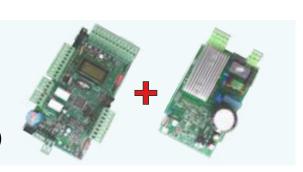




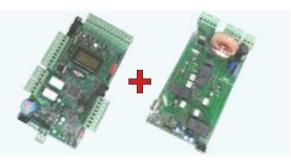
QUICK START

UNIGATE INVERTER

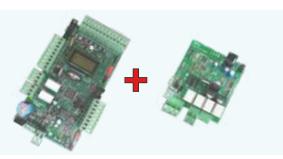
(11 - 21 - 11 BIG - 21 BIG)



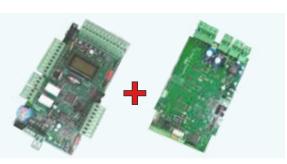
UNIGATE 2PM - 4PM



UNIGATE 24V



UNIGATE BR (36V)



FULL MANUAL (Rev. 11)
&
SAFETY
INFORMATION



SEA S.p.A.

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www.seateam.com seacom@seateam.com





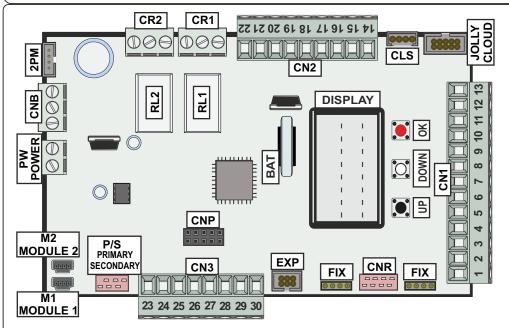
THE UNIGATE REQUIRES THE PROGRAMMING OF THE WORKING TIMES (CHAPTER 13);

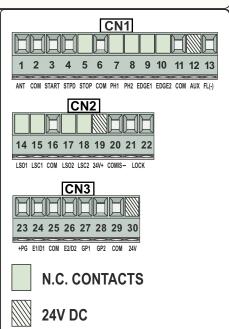
IT IS NOT POSSIBLE TO START THE OPERATOR CORRECTLY WITHOUT FIRST PROGRAMMING THE CONTROL UNIT!

«UNILOGIC» MAIN MODULE - COMPONENTS

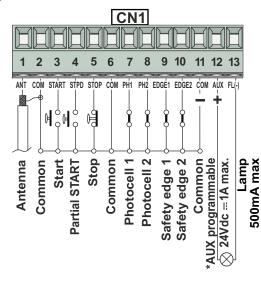


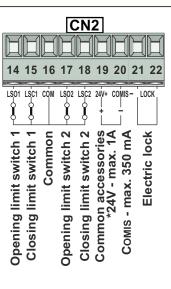
WARNING: CONNECT ALL DEVICES WHEN THE CONTROL UNIT IS SWITCHED-OFF

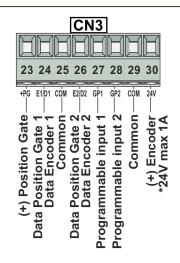




AUTOMATIC RECOGNITION OF THE N.C. INPUTS NOT IN USE - NO JUMPERS REQUIRED ON THE N.C. CONTACTS









CR1 COM1 NO1 NC1



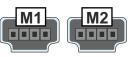
LIMIT SWITCH QUICK CONNECTOR



PRIMARY SECONDARY CONNECTOR



EXTERNAL MODULE CONNECTOR



«FV» - «2PM» - «24V» - «BR» **MODULES CONNECTORS** MOTOR 1 or 2



UNIT **POWER SUPPLY**



2PM MODULE POWER SUPPLY



BATTERY CONNECTOR



CONNECTOR



RF FIX RECEIVER CONNECTOR



JOLLY 3 SEACLOUD



OPEN (Firmware update)

