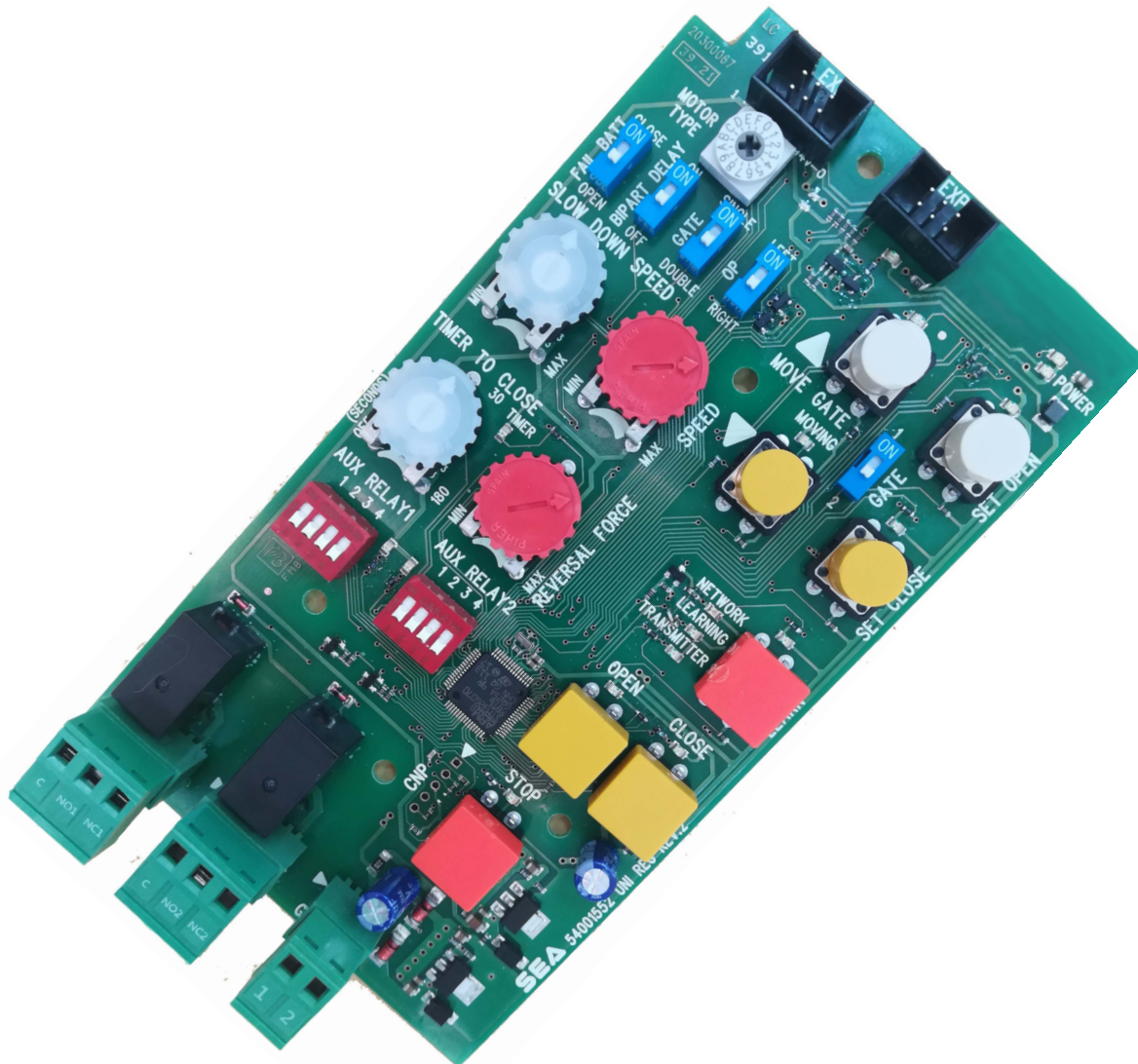


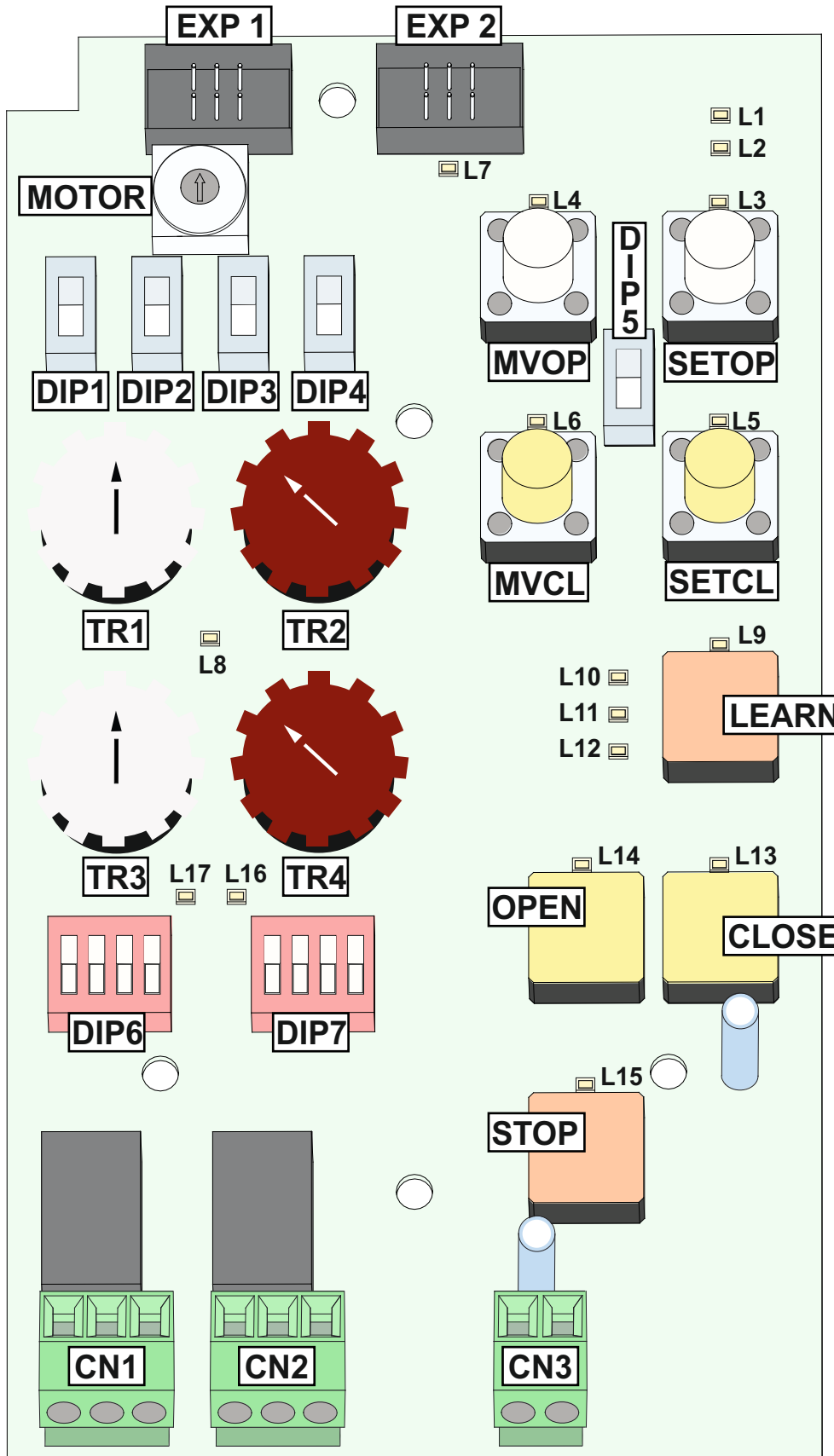
«UNIREG» MODULE



SEA USA Inc.
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1 - «UNIREG» MODULE COMPONENTS

CONNECTABLE TO THE «EXP» CONNECTOR OF THE SEA CONTROL UNITS VIA SERIAL CABLE FROM «EXP1» OR «EXP2»

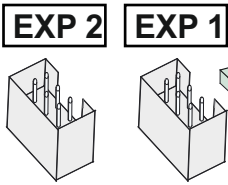


CN1	RELAY 1 CONNECTOR
CN2	RELAY 2 CONNECTOR
CN3	24V CONNECTOR (NOI IN USE)
MOTOR	CONTROL KNOB FOR MODEL CHOICE
EXP1	MOTOR 1 «UNILOGIC» MODULE CONNECTOR
EXP2	MOTOR 2 «UNILOGIC» MODULE CONNECTOR
TR1	SLOW-DOWN SPEED ADJUSTMENT TRIMMER
TR2	SPEED ADJUSTMENT TRIMMER
TR3	TIMER TO CLOSE ADJUSTMENT TRIMMER
TR4	REVERSING FORCE ADJUSTMENT TRIMMER
DIP1	EMERGENCY MANEUVER MANAGEMENT
DIP2	BIPART DELAY OR PRIMARY/SECONDARY
DIP3	DUAL OR SINGLE MODE
DIP4	MOTOR/LIMIT SWITCH REVERSING
DIP5	CHOICE OF THE LEAF TO MANAGE
DIP6	RELAY 1 FUNCTIONS ADJUSTMENT
DIP7	RELAY 2 FUNCTIONS ADJUSTMENT
MVOP	OPENING BUTTON (USE WITH SETOP)
MVCL	CLOSING BUTTON (USE WITH SETCL)
SETOP	OPENING BUTTON (USE WITH MVOP)
SETCL	CLOSING BUTTON (USE WITH MVCL)
LEARN	LEARNING BUTTON
OPEN	OPENING COMMAND SELF-LEARNING ON TX
