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SWING 2 DG R2BF

CONTROL UNIT TO MANAGE ONE or TWO OPERATORS (230V/110V)

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MENU TABLE

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PRELIMINARY

• <u>The</u> SWING 2 DG <u>control unit requires the programming of the working times</u> (chapter 15); it is not possible to start the operator correctly without first programming the control unit!

• The unit and the accessories programming and settings can be carried out by the display on board or by the **JOLLY 3** programmer or **SEACLOUD**



JOLLY 3



SEACLOUD

• Functions and menus here described are valid only for the below listed software revisions; if some functions or menus do not correspond to your control unit, consult the previous manuals

MODEL SOFTWARE REVISION

MAIN DIFFERENCES BETWEEN THE TWO VERSIONS

 SWING 2 DG R2F
 03.05

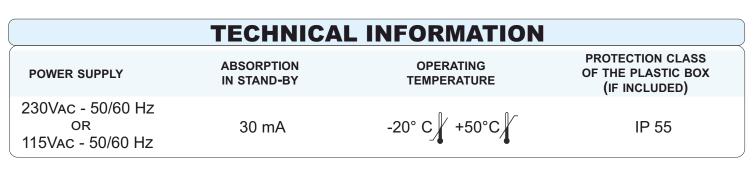
 SWING 2 DG R2BF
 00.03

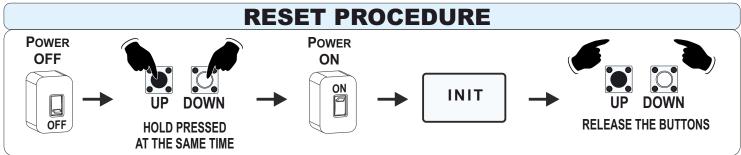
BALANCED 8K2 SAFETY EDGES MANAGEMENT ONLY ALSO MANAGEMENT OF TWO 10K PHOTOCELLS. - ALSO MANAGEMENT

MANAGEMENT OF NORMAL N.C. PHOTOCELLS ONLY. - STANDARD N.C. OR

of a 8K2 pure resistive safety edge

All wirings (circuits and accessories) must be made when the **control unit is OFF and not powered**; only after completing all wirings the control unit can be switched on and programmed





QUICK START
Make all connections (control unit OFF!): motors, accessories and power cables
• DO NOT jumper the N.C. contacts! - automatic detection of the N.C. contacts not in use!
Power on the control unit and check the correct status of the inputs (chapter 14)
 Enter the basic menu and set the following menus: (if you do not set a time on menu 7, the logic will be «semi-automatic» - automatic reclosing disabled) Inter the basic menu and set the following menus: (Inter the basic menu and set the following menu and
 Move the operator using the menus Move GATE 1 or Move GATE 2 ; if the gate opens by pressing UP and
if the gate closes by pressing 💭 , the motors run correctly, otherwise swap the motors cables
 If installed, enable the encoder or the potentiometer on menu 32 - paragraph 15.2 32 ENCODER
• Start up the working times learning by following the procedure in <i>chapter 15</i>



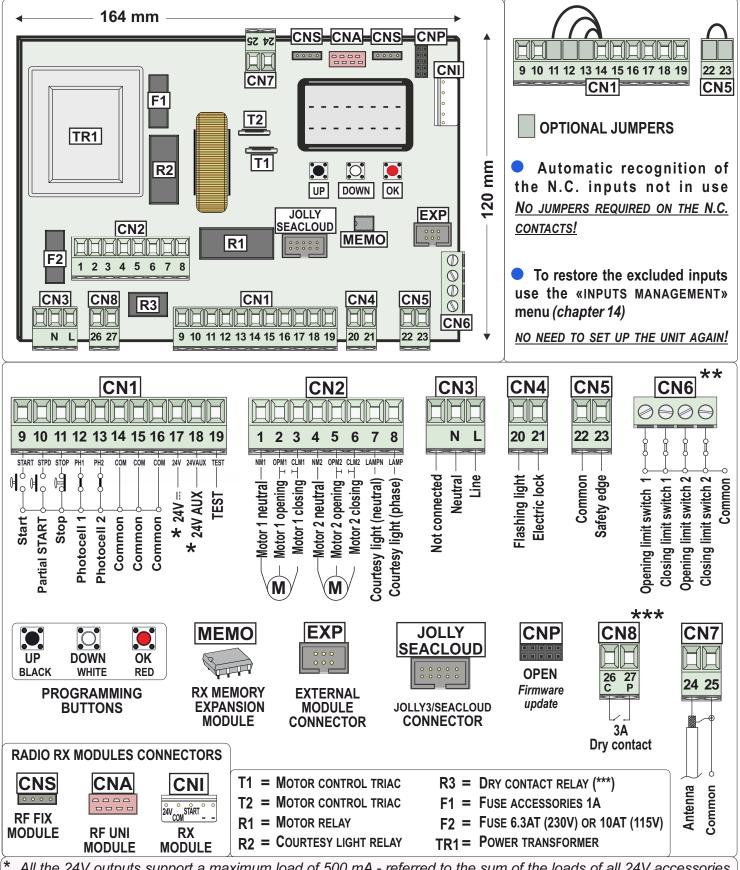


1 - WIRINGS

Make all the wi

Make all the wirings when the control unit is not powered!

Keep the power cables separate from the command cables - always run cables in separate sheaths to prevent interferences!



* All the 24V outputs support a maximum load of 500 mA - referred to the sum of the loads of all 24V accessories connected, including the absorption of the receiver on board (30 mA

** The special CN6 connector is build only on the model SWING 2 DG R2F «FC» with limit switch management *** The dry contact CN8 connector supports a maximum load of 3A and 250V; it is available only on the R2 DRY CONTACT hardware version with additional relay



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2 - CONNECTIONS ON CN1

2.1 - START (N.O.)

• Connect the **«START»** command on clamps 9 and 14 (15/16)

Logics to be linked to the «START» command in chapter 16

➡ If the input is engaged during the pause time, the gate does not close until the input is released

2.2 - PARTIAL START (N.O.)

- Connect the **«PARTIAL START»** on clamps 10 and 14 (15/16)
- Logics to be linked to the «START» command in chapter 16
- Partial opening space management:



CN1

Partial opening pause time management:

➡ If the input is engaged during the pause time, the gate does not close until the input is released

If a TRAFFIC LIGHT is wired via SEM 2 unit, it is possible to enable the entry or exit priority linked to the «START» or «PARTIAL START» commands, via menu 89
If a TRAFFIC LIGHT is wired via SEM 2 unit, it is possible to Interval 10 to the Reservation

2.3 - TIMER (N.O.) - EXTERNAL CLOCK

Connect the timer to the clamp 10 «PARTIAL START» or to the clamp 13 «PHOTOCELL 2»

- If wired to the «PARTIAL START», this command will be disabled (on transmitters too)
- The timer opens and keeps the gate open until engaged; when released, the gate closes only after the pre-set pause time has elapsed
- In the event of a safety accessory intervention, the timer automatically resets after 6 sec.

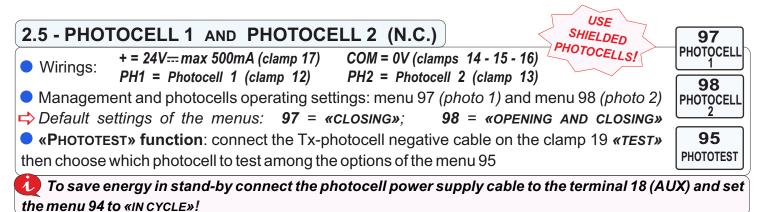
 \Rightarrow In the event of a power failure when the gate is open:

if the TIMER is still active when the power is restored, the gate remains open; if the TIMER is no longer active, a **«START»** input will be required to close the gate

2.4 - STOP (N.C.)

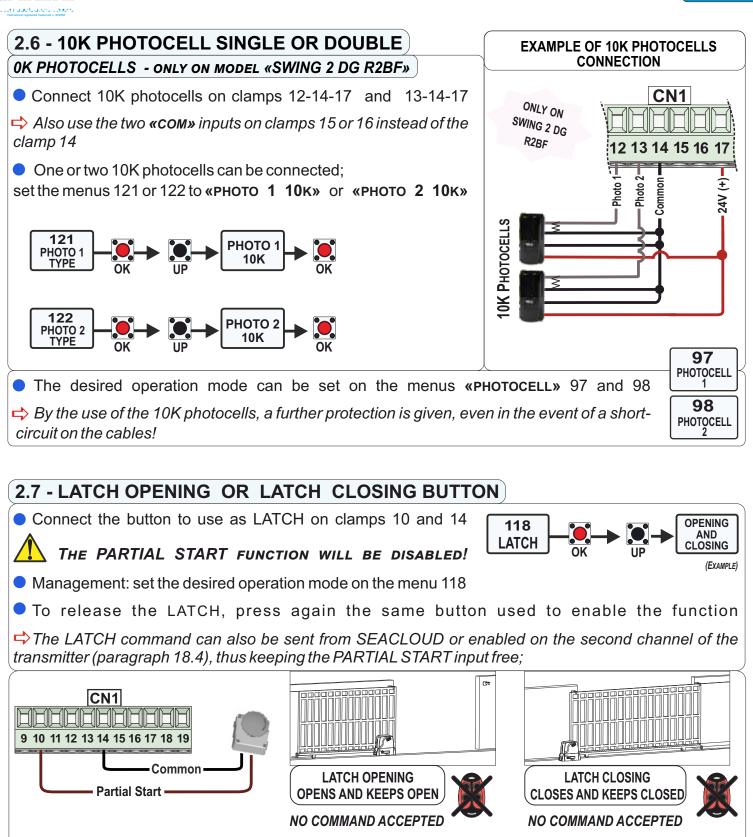
• Connect the button for the **«STOP»** command on the clamps 11 and 14 (or 15 or 16)

• After the **«STOP»** command, press **«START»** to restore the movement (the operator always starts-up in closing after the **«STOP»** command!)





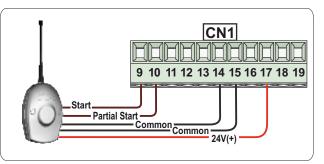




2.8 - EXTERNAL RECEIVER

• An external receiver can be connected according to the connection diagram on the side.

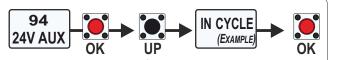
 For the operation of the receiver, refer to its instruction manual





2.9 - 24V - DC AUX OUTPUT OPTIONS - CLAMP 18 - MAX 500mA

 Management: on menu 94 choose how to have voltage on the AUX output, according to the type of accessory you have wired



ENGLISH

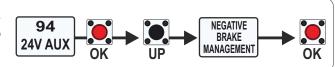


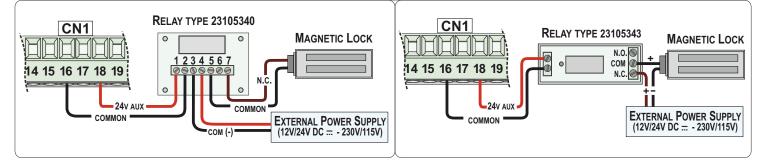
CONNECT THE ACCESSORY ONLY AFTER SETTING THE MENU 94 ON THE DESIRED OPTION!

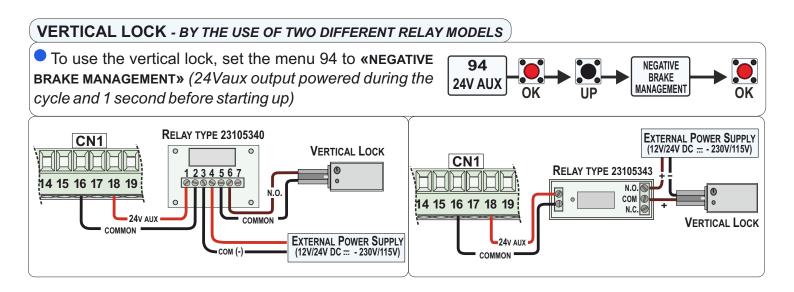
• A RELAY CAN BE CONNECTED TO THE 24VAUX OUTPUT; the relay allows the connection and the management of additional accessories (*locks etc.*); some examples below, including the menu 94 settings

MAGNETIC LOCK - BY THE USE OF TWO DIFFERENT RELAY MODELS

• To use the magnetic lock, set the menu 94 to **«NEGATIVE BRAKE MANAGEMENT»** (24Vaux output powered during the cycle and 1 second before starting up)