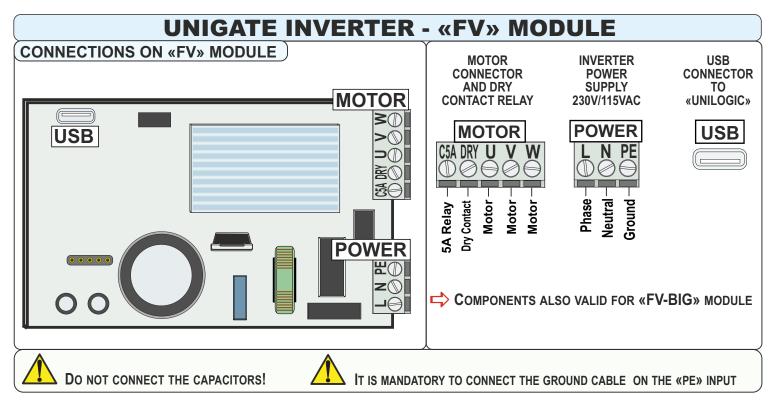


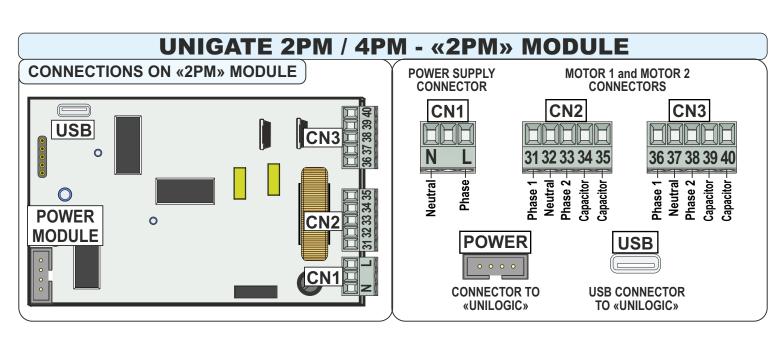
PROGRAMMING BUTTONS

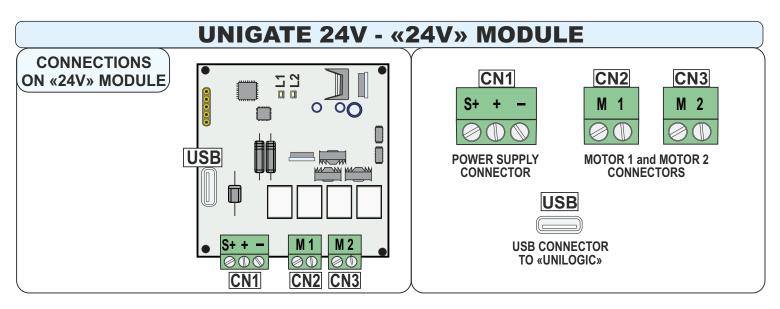
 $[^]st$ All the 24V inputs support a maximum load of 1A referred to the sum of the loads of all 24V ACCESSORIES CONNECTED, INCLUDING THE ABSORPTION OF THE RECEIVER ON BOARD (30 mA)





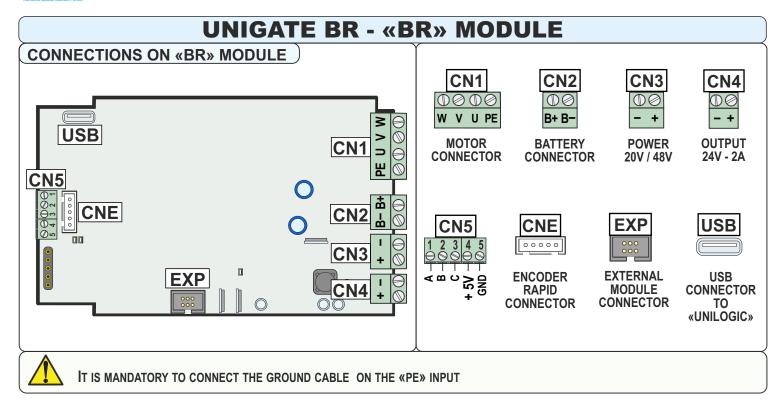












QUICK START 1 Make all the connections when the control unit is switched-off: accessories (CHAP. 1), MOTORS (CHAP. 2 - 5), POWER SUPPLY (CHAP. 6 - 10) 2 DO NOT JUMPER THE N.C. CONTACTS (AUTOMATIC DETECTION OF THE N.C. CONTACTS NOT IN USE)

3 POWER ON THE CONTROL UNIT AND CHECK THE CORRECT STATUS OF THE INPUTS (CHAP. 11)

extstyle ext

OPTIONAL - SET UP THE «START» COMMAND ON THE TRANSMITTER (CHAPTER 12)

5 | SET A PAUSE TIME TO OPERATE IN «AUTOMATIC» LOGIC, OTHERWISE THE LOGIC WILL BE **«SEMI-AUTOMATIC»** (AUTOMATIC RECLOSING DISABLED)

PAUSE TIME

6 CHOOSE THE MOTOR TYPE ON MENU 3 (SEE THE MENU TABLE)

MOTOR

7 Move the operator using the menus

; IF THE GATE OPENS BY PRESSING

AND IF THE GATE CLOSES BY PRESSING 🔼 THE MOTORS RUN CORRECTLY, OTHERWISE SWAP THE **MOTORS CABLES**

8 START THE WORKING TIMES LEARNING BY FOLLOWING THE PROCEDURE IN CHAPTER 13

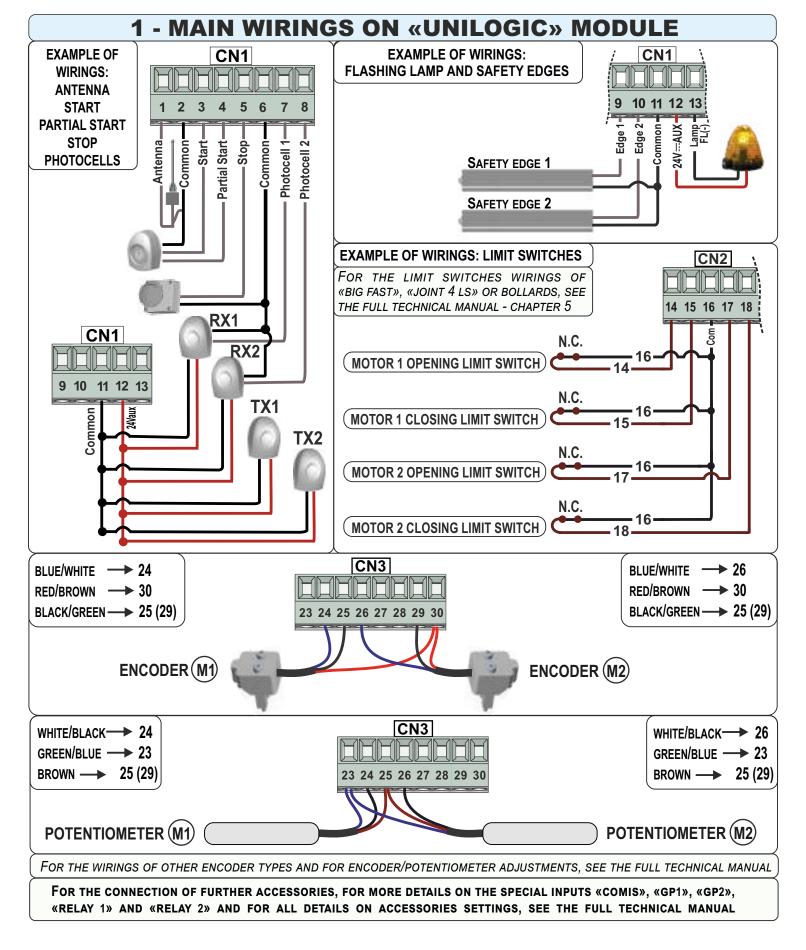
THE UNIGATE UNIT HAS HUNDREDS OF SPECIFIC FUNCTIONS AND SETTINGS THAT ALLOW ITS USE IN VARIOUS APPLICATIONS AND CONDITIONS; IT ALSO ALLOWS THE CONNECTION OF MANY ACCESSORIES, SUCH AS DIFFERENT TYPES OF ENCODERS OR LIMIT SWITCHES, POTENTIOMETERS, BUTTONS, VARIOUS SAFETY DEVICES, ETC.