CLOSE	CLOSING COMMAND SELF-LEARNING ON TX
STOP	STOP COMMAND SELF-LEARNING ON TX
L1 / L17	LED SIGNALS

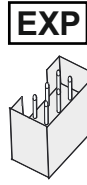
THE USE OF THE «UNIREG» MODULE SHOULD BE COMBINED WITH A MAIN CONTROL UNIT - EG. «UNIGATE 24V», «USER 2 24V DG ALL-IN» OR «USER 1 DG MAXI»

2 - CONNECTIONS

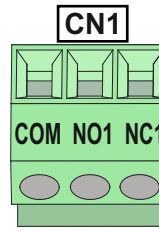
ON UNIREG



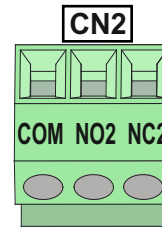
ON CONTROL UNIT



RELAY 1



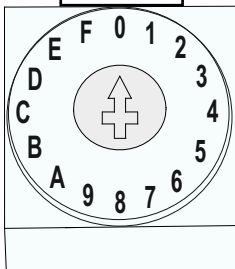
RELAY 2



DRY CONTACT RELAY CONNECTORS FOR ADDITIONAL ACCESSORIES. FUNCTIONS CAN BE MANAGED THROUGH THE DIP6 AND DIP7

3 - OPERATOR CHOICE

MOTOR



WITH UNIGATE 24V *

1	SURF
2	SURF FAST
3	HALF TANK 270/390
4	ORION BOX FAST
5	KITE LS

WITH USER 1 DG MAXI *

1	ORION BOX FAST
2	SATURN 1500 - LEPUS 2000
3	LEPUS BOX CHAIN
4	SATURN FAST - SATURN SUPER FAST

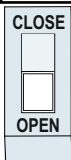
WITH USER 2 DG ALL-IN *

1	SURF - ALPHA
2	KITE LS
3	FIELD
4	FLIPPER - GER
5	B-600
6	BETA

*** CHOICE AVAILABLE UP TO THE LAST NUMBER (4, 5 OR 6 DEPENDING ON THE CONTROL UNIT) - ALL OTHER MOTOR OPTIONS AUTOMATICALLY SET THE OPERATOR N° 1**