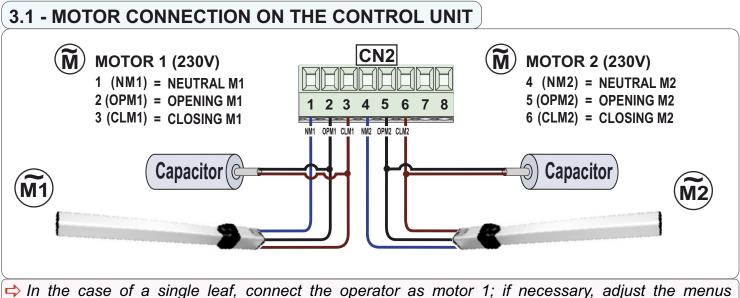




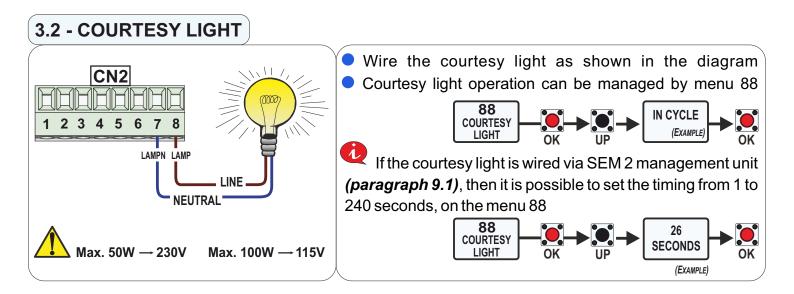




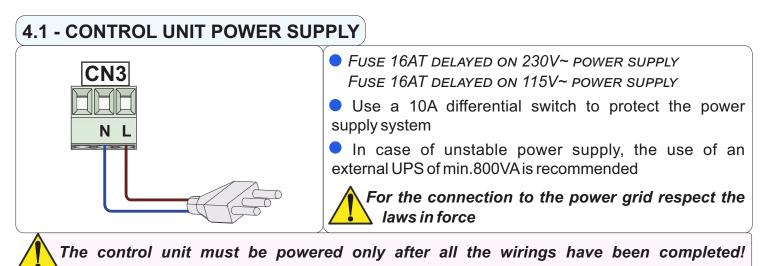
3- CONNECTION ON CN2



parameters for M1 only

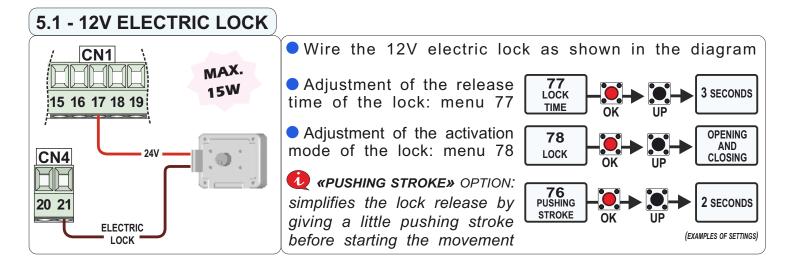


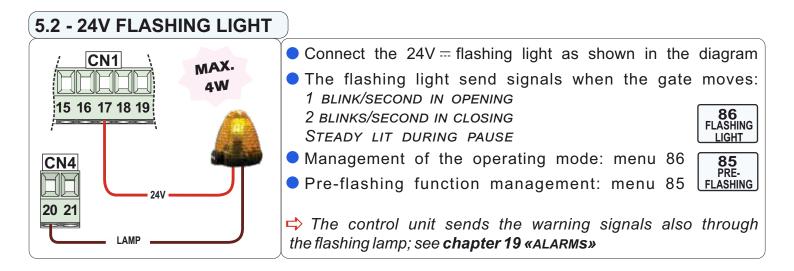
4 - POWER SUPPLY CONNECTION ON CN3

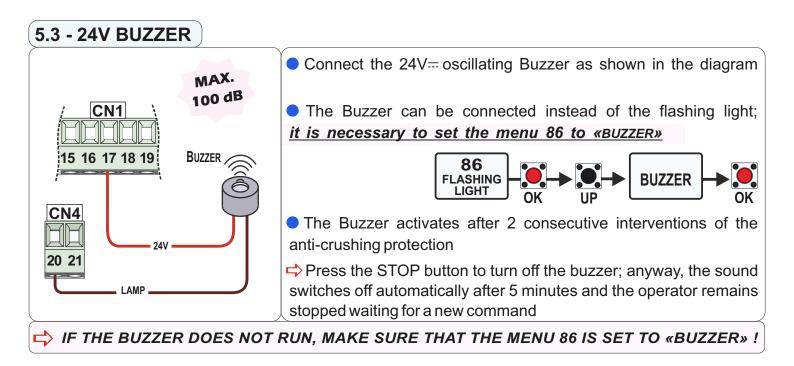




5 - CONNECTION ON CN4

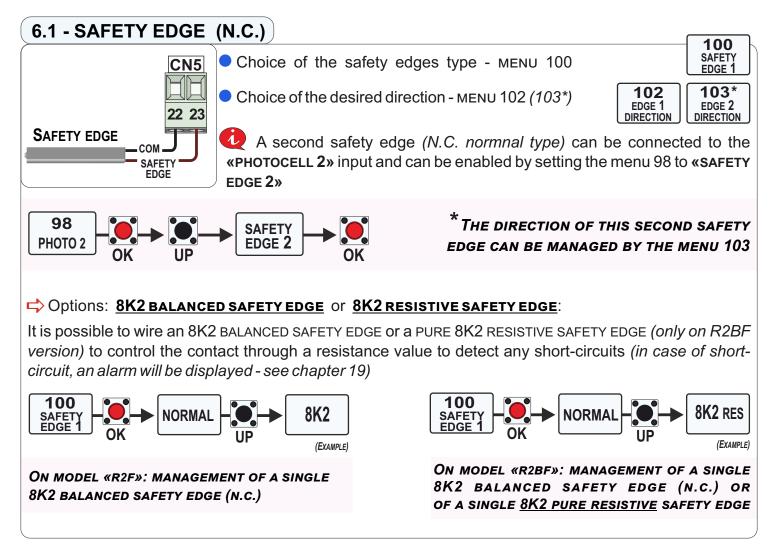




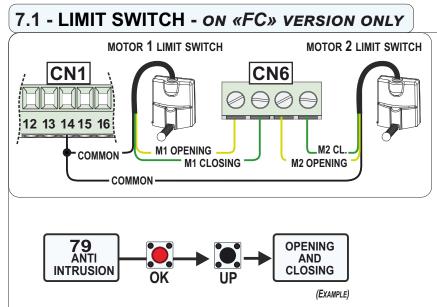




6 - CONNECTION ON CN5



7 - CONNECTION ON CN6



 Wire the opening and closing limit switches of the first and the second operator as shown in the diagram

➡ The type of limit switch is automatically detected during the working times learning

ANTI-INTRUSION FUNCTION:

This function is linked to the limit switch activation; if enabled via the menu 79, this function restores the original position of the gate after a manual forcing or a blast of wind





8 - CONNECTION ON CN7 and CN8

8.1 - ANTENNA

• Connect the antenna on the CN7 terminal according to the wiring diagram

8.2 - DRY CONTACT RELAY

Dry contact relay available only on hardware version «R2 DRY contact» with additional relay

• CN8 - dry contact relay: max. 3A and 250V

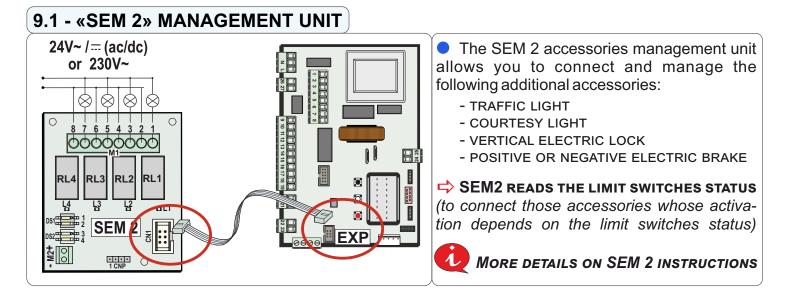
 The relay is for general use, for example it is possible to connect a timer to turn on a light

• Default operation in **«START 3S»** mode: the relay automatically activates at each **«START»** or **«PARTIAL START»** impulse for 3 seconds or at each photocell intervention

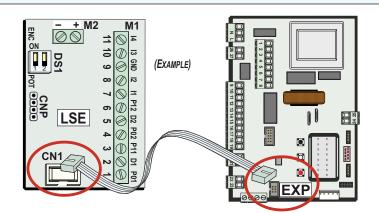
• On **«R2BF»** model it is possible to disable the **«START 3s»** operation by the menu 132 and

choose to activate the relay manually, via remote control (by storing the relay activation function on a TX key - see paragraph 18.4)

9 - CONNECTION ON EXP

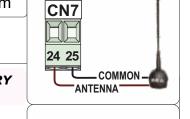


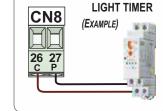
9.2 - «LSE» or «LE» or «LRT» MANAGEMENT UNITS



• The LSE (or LE) or LRT management circuits allow you to connect and manage different additional accessories, such as additional limit-switches, the temperature probe, the **POTENTIOMETER** or the **RT ENCODER**

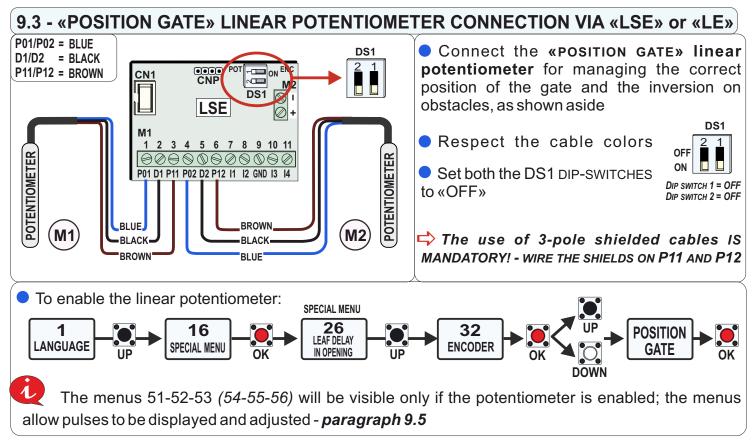


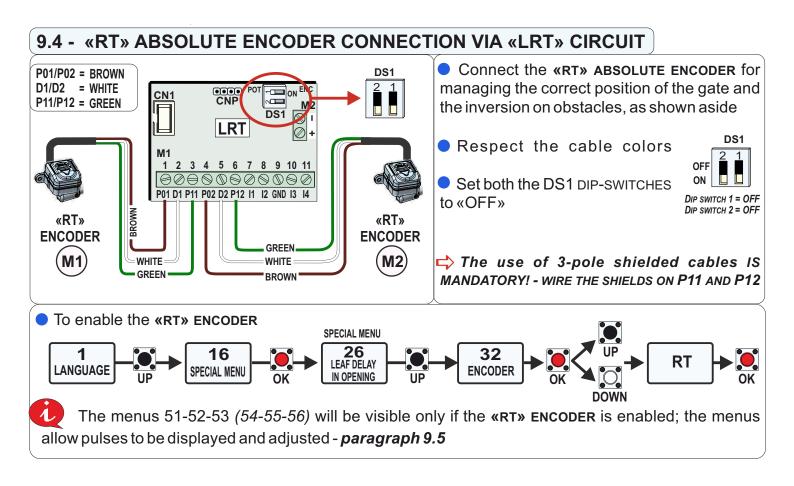




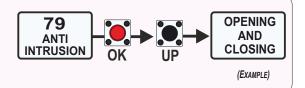








The ANTI-INTRUSION FUNCTION is also available; It is linked to the potentiometer or the «RT» encoder activation; If enabled via menu 79, this function restores the original position of the gate after a manual forcing or a blast of wind





XX



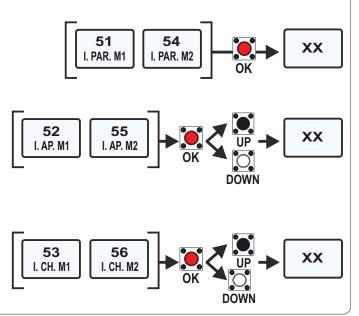
9.5 - LINEAR POTENTIOMETER or «RT» ABSOLUTE ENCODER CONFIGURATION

➡ The menus 51-52-53-54-55-56 are visible only when the menu 32 is set to «POSITION GATE» or ENCODER «RT»

Motor 1 (menu 51) or motor 2 (menu 54) partial impulses: display of the operator current position

Motor 1 (menu 52) or motor 2 (menu 55) **impulses in opening**; display of the impulses when the leaf is completely open; possibility to increase or decrease the total pulses

Motor 1 (menu 53) or motor 2 (menu 56) impulses in closing; display of the impulses when the leaf is completely closed; possibility to increase or decrease the total pulses



9.6 - POTENTIOMETER or «RT» ENCODER PARAMETERS ADJUSTMENT

M1 OPENING

SENSITIVITY

Sensitivity parameters in opening and closing (Motor 1 and Motor 2) for potentiometer intervention time adjustment 33 34 35 36

M1 CLOSING

SENSITIVIT)

M2 OPENING

SENSITIVITY

For a quick reverse on obstacle decrease the sensitivity

Set to OFF (intervention excluded): merely detection of the impulses (does not reverse on obstacle)

Slowdown sensitivity menu to adjust the inversion time during the slow down

> For a quick reverse on obstacle decrease the sensitivity



DOWN

To adjust the Encoder intervention threshold values in opening and closing (Motor 1 and Motor 2)

➡ The lower the threshold, the greater the force required for the inversion



M2 CLOSING

SENSITIVITY

37

To adjust the threshold values for the Encoder intervention during the slow down, in opening and closing (Motor 1 and Motor 2)