FOR ALL THESE REASONS, SEA RECOMMENDS TO BROWSE THE COMPLETE TECHNICAL MANUAL **BEFORE USE!**

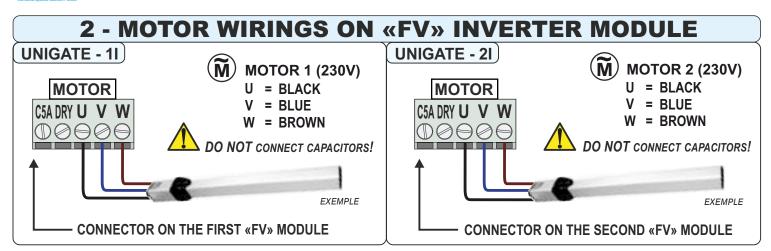


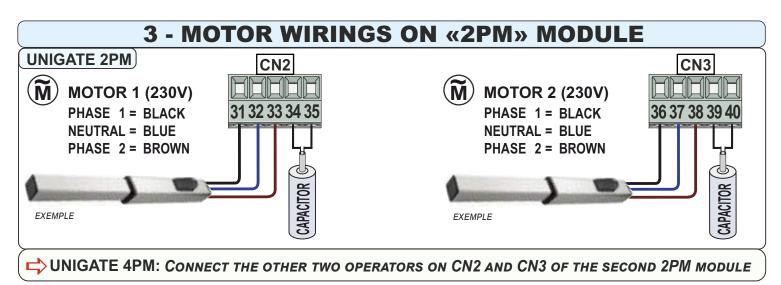


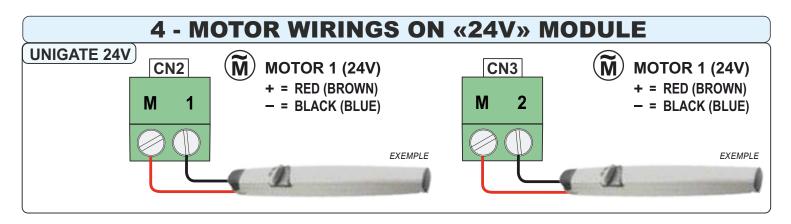


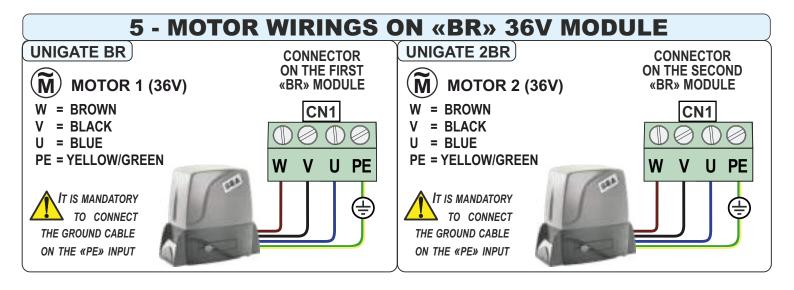








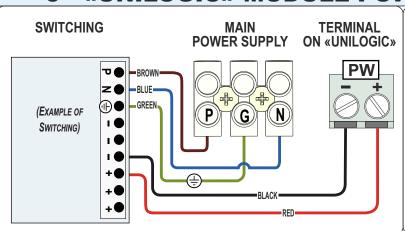








6 - «UNILOGIC» MODULE POWER SUPPLY WIRINGS

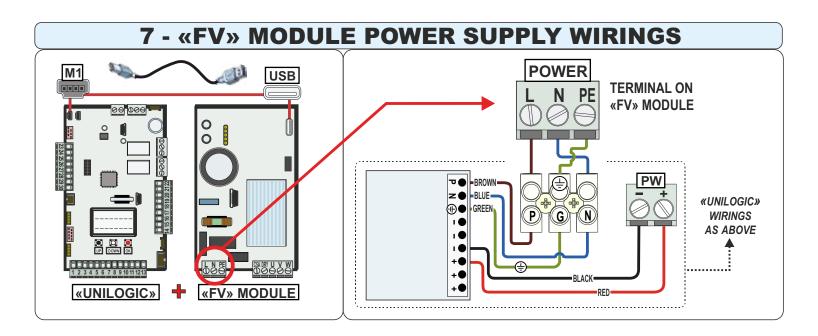


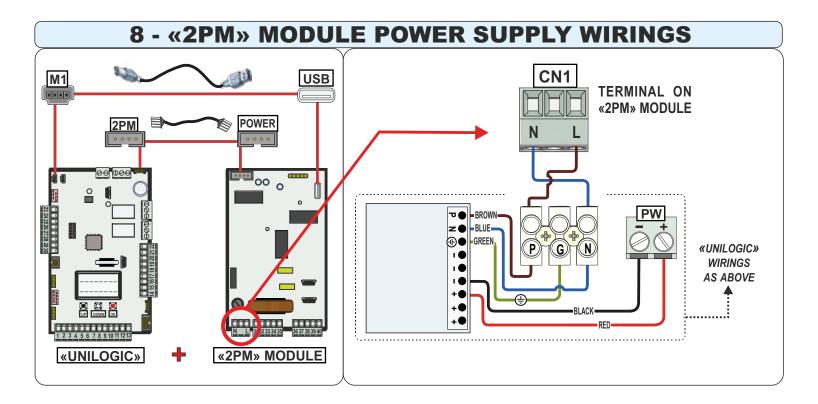
- FUSE 16AT DELAYED ON 230V~ POWER SUPPLY
 FUSE 16AT DELAYED ON 115V~ POWER SUPPLY
- USE A 16A DIFFERENTIAL SWITCH TO PROTECT THE POWER SUPPLY SYSTEM
- IN CASE OF UNSTABLE POWER SUPPLY, THE USE OF AN EXTERNAL UPS OF MIN.800VA IS RECOMMENDED



FOR THE CONNECTION TO THE POWER GRID

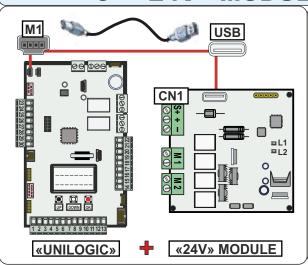
RESPECT THE LAWS IN FORCE

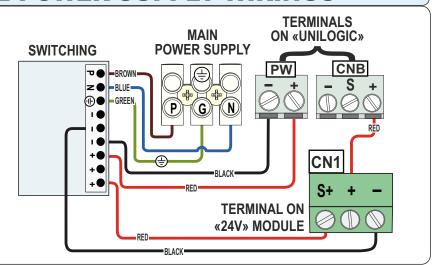




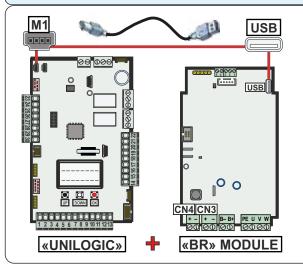


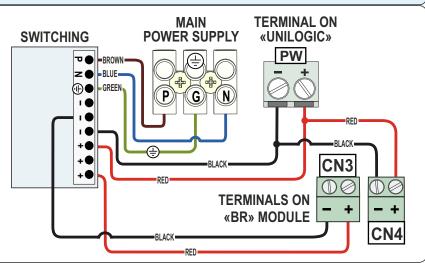
9 - «24V» MODULE POWER SUPPLY WIRINGS





10 - «BR» MODULE POWER SUPPLY WIRINGS





11 - INPUTS STATUS