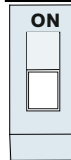
4 - ADJUSTMENTS VIA DIP-SWITCH

DIP1



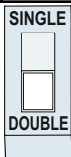
IN CASE OF POWER FAILURE, IT IS POSSIBLE TO CHOOSE WHETHER TO CARRY OUT THE EMERGENCY OPENING OR CLOSING MANEUVER

DIP2



DOUBLE LEAF SWING GATE:
ACTIVATES OR DEACTIVATES THE BIPART DELAY

DIP3



SWING GATE:
IT IS POSSIBLE TO CHOOSE WHETHER TO MANAGE SINGLE OR DUAL MOTOR

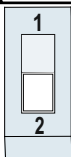
SLIDING GATE:
SINGLE = GATE IN «PRIMARY» MODE (MASTER);
DOUBLE = GATE IN «SECONDARY» MODE (SLAVE)

DIP4



IT IS POSSIBLE TO REVERSE THE OPERATOR OPENING DIRECTION AND THE LIMIT SWITCHES DIRECTION

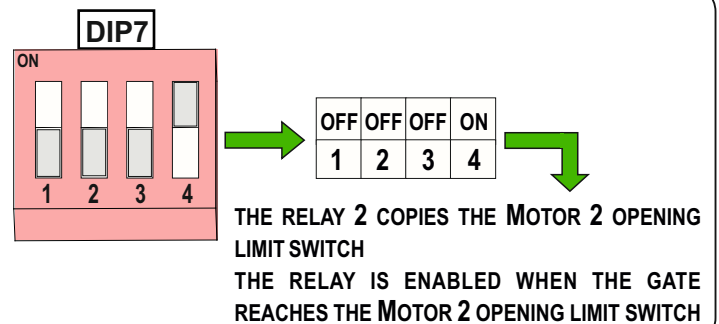
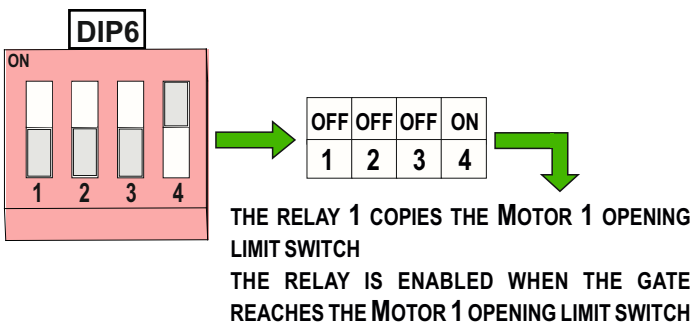
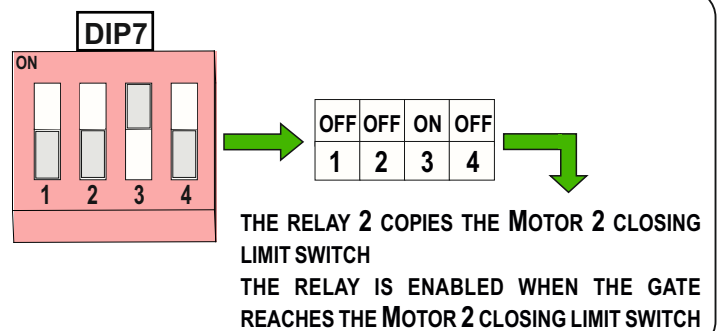
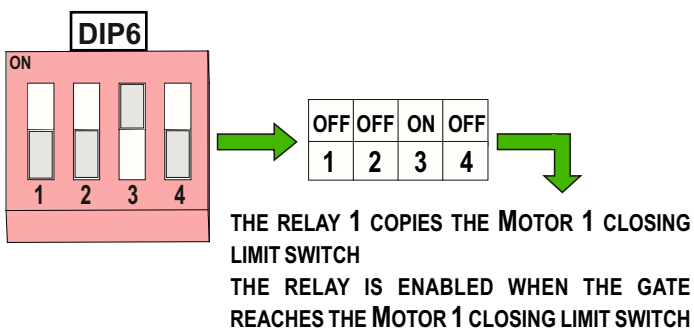
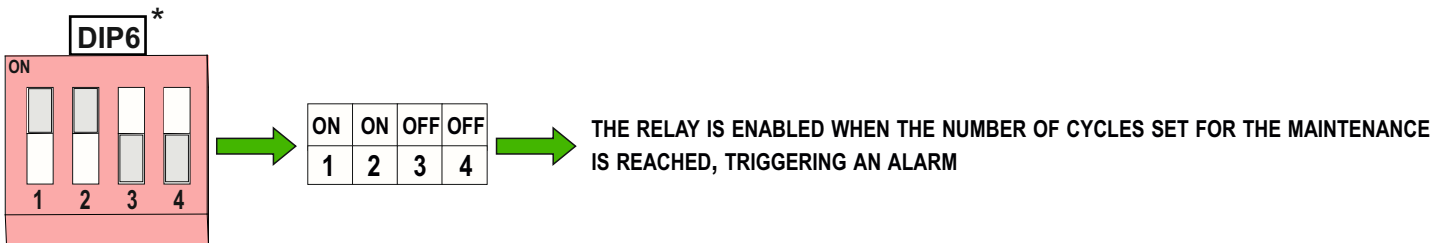
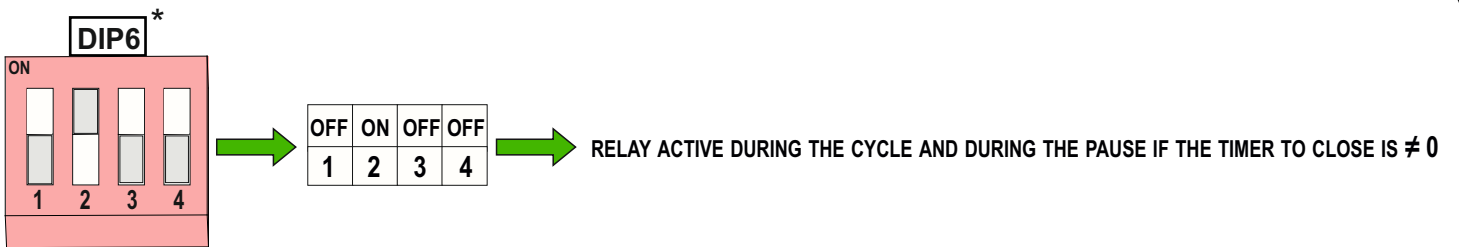
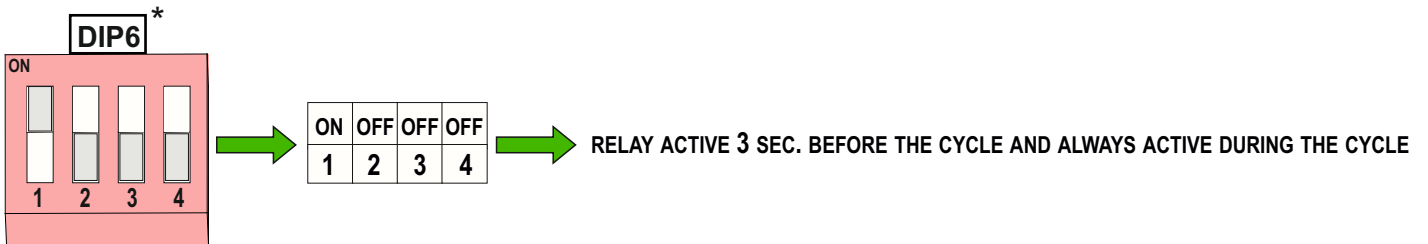
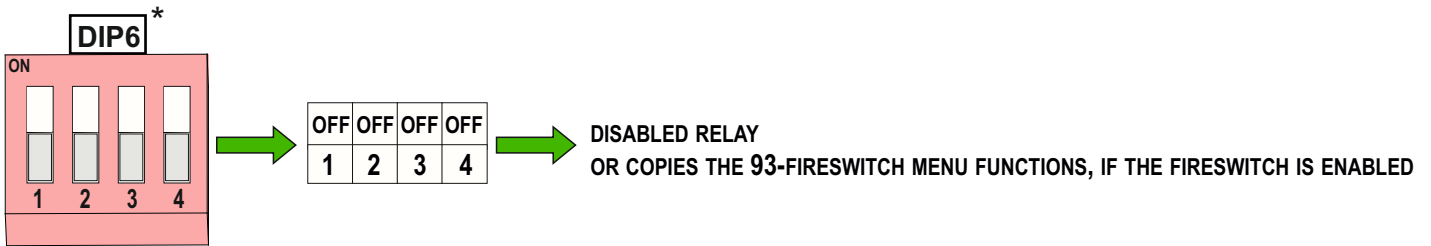
DIP5