 \Box The lower the threshold. the greater the force required for the inversion



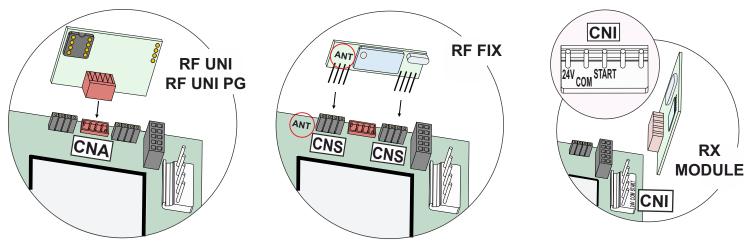
9.7 - ACCESS TO THE HIDDEN «DEBUG» MENU

Display of the instantaneous speed values detected **«VP1»** and **«VP2»** (motor 1 and motor 2) see chap. 12 to adjust the thresholds above described (thresholds must always be lower than the values 03.05 shown in VP1 or VP2)

XXX



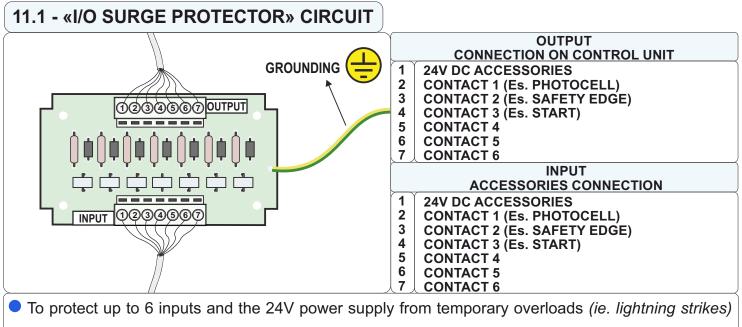
10 - RECEIVER CONNECTIONS



Respect the plug-in direction of the different circuits; RF FIX: the «ANT» contacts printed on the receiver circuit and control unit circuit must match RX module: the «24V» «COM» and «START» contacts on the receiver and control unit must match

SEA PLUG-IN RECEIVERS	MAX. USERS NUMBER
RF UNI	16 USERS WITHOUT ADDITIONAL MEMORY
	800 USERS WITH MEMO ADDITIONAL MEMORY
	100 USERS IF PROGRAMMED IN FIX CODE
RF UNI PG (OLD MODEL - NON EXTRACTABLE MEMORY)	800 USERS IF PROGRAMMED IN ROLLING CODE PLUS
	496 USERS IF PROGRAMMED IN FIX CODE
RF UNI PG (New Model - extractable memory)	800 USERS IF PROGRAMMED IN ROLLING CODE PLUS
RF FIX	16 USERS WITHOUT ADDITIONAL MEMORY
	100 USERS WITH MEMO ADDITIONAL MEMORY

11 - ADDITIONAL FUNCTIONS



• Connect the 24VDC cable and the accessories cables on INPUT; connect the corresponding cables from OUTPUT to the control unit



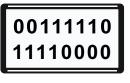


12 - DISPLAY and PROGRAMMING

CONNECT ALL THE ACCESSORIES WHEN THE CONTROL UNIT IS SWITCHED OFF! AFTER ALL CONNECTIONS HAVE BEEN MADE, POWER ON THE UNIT FOR SETTINGS

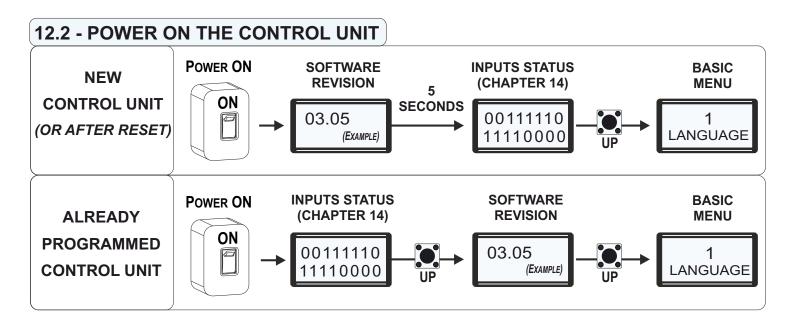
12.1 - DISPLAY DETAILS - ref. chapter 14 STANDARD DISPLAY

Menu ^{SEA} set ______ In standard display the inputs are represented by **OFF** or **ON** dashes depending on whether the corresponding contact respectively is **OPEN** or **CLOSED** DISPLAY «BINGO» OPTIONAL ONLY FOR «R2BF»



In the new **BINGO** display the inputs are represented by **«0»** and **«1»** symbols depending on whether the corresponding contact is **OPEN** (0) or **CLOSED** (1)

 \Rightarrow All other screens and views are identical in the two displays

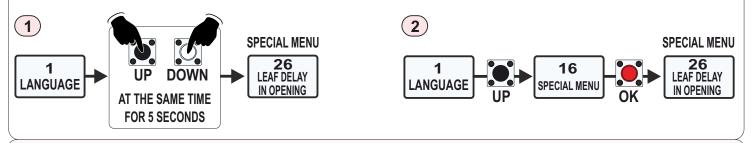


12.3 - BASIC MENU and SPECIAL MENU

• The control unit has a **BASIC MENU** (*chapter 13*) which allows the basic settings in order to start using the product quickly

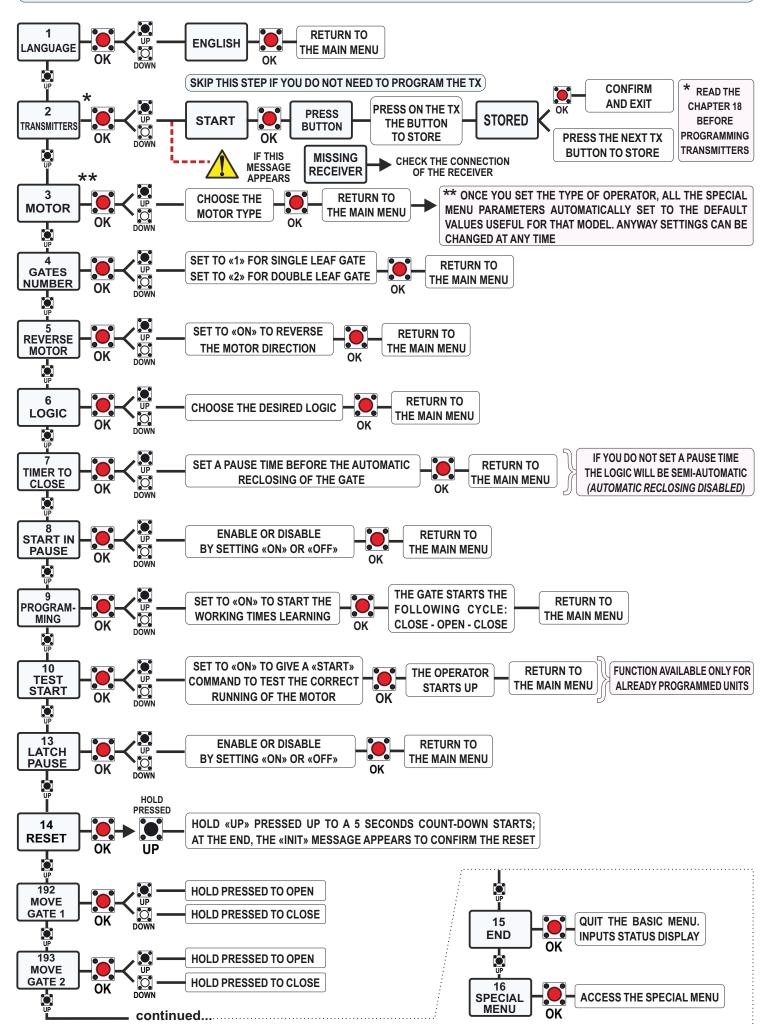
• The **SPECIAL MENU** allows to change default settings, or to enable/disable the accessories or the control unit functions

To access the SPECIAL MENU use one of the two following methods



In the **BASIC MENU** it is possible to **select the operator type** in use and other necessary options. Once the type has been chosen, all the special menus are automatically set to the default values useful for that operator, so further settings may not be necessary

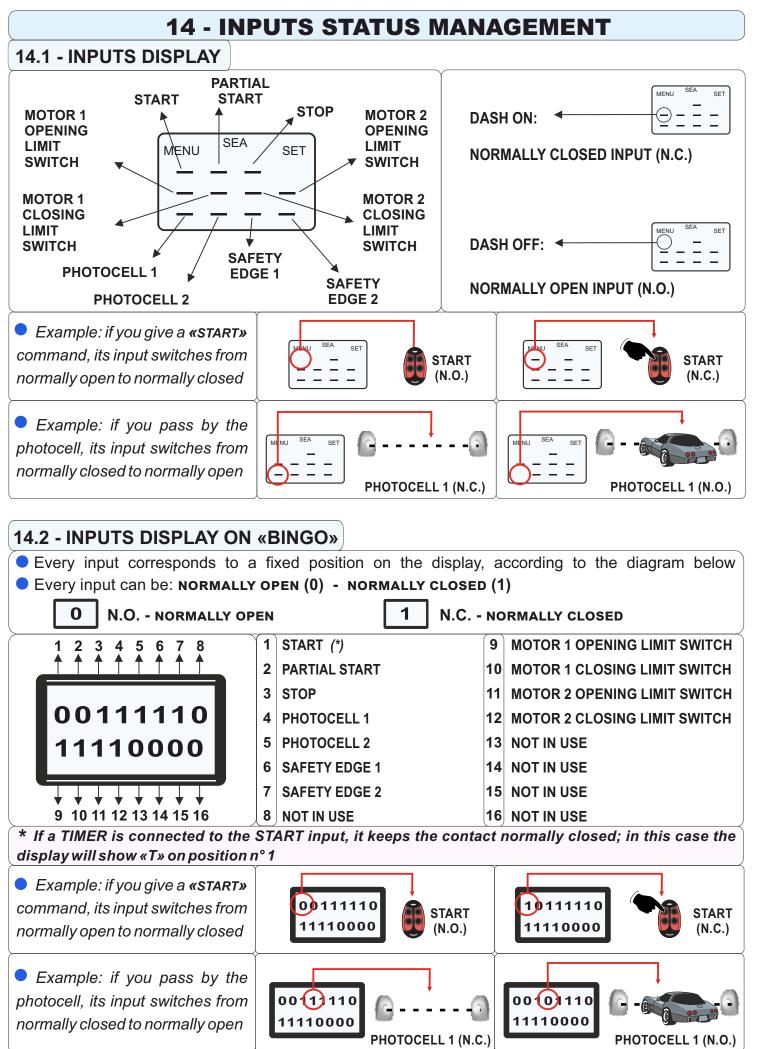




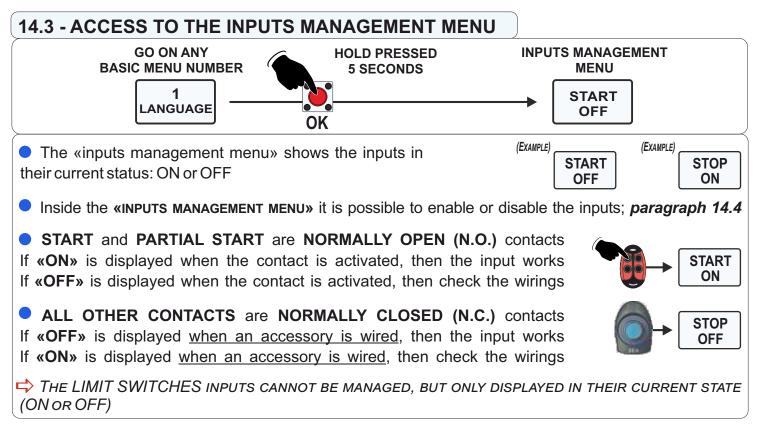
13 - BASIC MENU



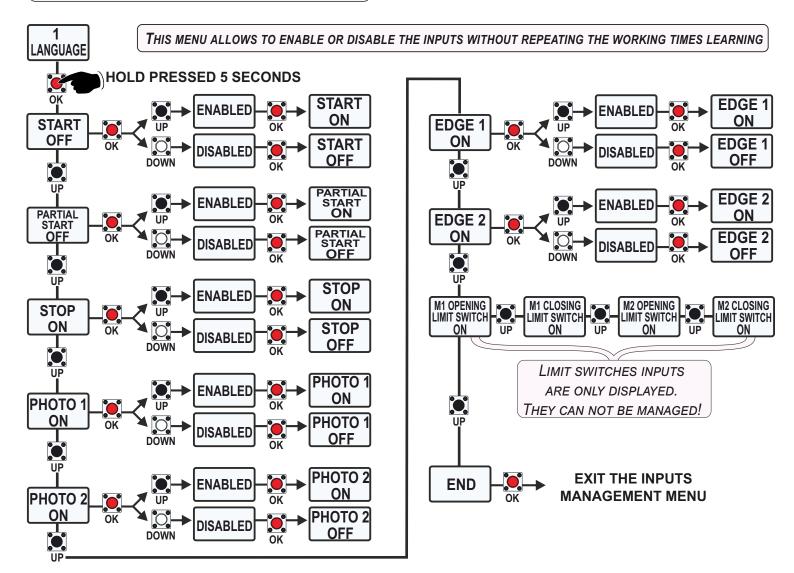








14.4 - INPUTS MANAGEMENT MENU





15 - WORKING TIMES LEARNING

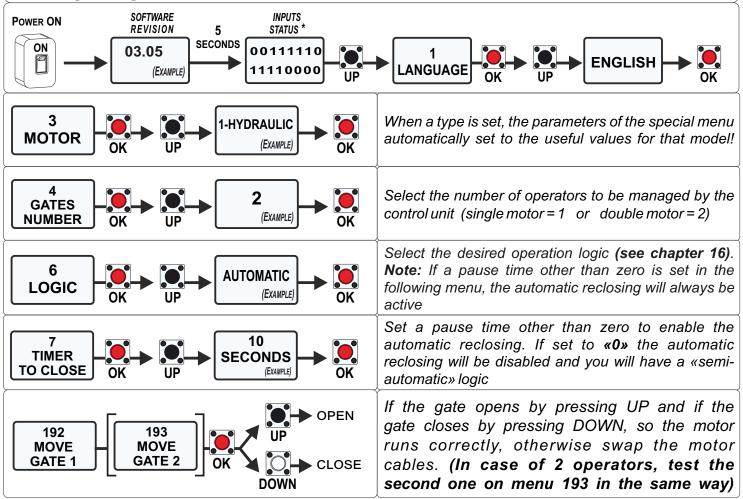
DANGER!