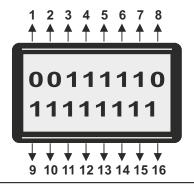
- EVERY INPUT CORRESPONDS TO A POSITION ON THE DISPLAY, ACCORDING TO THE DIAGRAM BELOW
- EVERY INPUT CAN BE: NORMALLY OPEN (0) NORMALLY CLOSED (1)



N.O. - NORMALLY OPEN



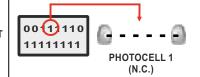
N.C. - NORMALLY CLOSED

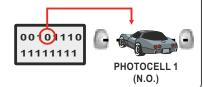


- 1 START (**)
- 2 PARTIAL START
- 3 STOP
- 4 PHOTOCELL 1
- 5 PHOTOCELL 2
- 6 SAFETY EDGE 1
- 7 SAFETY EDGE 2
- 8 NOT IN USE
- 9 MOTOR 1 OPENING LIMIT SWITCH
- 10 MOTOR 1 CLOSING LIMIT SWITCH
- 11 MOTOR 2 OPENING LIMIT SWITCH
- 12 MOTOR 2 CLOSING LIMIT SWITCH
- |13| E1/D1 (DATA M1) *(*)*
- 14 E2/D2 (DATA M2) (*)
- 15 GP1 (*)
- 16 GP2 (*)
- * INPUTS AVAILABLE ONLY IF THE SLOWDOWN LIMIT SWITCHES ARE CONNECTED FOR MORE DETAILS, SEE THE FULL TECHNICAL MANUAL







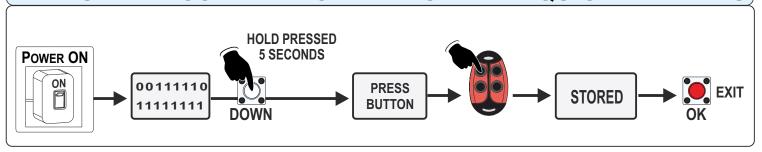


Start and Partial Start must be N.O. (0) - All other contacts must be N.C. (1)





12 - «START» COMMAND ON TRANSMITTER QUICK LEARNING



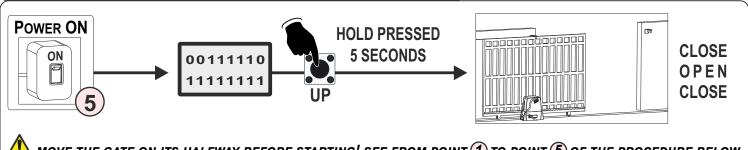
13 - WORKING TIMES LEARNING



DANGER!