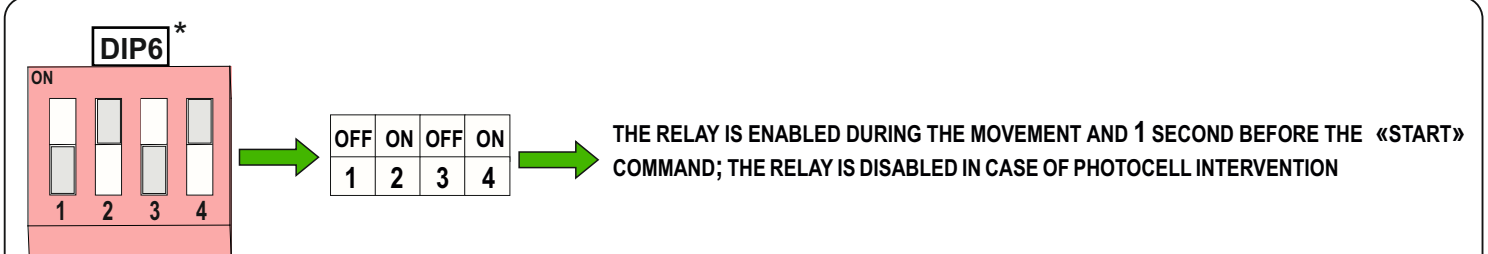
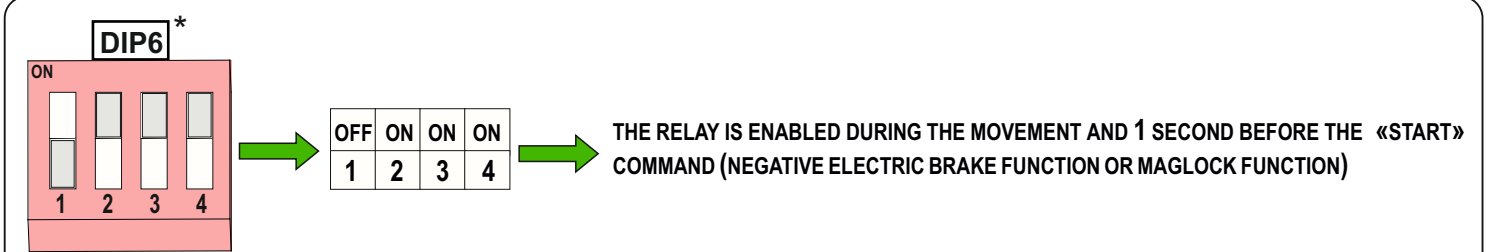
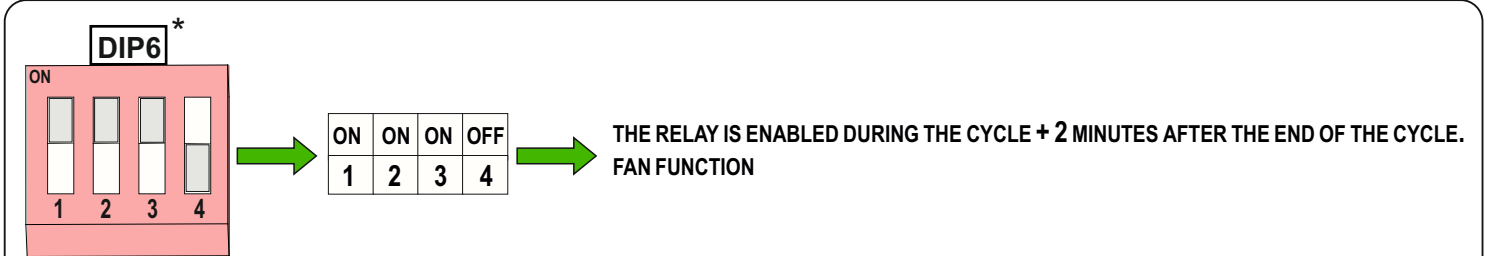
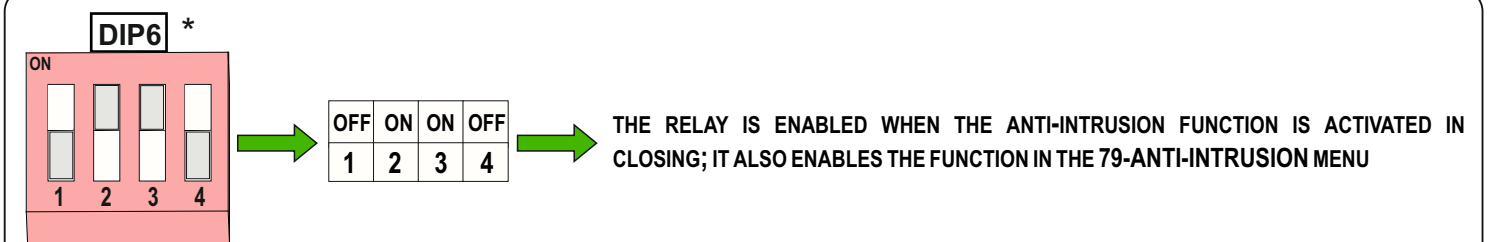
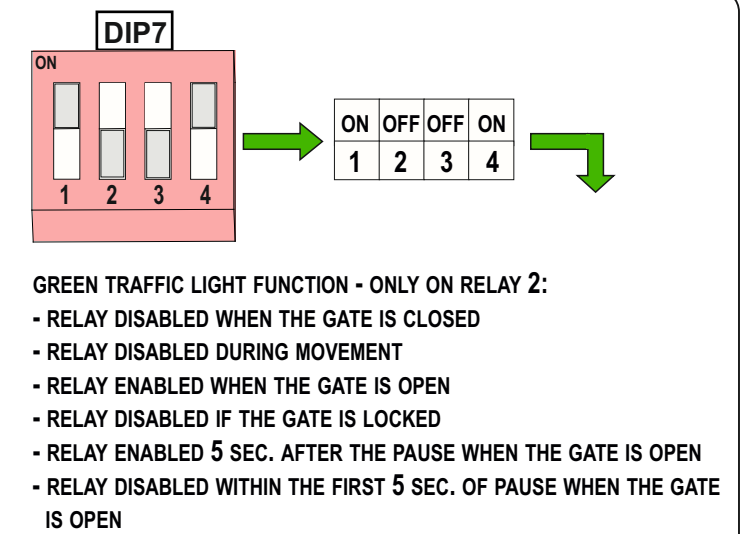
