



GATE 1 DG

GATE 1 DG R2BF GATE 1 DG R2EF GATE 1 DG R3BF



SEA S.p.A.

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PRELIMINARY

- THE GATE 1 DG CONTROL UNIT REQUIRES THE PROGRAMMING OF THE WORKING TIMES (SEE 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 CARRY OUT BY THE DISPLAY ON BOARD OR BY THE **JOLLY 3** PROGRAMMER OR **SEACLOUD**





JOLLY 3

3 SEACLOUD

• FUNCTIONS AND MENUS HERE DESCRIBED ARE VALID ONLY FOR THE BELOW LISTED SOFTWARE REVISIONS; IF SOME FUNCTIONS OR MENUS DO NOT CORRESPOND ON YOUR CONTROL UNIT, CONSULT THE PREVIOUS MANUALS

MODEL SOFTWARE REVISION

GATE 1 DG R2BF 03.04 GATE 1 DG R2EF 03.04 GATE 1 DG R3BF 00.01

115Vac - 50/60 Hz

ALL CONNECTIONS (ACCESSORIES, CIRCUITS OR EXTERNAL UNITS) MUST BE MADE WHEN THE CONTROL UNIT IS OFF AND NOT POWERED; ONLY AFTER ALL WIRINGS ARE COMPLETE THE CONTROL UNIT CAN BE SWITCHED ON AND PROGRAMMED

POWER SUPPLY ABSORPTION OPERATING TEMPERATURE PROTECTION CLASS OF THE PLASTIC BOX (IF INCLUDED) 230VAC - 50/60 Hz OR 30 mA -20° C +50°C IP 55

QUICK START

- MAKE ALL CONNECTIONS (CONTROL UNIT OFF): ACCESSORIES, MOTORS 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)
- OPTIONAL SET UP THE «START» COMMAND ON THE TRANSMITTER (CHAPTER 18)
- SET A PAUSE TIME TO OPERATE IN «AUTOMATIC» LOGIC **CHAPTER 16** OTHERWISE THE LOGIC WILL BE «SEMI-AUTOMATIC» (AUTOMATIC RECLOSING DISABLED)

7 TIMER TO CLOSE

Choose the motor type on menu 3 (see the menu table)

3 MOTOR

START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN CHAPTER 15

FOR MODEL «GATE 1 DG R3BF» ONLY: BEFORE STARTING THE WORKING TIMES LEARNING, MOVE THE

OPERATOR USING THE MENU

192

MOVE
GATE

; IF THE GATE OPENS BY PRESSING

UP

AND IF THE GATE CLOSES BY

PRESSING DOWN , THE MOTOR RUNS CORRECTLY, OTHERWISE SWAP THE MOTOR CABLES

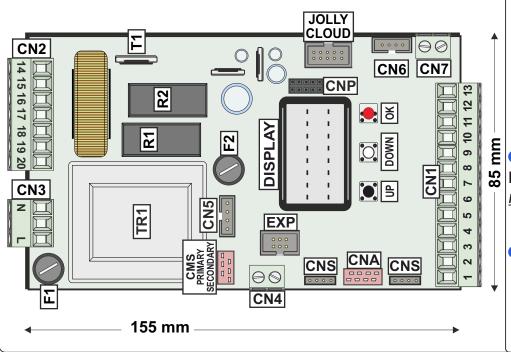


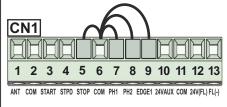


1 - CONNECTIONS

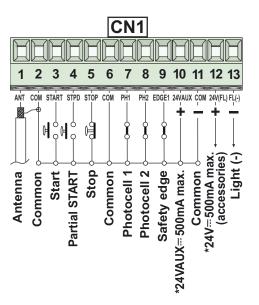


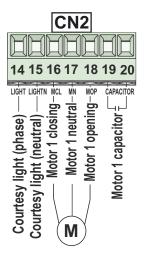
WARNING: CONNECT ALL DEVICES WHEN THE CONTROL UNIT IS SWITCHED-OFF

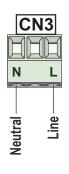


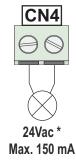


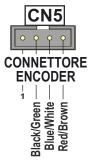
- **OPTIONAL JUMPERS**
- AUTOMATIC RECOGNITION OF THE N.C. INPUTS NOT IN USE - NO JUMPER IS REQUIRED ON THE N.C. CONTACTS
- THE INPUTS EXCLUDED DURING THE WORKING TIMES PROGRAMMING CAN BE RESTORED THROUGH THE «INPUTS MANAGEMENT» MENU (CHAPTER 14). NO NEED TO SET UP THE UNIT AGAIN

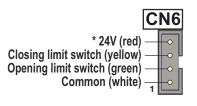














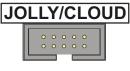
PRIMARY SECONDARY CONNECTOR



EXTERNAL MODULE CONNECTOR



OPEN (Firmware update)



JOLLY3/SEACLOUD **CONNECTOR**

Closing limit switch (yellow) Opening limit switch (green)





RF RECEIVER CONNECTOR



RF FIX RECEIVER CONNECTOR



PROGRAMMING BUTTONS

T1 MOTOR CONTROL TRIAC

R1 MOTOR AND COURTESY LIGHT RELAY

MOTOR EXCHANGE RELAY R₂

FUSE 6.3AT (230V) OR 10AT (115V) F1 =

FUSE ACCESSORIES 1A F2

POWER TRANSFORMER TR1 =

 $[^]st$ All the 24V inputs support a maximum load of $\,$ 500mA, referred to the sum of the loads of all 24V ACCESSORIES CONNECTED, INCLUDING THE ABSORPTION OF THE RECEIVER ON BOARD (30 mA)





2 - CONNECTIONS ON CN1

2.1 - START (N.O.)

- Connect the «start» command on clamps 2 and 3
- FOR THE LOGICS TO BE LINKED TO THE «START» COMMAND, SEE THE CHAPTER 16 (LOGICS)
- GATE DOES NOT CLOSE UNTIL THE INPUT IS RELEASED

2.2 - PARTIAL START (N.O.)

- CONNECT THE «PARTIAL START» ON CLAMPS 2 AND 4
- FOR THE LOGICS TO BE LINKED TO THE «START» COMMAND, SEE THE CHAPTER 16 (LOGICS)
- PARTIAL OPENING SPACE MANAGEMENT:

90 **PARTIAL OPENING**

PARTIAL OPENING PAUSE TIME MANAGEMENT:

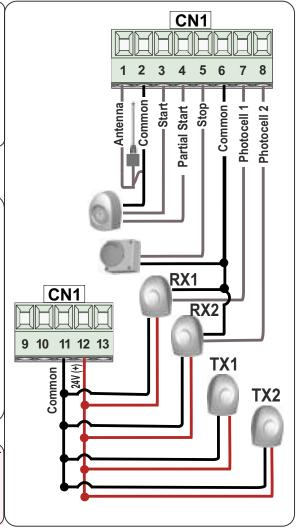
«START» OR «PARTIAL START» COMMANDS, VIA MENU 89

91 PARTIAL **PAUSE**

GATE DOES NOT CLOSE UNTIL THE INPUT IS RELEASED

IF YOU CONNECT A TRAFFIC LIGHT VIA THE **SEM2** MANAGEMENT UNIT (SEE PARAGRAPH 9.1) IT IS POSSIBLE TO ACTIVATE THE PRIORITY IN OPENING OR CLOSING ASSOCIATED TO THE

89 TRAFFIC LIGHT RESERVATION



2.3 - STOP (N.C.)

- CONNECT THE «STOP» COMMAND ON CLAMPS 5 AND 6
- AFTER STOPPING, PRESS «START» TO RESTORE THE MOVEMENT
- AFTER A «STOP» COMMAND. THE OPERATOR ALWAYS RESTARTS CLOSING

2.4 - PHOTOCELL 1 AND PHOTOCELL 2 (N.C.)

+ = 24V --- MAX 500mA (CLAMP 12) CONNECTIONS: PH1 = PHOTOCELL 1 (CLAMP 7)

COM = 0V (CLAMPS 2 - 6 - 11)PH2 = PHOTOCELL 2 (CLAMP 8)

MANAGEMENT:

PHOTOCELL

98 **PHOTOCELL**

ullet **«FOTOTEST»** FUNCTION: CONNECT THE $\mathsf{TX} ext{-PHOTOCELL}$ POSITIVE CABLE ON CLAMP 10AND ENABLE THE «FOTOTEST» FUNCTION ON THE MENU 94; IT IS ALSO POSSIBLE TO CHOOSE WHICH PHOTOCELL TO TEST AMONG THE OPTIONS OF MENU 95

94 **24V AUX**

95 **PHOTOTEST**

DEFAULT SETTINGS: MENU 97 = «CLOSING»; MENU 98 = «OPENING AND CLOSING»

By connecting the power supply of the photocells to terminal 10 (AUX) and setting THE MENU 94 TO «IN CYCLE AND PHOTOTEST», THE PHOTOCELL IS TESTED AT EVERY START-UP AND THE ENERGY IS SAVED IN STAND-BY!



101**

SAFETY EDGE 2

103*

EDGE 2

DIRECTION



2.5 - 24V --- FLASHING LIGHT - MAX 3W

- CONNECT THE LAMP ON CLAMPS 12 AND 13
- GATE MOVEMENT SIGNALS:
- 1 BLINK/SECOND IN OPENING
- 2 BLINKS/SECOND IN CLOSING
- STEADY LIT DURING PAUSE

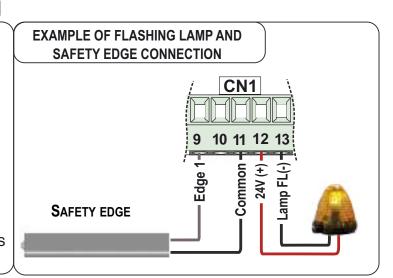
MANAGEMENT: MENU 86

86 FLASHING LIGHT

PRE-FLASHING FUNCTION: MENU 85

85 PRE-FLASHING

THE CONTROL UNIT SENDS THE WARNING SIGNALS THROUGH THE FLASHING LAMP; SEE CHAPTER 19



2.6 - SAFETY EDGE (N.C.)

- CONNECT THE SAFETY EDGE 1 ON CLAMPS 9 AND 11
- CHOICE OF THE SAFETY EDGE TYPE: MENU 100 (MENU 101**)
- DIRECTION MANAGEMENT: MENÙ 102 (MENÙ 103*)
- BALANCED OR 8K2 RESISTIVE SAFETY EDGE OPTIONS (SINGLE OR DOUBLE): CONTACT CONTROL THROUGH RESISTANCE VALUE FOR SHORT-CIRCUITS DETECTION (WITH ALARM ON DISPLAY)



100

SAFETY EDGE 1

102

EDGE 1
DIRECTION

A SECOND SAFETY EDGE CAN BE CONNECTED TO THE «PHOTOCELL 2» INPUT AND CAN BE ACTIVATED BY SETTING MENU 98 TO «SAFETY EDGE 2»



 st The direction of this second safety edge can be managed from menu 103

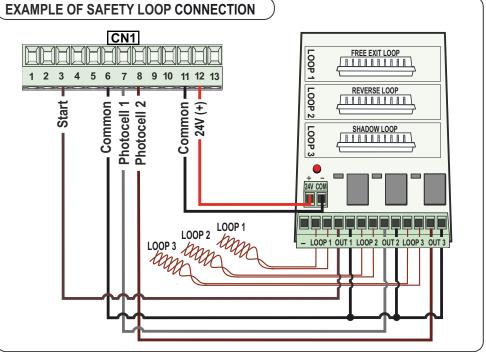
**Only on model «gate 1 dg R3BF» : choice of the safety edge type on menu 101

2.7 - SAFETY LOOP

- FREE EXIT LOOP (LOOP 1)
 - 3 = START (N.O.)
 - 6 = Common
- REVERSE LOOP (LOOP 2)
 - **7** = PHOTOCELL 1 (N.C.)
 - 6 = Common
- SHADOW LOOP (LOOP 3)
 - **8** = Photocell 2 (N.C.)
 - 6 = Common



⇒ Use the safety loop combined with the «ULTRA LOOP PLUG» (23105142)





2.8 - 10K PHOTOCELL SINGLE OR DOUBLE

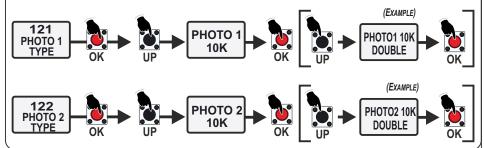
10K PHOTOCELLS ON «GATE 1 DG R2BF» and «GATE 1 DG R2EF»