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

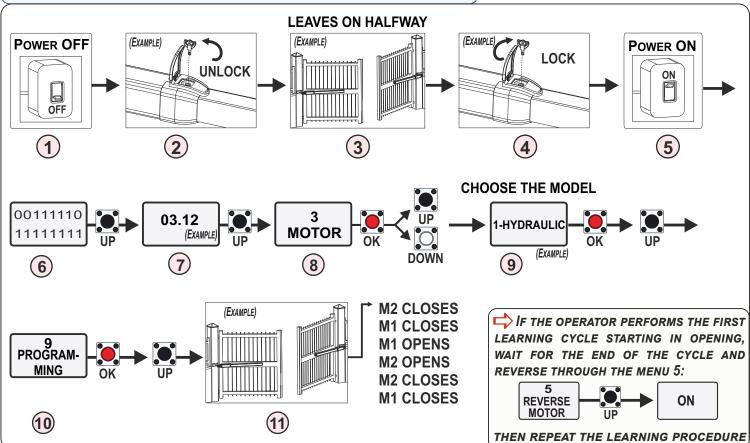
QUICK START - ONLY FOR SEA SLIDING OPERATORS



⚠м

MOVE THE GATE ON ITS HALFWAY BEFORE STARTING! SEE FROM POINT 1 TO POINT 5 OF THE PROCEDURE BELOW

PROCEDURE - MORE DETAILS IN THE FULL TECHNICAL MANUAL



THE WORKING TIMES LEARNING COULD REQUIRE THE INSTALLATION OF LIMIT SWITCHES OR ENCODER OR POTENTIOMETER;
FOR THE NECESSARY SETTINGS, CONSULT THE FULL TECHNICAL MANUAL

MENU FUNCTIONS TABLE - UNIGATE

LEGEND

<u>INVERTER</u> - FUNCTION AVAILABLE ON MODEL UNIGATE WITH "FV" INVERTER MODULE (1I - 2I - 1I BIG - 2I BIG)

2PM - FUNCTION AVAILABLE ON MODEL UNIGATE WITH 2PM MODULE

24V - FUNCTION AVAILABLE ON MODEL UNIGATE WITH 24V MODULE

BR - FUNCTION AVAILABLE ON MODEL UNIGATE WITH BR MODULE

ALL - COMMON FUNCTIONS - AVAILABLE ON ALL UNIGATE MODELS

	MENU	SET	DESCRIPTION	MODEL	DEFAULT
		Italiano	Italian		
		English	English		
L	LANGUAGE	Français	French	ALL	English
		Español	Spanish		
		Dutch	Dutch		
		Start	Start		
		Partial opening	Partial opening		
		External module	External module		
		Stop	Stop		
2 TRANSMITTE		Relay 1	To Activate Relay 1 for 3 seconds. This function requires menu "Relay 1" set on "TX Relay"		
		Relay 2	To Activate Relay 2 for 3 seconds. This function requires menu "Relay 2" set on "TX Relay"		
	TDANISMITTEDS	Bistable Stop	Pressed once, it stops the gate. Pressed twice, it reactivates the START input	A 11	Start
	TRANSMITTERS	Latch opening	One impulse opens and keep open. A second impulse restore the movement	ALL	Partial openin g
		Latch closing One impulse closes and keep closed. A second impulse restore the movement	·		
		Unlock	To store a command for unlocking the electric brake		
		Delete a transmitter	To delete a single transmitter (TX)		
		Move to EEP	To transfer the transmitters stored on the control unit to the external EEPROM (MEM), if connected	t	
		Clear memory	To delete the full TX memory on the receiver		
		End	To exit the menu "transmitters"		
		1- Hydraulic	Hydraulic operators - Series I (INVERTER)		
		2- Sliding	Sliding operators - Series I (INVERTER)		
		3- Reversible Sliding	Reversible sliding operators - Series I (INVERTER)	INVERTER	
		4- Electromechanic swing	Electromechanic swing operators - Series I (INVERTER)	2PM	
		5- Three-phase - Bollards	Three-phase operators and Bollards Series I BIG (INVERTER with BIG module)		
		7- Barrier	Barriers - Series I (INVERTER)		
		8- BIG Fast	Sliding operators - Series I BIG		
	MOTOR	BIG Super Fast 4LS	(INVERTER with BIG module)		Hydraulic
		9- BIG	Sliding operators - Series I BIG (INVERTER with BIG module)		
		10 - JOINT 4LS	Hydraulic operator with 4 limit switch Series I (INVERTER)	INVERTER	
		60 - BIG RS 485	Sliding operators - Series I BIG (INVERTER with BIG module)		
		61- SEAGEAR RS 485	Sliding operators - Series I BIG (INVERTER with BIG module)		
		62- RAPID DOOR	Electromechanic operator - Series I (INVERTER)		
		64- LEPUS FAST *	Sliding operators - Series I (INVERTER)		

	MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		32- ORION BOX FAST	24Vdc electromechanic operator			
		35 - SURF	24Vdc electromechanic operator			
		39 - HT 270/390 24VDC	24Vdc hydraulic operator	24V	SURF	
		43 - SURF FAST	24Vdc electromechanic operator			
		65 KITE LS	24Vdc electromechanic operator			
		50 - HALF TANK BR	Hydraulic operator - Series BR (BRUSHLESS)			
3	MOTOR	51 - SURF BR	Electromechanic swing operator - Series BR (BRUSHLESS)			
		52 - SATURN BR	Electromechanic operator - Series BR (BRUSHLESS)			
		54 - SPRINT BR	Hydraulic barrier - Series BR (BRUSHLESS)		HALF	
		55 KITE LS BR	Operatore elettromeccanico - Serie BR (BRUSHLESS)	BR	TANK BR	
		56- COMPACT BR	Hydraulic operator - Series BR (BRUSHLESS)			
		57 - JOINT BR	Operatore idraulico - Serie BR (BRUSHLESS)			
		58- LEPUS BR (ABC)	Scorrevole con Encoder ABC - Serie BR (BRUSHLESS)			
* On	ly for LEPUS FAST 220	V. In case of LEPUS FAST 1	10V, choose the option 2-Sliding		l l	
		From 1 to 2		INVERTER	1	
4	GATES NUMBER	FIOIII 1 to 2	To set the number of motors to be managed	24V - BR	1	
		From 1 to 4		2PM	2	
5	REVERSE MOTOR	On	To reverse the opening with the closing or vice-versa (both motors and limit-switches are reversed)	ALL	Off	
		Off	Off			
		Automatic	Automatic			
		Open-stop-close-stop-open	Step by step type 1			
_	LOGIC	Open-stop-close-open	Step by step type 2	A / /	Auto-	
6		2 button	Two buttons	ALL	matic	
		Safety	Safety			
		Dead man	Dead man	1		
7	PAUSE TIME	Off	Semi-automatic logic - (a START command opens and another START closes - automatic closing disabled)	ALL	Off	
		1 240	Setting from 1 second to 4 minutes			
_	_	Off	The Start command is not accepted during pause			
8	START IN PAUSE	On	The Start command is accepted during pause	ALL	Off	
		Off On	To start the working times self-learning	ALL		
9	PROGRAMMING	Choose direction	This menu is shown only if an Encoder RS 485 is connected - it allows to program one or two operators with RS 485 Encoder, in automatic or manual mode	INVERTER 24V BR	Off	
10	TEST START	Off On	To give a Start command for testing the automation	ALL	Off	
11	BEAM LENGTH	3m - 4m - 5m - 6m 7m - 7,5m - 8m	This menu will be shown only if the option 7-Barrier is set in the menu 3-MOTORS . It allows to choose the beam length <i>(values in meters)</i>	INVERTER BR		
12	SLOWDOWN LIMIT SWITCH	Off On	This menu will be shown only if the option 5-Threephase/Bollards is set in the menu 3-MOTORS. It allows to activate the slowdown limit switch on bollards	INVERTER	Off	
13	LATCH PAUSE	Off On	If "ON" the operator complies with the pause time set when the function "LATCH OPENING" is disabled. When "OFF" the pause time set is not respected	INVERTER 24V BR	Off	

	MENU	SET	DESCRIPTION			MODEL	DEFAULT	NOTE	
14	RESET	A count-down of 5 seconds	count-down of 5 seconds will start by holding the UP button; at its end "INIT" will appear on the display as confirmation of the control board reset						
192	MOVE GATE 1 *	(for example to test the cor HOLD UP PRESSED = THE (Illows the movement of the gate in a temporary "dead man" mode for example to test the correct running of the motor) IOLD UP PRESSED = THE GATE OPENS IOLD DOWN PRESSED = THE GATE CLOSES UP DOWN						
193	MOVE GATE 2 *	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 UP DOWN				INVERTER 24V BR			
* The	e command is accepted	only at the end of the cycle o	or after a STOP; it is not accepted during the	cycle	and durin	ng the paus	e		
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

LEGEND

INVERTER - FUNCTION AVAILABLE ON MODEL UNIGATE WITH "FV" INVERTER MODULE (11 - 21 - 11 BIG - 21 BIG)

