, pour l'entretien, des pièces SEA originales.
11. Ne jamais modifier les composants d'automatisme.
12. L'installateur doit fournir toutes les informations relatives au fonctionnement manuel du système en cas d'urgence et remettre à l'Usager qui utilise l'installation les "Instructions pour l'Usager" fournies avec le produit.
13. Interdire aux enfants ou aux tiers de stationner près du produit durant le fonctionnement. Ne pas permettre aux enfants, aux personnes ayant des capacités physiques, mentales et sensorielles limitées ou dépourvues de l'expérience ou de la formation nécessaires d'utiliser l'application en question. Eloigner de la portée des enfants les radiocommandes ou tout autre générateur d'impulsions, pour éviter tout actionnement involontaire de l'automatisme.
14. Le transit entre les vantaux ne doit avoir lieu que lorsque le portail est complètement ouvert.
15. L'utilisateur doit s'abstenir de toute tentative de réparation ou d'intervention et doit s'adresser uniquement et exclusivement au personnel qualifié SEA ou aux centres d'assistance SEA. L'utilisateur doit garder la documentation de la réparation. L'utilisateur peut exécuter seulement la manoeuvre manuel.
16. La longueur maximum des câbles d'alimentation entre la carte et les moteurs ne devrait pas être supérieure à 10 m. Utilisez des câbles avec une section de 2,5 mm². Utilisez des câblage avec câble à double isolation (avec gaine) jusqu'à proximité immédiate des terminaux, en particulier pour le câble d'alimentation (230V). Il est également nécessaire de maintenir une distance suffisante (au moins 2,5 mm dans l'air), entre les conducteurs en basse tension (230V) et les conducteurs de très basse tension de sécurité (SELV) ou utiliser une gaine ayant une épaisseur d'au moins 1 mm, qui fournisse une isolation supplémentaire.

Español ADVERTENCIAS GENERALES PARA INSTALADORES Y USUARIOS

- 1 Leer las **instrucciones de instalación** antes de comenzar la instalación. Mantenga las instrucciones para consultas futura
2. No desperdiciar en el ambiente los materiales de embalaje del producto o del circuito
3. Este producto fue diseñado y construido exclusivamente para el uso especificado en esta documentación. Cualquier otro uso no expresamente indicado puede afectar la integridad del producto y ser una fuente de peligro. El uso inadecuado es también causa de anulación de la garantía. SEA S.p.A. se exime de toda responsabilidad causadas por uso inapropiado o diferente de aquel para el que el sistema automatizado fue producido.
4. Los productos cumplen con la Directiva: Maquinas (2006/42/CE y siguientes modificaciones), Baja Tension (2006/95/CE, y siguientes modificaciones), Compatibilidad Electromagnética (2004/108/CE modificada). La instalación debe ser llevada a cabo de conformidad a las normas EN 12453 y EN 12445.
5. No instalar el dispositivo en una atmósfera explosiva.
6. SEAS.p.A. no es responsable del incumplimiento de la mano de obra en la construcción de la cancela a automatizar y tampoco de las deformaciones que puedan producirse durante el uso.
7. Antes de realizar cualquier operación apagar la fuente de alimentación y desconectar las baterías. Comprobar que el sistema de puesta a tierra sea diseñado de una manera profesional y conectar las partes metálicas del cierre.
8. Para cada instalación se recomienda utilizar como mínimo una luz parpadeante y una señal de alarma conectada a la estructura del marco.
9. SEAS.p.A. no acepta responsabilidad por la seguridad y el buen funcionamiento de la automatización en caso de utilización de componentes no producidos por SEA.
10. Para el mantenimiento utilizar únicamente piezas originales SEAS.p.A..
11. No modificar los componentes del sistema automatizado.
12. El instalador debe proporcionar toda la información relativa al funcionamiento manual del sistema en caso de emergencia y darle al usuario el folleto de adjunto al producto.
13. No permita que niños o adultos permanecen cerca del producto durante la la operación. La aplicación no puede ser utilizada por niños, personas con movilidad reducida de tipo físico, mental, sensorial o igual por personas sin experiencia o formación necesaria. Tener los radiomandos fuera del alcance de niños así como cualquier otro generador de impulsos radio para evitar que el automación pueda ser accionada accidentalmente.
14. El tránsito a través de las hojas sólo se permite cuando la puerta está completamente abierta.
15. Todo el mantenimiento, reparación o controles deberán ser realizados por personal cualificado. Evitar cualquier intento a reparar o ajustar. En caso de necesidad comunicarse con un personal SEA calificado. Sólo se puede realizar la operación manual.
16. La longitud máxima de los cables de alimentación entre motor y central no debe ser superior a 10 metros. Utilizar cables con 2,5 mm². Utilizar cables con doble aislamiento (cables con vaina) hasta muy cerca de los bornes, especialmente por el cable de alimentación (230V). Además es necesario mantener adecuadamente distanciados (por lo menos 2,5 mm en aire) los conductores de baja tensión (230V) y los conductores de baja tensión de seguridad (SELV) o utilizar una vaina adecuada que proporcione aislamiento adicional con un espesor mínimo de 1 mm.