- CONNECT PHOTOCELLS ON CLAMPS 9 11 12
- ONE OR TWO 10K PHOTOCELLS CAN BE CONNECTED;
 SET THE MENU 100 ON «SINGLE» OR «DOUBLE»



10K PHOTOCELLS ON «GATE 1 DG R3BF»

- CONNECT PHOTOCELLS ON CLAMPS 7 11 12 and 8 11 12
- UP TO FOUR 10K PHOTOCELLS CAN BE CONNECTED;
 SET THE MENUS 121 OR 122 ON «SINGLE» OR «DOUBLE»

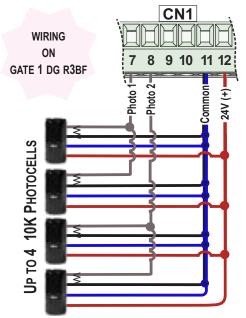


 ON ALL ELECTRONIC CONTROL UNIT MODELS, IT IS POSSIBLE TO SET THE DESIRED OPERATION MODE VIA THE «PHOTOCELL» MENUS 97
PHOTOCELL
1

98
PHOTOCELL

BY THE USE OF THE 10K PHOTOCELLS, A FURTHER PROTECTION IS GIVEN, EVEN IN THE EVENT OF A SHORT-CIRCUIT ON THE CABLES

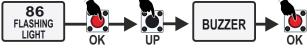
WIRING ON GATE 1 DG R2BF GATE 1 DG R2EF 10K PHOTOCELL 10K PHOTOCELL



2.9 - BUZZER 24V ==

- CONNECT THE BUZZER ON CLAMPS 12 and 13
- USE A 24V ☐ AND 100 dB OSCILLATING BUZZER
- THE BUZZER CAN BE CONNECTED INSTEAD OF THE FLASHING LIGHT;

HOWEVER, IT IS NECESSARY TO SET THE MENU AS «BUZZER»

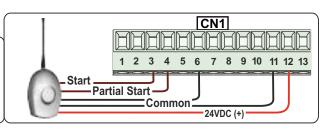


- THE BUZZER ACTIVATES AFTER 2 CONSECUTIVE INTERVENTIONS OF THE ANTI-CRUSHING PROTECTION
- PRESS THE STOP BUTTON TO TURN OFF THE BUZZER; ANYWAY, THE SOUND SWITCHES OFF AUTOMATICALLY AFTER 5 MINUTES AND THE OPERATOR REMAINS STOPPED WAITING FOR A NEW COMMAND

EXAMPLE OF 10K PHOTOCELL AND BUZZER CONNECTION CN1 7 8 9 10 11 12 13 BUZZER 10K PHOTOCELL +

2.10 - 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







OPENING AND

2.11 - LATCH OPENING OR LATCH CLOSING BUTTON

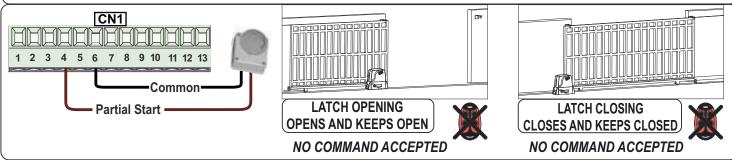
CONNECT ON CLAMPS 4 AND 6



THE «PARTIAL START» FUNCTION WILL BE DISABLED

- Management: set the desired operation mode on menu 118
- To disable the Latch function, press again the activation command
- ightharpoonup The Latch function can be also enabled on the second channel of the transmitter;

SEE THE PARAGRAPH 18.4 FOR MORE DETAILS



118

LATCH

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

92 TIMER

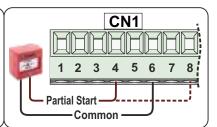
- ullet Connect the timer to the clamp 4 «partial start» or to the 8 «photocell 2»
- IF CONNECTED ON THE «PARTIAL START», THIS COMMAND WILL BE DISABLED (ON TRANSMITTERS TOO)
- THE TIMER OPENS AND KEEPS THE GATE OPEN UNTIL ENGAGED; WHEN RELEASED, THE GATE CLOSES ONLY AFTER THE PRE-SET PAUSE TIME HAS ELAPSED.
- In the event of a safety accessory intervention, the timer resets automatically after 6 sec.
- 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

2.13 - «FIRE SWITCH» FUNCTION

- THE EMERGENCY FIRE-SWITCH CAN BE CONNECTED ON «PARTIAL START» OR «PHOTOCELL 2» INPUTS
- THE FIRE-SWITCH WORKS IN «DEAD MAN» MODE AND IT DISABLES ALL
 THE SAFETY DEVICES WHEN IN USE.
- THE «FIRE SWITCH» FUNCTION CAN BE ENABLED THROUGH MENU 93

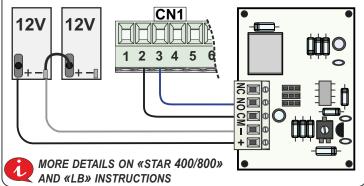




2.14 - EMERGENCY BATTERY CONNECTION VIA «LB» CIRCUIT

- THE **«STAR 400/800»** EMERGENCY BATTERY PACK CAN BE CONNECTED THROUGH THE MANAGEMENT UNIT **«LB»**
- THE **«LB»** MANAGEMENT UNIT CONTROLS THE CHARGE OF THE BATTERIES AND ALLOWS ONE LAST OPERATION BEFORE THE BATTERIES ARE COMPLETELY DISCHARGED
- THE LAST OPERATION CAN BE IN OPENING OR IN CLOSING; ON MENU 113 YOU CAN SET THE DESIRED OPTION





IN CASE OF POWER FAILURE, THE LAST EMERGENCY
OPERATION IS PERFORMED AS SOON AS THE BATTERY
CHARGE DROPS BELOW 22V



2.15 - 24V --- DC AUX INPUT OPTIONS - CLAMP 10 - MAX 500mA

 MANAGEMENT: ON MENU 94 CHOOSE HOW TO HAVE VOLTAGE ON THE AUX INPUT, ACCORDING TO THE TYPE OF ACCESSORY YOU CONNECT





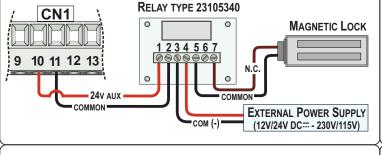
CONNECT THE ACCESSORY ONLY AFTER SETTING THE MENU 94 ON THE DESIRED OPTION!

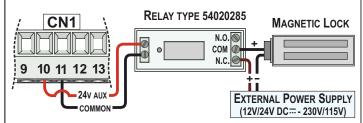
• A RELAY CAN BE CONNECTED TO THE 24VAUX INPUT; THE RELAY ALLOWS THE CONNECTION AND THE MANAGEMENT OF ADDITIONAL ACCESSORIES (COURTESY LIGHT, LOCKS ETC.); SOME EXAMPLES BELOW, INCLUDING THE MENU 94 SETTINGS

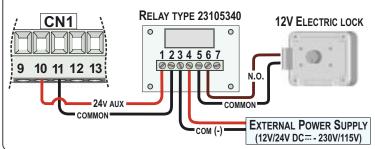
MAGNETIC LOCK OR 12V ELECTRIC LOCK CONNECTION - BY THE USE OF TWO DIFFERENT RELAY MODELS

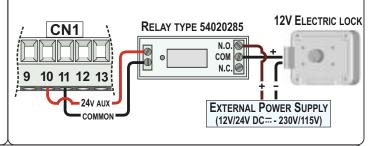
To use the magnetic lock or the 12V electric lock (max 3A or 15W), set the menu 94 on «lock»









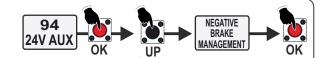


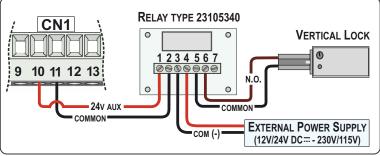
THE **"PUSHING STROKE"** OPTION SIMPLIFIES THE LOCK RELEASE BY GIVING A LITTLE PUSHING STROKE BEFORE STARTING MOVEMENT

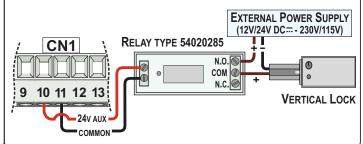


VERTICAL LOCK CONNECTION - BY THE USE OF TWO DIFFERENT RELAY MODELS

TO USE THE VERTICAL LOCK SET THE MENU 94 ON «NEGATIVE BRAKE MANAGEMENT» (24VAUX INPUT POWERED DURING THE CYCLE AND 1 SECOND BEFORE STARTING)





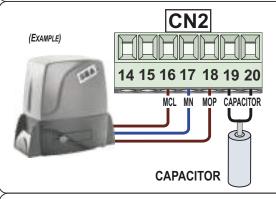






3 - CONNECTION ON CN2

3.1 - MOTOR CONNECTION ON THE CONTROL UNIT



MOTOR 1 (230V)

= MCL - M1 CLOSING 16

17 = MN - M1 NEUTRAL (BLUE) *

= MOP - M1 OPENING 18

19 - 20 = CAPACITOR

WHITE → 115V

OPERATOR FOR SLIDING GATE ONLY AS EXAMPLE

ACCORDING TO THE MODEL OF OPERATOR IN USE, SET THE MENU 3 ON THE CORRECT TYPE



3.2 - THREE-PHASE MODULE CONNECTION

THREE-PHASE MODULE **MAIN PARTS**

CN1 = 220V POWER SUPPLY

CN2 = 380V MOTOR

SFT1 = EARTH GROUNDING FASTON

= 230V~16A CONTACTOR K1

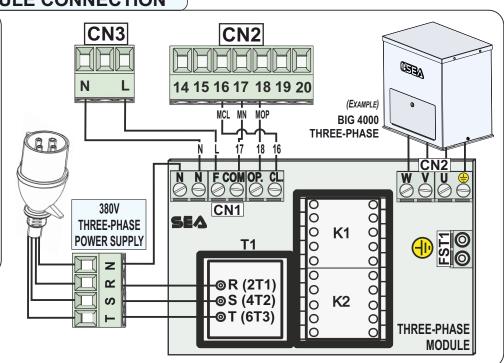
K2 = 230V~16A CONTACTOR

= THERMAL WITCH T1

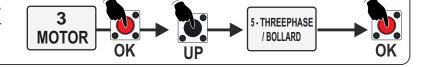
* T1 INTERVENTION THRESHOLD

3.7A → BIG THREE-PHASE

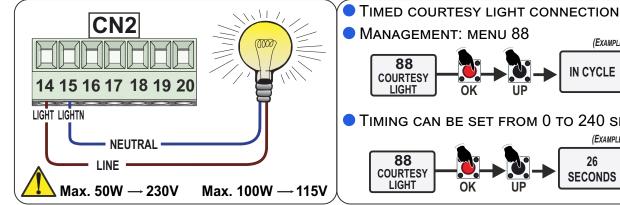
1.8A → LEPUS THREE-PHASE



FOR THE USE OF THREE-PHASE OPERATORS WITH THREE-PHASE MODULE, IT IS NECESSARY TO SET MENU 3 ON «THREE-PHASE/BOLLARD»



3.3 - COURTESY LIGHT CONNECTION



(EXAMPLE) IN CYCLE

Timing can be set from 0 to 240 seconds

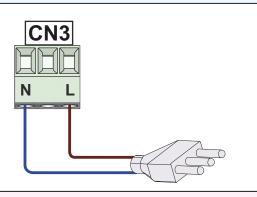




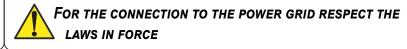


4 - POWER SUPPLY CONNECTION ON CN3

4.1 - CONTROL UNIT POWER SUPPLY



- Fuse 16AT delayed on 230V~ power supply
 Fuse 16AT delayed on 115V~ power supply
- Use a 10A differential switch to protect the power supply system
- In case of unstable power supply, the use of an external UPS of min.800VA is recommended

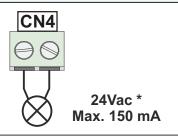




THE CONTROL UNIT MUST BE POWERED ONLY AFTER ALL THE WIRINGS HAVE BEEN COMPLETED!