2PM - FUNCTION AVAILABLE ON MODEL UNIGATE WITH 2PM MODULE

24V - FUNCTION AVAILABLE ON MODEL UNIGATE WITH 24V MODULE

BR - FUNCTION AVAILABLE ON MODEL UNIGATE WITH BR MODULE

ALL - COMMON FUNCTIONS - AVAILABLE ON ALL UNIGATE MODELS

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NO
		10 100		INVERTER		
17	OPENING SPEED 1	20 100	Speed in opening Motor 1	24V	80	
		30 100	1	BR		
		10 100		INVERTER		
18	CLOSING SPEED 1	20 100	Speed in closing Motor 1	24V	80	
		30 100	1	BR	İ	
		10 100		INVERTER		
19	OPENING SPEED 2	20 100	Speed in opening Motor 2	24V	80	
		30 100	1	BR	İ	
		10 100		INVERTER		T
20	CLOSING SPEED 2	20 100	Speed in closing Motor 2	24V	80	
		30 100		BR	i l	
	SLOWDOWN SPEED	From 10% to 60%		INVERTER		T
21	IN OPENING 1	of the maximum speed	slowdown speed in opening Motor 1	24V - BR	30	
22	SLOWDOWN SPEED	From 10% to 60%	slowdown speed in closing Motor 1	INVERTER	20	
22	IN CLOSING 1	of the maximum speed	slowdown speed in closing Motor 1	24V - BR	30	
22	SLOWDOWN SPEED	From 10% to 60%	alaudaum anadia ananina Matan 2	INVERTER	20	
23	IN OPENING 2	of the maximum speed	wdown speed in opening Motor 2	24V - BR	30	
	SLOWDOWN SPEED	From 10% to 60%		INVERTER		20
24	IN CLOSING 2	of the maximum speed	slowdown speed in closing Motor 2	24V - BR	30	
		10% 100 %	To adjust the time self-learning speed. This parameter	INVERTER		T
	LEARNING SPEED	20% 100 %	can change according to the motor type set	24V BR	50	
ΙΩΤ	· The range of values		PEED menus may vary according to the operator model	210 211	<u>l</u>	_
				/A/V/EDTED	I	Т
	LEAF DELAY IN OPENING	Off 6 Total	Adjustable from Off to 6 seconds to "Total" (if on "Total" the Motor2 will start opening only after	INVERTER 24V	1,5	
26			the Motor1 has completed the movement)	BR		
		Off 6	Adjustable from OFF (disabled) to 6 seconds	2PM		-
		Off 6				╁
	LEAF DELAYIN	Off 20 Total	Adjustable from Off to 20 seconds to "Total" (if on "Total" the Motor1 will start closing only after	INVERTER 24V		
27	LEAF DELAY IN CLOSING	Off 20 Total	the Motor2 has completed the movement)	BR	2,5*	
	CLOSING	Off 20	Adjustable from OFF (disabled) to 20 seconds			H
		Off 20	Adjustable from OFF (alsablea) to 20 seconds	2PM INVERTER		╁
		50% 100 %	Motor 1 opening torque: by increasing the torque,	2PM		
28	OPENING TORQUE 1	10% 100 %	more strength will be required to execute the inversion	24V	100%	
		5% 100 %	in case of obstacle	BR	<u>.</u> 	-
				INVERTER		t
		50% 100 %	Motor 1 closing torque: by increasing the torque, more	2PM		
29	CLOSING TORQUE 1	10% 100 %	strength will be required to execute the inversion in	24V	100%	
		5% 100 %	case of obstacle	BR		
		50% 100 %	Motor 2 opening torque: by increasing the torque,	INVERTER		Ī
30	OPENING TORQUE 2	10% 100 %	more strength will be required to execute the inversion	2PM	100%	-
	5. 2.1 15.NQOL 2		in case of obstacle	24V	 	_
		5% 100 %		BR		1
		50% 100 %	Motor 2 closing torque: by increasing the torque, more	INVERTER 2PM		
31	CLOSING TORQUE 2 109	10% 100 %	strength will be required to execute the inversion in	24V	100%	F
		5% 100 % case	case of obstacle	BR	100%	H
		17.70	1	nk	I	1

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE	
32	ENCODER	On	ON = Encoder enabled OFF = Encoder disabled (when OFF, the working times learnt are only shown)	ALL	It depends on motor		
		Enc ABC	To enable the rotary Encoder for the management of the brushless operator and its position	BR	It depends on motor		
	47 ENCODER PAR.1	xxx.	Impulses read by Encoder during operation (Motor1)				
	48 ENCODER TOT. 1	xxx.	Impulses stored during programming (Motor 1)				
	49 ENCODER PAR.1	xxx.	Impulses read by Encoder during operation (Motor2)				
	50 ENCODER TOT. 2	xxx.	Impulses stored during programming (Motor 2)				
		Potentiometer	To enable the reading of the potentiometer	ALL			
32	ENCODER	Absolute	To enable the reading of the absolute Encoder	INVERTER BR	Off		
		RS 485	To enable the reading of the absolute rotative Encoder	INVERTER 24V - BR			
	51 I.PAR.M1 *		To show the current position of the potentiometer on the state of the potentiometer is useful to see if the potentiometer is a second to the potentiometer is a second to the potentiometer is a second to the potentiometer is a second to the potentiometer is a second to the potentiometer is a second to the potentiometer is a second to the potentiometer of the potentioneter of the potent			otor	
	52 I.AP.M1	From the value learnt to ± 100 pulses	To show the impulses stored by the control unit when the impulse stored by the control unit when the control u	ne leaf mov	ed by M	otor	
	53 I.CH.M1	From the value learnt to ± 100 pulses	To show the impulses stored by the control unit when the leaf moved by Motor 1 is fully close				
	54 I.PAR.M2 *		To show the current position of the potentiometer on the leaf moved by Motor 2. This parameter is useful to see if the potentiometer is correctly read				
	55 I.AP.M2	From the value learnt to ± 100 pulses	To show the impulses stored by the control unit when the impulse stored by the control unit when the control u	ne leaf mov	ed by M	otor	
	56 I.CH.M2	From the value learnt to ± 100 pulses	To show the impulses stored by the control unit when the impulse stored by the control unit when the control u	ne leaf mov	ed by M	otor	
*			sible to OPEN (by pressing UP) or CLOSE (by pressing DOV g of the potentiometer after installation or simply for che	-	rrspondin	g	
32	ENCODER	Off	ON = Encoder enabled OFF = Encoder disabled (when OFF, the working times learnt are only shown)	ALL	Off		
	65 OPENING TIME M1	XXX.5	To display the learnt value during the working times self	•			
	66 CLOSING TIME M1	XXX.5	closing (Motor 1) . With UP or DOWN it is possible to working times	increase c	r reduce	the	
	67 OPENING TIME M2	xxx.s	To display the learnt value during the working times self closing (Motor 2). With UP or DOWN it is possible to				
	68 CLOSING TIME M2	xxx.s	working times				
33	OPENING SENSITIVITY MOTOR	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 1 in opening	ALL	Off		
	1	Off (Intervention excluded)	Disabled				
34	CLOSING SENSITIVITY MOTOR 1	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 1 in closing	ALL	Off		
		Off (Intervention excluded)	Disabled				
35	OPENING SENSITIVITY MOTOR	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 2 in opening	ALL	Off		
	2	Off (Intervention excluded)	Disabled				
36	CLOSING SENSITIVITY MOTOR 2	10% (Fast intervention) 99% (Slow intervention)	To adjust the Encoder or Potentiometer intervention time on Motor 2 in closing	ALL	Off		
<u> </u>	· -	Off (Intervention excluded)	Disabled				