HAVE A QUALIFIED SERVICE PERSON TO CARRY OUT THE OPERATIONS IN SAFE CONDITIONS

- ➡ Check the correct operation of all accessories (photocells, buttons, etc.)
- ⇒ Do not jumper the inputs not in use (limit switch, safety edge, etc.)

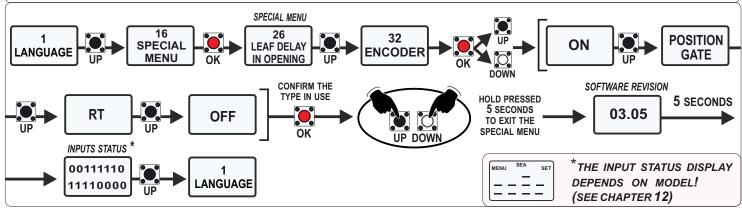
15.1 - PRELIMINARY SETTINGS

Before programming the working times, it is necessary to carry out the essential settings of the basic menu. It is not possible to correctly start-up the times learning without carrying-on the following settings!



15.2 - ENCODER OR POTENTIOMETER ACTIVATION (IF INSTALLED)

• If the operator is equipped with an encoder or potentiometer (*POSITION GATE*), then it is necessary to check that they are correctly enabled in special menu 32, *before the working times learning!*



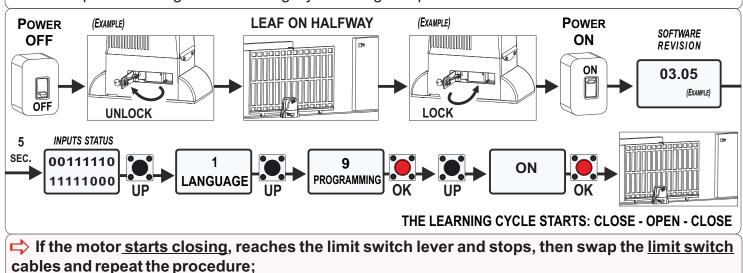


15.3- WORKING TIMES LEARNING BY LIMIT SWITCH

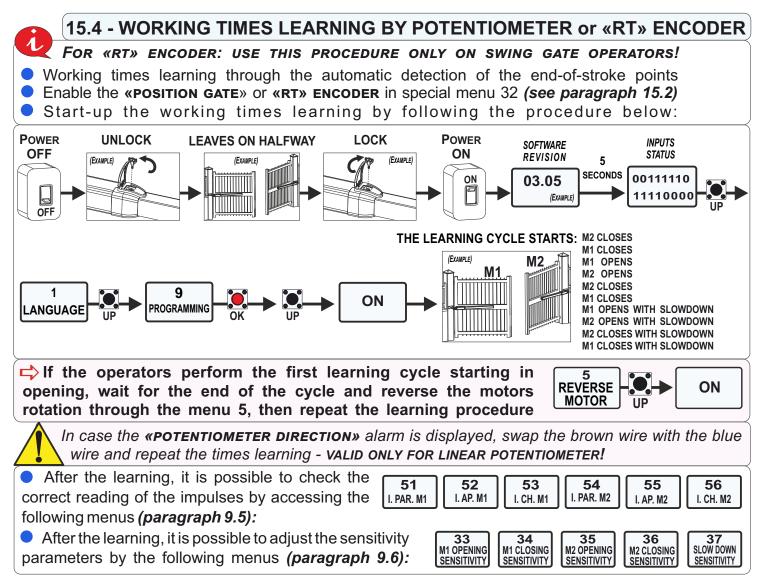
- Working times learning through automatic detection of the limit switches
- Check that the special menu 32 is **«OFF»** (see paragraph 15.2)
- Check on the **INPUTS STATUS MENU** (*chapter 14*) that the correct limit switch is engaged for each movement direction

ENGLISH

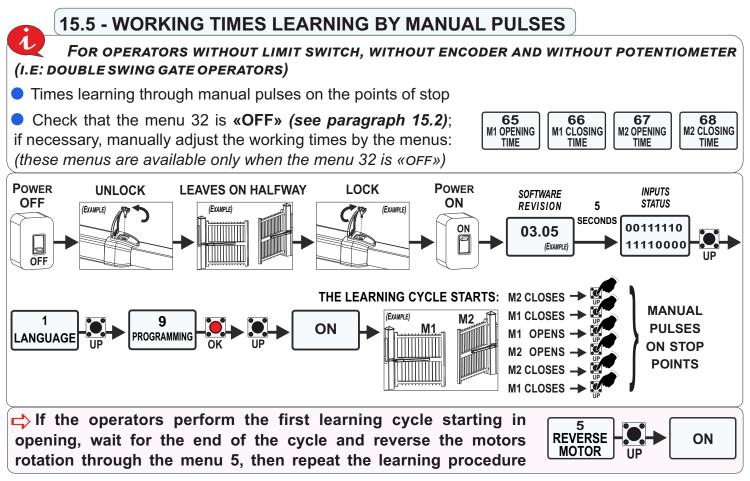
Start-up the working times learning by following the procedure below:



➡ If the motor starts opening, reaches the limit switch lever and stops, then swap the motor cables and repeat the procedure;





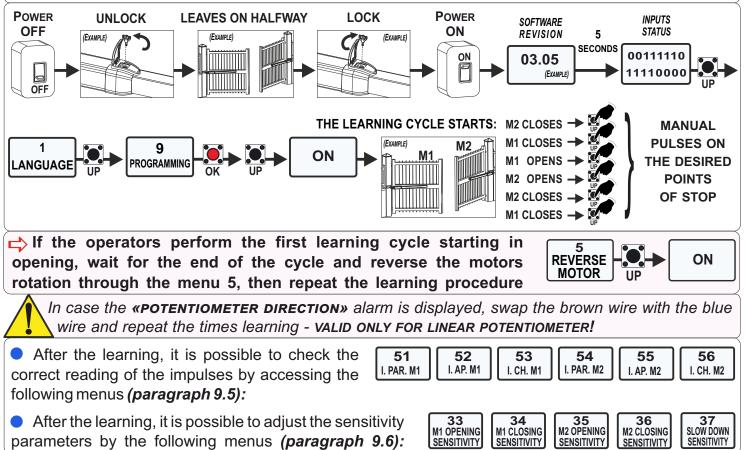


ENGLISH

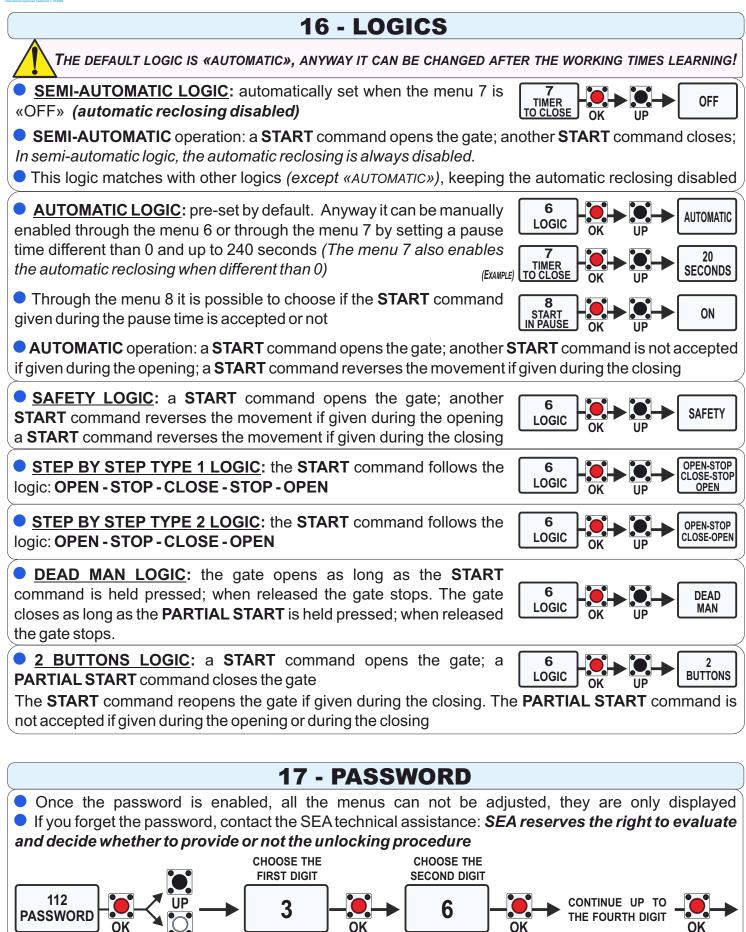
15.6 - LEARNING BY MANUAL PULSES - with POTENTIOMETER or «RT» ENCODER

• Times learning through POTENTIOMETER or «RT» ENCODER which detect the manual pulses on the **desired** points of stop (allowing the choice of the end-of-stroke points)

• Enable the POTENTIOMETER OR «RT» ENCODER on menu 32 (paragraph 15.2)







ENGLISH

PASSWORD

ENABLED

REPEAT THE

PROCEDURE

(EXAMPLE)

THE PASSWORD «0000» IS NOT

ALLOWED (THE DISPLAY WILL SHOW

AN ERROR MESSAGE!)

(EXAMPLE)

DOWN

UP

SURE?

OK

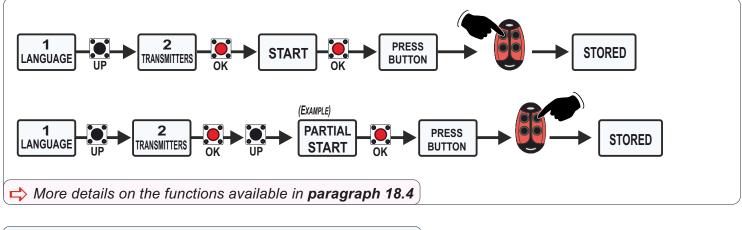
CANCELED



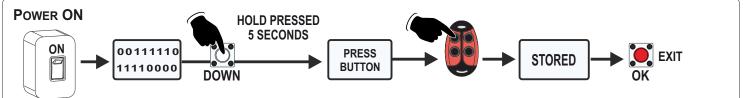
18 - RECEIVERS AND TRANSMITTERS

CONNECT THE RECEIVER CIRCUIT WHEN THE CONTROL UNIT IS NOT POWERED, AS SHOWN IN CHAPTER 10 When the control unit is switched-off, check if the receiver is correctly plugged in Program the transmitters <u>before connecting the antenna</u> Program the transmitters only when the gate is closed and the motor is stopped RF UNI and RF UNI PG allow the use of both roll plus/UNI TX and FIX CODE TX **RF FIX** allows the use of **FIX CODE** transmitters only It is possible to store up to 2 among the available functions The START command must ALWAYS be stored on the first channel of the TX If the second stored function is modified, then all the transmitters acquire this change on the second channel \Rightarrow The first stored transmitter determines the coding of the following ones if the first transmitter is stored as ROLLING CODE, then all the followings must be stored as ROLLING CODE; transmitters with different coding are not accepted - see the coding passage on Tx instruction! 18.1 - OLD «ROLLING CODE» CODING PRESS* TWICE! PRESS TWICE ONLY 2 PRESS TO STORE THE FIRST STORED START LANGUAGE TRANSMITTERS BUTTON KEY ON THE FIRST TX (EXAMPLE) PRESS ONCE PRESS ONCE TO STORE THE 2 PARTIAL PRESS STORED SECOND KEY AND LANGUAGE TRANSMITTERS BUTTON **START** UP OK ALL THE KEYS OF THE FOLLOWING TX ➡ More details on the functions available in paragraph 18.4