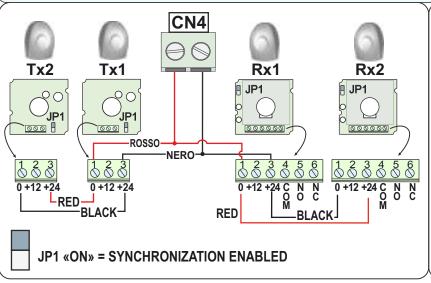
5 - CONNECTION ON CN4

5.1 - 24VAC CONNECTOR (MAX 150 mA)



THE ELECTRONIC UNIT IS EQUIPPED WITH A 24VAC CONNECTOR, WITH A MAXIMUM LOAD OF 150 mA, FOR CONNECTING 24V ACCESSORIES SUCH AS THE EXTERNAL RECEIVER, THE EXTERNAL POWER SUPPLY OR ADDITIONAL PHOTOCELLS, ETC ..

5.2 - SYNCHRONIZED PHOTOCELLS CONNECTIONS



- WIRING DIAGRAM FOR ONE OR TWO COUPLE OF SYNCHRONIZED PHOTOCELLS ON CN4 (24Vac max. 150 mA)
- SET THE DESIRED OPERATION MODE VIA THE MENUS «PHOTOCELL»

97 PHOTOCELL

98 PHOTOCELL 2

FOR MORE DETAILS ON SYNCHRONIZED PHOTOCELLS, SEE THE RELATIVE TECHNICAL INSTRUCTION



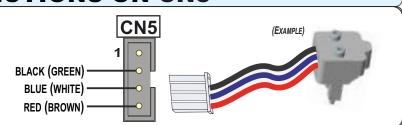


6 - CONNECTIONS ON CN5

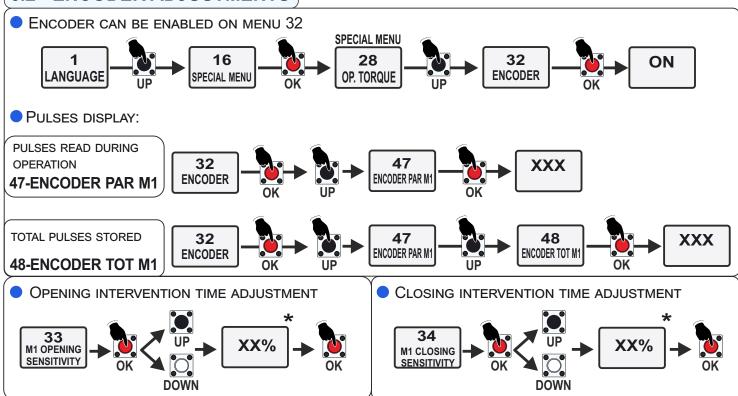
6.1 - ENCODER CONNECTION

 CONNECT THE ENCODERS ON CN5; RESPECT THE CABLE COLORS:

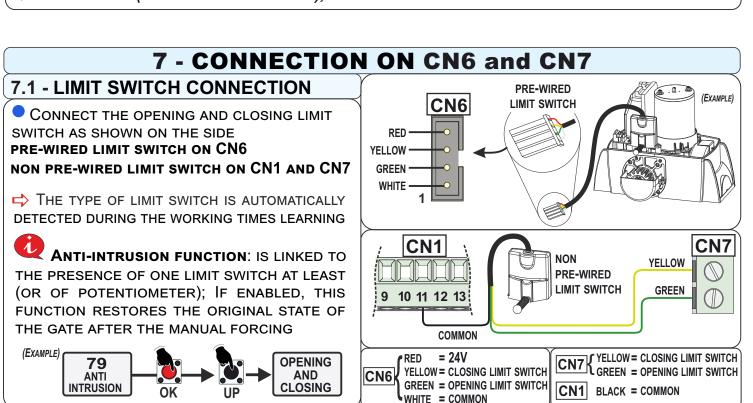
OLD MODEL → BROWN - WHITE - GREEN NEW MODEL → RED - BLUE - BLACK



6.2 - ENCODER ADJUSTMENTS



- \star Settable values: minimum 10% (rapid intervention) maximum 99% (slow intervention)
- ⇒ If set to OFF (intervention excluded), the encoder only detects the position







8 - CONNECTION ON CMS

8.1 - «PRIMARY/SECONDARY» (MASTER/SLAVE) CIRCUITS

PRIMARY/SECONDARY MODE: TO MANAGE 2 OPERATORS (EX. OPPOSITE BARRIERS OR BOLLARDS)
 HAVING EACH ONE ITS CONTROL UNIT

- Connection via CMS connector
- MANAGEMENT:

105 PRIMARY SECONDARY

SET A CONTROL UNIT AS «PRIMARY» AND THE OTHER AS «SECONDARY»

CONNECT ALL ACCESSORIES ON THE «PRIMARY» CONTROL UNIT.

THE «SECONDARY» CONTROL UNIT ONLY ALLOWS THE MANAGEMENT OF THE FOLLOWING MENUS:

1-LANGUAGE 3-MOTOR

5-REVERSE MOTOR

14-RESET

28-MOTOR 1 OPENING TORQUE 29-MOTOR 1 CLOSING TORQUE

32-ENCODER

33-MOTOR 1 OPENING SENSITIVITY

34-MOTOR 1 CLOSING SENSITIVITY

37-SLOWDOWN SENSITIVITY

47-MOTOR 1 PARTIAL ENCODER

48-MOTOR 1 TOTAL ENCODER

59-MOTOR 1 SLOWDOWN IN OPENING

60-MOTOR 1 SLOWDOWN IN CLOSING

63-DECELERATION

64-ACCELERATION

65-MOTOR 1 OPENING TIME

66-MOTOR 1 CLOSING TIME

70-POSITION RECOVERY IN OPENING

71-POSITION RECOVERY IN CLOSING

72-MOTOR 1 TOLERANCE IN OPENING

73-MOTOR 1 TOLERANCE IN CLOSING

76-PUSHING STROKE

83-EXTRA TIME

86-FLASHING LIGHT

88-COURTESY LIGHT

94-24V AUX (NO AUTOTEST FUNCTION)

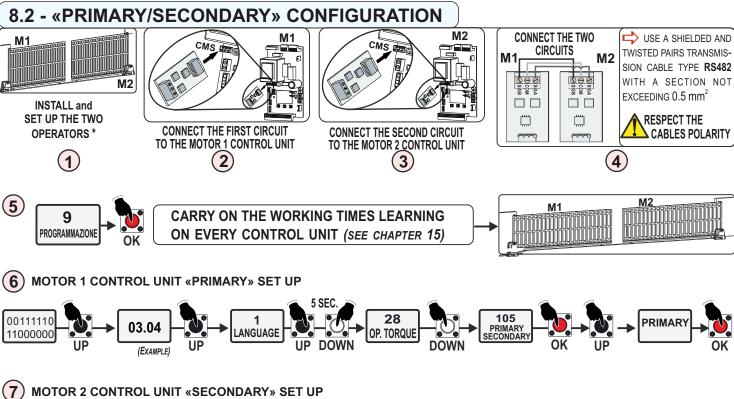
M2 - SECONDARY

M1 - PRIMARY

104-SELECT LIMIT SWITCH

106-DIAGNOSTICS

112-PASSWORD



MOTOR 2 CONTROL UNIT «SECONDARY» SET UP





ONCE THE INDIVIDUAL CONTROL UNITS HAVE BEEN CONFIGURED,
TURN THEM OFF AND RESTART, THEN GIVE A «START» COMMAND
TO THE «PRIMARY» CONTROL UNIT

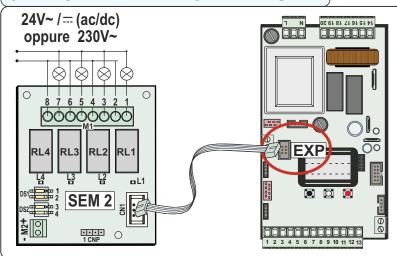
* Install and set up the two operators as if they were two independent installations. Check the correct functioning and the correct reading of the limit switches, if installed.





9 - COLLEGAMENTI SU EXP

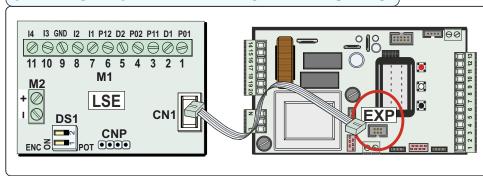
9.1 - «SEM 2» MANAGEMENT UNIT



- THE **SEM 2** ACCESSORIES MANAGEMENT UNIT ALLOWS YOU TO CONNECT AND MANAGE THE FOLLOWING ADDITIONAL ACCESSORIES:
 - TRAFFIC LIGHT
 - COURTESY LIGHT
 - VERTICAL ELECTRIC LOCK
 - POSITIVE OR NEGATIVE ELECTRIC BRAKE
- SEM2 MANAGES THE STATUS OF THE LIMIT SWITCHES TO ALLOW THE CONNECTION OF ACCESSORIES WHICH ACTIVATION DEPENDS ON THE LIMIT SWITCH STATUS
- i

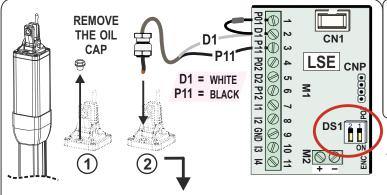
MORE DETAILS ON SEM 2 INSTRUCTIONS

9.2 - «LSE» or «LE» MANAGEMENT UNITS



- THE LSE (OR LE) MANAGEMENT CIRCUITS ALLOW YOU TO CONNECT AND MANAGE DIFFERENT ADDITIONAL ACCESSORIES, SUCH AS THE TEMPERATURE PROBE OR THE POTENTIOMETER
- MORE DETAILS ON LSE
 (OR LE) INSTRUCTIONS

9.3 - TEMPERATURE PROBE CONNECTION VIA «LSE» or «LE»



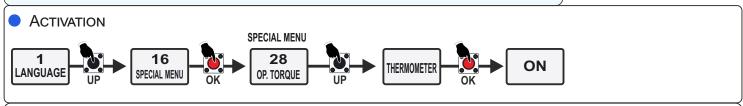
- ON THE SIDE
- THE PROBE DETECTS THE OIL TEMPERATURE; IF IT FALLS BELOW THE SET THRESHOLD, THE PROBE ACTIVATES THE HEATING, RETURNING THE VALUES TO THE ESTABLISHED RANGE
- ON «DS1» ADJUST BOTH DIP-SWITCHES TO «OFF»

DIP SWITCH 1 = OFF DIP SWITCH 2 = OFF

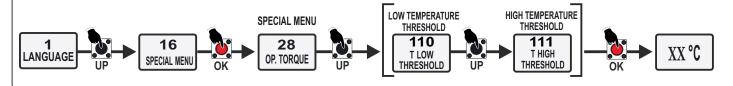


SCREW THE TEMPERATURE PROBE TO REPLACE THE OIL CAP

9.4 - ACTIVATION AND SETTING OF THE TEMPERATURE PROBE

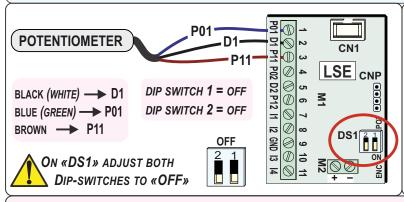


SETTING OF HIGH AND LOW TEMPERATURE THRESHOLDS TO ENABLE/DISABLE THE OIL HEATING





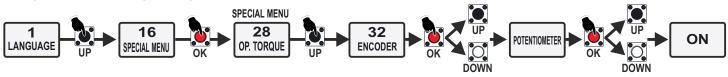
9.5 - «POSITION GATE» LINEAR POTENTIOMETER CONNECTION VIA «LSE» or «LE»



- CONNECT THE **(POSITION GATE)** LINEAR **POTENTIOMETER** FOR MANAGING THE CORRECT POSITION OF THE GATE AND THE INVERSION ON OBSTACLES, AS SHOWN ON THE SIDE
- RESPECT THE CABLE COLORS

 OLD MODEL → BROWN GREEN WHITE

 NEW MODEL → BROWN BLUE BLACK
- FOR DISTANCES OF MORE THAN 2m, CONNECT A 3-POLE SHIELDED CABLE AND WIRE THE SHIELD ON THE COMMON
- TO ENABLE THE POTENTIOMETER:



9.6 - CONFIGURAZIONE POTENZIOMETRO «POSITION GATE»