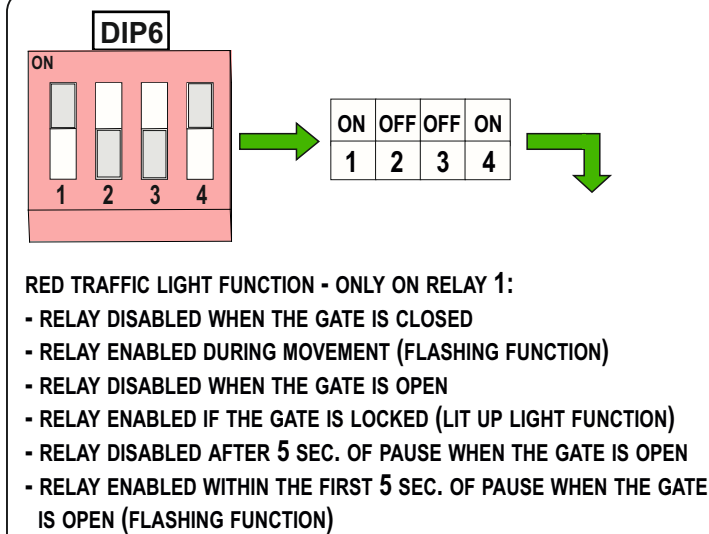
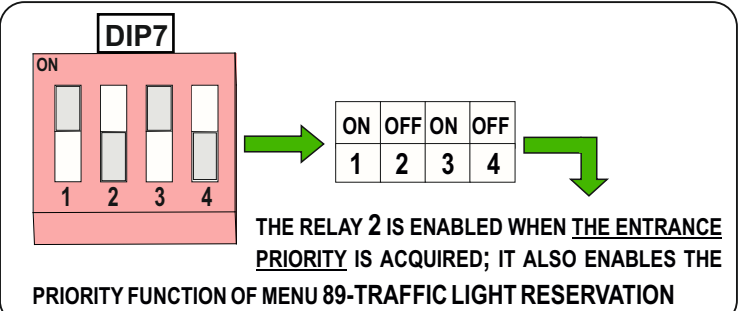
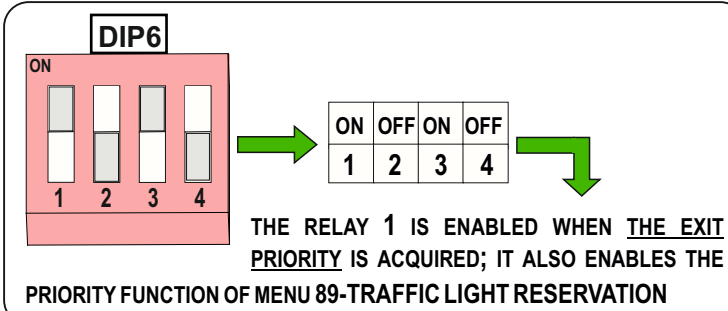
IT IS POSSIBLE TO CHOOSE WHETHER TO MANUALLY MOVE MOTOR 1 OR MOTOR 2
(SEE CHAPTER 8)