18.2 - «ROLLING CODE PLUS» - «UNI» - «FIX CODE» TRANSMITTERS

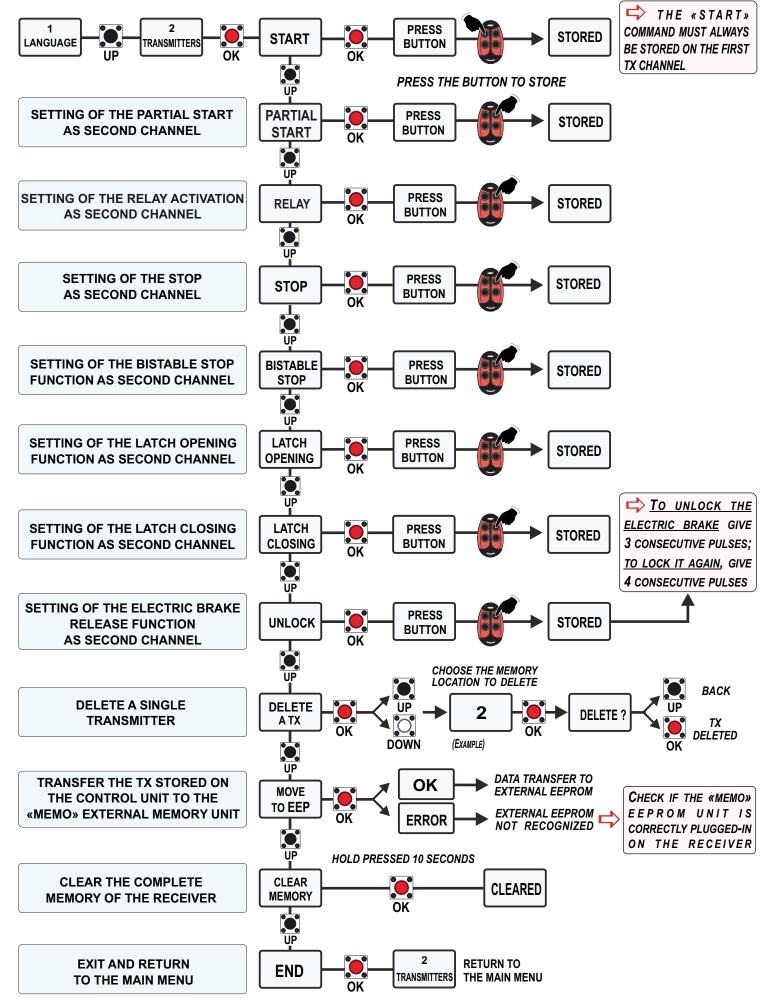


18.3 - «START» COMMAND QUICK LEARNING





18.4 - TRANSMITTERS FUNCTIONS DIAGRAM



ENGLISH

EXIT

(EXAMPLE)

LIMIT SWITCH

FAULT

19 - ALARMS

19.1 - FAULTS SHOWN ON THE DISPLAY

• The control unit advises of the faults may happen through a message on the display (*Note: press ok to exit the message*)

• Below the list of the faults that are signaled on the display and the possible solutions to the problems *(if the fault message holds out, contact the technical support)*

WARNING MESSAGE	SOLUTION
FAULT MOTOR	Motor power supply fault - Check that there are no short circuits on the motor or on the control unit; check that the gate is not blocked or stuck on a stop point. Check that the encoder <i>(if enabled)</i> is correctly wired to the control unit. Unlock the operator and give a START command to check that the motor runs: if the motor runs then disconnect the power supply, lock the operator again and restore the power supply; if the motor does not run, then it is burned
FAULT 24	24V or 24VAUX power supply fault - Check that there are no short circuits on wirings or on the control unit; check that there is no overload
FAULT NET	Main power supply fault - Check that a power failure is not occurred; check that the main power supply is active; Check the fuse F2
FAULT PHOTOCELL 1 SELF-TEST	«PHOTOCELL 1 SELF-TEST» function fault - Check the operation of the photocells and/or their wirings on the control unit
FAULT PHOTOCELL 2 SELF-TEST	«PHOTOCELL 2 SELF-TEST» function fault - Check the operation of the photocells and/or their wirings on the control unit
FAULT LIMIT SWITCH	Limit switch activation fault - Check the operation of both limit switches and that there is a correspondence between the direction of movement of the motor and the limit switch engaged
FAULT POTENTIOMETER (1 or 2)	Potentiometer fault - The message appears only if the menu 32 is set to «POSITION GATE». The potentiometer management unit (LE / LSE) is damaged or not correctly wired or set
FAULT POTENTIOMETER DIRECTION (M1)	Potentiometer cables wiring error on Motor 1 - Swap the wiring cables of the potentiometer (swap the blue cable with the brown cable)
FAULT POTENTIOMETER DIRECTION (M2)	Potentiometer cables wiring error on Motor 2 - Swap the wiring cables of the potentiometer (swap the blue cable with the brown cable)
FAULT POTENTIOMETER «RT» OR POSITION GATE	Potentiometer fault - <i>The message appears only if the menu 32 is set to «POSITION GATE»</i> or to «RT». The potentiometer management unit <i>(LE/LSE)</i> or the «RT» encoder management unit <i>(LRT)</i> is damaged or not correctly wired or set
FAULT FLASHING LIGHT	Flashing light fault - Check the wirings and / or the condition of the lamp
FAULT SAFETY EDGE (1 or 2)	Safety edge fault - Check the metal wire of the safety edge and the cables wirings. Check that the contact is closed by accessing the «INPUT STATUS» menu (paragraph 14.2)
FAULT ENCODER	Encoder fault - <i>The message appears only if the menu 32-ENCODER is set to «ON».</i> The Encoder management unit (LE / LSE) is damaged or not correctly wired or set
PASSWORD ERROR	Password error - Enter the password correctly; It is not possible to set «0000» as a password; If you forgot the password, please contact the technical assistance.





19.2 - FAULTS SIGNALED ON THE FLASHING LIGHT

• It is also possible to visualize the warning signals through the flashing light simply by observing the number of flashes emitted (see the table of correspondences below)

• When an event occurs, the warning flashes will be issued at each **«START»** command

ALARM TYPE	NUMBER OF FLASHES
MOTOR FAILURE (M1 OR M2)	9 SLOW (EVERY 0.5 SEC) 10 TIMES
PHOTOCELL FAILURE DURING CLOSING	2 SLOW (EVERY 0.5 SEC) 5 TIMES
PHOTOCELL FAILURE DURING OPENING	3 SLOW (EVERY 0.5 SEC) 5 TIMES
PHOTOCELL SELF-TEST FAILED	3 SLOW (EVERY 0.5 SEC) 1 TIME
COLLISION - OBSTACLE DETECTED DURING OPENING	6 SLOW (EVERY 0.5 SEC) 10 TIMES
COLLISION - OBSTACLE DETECTED DURING CLOSING	6 SLOW (EVERY 0.5 SEC) 10 TIMES
SAFETY EDGE FAILURE	4 SLOW (EVERY 0.5 SEC) 3 TIMES
M1 POTENTIOMETER FAILURE	11 FAST (EVERY 0.2 SEC) 4 TIMES
M2 POTENTIOMETER FAILURE	11 FAST (EVERY 0.2 SEC) 4 TIMES
«RT» POTENTIOMETER OR «POSITION GATE» FAULT	11 FAST (EVERY 0.2 SEC) 4 TIMES
FAULT ON STOP CONTACT	5 SLOW (EVERY 0.5 SEC) 1 TIME
LIMIT SWITCH FAILURE OR ERROR	4 FAST (EVERY 0.2 SEC) 10 TIMES
MAX. CYCLES ACHIEVED-MAINTENANCE REQUIRED	7 SLOW (EVERY 0.5 SEC) 1 TIME

The «CYCLES ALARM» warning refers to the reaching of the maximum cycles number established after which the maintenance is necessary

19.3 - «DIAGNOSTICS» MENU TO DISPLAY LATEST EVENTS

• The warnings and the alarms remain in the control unit memory, up to a max. of 10 events. To see the stored events, access the menu 106. Below is the table with the type of events saved in the diagnostics



➡ If the fault message holds out, carry out the required checks or disconnect the device generating the fault

TYPE OF EVENT	WARNING MESSAGE STORED
EVENTS OR ALARMS REGARDING FAULTS ON MOTOR	MOTOR FAULT
EVENTS OR ALARMS REGARDING FAULTS ON PHOTOCELL 1 OR PHOTOCELL 2 IN OPENING	PHOTO OPENING
EVENTS OR ALARMS REGARDING FAULTS ON PHOTOCELL 1 OR PHOTOCELL 2 IN CLOSING	PHOTO CLOSING
EVENTS OR ALARMS REGARDING FAULTS ON 10K PHOTOCELLS	10K PHOTOCELL
EVENTS OR ALARMS REGARDING THE DETECTION OF OBSTACLES IN THE OPENING PHASE	OBSTACLE IN OPENING
EVENTS OR ALARMS CONCERNING THE DETECTION OF OBSTACLES IN THE CLOSING PHASE	OBSTACLE IN CLOSING
EVENTS OR ALARMS CONCERNING FAULTS ON THE SAFETY EDGE 1	SAFETY EDGE 1 FAULT
EVENTS OR ALARMS CONCERNING FAULTS ON THE SAFETY EDGE 2	SAFETY EDGE 2 FAULT
EVENTS OR ALARMS CONCERNING FAULTS ON THE ABSOLUTE POTENTIOMETER	POT. 1 or POT. 2 FAULT
EVENTS OR ALARMS CONCERNING FAULTS ON THE «STOP» CONTACT	STOP
REACHING OF THE MAXIMUM CYCLES ESTABLISHED - MAINTENANCE REQUIRED	MAINTENANCE
EVENTS OR ALARMS CONCERNING FAULTS ON THE MAIN POWER SUPPLY	MISSING NETWORK
EVENTS OR ALARMS CONCERNING FAULTS ON THE OPENING OR CLOSING LIMIT SWITCHES	LIMIT SWITCH



<u>It is always recommended</u> to consult the <u>chapter 20</u> dedicated to troubleshooting. Most of the problems can be solved by following the given instructions!



20 - TROUBLESHOOTING

Make sure that all the safety devices are «ON»

PROBLEM	POSSIBLE REASON	SOLUTION
The operator does not respond to any START command	a) Check that the N.C. are connected b) Blown fuse	a) Check the connections and the jumpers on the safety edge or stop or photocell inputs, if connected b) Replace the blown fuse on the control unit
The operator does not run and the diagnostic display is off	a) The control unit is not powered b) Fuse open c) Defective control unit	a) Check the AC power supply b) Check the fuses c) Replace the defective control unit
The operator does not respond to a wired command (example: Opening, Closing, etc.)	a) Check the inputs of the opening and closing commands b) The STOP button is activated c) The Reset button is blocked d) Anti-entrapment safety device active	a) Check all the opening and closing inputs to make sure they are not blocked b) Check the STOP button is not blocked c) Check the Reset button d) Check among all the inputs of the anti-entrapment protection device, if there is a blocked sensor
The operator does not respond to a remote control	a) The STOP button is activated b) The Reset button is blocked c) Poor radio reception	a) Check the STOP button is not blocked b) Check the Reset button c) Check if the other wired devices are working correctly; check the antenna cable
The motor runs in one direction only	a) Check the resistance between the motor phase and neutral and verify that the resistance is MOhm b) Try to invert the motor phase and see if it changes direction or not	a) Replace the cable b) If the motor is blocked, replace the cable; if the motor moves in one direction only, the motor direction relay is damaged
	a) The engine is in the locked position b) Presence of an obstacle	a) Release the motor b) Remove the obstacle
The gate does not reach the complete open or closed position	a) Wrong limit switch setting b) Programming error c) Gate is stopped by an obstacle d) Torque too low e) The gate is too heavy to perform the automatic slowdown	a) Set the limit switches b) Repeat the working times programming c) Remove the obstacle d) Increase the torque parameter e) Set the slowdown to OFF
The gate opens but does not close	a) The photocells contacts are connected and open b) Stop contact connected and open c) The safety edge contact is open d) Amperometric alarm	a) b) c) Check the jumpers or the connected devices or the warning signals on the flashing lamp d) Check for a possible the amperometric alarm and, if necessary, increase the torque parameter
The gate does not close automatically	a) Pause time set too high b) Semi-automatic logic control unit	a) Adjust the pause time b) Set the PAUSE TIME menu to a value different than OFF
The gate moves, but the limit switches cannot be set correctly	a) The gate does not move towards a stop position b) It is too difficult to move the gate	a) Manually unlock and move the gate and make sure the gate moves easily from limit switch to limit switch. If necessary, repair the gate b) The gate must be able to move easily and freely throughout its travel, from limit switch to limit switch. If necessary, repair the gate
The gate does not fully open or close when the limit switches are set	a) The gate does not move towards a limit switch b) It is too difficult to move the gate	a) Manually unlock and move the gate and make sure the gate moves easily from limit switch to limit switch. If necessary, repair the gate b) The gate must be able to move easily and freely throughout its travel, from limit switch to limit switch. If necessary, repair the gate
The gate stops during travel and reverses direction	a) Open/Close control active b) The obstacle detection sensitivity is too low	a) Check if there is an active input among all the opening and closing inputs b) Check the obstacle detection sensitivity value and try to increase it
The gate opens but does not close with TX or closing timer	a) Opening control active b) Pause not set c) The closing anti-entrapment protection device is active d) The photocell contact is open e) The fire switch input is active	a) Check if there is an active input among the open inputs b) Check the pause settings c) Check if there is an active sensor among all the inputs of the anti- entrapment protection device d) Check the contact of the photocells e) Check the fire switch input