POTENTIOMETER SUBMENU: (MENU 51) MOTOR PARTIAL IMPULSES DISPLAYS THE OPERATOR CURRENT POSITION

POTENTIOMETER OK UP STATE OK XX

POTENTIOMETER SUBMENU: (MENU 52) MOTOR IMPULSES IN OPENING DISPLAYS PULSES WHEN THE LEAF

IS COMPLETELY OPEN AND GIVES THE POSSIBILITY OF INCREASING OR DECREASING THE TOTAL PULSES



• POTENTIOMETER SUBMENU: (MENU 53) MOTOR IMPULSES IN CLOSING DISPLAYS PULSES WHEN THE LEAF

IS COMPLETELY CLOSED AND GIVES THE POSSIBILITY OF INCREASING OR DECREASING THE TOTAL PULSES



THE **"POTENTIOMETER DIRECTION"** ALARM APPEARS ON THE DISPLAY IF THE POTENTIOMETER READING IS INVERTED IN RESPECT TO THE DIRECTION OF MOVEMENT (SEE CHAPTER 19); SWAP THE BROWN WIRE WITH THE BLUE (OR GREEN) WIRE AND REPEAT THE PROGRAMMING

9.7 - ACCESS TO THE HIDDEN «DEBUG» MENU FOR POTENTIOMETER

TO DISPLAY THE INSTANTANEOUS SPEED VALUE DETECTED **«VP1»**; KNOWING THIS VALUE ALLOWS YOU TO ADJUST THE INTERVENTION THRESHOLDS OF THE POTENTIOMETER IN OPENING, CLOSING AND DECELERATION (SEE NEXT PARAGRAPH). **THE THRESHOLDS MUST ALWAYS BE ADJUSTED TO A VALUE GREATER THAN THE «VP1» VALUE**

FOR MORE DETAILS ON THE DISPLAY, SEE CHAPTER 12

OK

VP 1

OK

XXX





9.8 - «POSITION GATE» POTENTIOMETER PARAMETERS ADJUSTMENT

 SENSITIVITY PARAMETERS IN OPENING AND CLOSING FOR POTENTIOMETER INTERVENTION TIME ADJUSTMENT

FOR A QUICK REVERSE ON OBSTACLE DECREASE THE SENSITIVITY



 $m{\psi}$ Set to OFF (intervention excluded): the potentiometer only detects the impulses (does not reverse on obstacle)

 SLOWDOWN SENSITIVITY PARAMETER FOR ADJUSTMENT OF THE INVERSION TIME DURING THE SLOW DOWN

FOR A QUICK REVERSE ON OBSTACLE DECREASE THE SENSITIVITY

SLOW DOWN SENSITIVITY

OK

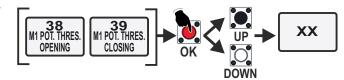
UP

XX

DOWN

POTENTIOMETER INTERVENTION THRESHOLD ADJUSTMENT IN OPENING AND CLOSING

THE LOWER THE THRESHOLD, THE GREATER THE FORCE REQUIRED FOR THE INVERSION



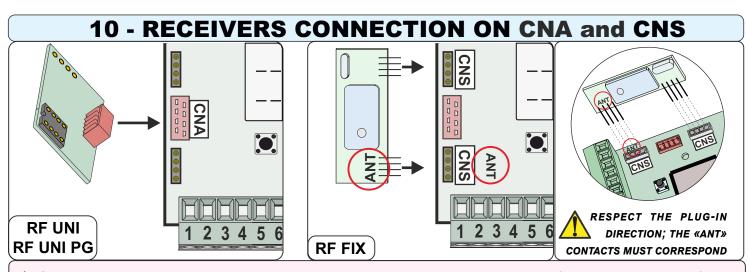
POTENTIOMETER INTERVENTION THRESHOLD ADJUSTMENT (INTERVENTION DURING THE SLOWDOWN IN OPENING AND SLOWDOWN IN CLOSING)

THE LOWER THE THRESHOLD, THE GREATER THE FORCE REQUIRED FOR THE INVERSION



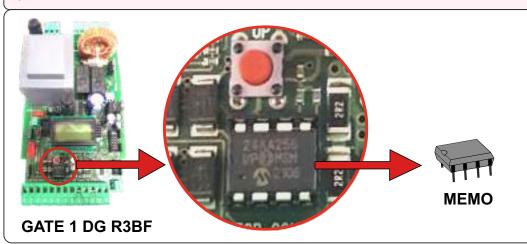
i

TO ADJUST THE THRESHOLD VALUES, FIRST CHECK THE «VP1» VALUE (SEE PARAGRAPH 9.7)



ON THE MODEL «GATE 1 DG R2EF» THE «RF FIX» RECEIVER IS STANDARD (WELDED ON BOARD)

THE «GATE 1 DG R3BF» MODEL IS DESIGNED FOR THE PLUG-IN OF THE «MEMO» ADDITIONAL MEMORY



THE **«MEMO»** ADDITIONAL MEMORY ALLOWS YOU TO STORE UP TO 496 USERS IF USED WITH **RF FIX** RECEIVER (WHICH WOULD ONLY ALLOW THE STORING OF MAX. 16 USERS WITHOUT ADDITIONAL MEMORY)





11 - ADDITIONAL FUNCTIONS

11.1 - AMPEROMETRIC MANAGEMENT - ONLY FOR ELECTROMECHANIC OPERATORS with GATE 1 DG R2B

- OBSTACLE DETECTION SYSTEM WITH INVERSION BOTH IN OPENING AND CLOSING
- SET THE MENU 37 ON A VALUE DIFFERENT FROM OFF (BY DEFAULT) TO ENABLE THE FUNCTION



THE GREATER THE VALUE, THE GREATER THE AMPEROMETRIC INTERVENTION DELAY

● TORQUE PARAMETERS SETTING IN OPENING AND CLOSING FOR ADJUSTMENT OF THE INVERSION FORCE ON OBSTACLE

THE GREATER THE TORQUE, THE GREATER
THE FORCE REQUIRED FOR THE INVERSION



 Sensitivity parameters in opening and closing for the amperometric intervention time adjustment

FOR A QUICK REVERSE ON OBSTACLE DECREASE THE SENSITIVITY



IF SET TO OFF (INTERVENTION EXCLUDED) THE AMPEROMETRIC MANAGEMENT WILL ONLY WORK ACCORDING TO THE MENU 37 SETTINGS

11.2 - AMPEROMETRIC INTERVENTION METHOD

 CHOICE BETWEEN TOTAL OR PARTIAL RECLOSING AFTER THE AMPEROMETRIC INTERVENTION (MENU 46)

46 CLOSING INVERSION

→ When the menu 46 is set on «total» and the menu 7 is different from OFF, the <u>«automatic reclosing» function</u> automatically enables: in the event of obstacle the operator tries to reclose up to 5 times, then a new START command will be required to restore the motion.

7 TIMER TO CLOSE

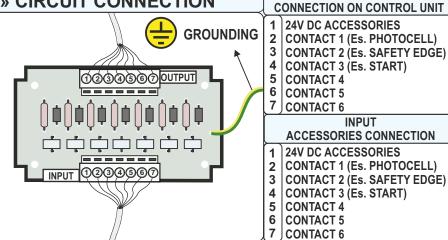
OUTPUT

AFTER A POWER FAILURE, THE FIRST CYCLE WILL BE PERFORMED AT PRE-SET SPEED TO DETECT THE MECHANICAL STOPS

11.3 - «I/O SURGE PROTECTOR» CIRCUIT CONNECTION

- TO PROTECT UP TO 6 INPUTS AND THE 24V POWER SUPPLY FROM TEMPORARY OVERLOADS (ES. LIGHTNING STRIKES)
- CONNECT THE 24VDC CABLE AND THE ACCESSORIES CABLES ON INPUT; CONNECT THE CORRESPONDING CABLES FROM OUTPUT TO THE CONTROL UNIT

CONNECT THE NEGATIVE AND THE COMMON CABLES FROM THE MAIN POWER SUPPLY TO THE CONTROL UNIT





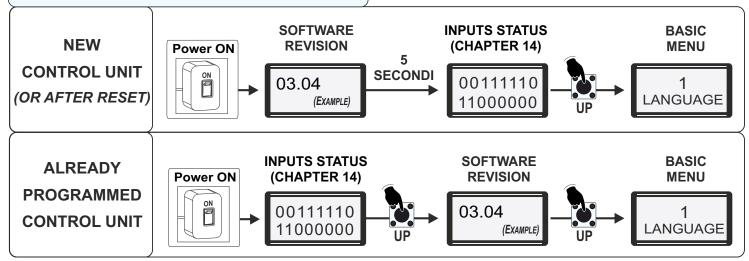


12 - DISPLAY and PROGRAMMING



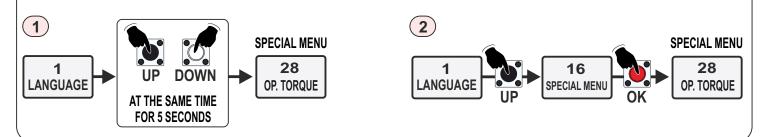
CONNECT ALL THE ACCESSORIES WHEN THE CONTROL UNIT IS SWITCHED OFF!
AFTER ALL CONNECTIONS HAVE BEEN MADE, POWER ON THE UNIT FOR SETTINGS

12.1 - POWER ON THE CONTROL UNIT



12.2 - 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 SEE THE QUICK START ON THE NEXT PARAGRAPH
- 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 MODEL OF OPERATOR** IN USE AND OTHER NECESSARY OPTIONS. ONCE THE MODEL HAS BEEN CHOSEN, ALL THE SPECIAL MENUS ARE AUTOMATICALLY SET TO THE DEFAULT VALUES USEFUL FOR THE SELECTED OPERATOR, SO FURTHER SETTINGS MAY NOT BE NECESSARY



13 - BASIC MENU **RETURN TO ENGLISH LANGUAGE** THE MAIN MENU ΩK UP UP SKIP THIS STEP IF YOU DO NOT NEED TO PROGRAM THE TX **RETURN TO** * READ THE THE MAIN MENU CHAPTER 18 PRESS ON THE TX 2 **PRESS** START **STORED** THE BUTTON BEFORE TRANSMITTERS **BUTTON** PRESS THE BUTTON **TO STORE PROGRAMMING** TO STORE ON THE **NEXT TX** TRANSMITTERS **IF THIS CHECK THE CONNECTION** MISSING **MESSAGE** OF THE RECEIVER RECEIVER **APPEARS** ** ONCE YOU SET THE TYPE OF OPERATOR, ALL THE SPECIAL **CHOOSE THE TYPE RETURN TO** MENU PARAMETERS AUTOMATICALLY SET TO THE DEFAULT VALUES MOTOR THE MAIN MENU OF OPERATOR OK USEFUL FOR THAT MODEL. ANYWAY SETTINGS CAN BE CHANGED SET TO «ON» TO REVERSE THE **RETURN TO** REVERSE **RUNNING DIRECTION OF THE MOTOR** THE MAIN MENU MOTOR Ö UP 6 **RETURN TO CHOOSE THE DESIRED LOGIC LOGIC** THE MAIN MENU ΩK **RETURN TO** SET THE PAUSE TIME BEFORE THE SKIP THIS STEP TO WORK TIMER TO THE MAIN MENU AUTOMATIC RECLOSING OF THE GATE IN SEMI-AUTOMATIC LOGIC **CLOSE** OK **ENABLE OR DISABLE RETURN TO** START IN PAUSE BY SETTING «ON» OR «OFF» THE MAIN MENU OK THE GATE PERFORMS THE SET TO «ON» TO START THE **RETURN TO PROGRAM FOLLOWING CYCLE: WORKING TIMES LEARNING** THE MAIN MENU MING **CLOSE - OPEN - CLOSE OK** OK <u>10</u> **RETURN TO** SKIP THIS STEP IF A TX HAS **SET TO «ON» TO START** STARTING OF TEST THE MAIN MENU THE TEST CYCLE **ALREADY BEEN STORED** A TEST CYCLE START OK Ö 13 **RETURN TO** MENU AVAILABLE ONLY FOR **SET TO «ON» TO ENABLE ATCH** THE MAIN MENU MODEL «GATE 1 DG R3BF» THE FUNCTION **PAUSE** OK HOLD PRESSED UP HOLD «UP» PRESSED TO START A 5 SECONDS COUNT-DOWN; RESET AT THE END, THE «INIT» MESSAGE APPEARS TO CONFIRM THE RESET **OK** UP UP HOLD PRESSED TO OPEN THE GATE MENU AVAILABLE ONLY FOR MOVE MODEL «GATE 1 DG R3BF» **GATE** HOLD PRESSED TO CLOSE THE GATE QUIT THE BASIC MENU. 15 **SPECIAL** TO ACCESS THE SPECIAL MENU **END BACK TO THE INPUTS STATUS DISPLAY**