5 - RELAY MANAGEMENT DIP-SWITCH

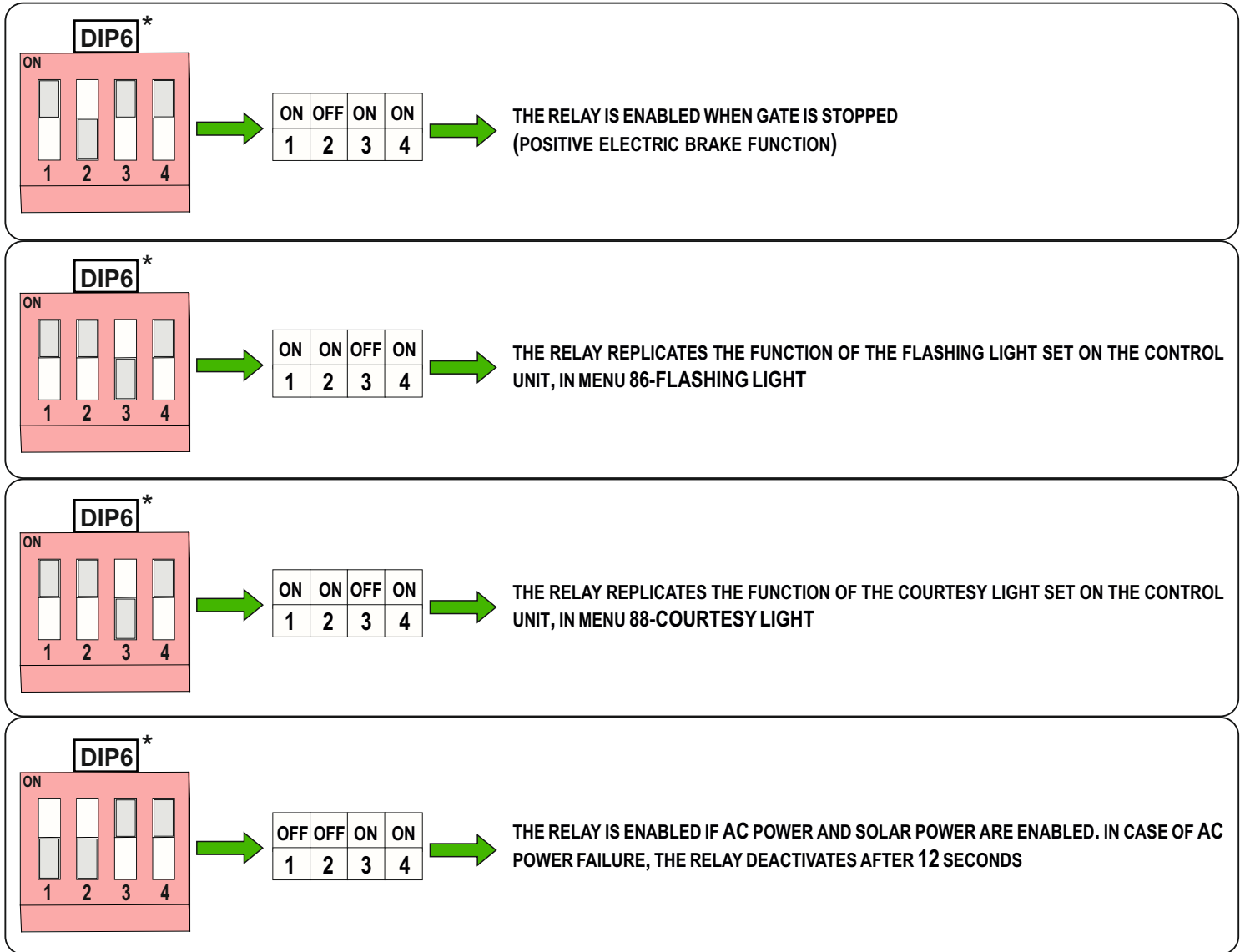
* THE «DIP 6» SETTINGS FOR THE RELAY 1 ARE THE SAME SETTINGS OF THE «DIP 7» FOR THE RELAY 2, EXCEPT WHERE EXPRESSLY INDICATED