PROBLEM	POSSIBLE REASON	SOLUTION
The gate does not respect the slowdown start points	a) The encoder does not work properly when activated b) Slow mechanical clutch c) Too large deceleration space d) The potentiometer does not work correctly when activated e) The parameters of the recovery position are too high or too low	 a) Check in the Encoder menu that the "Encoder Par" parameter is set from a low value of +/- 10 (gate completely closed) to "Encoder tot" (gate completely open). If the IPAR movement is not in line with the range of values (from +/- 10 to "Encoder tot") probably the encoder is defective b) Tighten the mechanical clutch c) Reduce the slowdown space d) Check in the Potentiometer menu that the "IPAR" parameter is set from "I.CH." (gate completely closed) to "I.AP." (gate completely open). If the"IPAR" movement is not in line with the range of values (from I.AP. to I.CH.), the potentiometer is probably faulty e) Reduce or increase the values of the "recovery position"
The gate opens suddenly but any START command have been given	a) Frequency or disturbances on the main line b) Short-circuit on the START contact	a) The AC wiring must be separated from the DC wires and run through separate conduits. If it is a frequency disturbance, you can change the frequency to another MHz value, such as 868 or FM b) Check all the START contacts
The gate does not accept the close command during the pause in automatic logic, even if the loop or photocell are set as Start	a) START IN PAUSE is not ON b) The photocell/loop input is not set as "pause reload"	a) Turn ON the START IN PAUSE menu b) Set "pause reload" in the photocell / loop menu
The gate does not have the necessary force to close or reach the limit switch	a) Slowing down is not possible either because the gate is too heavy or because of the inclination or because the installation is not new	a) Set the slowdown to OFF
The gate travel is obstructed and cannot stop or reverse	a) Force the necessary adjustment	a) Refer to the adjustment parameter to carry out the obstruction tests and make the correct adjustments of the force (sensitivity - torque)
a) The photocell wiring is incorrect The photocell does not stop b) The photocell is faulty or reverse the gate travel c) The photocells have been installed too far apart		 a) Check the photocell wiring. Check that the gate stops and reverses its direction when the photocell is engaged b) Replace the faulty photocell. Check that the gate stops and reverses its direction when the photocell is engaged c) Install the photocells closer or use safety edges with sensors
The safety edge does not stop or reverse the travel of the gate	a) Incorrect wiring of the edge sensor b) Defective edge sensor	 a) Check the safety edge wiring. Check that the gate stops and reverses its direction when the edge is activated b) Replace the defective safety edge and check that the gate stops and reverses its direction when it is activated
The alarm sounds for 5 minutes or the alarm sounds after a command	a) A double entrapment has occurred (two obstructions within a single activation)	a) Check the cause of the entrapment detection (obstruction) and correct it. Press the reset button to silence the alarm and reset the operator
The shadow loop does not hold the gate on the opening limit switch	a) Shadow loop sensor incorrectly adjusted b) Defective shadow loop sensor c) Wrong setting	a) Check the shadow loop settings and reset as needed b) Replace the defective vehicle sensor c) Check that menu 98 is on SHADOW LOOP
The accessories connected to the accessory power supply do not work properly, they turn off or restart	a) Accessory power supply protection active b) Defective electronic control unit	 a) Disconnect all devices powered by the "accessories power supply" and measure their voltage (must be 23-30 Vdc). If the voltage is correct, reconnect the accessories one at a time, measuring each time the voltage b) Replace the defective control unit
Fault on the 24VAUX	a) Overload/short-circuit on AUX input b) Blown fuse	a) Check if the cable is shorted b) Replace the fuse
The control unit turns on but the motor does not run	a) STOP active or wrong jumpers b) Open or close the active input c) Active Entrapment Protection Device d) Defective electronic control unit	 a) Check that the STOP button is not blocked, that it is a N.C. contact or put a jumper on the Stop input b) Check that none of the opening and closing inputs are blocked c) Check whether there is a blocked sensor among all the entrapment protection device inputs d) Replace the defective control unit

SWING 2 DG (R2F) - (R2BF) MENU FUNCTIONS TABLE

THE DESCRIBED FUNCTIONS ARE VALID FOR ALL SWING 2 DG VERSIONS, EXCEPT WHERE EXPRESSLY STATED

	MENU	SET	DESCRIPTION	DEFAULT	NOTE
		Italiano	Italian		
		English	English		
1	LANGUAGE	Français	French	English	
		Español	Spanish		
		Dutch	Dutch		
		START	START		
		Partial START	Partial START		
		Relay	To enable the Relay for 3 seconds		
		STOP	STOP		
		Bistable STOP	Pressed once, it stops the gate. Pressed twice, it reactivates the START input		
2	TRANSMITTERS	Latch opening	One impulse opens and keep open. A second impulse restore the movement	Start	
2		Latch closing	One impulse closes and keep closed. A second impulse restore the movement	Partial Opening	
		Unlock	To store a command for unlocking the electric brake		
		Delete a transmitter	To delete a single transmitter (TX)		
		Move to EEP	To transfer the transmitters stored on the control unit to the external EEPROM (MEM), if connected		
		Clear memory	To delete the full transmitters memory on the receiver		
		End	To exit the menu «transmitters»		
		1- Hydraulic	Hydraulic operators		
		2- Sliding	Sliding operators		
3	MOTOR	3- Reversible Sliding	Reversible sliding operators	Mechanic	
		4- Mechanic Swing	Electro-mechanic swing operators		
		11- Cougar	Electro-mechanic swing operator		
4	GATES NUMBER	From 1 to 2	To set the number of motors to be managed	1	
5	REVERSE MOTOR	On	To reverse the opening with the closing or vice-versa (both motors and limit-switches are reversed)	Off	
		Off	Off		
		Automatic	Automatic logic - automatic reclosing enabled		
		Open-stop-close-stop-open	Step by step type 1		
		Open-stop-close-open	Step by step type 2	Auto-	
6	LOGIC	2 button	Two buttons	matic	
		Safety	Safety]	
		Dead man	Dead man	1	
	•	•			•

	MENU		SET	DESCRIPTION	DEFAULT	NOTE
7	TIMER TO CLOSE	Off		Semi-automatic logic enabled a START command opens and another START closes the gate - automatic reclosing disabled	Off	
		1	240	To set a pause time (from 1 second to 4 minutes) before the automatic reclosing		
0	START IN PAUSE	Off		The START command is not accepted during pause	Off	
8	START IN PAUSE	On		The START command is accepted during pause	Off	
9	PROGRAMMING	Off	On	To start up the working times learning	Off	
10	TEST START	Off	On	To give a START command for testing the operator (This command can be used only if the unit has already been programmed!)	Off	
13	LATCH PAUSE	Off	On	If «ON» the operator complies with the pause time set when the function «LATCH OPENING» is disabled. When «OFF» the pause time set is not respected		
14	RESET	A count-	A count-down of 5 seconds will start by holding the UP button; at its end «INIT» will appear on the display as confirmation of the control board reset			
192	MOVE GATE 1 *	Allows to move the gate in order to test the motor running or simply to position the gate as desired. The command works in a temporary «dead man» mode: HOLD UP PRESSED = THE GATE OPENS HOLD DOWN PRESSED = THE GATE CLOSES				
193	MOVE GATE 2 *	Allows to move the gate in order to test the motor running or simply to position the gate as desired. The command works in a temporary «dead man» mode: HOLD UP PRESSED = THE GATE OPENS HOLD DOWN PRESSED = THE GATE CLOSES				

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



SPECIAL MENU

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

THE DESCRIBED FUNCTIONS ARE VALID FOR ALL SWING 2 DG VERSIONS, EXCEPT WHERE EXPRESSLY STATED

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOTE		
26	LEAF DELAY IN OPENING		Adjustable from OFF to 6 seconds	1,5			
27	LEAF DELAY IN CLOSING	Off 20	Adjustable from OFF to 20 seconds	2,5			
28	OPENING TORQ 1	30% 100 %	Motor 1 torque in opening: the higher the torque value, the more force is required to execute the inversion in case of obstacle. The torque is set to 100% on hydraulic operators	75%			
29	CLOSING TORQ 1	30% 100 %	Motor 1 torque in closing: the higher the torque value, the more force is required to execute the inversion in case of obstacle. The torque is set to 100% on hydraulic operators	75%			
30	OPENING TORQ 2	30% 100 %	Motor 2 torque in opening: the higher the torque value, the more force is required to execute the inversion in case of obstacle. The torque is set to 100% on hydraulic operators	75%			
31	CLOSING TORQ 2	30% 100 %	Motor 2 torque in closing: the higher the torque value, the more force is required to execute the inversion in case of obstacle. The torque is set to 100% on hydraulic operators	75%			
32	ENCODER	ON (only if connected via LSE management unit)	ON = Standard Encoder Enabled OFF = Standard Encoder Disabled (when OFF, only the learnt working times are shown)	Off			
	47 ENCODER PAR. M1	xxx.	Impulses read by Encoder during operation (Motor 1)				
	48 ENCODER TOT. M1	xxx.	Impulses stored during programming (Motor 1)				
	49 ENCODER PAR. M2	xxx.	Impulses read by Encoder during operation (Motor 2)				
	50 ENCODER TOT. M2	xxx.	Impulses stored during programming (Motor 2)				
22		Position Gate	To enable the linear potentiometer «POSITION GATE» (only if connected via LE or LSE management unit)	Off			
32	ENCODER	RT	To enable the «RT» absolute encoder (only if connected via LRT management unit)	Off			
	51 I.PAR.M1 *		To show the current position of the potentiometer/abso on the leaf moved by Motor 1 . This parameter is useful potentiometer or the absolute encoder are correctly read				
	52 I.AP.M1	From the value learned to ± 100 pulses	To show the impulses stored by the control unit when the by Motor 1 is fully open	leaf mov	ed		
	53 I.CH.M1	From the value learned to ± 100 pulses	To show the impulses stored by the control unit when the by Motor 1 is fully close	leaf mov	ed		
	54 I.PAR.M2 *		To show the current position of the potentiometer/absolute enco on the leaf moved by Motor 2 . This parameter is useful to see if potentiometer or the absolute encoder are correctly read				
	55 I.AP.M2	From the value learned to ± 100 pulses	To show the impulses stored by the control unit when the by Motor 2 is fully open	leaf mov	ed		
	56 I.CH.M2	From the value learned to ± 100 pulses	To show the impulses stored by the control unit when the by Motor 2 is fully close	leaf mov	ed		

* While the partial impulses are displayed, it is possible to OPEN (by pressing UP) or CLOSE (by pressing DOWN) the operator to verify the correct reading of the potentiometer - only for «POSITION GATE»

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOTE
32	ENCODER	OFF	ON = Standard Encoder Enabled OFF = Standard Encoder Disabled (when OFF, only the learnt working times are shown)	Off	
	65 OPENING TIME M1	xxx.s To display the learnt value during the working times self learnt value during times self learnt value during times self learnt value during times se		-	n
	66 CLOSING TIME M1	xxx.s	increase or reduce the working times		
	67 OPENING TIME M2	xxx.s	To display the learnt value during the working times self le opening and closing <i>(Motor 2)</i> . With UP or DOWN it is pos	-	ı
	68 CLOSING TIME M2	XXX.S	increase or reduce the working times	1	
33	OPENING SENSITIVITY MOTOR 1	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer or «RT» Encoder intervention time on the Motor 1 in opening	Off	
		Off (Intervention excluded)	Disabled		
34	CLOSING SENSITIVITY MOTOR 1	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer or «RT» Encoder intervention time on the Motor 1 in closing	Off	
	MOTOR 1	Off (Intervention excluded)	Disabled		
35	OPENING SENSITIVITY	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer or «RT» Encoder intervention time on the Motor 2 in opening	Off	
	MOTOR 2	Off (Intervention excluded)	Disabled		
36	CLOSING SENSITIVITY MOTOR 2	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer or «RT» Encoder intervention time on the Motor 2 in closing	Off	
		Off (Intervention excluded) Disabled	Disabled		
37	SLOWDOWN SENSITIVITY	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer or «RT» Encoder intervention on the Motor during the slowdown	Off	
		Off (Intervention excluded)	Disabled		
	M1 POTENTIOMETER THRESHOLD IN OPENING		To adjust the threshold of the Potentiometer or «RT»		
39	M1 POTENTIOMETER THRESHOLD IN CLOSING	0 1000 (available only if the «Position Gate» or the	Encoder intervention. This parameter self-determines during the working times learning but can also be adjusted later, on the condition that the set value is lower	es e er <i>lt</i> <i>depends</i> <i>on model</i> <u>G</u>	
	M2 POTENTIOMETER THRESHOLD IN OPENING	«RT» Encoder have been wired and the menu 32 correctly set)	than the value shown in VP1 or VP2 <u>(instantaneous speed</u> values which can be shown by accessing the DEBUG menu). NOTE: The lower the threshold value, the slower		
41	M2 POTENTIOMETER THRESHOLD IN CLOSING		is the response of the potentiometer.		
42	M1 POTENTIOMETER THRESHOLD IN SLOWDOWN - <i>OPENING</i>				
43	M1 POTENTIOMETER THRESHOLD IN SLOWDOWN - <i>CLOSING</i>	(available only if the	To adjust the threshold of the Potentiometer or «RT» Encoder intervention during the slowdown. The value can be manually increased on the condition	lt	
44	M2 POTENTIOMETER THRESHOLD IN SLOWDOWN - <i>OPENING</i>	«RT» Encoder have been wired and the menu 32 correctly set)	that the set value is lower than the value shown in VP1 VP2 (instantaneous speed values which can be shown b	on model	
45	M2 POTENTIOMETER THRESHOLD IN SLOWDOWN - <i>CLOSING</i>		accessing the DEBUG menu)		