MENU





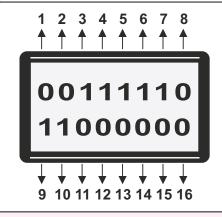
14 - INPUTS STATUS MANAGEMENT

- EVERY INPUT CORRESPONDS TO A POSITION ON THE DISPLAY, ACCORDING TO THE DIAGRAM BELOW
- EVERY INPUT CAN BE: NORMALLY OPEN (0) NORMALLY CLOSED (1)

0 N.O. - NORMALLY OPEN

1

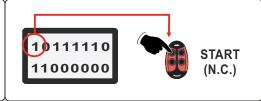
N.C. - NORMALLY CLOSED



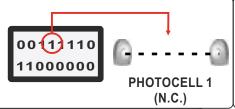
- 1 START (*)
 2 PARTIAL START
- з ѕтор
- 4 PHOTOCELL 1
- 5 PHOTOCELL 2 6 SAFETY EDGE 1
- 7 SAFETY EDGE 2
- 8 NOT IN USE

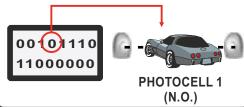
- MOTOR 1 OPENING LIMIT SWITCH
- 10 MOTOR 1 CLOSING LIMIT SWITCH
- 11 NOT IN USE
- 12 NOT IN USE
- 13 NOT IN USE
- 14 NOT IN USE
- 15 NOT IN USE
- 16 NOT IN USE
- * If a TIMER is connected to the START input, it keeps the contact normally closed; in this case the display will show «T» on position n° 1
- EXAMPLE: IF YOU GIVE A «START» COMMAND, ITS INPUT SWITCHES FROM NORMALLY OPEN TO NORMALLY CLOSED



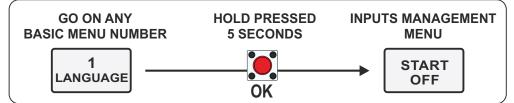


EXAMPLE: IF YOU PASS BY THE PHOTOCELL, ITS INPUT SWITCHES FROM NORMALLY CLOSED TO NORMALLY OPEN





14.1 - ACCESS TO THE INPUTS MANAGEMENT MENU



THE «INPUTS MANAGEMENT MENU» SHOWS THE INPUTS IN THEIR CURRENT STATUS: ON OR OFF

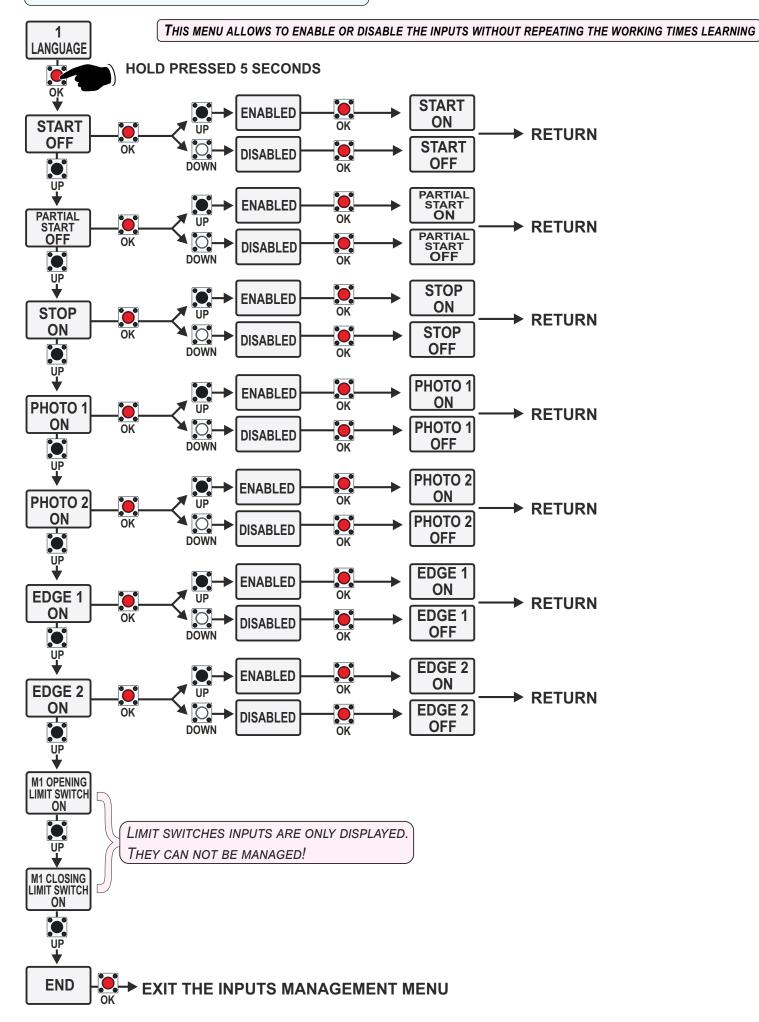
(EXAMPLE) START OFF

(EXAMPLE) STOP ON

- ullet Inside the «inputs management menu» it is possible to enable or disable the inputs; *par. 14.2*
- START E PARTIAL START ARE NORMALLY OPEN (N.O.) CONTACTS
- IF **«ON»** APPEARS ON THE DISPLAY WHEN THEY ARE ACTIVATED, THE INPUTS WORK
- IF «OFF» IS DISPLAYED EVEN AFTER THE COMMAND ACTIVATION, THEN IT IS ADVISABLE TO CHECK THE WIRINGS
- ALL OTHER CONTACTS ARE NORMALLY CLOSED (N.C.)
- IF **«OFF»** APPEARS ON THE DISPLAY WHEN THEY ARE ACTIVATED, THE INPUTS WORK
- IF «ON» IS DISPLAYED EVEN AFTER THE COMMAND ACTIVATION, THEN IT IS ADVISABLE TO CHECK THE WIRINGS
- THE LIMIT SWITCHES INPUTS CANNOT BE MANAGED, BUT ONLY DISPLAYED IN THEIR CURRENT STATE (ON OR OFF)



14.2 - 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.)
- ightharpoonup Do not jumper the inputs not in use (limit switch, safety edge, etc.)

15.1 - QUICK START - ONLY FOR SEA SLIDING OPERATORS

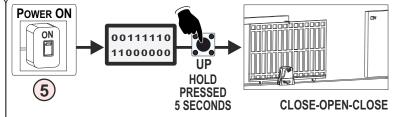
THE CONTROL UNIT ON BOARD THE SLIDING OPERATORS IS PRE-SET BY DEFAULT (MODEL AND PARAMETERS) TO ALLOW THE QUICK START



MOVE THE GATE ON ITS HALFWAY BEFORE STARTING!

SEE PARAGRAPH 15.7 FROM POINT (1) TO (5)





15.2 - WORKING TIMES LEARNING BY LIMIT SWITCH

- WORKING TIMES LEARNING THROUGH AUTOMATIC DETECTION OF THE LIMIT SWITCHES
- CHECK ON THE INPUT MANAGEMENT MENU (CHAPTER 14) THAT THE CORRECT LIMIT SWITCH IS ENGAGED FOR EACH MOVEMENT DIRECTION
- START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN PARAGRAPH 15.7

F THE MOTOR STARTS CLOSING, REACHES THE LIMIT SWITCH LEVER AND STOPS, THEN SWAP THE LIMIT SWITCH CABLES AND REPEAT THE LEARNING PROCEDURE;

IF THE MOTOR STARTS OPENING, REACHES THE LIMIT SWITCH LEVER AND STOPS, THEN SWAP THE MOTOR CABLES AND REPEAT THE LEARNING PROCEDURE

15.3 - WORKING TIMES LEARNING BY ENCODER

- Working times learning through automatic detection of the pulses
- CHECK THE ENCODER ACTIVATION ON THE MENU 32

ENCODER IF NECESSARY, CHECK THE CORRECT PULSES READING VIA THE SUB-MENUS 48 **ENCODER TOT M1** ENCODER PAR M1

33 M1 OPENING

SENSITIVITY

- 47 AND 48 (PARAGRAPH 6.2)
- ullet If necessary, adjust the sensitivity parameters via the menus 33 and 34 (PARAGRAPH 6.2)
- START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN PARAGRAPH 15.7

15.4 - WORKING TIMES LEARNING BY POTENTIOMETER

- WORKING TIMES LEARNING THROUGH AUTOMATIC DETECTION OF THE PULSES
- ENABLE THE POTENTIOMETER ON THE MENU 32 (PARAGRAPH 9.5)

POTENTIOMETER ENCODER

51

I. PAR. M1

SENSITIVITY

IF NECESSARY, CHECK THE CORRECT PULSES READING VIA THE SUB-MENUS 51 - 52 - 53 (PARAGRAPH 9.6)

M1 OPENING

I. AP. M1 34

M1 CLOSING

SENSITIVITY

52

I. CH. M1 37

SLOW DOWN

53

34 M1 CLOSING

SENSITIVITY

- If necessary, adjust the sensitivity parameters (paragraph 9.8)
- START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN PARAGRAPH 15.7
- At the end of the learning procedure by potentiometer, the gate carries out the following cycle: CLOSE - OPEN - CLOSE - SLOWDOWN OPENING - SLOWDOWN CLOSING

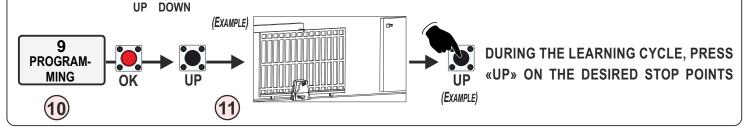




UP DOWN

15.5 - WORKING TIMES LEARNING BY PULSES DETECTION - WITH POTENTIOMETER

- WORKING TIMES LEARNING THROUGH AUTOMATIC DETECTION OF THE PULSES AND POSSIBILITY TO CHOOSE THE GATE POINTS OF STOP
- ENABLE THE POTENTIOMETER AND CARRY OUT ALL THE CHECKS MENTIONED IN THE PARAGRAPH 15.4
- START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN **PARAGRAPH 15.7**, UP TO THE POINT 11. DURING THE LEARNING CYCLE, GIVE A MANUAL IMPULSE ON EACH DESIRED LEAF STOP POINT, USING THE KEYS OR BY GIVING A «START» COMMAND



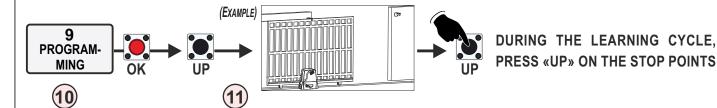
15.6 - WORKING TIMES LEARNING BY PULSES DETECTION - WITHOUT POTENTIOMETER

WORKING TIMES LEARNING THROUGH MANUAL PULSES ON THE GATE POINTS OF STOP

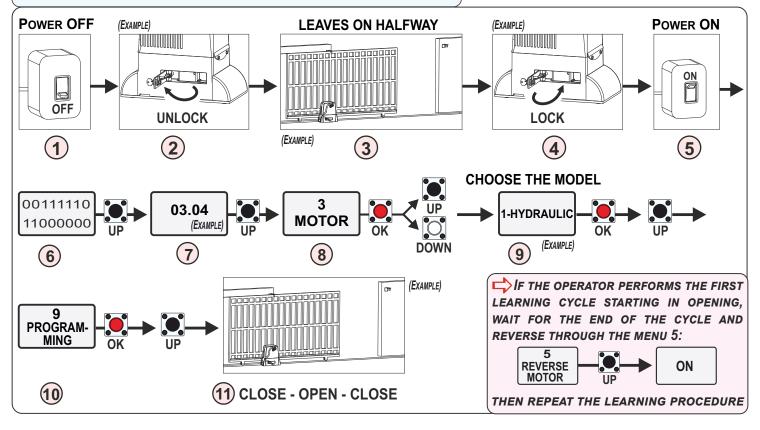
■ IF NECESSARY, MAKE THE DESIRED PARAMETERS ADJUSTMENTS INSIDE THE SPECIAL MENU

16 SPECIAL MENU

START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN **PARAGRAPH 15.7**, UP TO THE POINT 11. DURING THE LEARNING CYCLE, GIVE A MANUAL IMPULSE ON EACH LEAF STOP POINT, USING THE KEYS OR BY GIVING A «START» COMMAND



15.7 - WORKING TIMES LEARNING PROCEDURE







16 - LOGICS

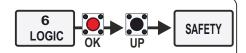


THE DEFAULT LOGIC IS «AUTOMATIC», ANYWAY IT CAN BE CHANGED BUT ONLY AFTER THE WORKING TIMES LEARNING!