Dichiarazione di conformità
Declaration of Conformity

La SEA S.p.A. dichiara sotto la propria responsabilità e, se applicabile, del suo rappresentante autorizzato che i prodotti:

SEA S.p.A. declares under its proper responsibility and, if applicable, under the responsibility of its authorised representative that the products:

Descrizione / Description

USER 2 DG 24V ALL IN

Modello / Model

23024040/45/48

Marca / Trademark

SEA

sono conformi ai requisiti essenziali di sicurezza relativi ai prodotti entro il campo di applicabilità delle seguenti Direttive Comunitarie:

Are conforming to the essential safety requirements related to the product within the field of applicability of the following Community Directives:

- Direttiva 2006/42/CE Direttiva macchine (allegato I)
Directive 2006/42/CE Machinery Directive (annex I)

- Direttiva 2004/108/CE Direttiva compatibilità elettromagnetica
Directive 2004/108/CE Electromagnetic compatibility

- CEI EN55014-1 Emissioni condotte e radiate
IEC EN55014-1 Conducted and radiated emissions
- CEI EN55014-2 Prove di immunità
IEC EN55014-2 Magnetic field immunity

- Direttiva 2006/95/CE - Direttiva Bassa Tensione
Directive 2006/95/CE - Low voltage Directive

- CEI EN60335-1:2008 Sicurezza degli apparecchi elettrici d'uso domestico e similare (Requisiti Generali).
IEC EN60335-1:2008 Household and similar electrical appliances - Safety - Part one: general requirements.

COSTRUTTORE o RAPPRESENTANTE AUTORIZZATO:
MANUFACTURER or AUTHORISED REPRESENTATIVE:

SEA S.p.A.

DIREZIONE E STABILIMENTO:

Zona industriale 64020 S.ATTO Teramo - (ITALY)

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[Http://www.seateam.com](http://www.seateam.com)

(Luogo, data di emissione)
(Place, date of issue)
Teramo, 9/02/2015

L'Amministratore
The Administrator
Ennio Di Saverio



SEA®

electronic opening system

Questo articolo è stato prodotto seguendo rigide procedure di lavorazione ed è stato testato singolarmente al fine di garantire i più alti livelli qualitativi e la vostra soddisfazione. Vi ringraziamo per aver scelto SEA.

This article was produced following strict processing procedures and has been tested individually in order to ensure the highest levels of quality and your satisfaction. We thank you for choosing SEA.

Cet article a été produit suivant les procédures d'usage strictes et a été testé individuellement afin de garantir les plus hauts niveaux de qualité et de votre satisfaction. Nous vous remercions d'avoir choisi SEA.

Este artículo ha sido producido siguiendo rigidos procedimientos de elaboracion y ha sido probando singolarmente a fin de garantizar los mas altos niveles de calidad y vuestra satisfaccion. Le agradecemos por haber escogido SEA.



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



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