*SAME SETTING AND FUNCTION ON DIP7

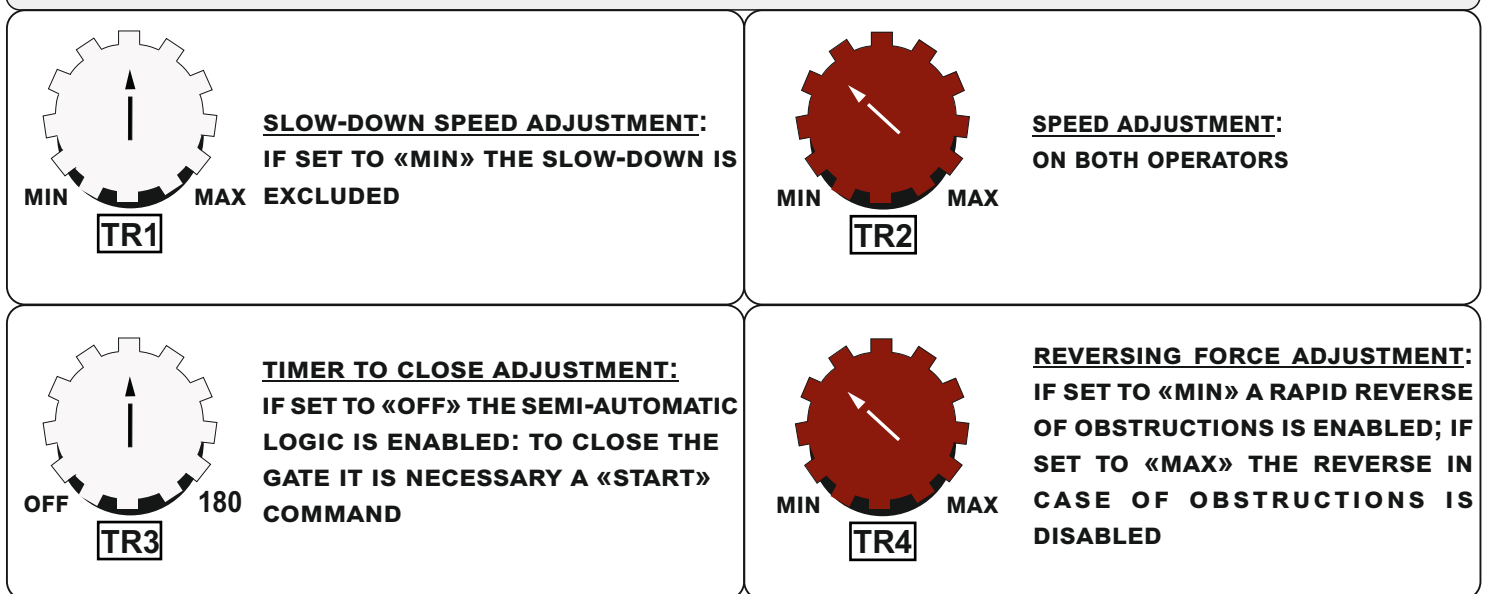


*SAME SETTING AND FUNCTION ON DIP7

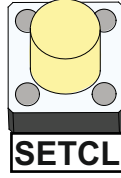
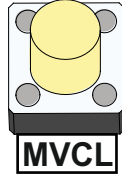
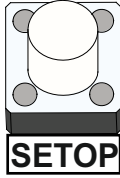
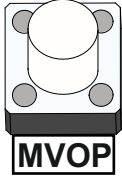


* SAME SETTING AND FUNCTION ON DIP7

6 - TRIMMERS ADJUSTMENT



7 - MANUAL MOTION



TO MOVE THE GATE FOR SPECIFIC TESTS OR POSITIONING IN A PROVISIONAL «DEAD MAN» MODE; THROUGH DIP5 IT IS POSSIBLE TO CHOSE THE MOTOR TO BE MOVED - M1 OR M2
OPENING - PRESS «MVOP» AND «SETOP» SIMULTANEOUSLY
CLOSING - PRESS «MVCL» AND «SETCL» SIMULTANEOUSLY

8 - PROGRAMMING

ONCE MADE ALL THE CONNECTIONS, CHOSEN THE TYPE OF OPERATOR AND CARRIED OUT ALL THE DESIRED ADJUSTMENTS THROUGH TRIMMERS AND DIP-SWITCHES, IT IS POSSIBLE TO PROGRAM THE CONTROL UNIT; THE CONTROL UNIT PROGRAMMING CAN BE MANUAL OR AUTOMATIC;

MANUAL PROGRAMMING: MOVE THE GATE UP TO THE LIMIT SWITCH POINTS THROUGH THE MOVEMENT BUTTONS, THEN CONFIRM

AUTOMATIC PROGRAMMING: THE GATE AUTOMATICALLY LEARNS THE LIMIT SWITCH POINTS THROUGH THE «LEARN» BUTTON

AUTOMATIC PROGRAMMING (RECOMMENDED)

1 - CHECK THE CORRESPONDENCE OF THE OPENING/CLOSING LIMIT SWITCHES WITH THEIR RESPECTIVE RUNNING DIRECTIONS: TO CHECK MOTOR 1, SET DIP5 TO «1»; HOLD «SETCL» AND «MVCL» PRESSED AT THE SAME TIME: CHECK THAT THE GATE CLOSES AND THAT WHEN IT REACHES THE CLOSING LIMIT SWITCHES, THE RESPECTIVE CONTACT SWITCH TO OPEN.

HOLD «SETOP» AND «MVOP» PRESSED AT THE SAME TIME: CHECK THAT THE GATE OPENS AND THAT WHEN IT REACHES THE OPENING LIMIT SWITCHES, THE RESPECTIVE CONTACT SWITCH TO OPEN. TO CHECK MOTOR 2, SET DIP5 TO «2» AND REPEAT THE PROCEDURE.

2 - PRESS «LEARN» AND THE RED LED «L11» LIGHTS UP; WITHIN 10 SECONDS PRESS «SETCL» TO START THE PROGRAMMING; THE GATE WILL AUTOMATICALLY RUN THE FOLLOWING CYCLE: CLOSE M2 - CLOSE M1 - OPEN M1 - OPEN M2 - CLOSE M2 - CLOSE M1

MANUAL PROGRAMMING

1 - CHECK THE CORRESPONDENCE OF THE OPENING/CLOSING LIMIT SWITCHES WITH THEIR RESPECTIVE RUNNING DIRECTIONS: TO CHECK MOTOR 1, SET DIP5 TO «1»; HOLD «SETCL» AND «MVCL» PRESSED AT THE SAME TIME: CHECK THAT THE GATE CLOSES AND THAT WHEN IT REACHES THE CLOSING LIMIT SWITCHES, THE RESPECTIVE CONTACT SWITCHES TO OPEN.