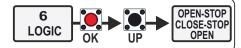
SEMI-AUTOMATIC LOGIC: AUTOMATICALLY SET WHEN THE MENU 7 IS «OFF» (AUTOMATIC RECLOSING DISABLED)



- OPERATION: A START COMMAND OPENS THE GATE; ANOTHER START COMMAND CLOSES; IN SEMI-AUTOMATIC LOGIC, THE AUTOMATIC RECLOSING IS ALWAYS DISABLED.
- THIS LOGIC MATCHES WITH OTHER LOGICS, KEEPING THE AUTOMATIC RECLOSING DISABLED
- AUTOMATIC LOGIC: PRE-SET BY DEFAULT. ANYWAY IT CAN BE MANUALLY ENABLED THROUGH THE MENU 6 OR THROUGH THE MENU 7 BY SETTING A PAUSE TIME DIFFERENT THAN 0 AND UP TO 240 SECONDS (IT ALSO ENABLES THE AUTOMATIC RECLOSING)
- **AUTOMATIC LOGIC** (EXAMPLE) 20 **SECONDS** ON
- THROUGH THE MENU 8 IT IS POSSIBLE TO CHOOSE IF A START COMMAND GIVEN DURING THE PAUSE TIME IS ACCEPTED OR NOT
- ullet Operation: a ${\sf START}$ command opens the gate; another ${\sf START}$ command during the opening IS NOT ACCEPTED: A START COMMAND DURING THE CLOSING REVERSES THE MOVEMENT
- SAFETY LOGIC: A START COMMAND OPENS THE GATE; ANOTHER START COMMAND DURING THE OPENING REVERSES THE MOVEMENT A START COMMAND DURING THE CLOSING REVERSES THE MOVEMENT



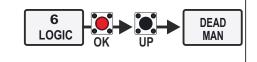
STEP BY STEP TYPE 1: THE START COMMAND FOLLOWS THE LOGIC: OPEN - STOP - CLOSE - STOP - OPEN



STEP BY STEP TYPE 2: THE START COMMAND FOLLOWS THE LOGIC: OPEN - STOP - CLOSE - OPEN



DEAD MAN LOGIC: THE GATE OPENS AS LONG AS THE START COMMAND IS HELD PRESSED: WHEN RELEASED THE GATE STOPS. The gate closes as long as the **Partial Start** is held PRESSED; WHEN RELEASED THE GATE STOPS.

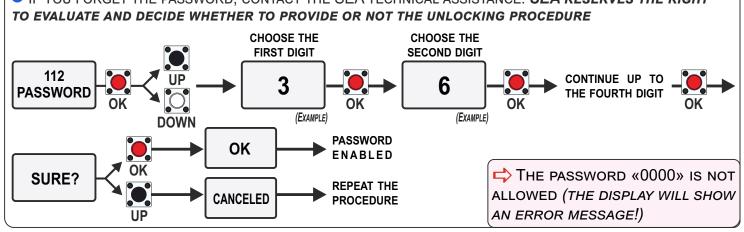


2 BUTTOS LOGIC: A START COMMAND OPENS THE GATE, A PARTIAL START COMMAND CLOSES THE GATE. THE PARTIAL START COMMAND IS NOT ACCEPTED DURING THE OPENING. THE **START** COMMAND GIVEN DURING THE CLOSING REOPENS THE GATE. WHILE THE PARTIAL START COMMAND GIVEN DURING THE CLOSING IS IGNORED



17 - PASSWORD

ullet Once the password is enabled, all the menus can not be adjusted, they are only displayed ullet If you forget the password, contact the SEA technical assistance: **SEA reserves the right**





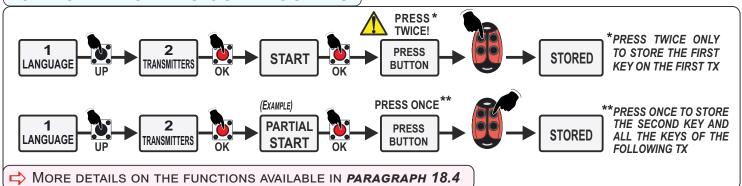
18 - RECEIVERS AND TRANSMITTERS

- WHEN THE CONTROL UNIT IS SWITCHED-OFF, CHECK 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)
- IF THE SECOND STORED FUNCTION IS MODIFIED, THEN ALL THE TRANSMITTERS ACQUIRE THIS CHANGE ON THE SECOND CHANNEL

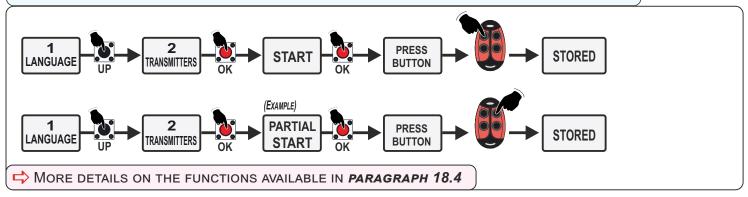
THE FIRST STORED TRANSMITTERS DETERMINES THE CODING OF THE FOLLOWING ONES

EXAMPLE: IF THE FIRST TRANSMITTERS IS STORED AS ROLLING CODE, THEN ALL THE FOLLOWING TX MUST BE STORED AS ROLLING CODE; TRANSMITTERS WITH DIFFERENT CODING ARE NOT ACCEPTED

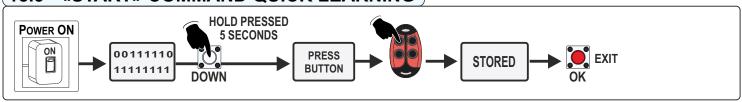
18.1 - OLD «ROLLING CODE» CODING



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



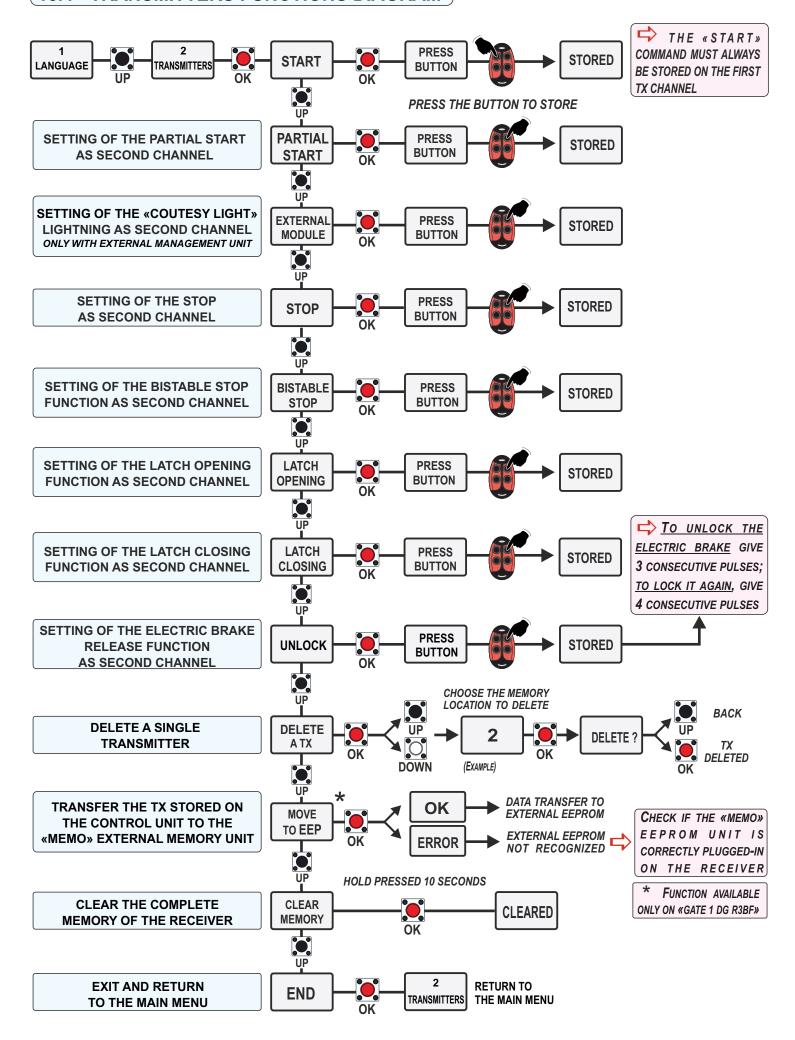
18.3 - «START» COMMAND QUICK LEARNING



SEA PLUG-IN RECEIVERS (CHAPTER 10)	MAX. USERS NUMBER
RF UNI	16 USERS WITHOUT ADDITIONAL MEMORY 800 USERS WITH MEMO ADDITIONAL MEMORY
RF UNI PG (OLD MODEL - NON EXTRACTABLE MEMORY)	100 USERS FIX CODE 800 USERS ROLL PLUS
RF UNI PG (NEW MODEL - EXTRACTABLE MEMORY)	800 USERS FIX CODE 800 USERS ROLL PLUS
RF FIX	16 USERS WITHOUT ADDITIONAL MEMORY 496 USERS WITH MEMO ADDITIONAL MEMORY



18.4 - TRANSMITTERS FUNCTIONS DIAGRAM







19 - ALARMS

19.1 - FAULTS SHOWN ON THE DISPLAY

THE CONTROL UNIT ADVISES OF SOME FAULTS THROUGH A MESSAGE ON THE DISPLAY (THEN PRESS OK TO EXIT)



• 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 STUCKED ON A STOP POINT. CHECK THAT THE ENCODER (IF ACTIVE) IS CONNECTED 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 POWER SUPPLY FAULT - CHECK THAT THERE ARE NO SHORT CIRCUITS ON WIRINGS OR ON THE CONTROL UNIT; CHECK THAT THERE IS NO OVERLOAD
FAULT 24VAUX	24VALIV INDUT FAULT. CUECK THAT THERE ARE NO CHORT CIRCUITS ON MURINOS OR ON THE CONTROL
CHECK CHARGE ON OUTPUT 10	24VAUX INPUT FAULT - CHECK THAT THERE ARE NO SHORT CIRCUITS ON WIRINGS OR ON THE CONTROL UNIT; CHECK THAT THERE IS NO OVERLOAD. THE 24VAUX INPUT IS A PROGRAMMABLE INPUT AND SUPPORTS A MAXIMUM LOAD OF 500mA; IF YOU DO NOT NEED A PROGRAMMABLE 24V POWER SUPPLY, USE THE 24V INPUT
CONNECT ACCESSORIES OUTPUT12	ON CLAMP 12(+) AND CONNECT THE NEGATIVE CABLE TO THE CLAMP 11 (COM) (NOT ON CLAMP 13!)
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 SELF-TEST	«PHOTOCELLS SELF-TEST» FUCTION 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	POTENTIOMETER FAULT - THE MESSAGE APPEARS IF THE POTENTIOMETER IS ENABLED ON MENU 32 BUT THE POTENTIOMETER MANAGEMENT UNIT (LE / LSE) IS DAMAGED OR NOT CONNECTED
FAULT POTENTIOMETER DIRECTION	POTENTIOMETER CABLE WIRING ERROR - SWAP THE CONNECTION CABLES OF THE POTENTIOMETER (SWAP THE BLUE CABLE - OR GREEN - WITH THE BROWN CABLE)
FAULT FLASHING LIGHT	FLASHING LIGHT FAULT - CHECK THE WIRINGS AND / OR THE CONDITION OF THE LAMP
FAULT THERMOMETER	THERMOMETER FUNCTION FAULT - THE MESSAGE APPEARS IF THE THERMOMETER FUNCTION IS ENABLED ON MENU 109, BUT THE MANAGEMENT UNIT (LE / LSE) IS DAMAGED OR NOT CONNECTED OR NOT CORRECTLY SET
FAULT SLAVE (SECONDARY)	«SECONDARY» (SLAVE) FUNCTION FAULT - CHECK THE CORRECT WIRINGS BETWEEN THE PRIMARY AND THE SECONDARY CIRCUITS (MASTER/SLAVE); MAKE SURE THAT THE CONTROL UNIT LINKED TO THE «SECONDARY» (SLAVE) CIRCUIT HAS BEEN CORRECTLY SET AS «SECONDARY» ON MENU 105
FAULT SAFETY EDGE	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 PHOTO 1 10K	10K PHOTOCELL FAULT - CHECK THE PHOTOCELL WIRINGS OR ANY SHORT-CIRCUITS. CHECK THAT THE PHOTOCELL IS CORRECTLY POWERED. MAKE SURE THAT A PHOTOCELL WITH 10K PROTECTION HAS ACTUALLY BEEN CONNECTED





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 ASIDE)
MUEN AN EVENT COOLIDO, THE WARNING

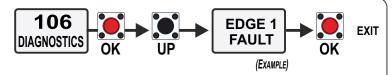
WHEN AN EVENT OCCURS, THE WARNING FLASHES ARE ISSUED AT EACH «START» COMMAND

THE **«CYCLES ALARM»** WARNING REFERS TO THE REACHING OF THE MAXIMUM CYCLES ESTABLISHED AFTER WHICH MAINTENANCE IS NECESSARY

NUMBER OF FLASHES	CORRESPONDING ALARM TYPE
9 SLOW (EVERY 0.5 SEC)	MOTORS FAILURE
2 SLOWI (EVERY 0.5 SEC)	PHOTOCELL FAILURE DURING CLOSING
3 SLOW (EVERY 0.5 SEC)	PHOTOCELL FAILURE DURING OPENING
6 SLOW (EVERY 0.5 SEC)	COLLISION-OBSTACLE DETECTED DURING OPENING
4 SLOW (EVERY 0.5 SEC)	SAFETY EDGE FAILURE
5 SLOW (EVERY 0.5 SEC)	FAULT ON STOP CONTACT
7 SLOW (EVERY 0.5 SEC)	MAX. CYCLES ACHIEVED-MAINTENANCE REQUIRED
6 SLOW (EVERY 0.5 SEC)	COLLISION-OBSTACLE DETECTED DURING CLOSING
4 FAST (EVERY 0.2 SEC)	LIMIT SWITCH FAILURE OR ERROR

19.3 - «DIAGNOSTICS» MENU TO DISPLAY LATEST EVENTS

Some of the warnings and alarms remain in the control unit memory, up to a max. of 10 events. To see the stored events, access the menu 106



F THE FAULT MESSAGE HOLDS OUT, CARRY OUT THE REQUIRED CHECKS OR DISCONNECT THE DEVICE GENERATING THE FAULT



<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 INSTRUCTIONS GIVEN!