SPECIAL MENU	SET	Γ	DESCRIPTION	DEFAULT	NO
CLOSING INVERSION Not available if the menu	Total			e s <i>Partial</i> »	
86 is set to «BUZZER»	Partial		In case of obstacle or safety edge / potentiometer / «RT» Encoder intervention, the gate partially reverses direction (of about 30 cm) then stops		
The	menus 47 - 48	- 49 - 50	are shown only if the menu 32- ENCODER = ON		
The menus 51 -	52 - 53 - 54 - 55	5 - 56 are sh	own only if the menu 32- ENCODER = Position Gate or RT		-
OPENING SLOWDOWN 1	Off (*) 50%	Hydraulic	Adjustable from OFF (<i>disabled</i>) to the 50% of the stroke. On hydraulic operators, the slowdown is automatically set to «Hydraulic» if the value exceeds 50%	It depends on model	
CLOSING SLOWDOWN 1	Off (*) 50%	Hydraulic	Adjustable from OFF <i>(disabled)</i> to the 50% of the stroke. On hydraulic operators, the slowdown is automatically set to «Hydraulic» if the value exceeds 50%	lt depends on model	
OPENING SLOWDOWN 2	Off (*) 50%	Hydraulic	Adjustable from OFF (<i>disabled</i>) to the 50% of the stroke. On hydraulic operators, the slowdown is automatically set to «Hydraulic» if the value exceeds 50%	lt depends on model	
CLOSING SLOWDOWN 2	Off (*) 50%	Hydraulic	Adjustable from OFF (disabled) to the 50% of the stroke. On hydraulic operators, the slowdown is automatically set to «Hydraulic» if the value exceeds 50%	lt depends on model	
* For motors with	hydraulic brak	e (CF) or dou	ible hydraulic brake (2CF) this parameter must be set to O	FF	
DECELERATION	0% 100%		To adjust the change from normal speed to slowdown speed	100%	
ACCELERATION	0% 100%	<u> </u>	Acceleration ramp. To adjust the motor start up speed	100%	
The	e menus 65 - 66	5-67-68 aı	re shown only if the menu 32- ENCODER = OFF		
ANTI OVERLAP	Off On		To disable the anti-overlapping control of the leaves allowing their separate control	Off	
			To enable the anti-overlapping control of the leaves		
OPENING POSITION RECOVERY			6 5	1 s	
CLOSING POSITION RECOVERY				1 s	
OPENING TOLERANCE MOTOR 1	0% 100%	6 (*)	To adjust the tolerance space between the recognition of the mechanical stop in opening and the recognition of the obstacle - In case of obstacle within the tolerance space, this will be considered as mechanical stop	80%	
CLOSING TOLERANCE MOTOR 1	0% 100%	6 (*)	To adjust the tolerance space between the recognition of the mechanical stop in closing and the recognition of the obstacle - In case of obstacle within the tolerance space, this will be considered as mechanical stop	80%	
OPENING TOLERANCE MOTOR 2	0% 100%	6 (*)	To adjust the tolerance space between the recognition of the mechanical stop in opening and the recognition of the obstacle - In case of obstacle within the tolerance space, this will be considered as mechanical stop	80%	
CLOSING TOLERANCE MOTOR 2	0% 100%	6 (*)		80%	
	CLOSING INVERSION Not available if the menu 86 is set to «BUZZER» DPENING SLOWDOWN 1 CLOSING SLOWDOWN 2 CLOSING SLOWDOWN 2 CLOSING SLOWDOWN 2 For motors with DECELERATION ACCELERATION ACCELERATION CLOSING POSITION RECOVERY CLOSING POSITION RECOVERY CLOSING TOLERANCE MOTOR 1 CLOSING TOLERANCE MOTOR 1	CLOSING INVERSION Not available if the menu 86 is set to «BUZZER» Total Partial Partial CLOSING The menus 51 - 52 - 53 - 54 - 52 OPENING SLOWDOWN 1 Off (*) 50% CLOSING SLOWDOWN 1 Off (*) 50% CLOSING SLOWDOWN 2 Off (*) 50% PECELERATION 0% DECELERATION 0% OPENING POSITION RECOVERY 0ff OPENING POSITION RECOVERY 0 20 s OPENING POSITION RECOVERY 0 20 s OPENING TOLERANCE MOTOR 1 0% 100% OPENING TOLERANCE MOTOR 2 0% 100% OPENING TOLERANCE MOTOR 2 0% 100%	CLOSING INVERSION Not available if the menu 86 is set to «BUZZER» Total Partial	CLOSING INVERSION Not available if the menu 86 is set to eBUZZER* In case of obstacle or safety edge intervention during the closing, the gate totally reverses the movement. If the automatic recising is enabled (automatic logic), it is thermuted for 5 times B6 is set to eBUZZER* In case of obstacle or safety edge / potentiometr / eRT encoder intervention, the gate partially reverses direction (of about 30 cm) then stops DPENING SLOWDOWN 1 Off (*) 50% Hydraulic Adjustable from OFF (disabled) to the 50% of the stroke. OPENING SLOWDOWN 1 Off (*) 50% Hydraulic Adjustable from OFF (disabled) to the 50% of the stroke. OPENING SLOWDOWN 1 Off (*) 50% Hydraulic Adjustable from OFF (disabled) to the 50% of the stroke. OPENING SLOWDOWN 2 Off (*) 50% Hydraulic On hydraulic operators, the slowdown is automatically set to eHydraulic of the value exceeds 50% OPENING SLOWDOWN 2 Off (*) 50% Hydraulic On hydraulic operators, the slowdown is automatically set to eHydraulic of the value exceeds 50% OPENING SLOWDOWN 2 Off (*) 50% Hydraulic On hydraulic operators, the slowdown is automatically set to eHydraulic of the value exceeds 50% CLOSING SLOWDOWN 2 Off (*) 50% Hydraulic To adjust the change from normal speed to slowdown speed ACCELERATION 0	CLOSING INVERSION Not available if the mean Bit is set to #JUZEEN Total In case of obstacle or safety edge intervention during the duatomatic receiping is enabled (automatic logi), it is attempted for 5 times Partial Bit set to #JUZEEN In case of obstacle or safety edge / potentioneter / #RTN Encoder intervention, the gate partially reverses direction (of about 30 cm) then stops Partial The menus 51 - 52 - 53 - 54 - 55 - 56 are shown only if the menu 32 - ENCODER = Position Gate or RT R OPENING SLOWDOWN 1 Off (*) 50% Hydraulic Adjustable from OFF (diabled) to the S0% of the stroke. Con hydraulic operators, the slowdown is automatically set to #Hydraulic? if the value exceeds 50% adjustable from OFF (diabled) to the S0% of the stroke. Con hydraulic operators, the slowdown is automatically set to #Hydraulic? if the value exceeds 50% adjustable from OFF (diabled) to the S0% of the stroke. Con Hydraulic operators, the slowdown is automatically set and the stroke of the stroke exceeds 50% adjustable from OFF (diabled) to the S0% of the stroke. Con Hydraulic operators, the slowdown is automatically set and the Hydraulic if the value exceeds 50% adjustable from OFF (diabled) to the S0% of the stroke. Con Hydraulic operators, the slowdown is automatically set and the hydraulic operators, the slowdown is automatically set to #Hydraulic if the value exceeds 50% adjustable from OFF (diabled) to the S0% of the stroke. Con Hydraulic operators, the slowdown is automatically set and the hydraulic brake (CF) or double Hydraulic brake (ZF) Hydraulic to Hydraulic if the value exceeds 50% adjustable from OFF (diabled) CLOSING SLOW

	SPECIAL MENU	S	ET	DESCRIPTION	DEFAULT	NOT
		Time Pushing Stroke	Off - 3 sec	Before opening, the motor starts up in closing for the time set, in order to simplify the lock release		
76	PUSHING STROKE	Repeat Lock Release	Off - On	If ON , the lock will be released both before and after the pushing stroke	Off	
		End		To exit the menu		
77	LOCK TIME	Off	5 seconds	To adjust the lock release time from 0 to 5 seconds	3 s	
		Only opening)	To enable the lock only before opening	Opening	
78	LOCK	Only closing		To enable the lock only before closing	and	
		Opening and	closing	To enable the lock before both opening and closing	closing	
		Only opening	7	If the gate moves, whether due to wind or manual		
70	ANTI INTRUSION	Only closing		forcing, the function starts up the operator to restore the	Off	
19		Opening and closing		initial position. (function available only if limit switch or	CJJ	
		Off		potentiometer or «RT» encoder are installed)		
	PUSHOVER	Off		The gate leaf makes an extra movement at the maximum	e Off	
80		Opening and	closing	torque to ensure the tightening of the gate		
00		Only closing		In case of a STOP command, the Pushover function is		
		Only opening	1	restored only after a new START command		
81	PERIODIC PUSHOVER	Off If the pushove	8h r is enabled	To activate the repetition of the pushover function at a time distance adjustable from 0 to 8 hours, at hourly intervals		
		Opening 1	Off - 3 s			
		Closing 1	Off - 3 s	If different than OFF, the motor slightly reverses the	Off	
82	MOTOR RELEASE	Opening 2		rotation direction for the set time (up to 3 seconds) at	(hydraulic) 0.1	
		Closing 2	Off - 3 s	the end of the cycle	(mechanic)	
		End				
83	EXTRA TIME *	0.0 s	10 s	If the limit switches are installed, it is possible to add an extra time (max. 10 seconds) to the movement of the operator after the reading of the limit switches Note: If an Encoder is installed, the space can be set by impulses (from 0 to 100)		

* Only if the operator is equipped with hydraulic slowdown and one or more slowdown-menus (from 59 to 62) are set to «HYDRAULIC» (EXTRA TIME will be applied to the operator and to the moving direction of the menu set to «HYDRAULIC»)

				•		
84	BRAKE	Off	100%	To adjust the braking on the limit switch	Off	
85	PRE-FLASHING	Only closing		To enable the pre-flashing only before closing (To access this option: press DOWN when 0.0 is shown)	Off	
		0.0	5.0 s	To set the pre-flashing duration		
		Normal		Normal		
86	FLASHING LIGHT	Light		Warning lamp function	Normal	
00		Always		Always ON	Normai	
		Buzzer		Buzzer		
87	FLASHING LIGHT AND TIMER	Off		The flashing light will be OFF with enabled timer and open gate		
0/		On		The flashing light will be ON with enabled timer and open gate	Off	
		Off		Disabled		
88	COURTESY LIGHT	1	240	Adjustable from 1 second to 4 minutes	In cycle	
		In cycle		Courtesy light only in cycle		

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOTE
89	TRAFFIC LIGHT RESERVATION	Off On	To get the priority in entry (via a START command) or in exit (via a PARTIAL START command). The function is available only if a traffic light is wired via SEM unit		
90	PARTIAL OPENING	20% 100%	Adjustable from 20% to 100%	100%	
01	PARTIAL PAUSE	= START	The pause time in partial opening is the same as in total opening	=	
91	PARTIAL PAUSE	Off	Disabled	START	
92	TIMER	1 240 Off On Photocell 2 On Partial START	Adjustable from 1 second to 4 minutes The selected input will be turned into an input (on CN1) to which connect an external clock	Off	
		Always In cycle Opening	AUX output always powered AUX output powered only during cycle AUX output powered only during opening	-	
	24V AUX (Max. 500 mA)	Closing In pause Positive brake	AUX output powered only during closing AUX output powered only during pause AUX output powered only when the gate is stationary	-	
94	The AUX output allows the wiring of additional accessories via relay; accessories will work according to the chosen option	Negative brake management	AUX output powered only when the gate is stationary Ex.: positive electric brake connected via relay AUX output powered during cycle and 1 second before starting the movement Ex.: negative electric brake connected via relay	Always	
		Open gate 2 flashes per second - during opening warning light Steady lit - gate in «STOP» or «OPEN» status	 1 flash per second - during opening 2 flashes per second - during closing Steady lit - gate in «STOP» or «OPEN» status 		
		START 3 s	AUX output powered at every START input or at every photocells or safety edge intervention, for 3 seconds <i>ie.: a courtesy light connected via relay</i>		
		Photocell 1	Self-test enabled only on photocell 1	-	
95	PHOTO-TEST	Photocell 2 Photocells 1 and 2	Self-test enabled only on photocell 2 Self-test enabled on photocells 1 and 2	Off	
		Off Closing	Disabled If the photocell is occupied during closing, the gate reverses the movement; If the photocell is occupied during the pause, it prevents the gate reclosing		
		Opening and closing	If the photocell is occupied during opening or closing, it stops the gate movement; when the photocell is released, the movement continues		
		STOP	If the photocell is occupied before the START input, the START will be ignored. If the photocell is occupied after the START input, the photocell will be ignored. If the photocell is occupied during closing, the gate will reopen		
97	PHOTOCELL 1	STOP and close	If the photocell is occupied during closing, it stops the gate movement; when released, the closing continues	Closing	
		Close	The photocell stops the gate until it is occupied in both opening and closing; when released, it send a closing input (the gate closes 1s after the photocell release)		
		Pause reload	If the photocell is occupied during opening or closing, it stops the gate movement; when released, the movement continues. If the photocell is occupied during the pause, it recharges the pause time set		
		Delete pause time	If the photocell is occupied during opening, pause or closing, the gate reopens completely and closes without observing the pause time set		