HOLD «SETOP» AND «MVOP» PRESSED AT THE SAME TIME: CHECK THAT THE GATE OPENS AND THAT WHEN IT REACHES THE OPENING LIMIT SWITCHES, THE RESPECTIVE CONTACT SWITCHES TO OPEN. TO CHECK MOTOR 2, SET DIP5 TO «2» AND REPEAT THE PROCEDURE.

MANUAL PROGRAMMING STARTS FROM MOTOR 2; TO PROGRAM MOTOR 2 SET DIP5 TO «2»

2 - HOLD PRESSED «SETOP» AND «SETCL» SIMULTANEOUSLY AND THE RESPECTIVE LEDs «L3» AND «L5» START FLASHING

3 - PRESS «MVCL» AND MOVE THE GATE UP TO THE CLOSING LIMIT SWITCH

4 - PRESS «MVOP», MOVE THE GATE TO THE OPENING LIMIT SWITCH AND PRESS «SETOP»; «L3» LIGHTS UP AS CONFIRMATION

5 - PRESS «MVCL», MOVE THE GATE TO THE CLOSING LIMIT SWITCH AND PRESS «SETCL»; «L5» LIGHTS UP AS CONFIRMATION

REPEAT THE PROCEDURE ON MOTOR 1 AFTER SETTING DIP5 ON «1»

WHEN THE PROCEDURE ENDS, BOTH LEDs «L1» AND «L2» TURN OFF AND THE MOTOR RUNS A COMPLETE OPENING/CLOSING CYCLE

NOTE: WHEN PROGRAMMING STARTS, THE NON-CONNECTED INPUTS ARE DISABLED AND THE CONNECTED ONES MUST NOT BE ACTIVATED (E.G. PHOTOCELLS OR SAFETY EDGE)

9 - RECEIVER AND TRANSMITTERS

NOTE 1: CHECK THAT THE RECEIVER HAS BEEN CORRECTLY PLUGGED-IN WHEN CONTROL UNIT WAS OFF;

NOTE 2: THE OPEN AND CLOSE COMMANDS WILL WORK ACCORDING TO THE LOGIC SET ON THE MAIN CONTROL UNIT

PROGRAMMING OF THE «OPEN» OPENING COMMAND ON THE REMOTE CONTROL KEY

1 - PRESS «LEARN» TWICE UNTIL «L12» LIGHTS UP

2 - WITHIN 5 SECONDS, PRESS «OPEN» AND THE «L10» LED LIGHTS UP

3 - PRESS THE KEY (*) OF THE REMOTE CONTROL ON WHICH TO PROGRAM THE OPENING COMMAND WHILE THE «L10» LED IS ON

4 - THE RED LED «L11» WILL START FLASHING TO CONFIRM THE STORAGE

5 - TO PROGRAM THE KEY OF ANOTHER REMOTE CONTROL, WAIT FOR THE LED «L10» TO LIGHT UP AGAIN AND REPEAT FROM POINT 3

PROGRAMMING THE «CLOSE» OR THE «STOP» COMMAND ON THE REMOTE CONTROL KEY

THE PROCEDURE IS THE SAME FOR THE OTHER COMMANDS; THE ONLY DIFFERENCE IS IN POINT 2 - BY PRESSING «CLOSE» THE LED «L10» FLASHES QUICKLY, WHILE BY PRESSING «STOP» IT FLASHES SLOWLY. THEN PROCEED FROM POINT 3.

* IF THE RADIO CONTROL KEY WAS ALREADY PROGRAMMED, IT WILL BE DELETED: ALL THE LEDs «L10» «L11» «L12» WILL FLASH TO CONFIRM THE CANCELLATION, THEN ONLY «L11» WILL FLASH, FINALLY ONLY «L10» WILL REMAIN LIT AND YOU CAN GO ON FROM POINT 3

10 - RECEIVER MEMORY CLEARING

- 1 - PRESS «LEARN» UNTIL «L12» LIGHTS UP
- 2 - PRESS AGAIN AND HOLD «LEARN» FOR 5 SECONDS AND THE LEDs «L10» AND «L12» START FLASHING QUICKLY, WHILE THE LED «L11» WILL FLASH SLOWLY
- 3 - WHEN ALL THE LEDs TURN OFF, THE CLEARING PROCEDURE WILL BE COMPLETE

10 - DIAGNOSTICS

IT IS POSSIBLE TO SHOW THE UNIREG DIAGNOSTICS ON THE MAIN CONTROL UNIT DISPLAY:

TO ENTER THE DIAGNOSTICS MENU PRESS AND KEEP PRESSED «STOP» «CLOSE» AND «OPEN» ONE AFTER THE OTHER
AS SOON AS THE BUTTONS ARE RELEASED, THE LAST ERROR «10 - TYPE OF ERROR» WILL BE DISPLAYED (EXAMPLE: «10-EDGE»)

SCROLL BACK OR FORTH THROUGH «UP» OR «DOWN» TO SHOW ALL THE LAST 10 ERRORS STORED; THE OLDEST IS «1»

TO EXIT, PRESS «STOP» OR WAIT A MINUTE.

TO RESET THE DIAGNOSTICS MENU, KEEP «STOP» PRESSED UNTIL THE MESSAGE «RESET» APPEARS

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: SEA USA Inc. - FLORIDA (FL) - 33172 - USA - www.sea-usa.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)

(applicable in Countries 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 recommend to separate this product from other types of waste and to recycle it in a responsible way in order to provide the sustainable re-use of material resources. Domestic users are invited to contact the retailer where the product has been purchased or the local office to get all the information related to differential waste collection and recycling of this kind of product

STORAGE

WAREHOUSING TEMPERATURES

T _{min}	T _{Max}	Dampness _{min}	Dampness _{Max}
- 4 °F	+ 149 °F	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



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Gate Operators & Traffic Barriers