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
The gate does not move but the motor runs	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 inputsb) 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 antientrapment 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"
IDUT ANV START COMMAND	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
•	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)
The photocell does not stop	a) The photocell wiring is incorrect b) The photocell is faulty 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 activatedb) 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
=	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
ISLINNIV OO NOT WORK	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

GATE 1 DG (R2BF) - (R2EF) - (R3BF) MENU FUNCTIONS TABLE

THE DESCRIBED FUNCTIONS ARE VALID FOR ALL GATE 1 DG VERSIONS, EXCEPT WHERE EXPRESSLY STATED

	MENU	SET	DESCRIPTION	DEFAULT	NOTES
		Italiano	Italian		
		English	English		
1	LANGUAGE	Français	French	English	
		Español	Spanish		
		Dutch	Dutch		
		Start	Start		
		Partial opening	Partial opening		
		External module	External module		
		Stop	Stop]	
		Bistable Stop	Pressed once, it stops the gate. Pressed twice, it reactivates the START input		
		Latch opening	One impulse opens and keep open. A second impulse restore the movement	Start	
2	TRANSMITTERS	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	- opening	
		Delete a transmitter	To delete a single transmitter (TX)		
		Move to EEP Menu available on model R3BF only	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- Reversible Sliding	Reversible sliding operators		
		4- Mechanic Swing	Electro-mechanic swing operators		
		5- Three-phase and Bollards	Three-phase operators Bollards		
		6- Magnetic Sliding	Sliding operators with magnetic limit-switch		
3	MOTOR	7- Barrier	Barriers	Mechanic	3
		12- B-200	Sliding operator		
		13- Chain sliding operator	Sliding chain operator Slowdown OFF deceleration 70% Buzzer in ON PHOTO 2 as shadow loop		
		14- B-200 chain	Sliding chain operator	1	
		15 - Erg	Garage door operator]	
5	REVERSE MOTOR	On	To reverse the opening with the closing and vice-versa (both motors and limit-switches are reversed)	Off	
		Off	Off	1	

	MENU	SET	DESCRIPTION	DEFAULT	NOTES	
		Automatic	Automatic logic - automatic reclosing enabled			
		Open-stop-close-stop-open	Step by step type 1			
6	LOGIC	Open-stop-close-open	Step by step type 2	Auto-		
O		2 button	Two buttons	matic		
		Safety	Safety			
		Dead man	Dead man			
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			
8		Off	The Start command is not accepted during pause	Off		
0	START IN PAUSE	On	The Start command is accepted during pause	Off		
9	PROGRAMMING	Off On	To start the working times self-learning	Off		
10	TEST START	Off On	To give a Start command for testing the automation	Off		
13	LATCH PAUSE Menu available on model R3BF only	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	Off		
14	RESET		ds will start by holding the UP button; at its end "INIT" will apisplay as confirmation of the control board reset	opear or	ı the	
192	MOVE GATE 1 * Menu available on model R3BF only	(for example to test the co HOLD UP PRESSED = THE	Allows the movement of the gate in a temporary "dead man" mode for example to test the correct running of the motor) HOLD UP PRESSED = THE GATE OPENS HOLD DOWN PRESSED = THE GATE CLOSES			
	e command is accepted ng the pause	d only at the end of the cycle	or after a STOP command; it is not accepted during the cyc	le and		
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 GATE 1 DG VERSIONS, EXCEPT WHERE EXPRESSLY STATED

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOTES
28	OPENING TORQ 1	10 100	Motor 1 opening torque: by increasing the torque, more strength will be required to execute the inversion in case of obstacle. with hydraulic motors the torque will be on 100%	It depends on model	
29	CLOSING TORQ 1	10 100	Motor 1 closing torque: by increasing the torque, more strength will be required to execute the inversion in case of obstacle. with hydraulic motors the torque will be on 100%	It depends on model	
32	ENCODER On		ON = Encoder enabled OFF = Encoder disabled (when OFF, the working times learnt are only 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)		
32	ENCODER	Potentiometer	To enable the reading of the potentiometer (only with LE or LSE management unit)	Off	
	51 I.PAR. M1 *		To show the current position of the potentiometer on the by Motor 1 . This parameter is useful to see if the potention of the potential of th		
	52 I.AP. M1	From the value learned to ± 100 pulses To show the impulses stored by the control unit when the leaf me by Motor 1 is fully open			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 move	ed
	-		to OPEN (by pressing UP) or CLOSE (by pressing DOWN) the ction available only on model R3BF	ne operat	tor
32	ENCODER	Off	ON = Encoder enabled OFF = Encoder disabled (when OFF, the working times learnt are only shown)	Off	
	65 OPENING TIME M1	XXX.S	To display the learnt value during the working times self le opening and closing <i>(Motor 1)</i> . With UP or DOWN it is pos	_	1
	66 CLOSING TIME M1		, , , , , , , , , , , , , , , , , , , ,	Sible to	
	CLOSHING THINLE INT	XXX.S	increase or reduce the working times		
33	OPENING SENSITIVITY	xxx.s 10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 1 in opening	Off	
33		10% (Fast intervention)	To adjust the Encoder or Potentiometer intervention time		
33	OPENING SENSITIVITY MOTOR 1 CLOSING SENSITIVITY	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 1 in opening	Off	
	OPENING SENSITIVITY MOTOR 1	10% (Fast intervention) 99% (Slow intervention) Off (Intervention excluded) 10% (Fast intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 1 in opening Disabled To adjust the Encoder or Potentiometer intervention time	Off	
	OPENING SENSITIVITY MOTOR 1 CLOSING SENSITIVITY	10% (Fast intervention) 99% (Slow intervention) Off (Intervention excluded) 10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 1 in opening Disabled To adjust the Encoder or Potentiometer intervention time on Motor 1 in closing	Off	

POTENTIOMETER THRESHOLD						
OPENING 1	0	i v t s <u>s</u> t		To adjust the threshold of the potentiometer intervention. This parameter self-determines during the working times learning but can also be adjusted later, on the condition that the set value is higher than the value	It depends	
POTENTIOMETER THRESHOLD CLOSING 1				shown in VP1 (instantaneous speed values which can be shown by accessing the DEBUG menu). NOTE: The lower the threshold value, the slower will be the response of the potentiometer.	on model	
POTENTIOMETER SLOWDOWN THRESHOLD OPENING 1	0	100		in slowdown. By default this value is set on 10. but can be manually increased on the condition that the set value is	It depends	
POTENTIOMETER SLOWDOWN THRESHOLD CLOSING 1				higher than the value shown in VP1 (instantaneous speed values which can be shown by accessing the DEBUG menu)	on model	
Total CLOSING INVERSION			,			
	Partial			In case of obstacle, safety edge or potentiometer, it partially reverses direction (of about 30 cm) then stops	model	
		For menu	47 and	48 see menu 32- ENCODER = On		
	For me	enu from 5	1 to 53	see menu 32- ENCODER = Potentiometer		
OPENING SLOWDOWN 1	Off (*)	50		Adjustable from OFF to the 50% of the stroke	It depends on model	
CLOSING SLOWDOWN 1	Off (*)	50		Adjustable from OFF to the 50% of the stroke	It depends on model	
* For motors wit	h hydrau	ılic brake (CF) or d	ouble hydraulic brake (2CF) this parameter must be on Off	:	
DECELERATION	0 % 100%			To adjust the change from normal speed to slowdown speed	It depends on model	
ΔCCFI FRΔTION I	0 % 100%	\		Acceleration ramp. To adjust the motor start	It depends on model	
	ı	or menu fi	rom 65 t	to 66 see menu 32- ENCODER = Off		
OPENING POSITION RECOVERY	0	20 seco	nds	To retrieve the inertia of the motor in opening after the Stop or the reversing	1s	
CLOSING POSITION RECOVERY	0	20 seco	nds	To retrieve the inertia of the motor in closing after the Stop or the reversing	1s	
OPENING TOLERANCE MOTOR 1	0	100		To adjust the Motor 1 tolerance between the stop and the obstacle, in opening	0	
CLOSING TOLERANCE MOTOR 1	0	100		To adjust the Motor 1 tolerance between the stop and the obstacle, in closing	0	
	Stroke	Off -	3 sec	Before opening, the motor starts in closing for the time set, in order to simplify the lock release		
	Repeat Lock Release	Off –	On	pushing stroke	Off	
	End			To exit the menu		
				If the gate is forced manually, the control unit starts the		
ANTI INTRUSION	Opening		g			
	POTENTIOMETER SLOWDOWN THRESHOLD PENING 1 CLOSING INVERSION CLOSING INVERSION CLOSING SLOWDOWN 1 * For motors with CLOSING CLOSING POSITION RECOVERY CLOSING POSITION RECOVERY CLOSING TOLERANCE MOTOR 1 PUSHING STROKE	POTENTIOMETER SLOWDOWN THRESHOLD DEPENING 1 CLOSING INVERSION For me CLOSING SLOWDOWN 1 CLOSING SLOWDOWN 1 * For motors with hydrau DECELERATION ACCELERATION DEPENING POSITION RECOVERY CLOSING POSITION RECOVERY CLOSING TOLERANCE MOTOR 1 Time Pushing Stroke Repeat Lock Release End Only ope Only clo.	COTENTIOMETER SLOWDOWN THRESHOLD DENING 1 CLOSING INVERSION Partial For menu For menu from 5. CLOSING SLOWDOWN 1 * For motors with hydraulic brake (DECELERATION ACCELERATION DEPINING SLOWDOWN 1 * For motors with hydraulic brake (DECELERATION ACCELERATION DEPINING POSITION RECOVERY CLOSING POSITION RECOVERY DEPINING TOLERANCE MOTOR 1 Time Pushing Off - Stroke Repeat Lock Off - Release End Only opening Opening and closing Opening and closing Opening and closing Opening and closing	POTENTIOMETER SLOWDOWN THRESHOLD OPENING 1 CLOSING INVERSION Total For menu 47 and For menu from 51 to 53 store and for menu from 65 store and for menu f	TOTENTIOMETER LOWDOWN THRESHOLD DPENING 1 100 100 100 100 100 100 100	TO adjust the threshold of the potentiometer intervention in slowdown. By default this value is set on 10, but can be manually increased on the condition that the set value is higher than the value shown in VP1 (Instantaneous on model DEBUG menu) Total Total