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOT
		Closing	If the photocell is occupied during closing, the gate reverses the movement; If the photocell is occupied during the pause, it prevents the gate reclosing		
		Opening and closing	If the photocell is occupied during opening or closing, it stops the gate movement; when the photocell is released, the movement continues		
		STOP	If the photocell is occupied before the START input, the START will be ignored. If the photocell is occupied after the START input, the photocell will be ignored. If the photocell is occupied during closing, the gate will reopen		
		STOP and close	If the photocell is occupied during closing, it stops the gate; when released the closing movement continues		
98	PHOTOCELL 2	Close	The photocell stops the gate until it is occupied in both opening and closing; when released, the photocell gives a closing command (the gate closes one second after the photocell release)	Opening and	
50	PHOTOCELL 2	Pause reload	If the photocell is occupied during opening or closing, it stops the gate movement; when released, the movement continues. If the photocell is occupied during the pause, it reloads the pause time set	Closing	
		Pause reload Photo closing	If the photocell is occupied during the pause, it reloads the pause time set. If the photocell is occupied during closing, the gate reverses the movement		
		Delete pause time	If the photocell is occupied during opening, pause or closing, the gate reopens completely and closes without observing the pause time set		
		STOP and open	If the photocell is occupied during opening, the gate will stop; when released, the gate continues the opening movement. The photocell is ignored during closing		
		Safety edge 2	To enable the second safety edge; it is possible to choose the working direction of the second safety edge through the menu 103		
	SAFETY EDGE 1 Menu available on model R2F only	Normal	Standard safety edge - N.C. contact		
		8K2	Safety edge protected by a 8K2 resistor enabled		
		Normal	Standard safety edge - N.C. contact		
100	SAFETY EDGE 1	8K2 N.C.	Safety edge protected by a 8K2 resistor enabled	Normal	
	Menu available on model	8K2 N.C. Double	Two safety edges protected by 8K2 resistor enabled		
	R2BF only	8K2 RES	Resistive edge protected by 8K2 resistor enabled		
		8K2 RES Double	Two resistive edges protected by 8K2 RES enabled		
	SAFETY EDGE 1	Opening and closing	Safety edge enabled in opening and closing	Opening	
102	DIRECTION	Only opening	Safety edge enabled only in opening	and Closing	
		Only closing	Safety edge enabled only in closing	closing	
	SAFETY EDGE 2 DIRECTION	Opening and closing	Safety edge enabled in opening and closing	Opening	
103	Menu available only if the	Only opening	Safety edge enabled only in opening	and	
	menu 98 is set to «SAFETY EDGE 2»	Only closing	Safety edge enabled only in closing	Closing	
	-	Automatic	Automatic detection of the limit switch		┢
		Only opening	Limit switch enabled only in opening		
104	SELECT LIMIT SWITCH	Only closing	Limit switch enabled only in closing	Auto- matic	
		Motor internal	To be enabled if the operator is equipped with an inner limit switch that stops the motor phase		

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOT			
106	DIAGNOSTICS	1 10	To display the last 10 events <i>(alarms)</i> <i>(See Chapter «ALARMS»)</i>					
107	MAINTENANCE CYCLES	100 240000	Adjustable from 100 to 240000 cycles	100000				
108	PERFORMED CYCLES	0 240000	To display the executed cycles. <i>Hold pressed OK to reset the cycles</i>	0				
112	PASSWORD	Note: «0000» setting is not allowed	To enter a password for blocking the control unit parameters modification					
114	EXP MANAGEMENT	SEM 2	The SEM 2 management unit can be connected to the EXP input	SEM2				
114		Relay	A relay management unit can be connected to the EXP input	SLIVIZ				
116	REPEAT LEAF DELAY	On Off	In case of a STOP command when the gate is on its halfway, the leaves will repeat the «leaf delay» set on menus 26-27					
		Off	Disabled					
118	LATCH	Opening	To enable the LATCH button wired to the «PARTIAL START» N.O. input; (the PARTIAL START function will be disabled) after a LATCH button command the gate opens and stay open till a new LATCH button command	Off				
		Closing	To enable the LATCH button wired to the «PARTIAL START» N.O. input; (the PARTIAL START function will be disabled) after a LATCH button command the gate closes and stay closed till a new LATCH button command					
	-	e more time the same butto be sent from Tx or SEACLOU	n used to enable D, thus keeping the PARTIAL START input free					
119	DISPLAY WRITING SPEED	From 30% to 100%	The scrolling speed of the text can be adjusted from 30% to 100%	80%				
On tl	he contrary, if adjusted to	inimum value of 30%, the scr the maximum value of 100% ge on the display of the JOLL	5, the scrolling speed of the text will be very high. Y 3 programmer!					
120	BASIC MENU	The spe	Press OK to exit the special menu. cial menu switches off automatically after 20 minutes					
	PHOTO 1 TYPE Menu available on model	Normal	Standard photocell without 10K control	Normal				
	R2BF only	Photo 1 10K	Photocell with 10K control	wonnun				
	PHOTO 2 TYPE Menu available on model	Normal	Standard photocell without 10K control	Normal				
	R2BF only	Photo 2 10K	Photocell with 10K control	wormul				
	RELAY Menu available on model	START 3s	To enable the Relay for 3 seconds at every Start or reopening command	Start 3s				
	R2BF only	Off	Disabled					
190	BASIC MENU On model R2BF only	The spe	Press OK to exit the special menu. The special menu switches off automatically after 20 minutes					



PART FOR BOTH INSTALLER AND END-USER

MAINTENANCE: periodically, it would be advisable to reprogram the working times on the control unit according to the number of cycles performed over time and according to the type of operator, especially if changes in friction, malfunctions or non-compliance with the previously set working times are noticed. Periodically clean the optical system of the photocells.

SAFETY PRECAUTIONS: all electrical works and the choice of the operating logic should comply with the current regulations. A 16A/0,030 differential switch must be used. Separate the source cables (*operators, power supply*) and command cables (*photocells, push-buttons, etc*). Be sure the system is properly grounded. Always run cables in separate sheaths to prevent interferences

SPARE PARTS: send request for spare parts to: SEA S.p.A. - Teramo - ITALY - www.seateam.com

SAFETY AND ENVIRONMENTAL COMPATIBILITY: do not waste product packaging materials and/or circuits; do not dispose of the product with other domestic waste at the end of its 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 types 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 to get all the information related to differential waste collection and recycling of this kind of product.

STORAGE: T = -30° C/+ 60° C; Humidity = min. 5% / max. 90% (without condensation); Materials must be properly packaged, handled with care and with appropriate vehicles

WARRANTY LIMITS: - see the sales conditions

MAINTENANCE AND DECOMMISSION: must be carried out only by specialized and authorized personnel

THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT

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

GENERAL NOTICE

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 comply with Directives: Machine Regulation 2006/42/CE and following adjustments, Low Tension (2006/95/CE), Electromagnetic Consistency (2004/108/CE); Installation must respect 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 grounding system is perfectly constructed, and connect to it the metal parts of the gate

8. Use of the indicator-light is recommended for every system, as well as a warning sign well-fixed to the frame structure.

9. SEAS.p.A. declines all liability concerning the automated system safety and efficiency, if components used are not produced by SEA

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 the system 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. The 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 safety low voltage (SELV) or use an appropriate sheath that provides extra insulation having a thickness of 1 mm



TERMS OF SALE

EFFICACY OF THE FOLLOWING TERMS OF SALE: the following general terms of sale shall be applied to all orders sent to SEA S.p.A. All sales made by SEA to all customers 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 EN12453 – EN 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 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 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 or damage of the goods during transport, are at Buyer's cost

6) COMPLAINTS Any complaints 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 its supplies of raw material which is necessary for the production; Eventual completely or partially unsuccessful executions cannot be reason for complaints 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 SEAS.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, installa

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 property 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 expressively clauses under numbers: 4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LAW



DECLARATION OF CONFORMITY DICHIARAZIONE DI CONFORMITÀ

SA S.p.A. declares under its proper responsibility and, if applicable, under the responsibility of its authorised representative that, by installing the appropriate safety equipment and noise filtering, the products:

La SEA S.p.A. dichiara sotto la propria responsabilità e, se applicabile, del suo rappresentante autorizzato che, con l'installazione degli adeguati dispositivi di sicurezza e di filtraggio disturbi, i prodotti:

DESCRIPTION - *DESCRIZIONE*

MODEL - MODELLO

23021096

TRADEMARK - *MARCA*

SEA

SWING 2 DG R2F (*AND ALL ITS BY-PRODUCTS - E TUTTI I SUOI DERIVATI*)

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

- comply with the essential safety requirements related to the products within the field of applicability of the Community Directives 2014/35/UE and 2014/30/UE

- sono costruiti per essere incorporati in una macchina o per essere assemblati con altri macchinari per costruire una macchina ai sensi della Direttiva 2006/42/CE;

- sono conformi ai requisiti essenziali di sicurezza relativi ai prodotti entro il campo di applicabilità delle Direttive Comunitarie 2014/35/UE e 2014/30/UE

PLACE AND DATE OF ISSUE LUOGO E DATA DI EMISSIONE

TERAMO, 06/09/2022

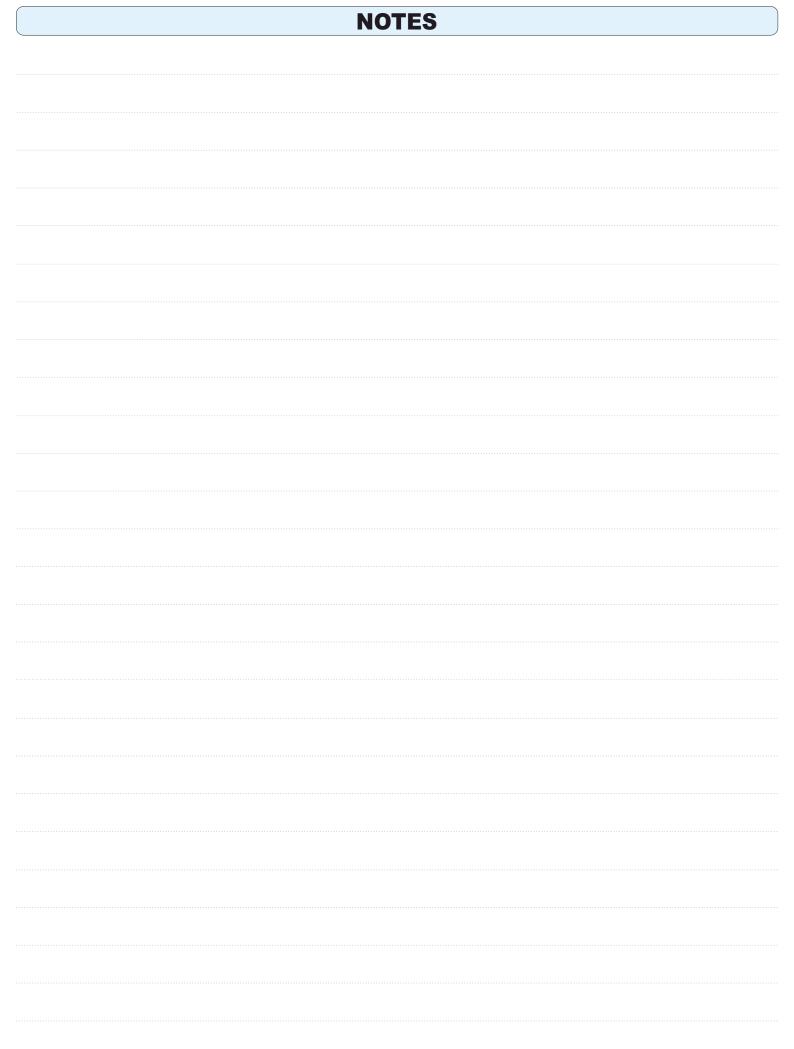
THE MANUFACTURER OR THE AUTHORIZED REPRESENTATIVE IL COSTRUTTORE O IL RAPPRESENTATE AUTORIZZATO

SEA S.P.A. Zona Industriale Sant'Atto 64100 - Teramo - Italy + 39 0 861 588341 www.seateam.com

L'Amministratore The Administrator Epinio Di Severio

CE







Automatic Gate Openers

International registered trademark n. 804888

SEA S.p.A.

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