	SPECIAL MENU	S	ET	DESCRIPTION	DEFAULT	NOTES
80	PUSHOVER	Off		The gate leaf makes an extra movement at the maximum torque to ensure the tightening of the gate	Off	
		Opening and closing				
80		Only closing				
		Only opening				
81	PERIODICAL PUSHOVER	Off	8	To activate the repetition of the pushover function at a distance of time adjustable from 0 to 8 hours, at hourly intervals	Off	
	MOTOR RELEASE	Opening 1	Off - 3 s		Off	
		Closing 1	Off - 3 s	If different from OFF, the energter slightly reverses its		
82		Opening 2	Off - 3 s	If different from OFF, the operator slightly reverses its direction at the end of the cycle	(hydraulic) 0.1	
		Closing 2	Off - 3 s	an estion at the end of the eyele		
		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)		
84	BRAKE	Off	100%	To adjust the braking on the limit switch	0	
85	PRE-FLASHING	Only closing		To enable the pre-flashing only before closing (to access: press DOWN button when 0.0 value is shown)	Off	
		0.0	10 s	To set the pre-flashing duration		
86	FLASHING LIGHT	Normal		Normal		
		Light		Warning lamp function	Normal	
		Always		Always ON		
		Buzzer		Buzzer	1	
87	FLASHING LIGHT AND TIMER	Off		The flashing light will be OFF with enabled timer and open gate		
		On		The flashing light will be ON with enabled timer and open gate	Off	
88	COURTESY LIGHT	Off		Disabled		
		1	240	Adjustable from 1 second to 4 minutes	20	
		In cycle		Courtesy light only in cycle		
89	TRAFFIC LIGHT RESERVATION	Off	On	To get the priority in entry or exit. The function is available only with SEM management unit and by the use of the partial opening contact	Off	
90	PARTIAL OPENING	20	100	Adjustable from 20 to 100	100	
91	PARTIAL PAUSE	= Start		The pause in partial opening is the same as in total opening		
		Off		Disabled	= Start	
		1 2	240	Adjustable from 1 second to 4 minutes		
92	TIMER	Off		The selected input will be turned into an input (on CN1) to which connect an external clock		1
		On photo2			Off	
		On partial input				
93	FIRE SWITCH	Off		Disabled		
		On Photo2		The function can be enabled on the Photocell 2 input		
		On partial in	nput	The function can be enabled on the partial opening Start input	Off	

SPECIAL MENU		SET	DESCRIPTION	DEFAULT	NOTES
		Always	AUX output always powered		
		In cycle	AUX output powered only during cycle		
		Opening	AUX output powered only during opening		
		Closing	AUX output powered only during closing		
		In pause	AUX output powered only during pause		
		Phototest	AUX output powered for safety devices testing		
		In cycle and phototest	AUX output powered only during cycle and for safety devices testing		
		Positive brake management (connected through relay)	Positive Electric-brake - connected through relay (AUX output powered only with stationary gate)		
		Negative brake management (connected through relay)	Negative Electric-brake - connected through relay (AUX output powered during cycle and 1 second before starting the movement)		
94	24V AUX (Max. 500 mA) The AUX output allows the connection of a relay for the additional accessories management	Negative brake (connected through relay) Photocell management	Negative Electric-brake (AUX output powered during cycle and 1 second before starting the movement; AUX output disabled when the photocell is activated)		
		Open gate warning light	1 flash per second during opening 2 flashes per second during closing Steady lit in "Stop" or "Open" status		
		Lock (connected through relay)	The AUX output allows the connection of a relay for the management of a lock <i>Note: to connect the lock, a relay and an external power supply are necessary</i>		
		Opening and open	AUX output powered during opening and with open gate		
		Courtesy light (connected through relay)	The AUX output allows the connection of a relay for the management of a courtesy light which will work as per Menu-88 settings		
		Start 3 s (connected through relay)	AUX output powered at every Start input or at every photocells or safety edge intervention, for 3 seconds (ie. management of lights connected through the relay)		
		Barrier Led lights	Closed barrier - the light is switched-on Open barrier - the light is switched-off Moving barrier - the light blinks		
		Photo 1	Self-test enabled only on photocell 1		
95		Photo 2	Self-test enabled only on photocell 2		
	FOTOTEST	Photo 1 and 2	Self-test enabled on photocells 1 and 2	- Off	
		Off	Disabled		
		Edge	Self-test enabled only on safety edge		
		Photo 1 and Edge	Self-test enabled on photocell 1 and safety edge		
		Photo 2 and Edge	Self-test enabled on photocell 2 and safety edge		
		AII	Self-test enabled on photocell 1 and 2 and safety edge		

	SPECIAL MENU	SET	DESCRIPTION	DEFAULT	NOTES
97	PHOTOCELL 1 SHADOW LOOP 1	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	Closing	
		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 movement; when released, the closing movement continues		
		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)		
		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		
		Shadow loop	When the gate is open, the shadow loop prevents the reclosing until it is occupied. The Shadow loop is switched off during closing		
		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		
		Shadow loop RP (pause reloading)	When the gate is open, the shadow loop prevents the reclosing until it is occupied. When released, the gate repeats the pause time set, then it closes. The Shadow loop is switched off during closing		

SPECIAL MENU SET		SET	DESCRIPTION		NOTES
		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 it 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 SHADOW-LOOP2	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)		
		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		
		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		
		Shadow loop	When the gate is open, the shadow loop prevents the reclosing until it is occupied. The Shadow loop is switched off during closing		
		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		
		Shadow loop RP (pause reloading)	When the gate is open, the shadow loop prevents the reclosing until it is occupied. When released, the gate repeats the pause time set, then it closes. The Shadow loop is switched off during closing		
		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		
		Stop N.O.	Stop connection on ERG push-button panel		
		Safety edge 2	It is possible to connect a second safety edge; Only with the "R3BF" model: is it possible to select the type of safety edge through menu 101; For all models: it is possible to choose the working direction of the second safety edge through menu 103		

SPECIAL MENU		SET	DESCRIPTION		NOTES
	SAFETY EDGE 1 Menu available on models R2BF and R2EF	Normal	Normal N.C. contact		
		8K2	Safety edge protected by a 8K2 resistor enabled		
		8K2 Double	Two safety edges protected by a 8K2 resistor enabled		
	only	Photo 1 10K	Photocell protected by a 10K resistor enabled		
100		Photo 1 10K Double	Two photocells protected by a 10K resistor enabled	Normal	
100		Normal	Normal N.C. contact	rvormar	
	SAFETY EDGE 1	8K2 N.C.	Safety edge protected by a 8K2 resistor enabled		
	Menu available on	8K2 N.C. Double	Two safety edges protected by 8K2 resistor enabled		
	model R3BF only	8K2 RES	Resistive edge protected by 8K2 resistor enabled		
		8K2 RES Double	Two resistive edges protected by 8K2 RES enabled		
	SAFETY EDGE 2	Normal	Normal N.C. contact		
	DIRECTION	8K2 N.C.	Safety edge protected by a 8K2 resistor enabled		
101	Menu available on model R3BF only and if	8K2 N.C. Double	Two safety edges protected by 8K2 resistor enabled	Normal	
	the menu 98 is set on	8K2 RES	Resistive edge protected by 8K2 resistor enabled		
	"SAFETY EDGE 2"	8K2 RES Double	Two resistive edges protected by 8K2 RES enabled		
		Opening and closing	Safety edge enabled in opening and closing	Opening	
102	SAFETY EDGE 1 DIRECTION	Only opening	Safety edge enabled only in opening	and	
		Only closing	Safety edge enabled only in closing	Closing	
	SAFETY EDGE 2	Opening and closing	Safety edge enabled in opening and closing		
103	DIRECTION Menu available only if the menu 98 is set on	Only opening	Safety edge enabled only in opening	Opening and Closing	
	"SAFETY EDGE 2"	Only closing	Safety edge enabled only in closing	e.eeg	
	SELECT LIMIT SWITCH	Automatic	Automatic detection of the limit switch		
		Only opening	Limit switch enabled only in opening		
104		Only closing	Limit switch enabled only in closing	Automatic	
		Motor internal	To be enabled if the operator is equipped with an inner limit switch that stops the motor phase		
		Primary	To set the control unit as PRIMARY on applications with two operators in primary/secondary mode		
105	PRIMARY/SECONDARY (MASTER/SLAVE)	Secondary	To set the control unit as SECONDARY on applications with two operators in primary/secondary mode		
		Off	Disabled		
106	DIAGNOSTICS	1 10	To display the last event (See alarms table)		
107	MAINTENANCE CYCLES	100 240000	Adjustable from 100 to 240000 cycles	100000	
108	PERFORMED CYCLES	0 240000	To display the executed cycles. Hold pressed OK to reset the cycles	0	
109	THERMOMETER	On Off	To enable the probe for measuring the piston oil temperature; The temperature probe must be connected via the LE or LSE management circuit	Off	

I II()W/FR I HRESH()II) I		-10°	
	To adjust the temperature threshold to enable the oil heater (This menu is shown only if the menu 109-Thermometer is set to ON)		
UPPER THRESHOLD TEMPERATURE From -20° to +50° To adjust the temperature threshold theater (This menu is shown only if Thermometer is set to ON)		0°	
PASSWORD Note: "0000" setting is parameters modification Note: "0000" setting is parameters modification	To enter a password for blocking the control unit parameters modification		
Off Disabled			
Last opening In case of power failure, as soon as the drops below 22V, the gate opens or remains open until the power is restored.	ne last time and	Off	
Last closing In case of power failure, as soon as the drops below 22V, the gate closes or remains closed until the power is restored.	ne last time and		
117 ALWAYS CLOSE Off 240 seconds open, it closes only after the set time ha	Off 240 seconds In case of power failure, if the gate has been manually open, it closes only after the set time has elapsed (from 0 to 240 sec.) as soon as the power is restored		
Off Disabled			
The gate opens and stay open till a Opening The latch function uses the "Partial Opening" function is so disc	ening" N.O. input	Off	
The gate closes and stay closed till a Closing The latch function uses the "Partial Opening" function is so disc	ening" N.O. input		
DISPLAY WRITING SPEED From 30% to 100% See Note 2 at the end of the table	From 30% to 100% See Note 2 at the end of the table		
Press OK to exit the special menu. The special menu switches off automatically after	Press OK to exit the special menu. The special menu switches off automatically after 20 minutes		
PHOTO 1 TYPE Normal Standard photocell without 10K control			
121 Menu available on Photo 1 10K Photocell with 10K control		Normal	
model R3BF only Photo 1 10K DOUBLE Double photocell with 10K control			
PHOTO 2 TYPE Normal Standard photocell without 10K control			
122 Menu available on Photo 2 10K Photocell with 10K control Photo 3 10K DOUBLE Photocell with 10K control Photocell w		Normal	
Prioto 2 10k DOOBLE Double priotocell with 10k control			
HOMING Normal In case of a power failure or in case operator restarts at the normal speed se			
189 Menu available on model R3BF only Deceleration In case of a power failure or in case operator restarts at a lower speed than set		Normal	
BASIC MENU On model R3BF only Press OK to exit the special menu. The special menu switches off automatically afte	er 20 minutes		

Note 1: after initialization, the parameters set on **menu 3 - MOTOR** and **104 - SELECT LIMIT SWITCH** always remain set to the value chosen during the programming operation

Note 2: if the **menu 119 - DISPLAY WRITING SPEED** is set to the minimum value of 30%, the display writing speed will be low. On the contrary, if it is set to the maximum value of 100%, the writing speed will be very high

Please note: the writing speed will not change on the JOLLY 3 programmer





TO THE ATTENTION OF BOTH INSTALLER AND END USER

MAINTENANCE: Periodically, based on the number of maneuvers performed over time and based on the type of operator, if a change in friction, malfunctioning or non-compliance with the previously set times are noticed, it would be advisable to reprogram the learning times on the control unit

Periodically clean the optical systems of the photocells

REPLACEMENTS: Send request for spare parts to: SEA S.p.A. - Teramo - ITALY - www.seateam.com

SAFETY AND ENVIRONMENTAL COMPATIBILITY: Disposal of packaging materials 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)

This brand on the product or on documentation indicates that the product must not be disposed off together 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 recommand 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 watse 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 - see the sales conditions

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 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.** SEAS.p.A. declines all liability as concerns the automated system's security and efficiency, if components used, are not produced by SEAS.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.





TERMS OF SALES

EFFICACY OF THE FOLLOWING TERMS OF SALE: the following general terms of sale shall be applied to all orders sent to SEA S.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. Noncompliance 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** 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 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 expressively clauses under numbers:

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





DECLARATION OF CONFORMITY DICHIARAZIONE DI CONFORMITÀ

SEA S.p.A. declares under its proper responsability and, if applicable, under the responsability 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

TRADEMARK - MARCA

GATE 1 DG R2BF

23001158

SEA

(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

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

PLACE AND DATE OF ISSUE LUOGO E DATA DI EMISSIONE

TERAMO, 20/05/2022

The Administrator
Epinio Di Sevelio







NOTES





NOTES





Automatic Gate Openers

International registered trademark n. 804888

SEA S.p.A.

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