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
37	SLOWDOWN	10% (Fast intervention) 99% (Slow intervention)	To adjust the amperometric sensitivity in slowdown Function available only on electro-mechanic operators	ALL	Off	
37	SENSITIVITY MOTOR	With potentiometer	To set the inversion time in slow-down from 0 to 5 seconds (= 99%) - Only with potentiometer enabled	ALL	30%	
38	POTENTIOMETER 1 THRESHOLD IN OPENING		To adjust the threshold of the potentiometer			
39	POTENTIOMETER 1 THRESHOLD IN CLOSING	1 1000 (only if the	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	ALL		
40	POTENTIOMETER 2 THRESHOLD IN OPENING	Menu 32 is set on "Potentiometer")	value shown in VP1 or VP2 (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.			
41	POTENTIOMETER 2 THRESHOLD IN CLOSING					
42	POTENTIOMETER 1 OPENING SLOW DOWN THRESHOLD					
43	POTENTIOMETER 1 CLOSING SLOW DOWN THRESHOLD	1 100 (only if the	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 or VP2 (instantaneous speed values which can be shown by accessing the DEBUG menu)	ALL	15	
44	POTENTIOMETER 2 OPENING SLOW DOWN THRESHOLD	Menu 32 is set on "Potentiometer")			13	
45	POTENTIOMETER 2 CLOSING SLOW DOWN THRESHOLD					
46	CLOSING INVERSION	Total	In case of obstacle or safety edge it totally reverses the movement during closing. If active, the automatic reclosing will be attempted for 5 times	ALL	Total	
10		Partial	In case of obstacle, safety edge or potentiometer, it partially reverses direction <i>(of about 30 cm)</i> then stops	ALL	rotur	
		For menu	47 and 50 see menu 32-Encoder = On			
		For menu from 51	to 56 see menu 32-Encoder = Potentiometer			
57	WORKING CURRENT 1	Ampere	To display the absorbed current during Motor 1 working	INVERTER 24V BR		
58	WORKING CURRENT 2	Ampere	To display the absorbed current during Motor 2 working	INVERTER 24V BR		
59	OPENING SLOWDOWN 1	0 50	From 0% to 50% of the stroke (0% = slowdown excluded)	ALL	30	
60	CLOSING SLOWDOWN 1	0 50	From 0% to 50% of the stroke (0% = slowdown excluded)	ALL	30	
61	OPENING SLOWDOWN 2	0 50	From 0% to 50% of the stroke (0% = slowdown excluded)	ALL	30	
62	CLOSING SLOWDOWN 2	0 50	From 0% to 50% of the stroke (0% = slowdown excluded)	ALL	30	
63	DECELERATION	100%	To adjust the change from normal speed to slowdown speed	ALL	depends on motor	
64	ACCELERATION	0,1 s 5 s	Acceleration ramp. To adjust the motor start	ALL	depends on motor	
	For ment	ı from 65 to 68 see menu 3.	2-Encoder = Off (They are visible even with 32-Encoder se	et ON)		

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
69	ANTI OVERLAP	Off	To disable the anti-overlapping control of the leaves allowing their separate control	ALL	Off	
		On	To enable the anti-overlapping control of the leaves			
70	OPENING POSITION RECOVERY	0 20 seconds (only if 32-Encoder is OFF)	To retrieve the inertia of the motor in opening after the Stop or the reversing	ALL	It depends on motor	
71	CLOSING POSITION RECOVERY	0 20 seconds (only if 32-Encoder is OFF)	To retrieve the inertia of the motor in closing after the Stop or the reversing	ALL	It depends on motor	
72	OPENING TOLE- RANCE MOTOR 1	0% 100%	To adjust the Motor 1 tolerance between the stop and the obstacle, in opening	ALL	20%	
73	CLOSING TOLE- RANCE MOTOR 1	0% 100%	To adjust the Motor 1 tolerance between the stop and the obstacle, in closing	ALL	20%	
74	OPENING TOLE- RANCE MOTOR 2	0% 100%	To adjust the Motor 2 tolerance between the stop and the obstacle, in opening	ALL	20%	
75	CLOSING TOLE- RANCE MOTOR 2	0% 100%	To adjust the Motor 2 tolerance between the stop and the obstacle, in closing	ALL	20%	
76	PUSHING STROKE	Time Pushing Off - 3 sec Stroke Repeat	Before opening, the motor starts in closing for the time set, in order to simplify the lock release	ALL	Off	
	T GSTIING STROKE	Lock Off – On Release End	If ON , the lock will be released both before and after the pushing stroke			
77	LOCK TIME	Off 5	To adjust the lock release time from 0 to 5 seconds	ALL	3	
		Only opening	Lock enabled only before opening			
78	LOCK	Only closing	Lock enabled only before closing	ALL	Only	
		Opening and closing	Lock enabled before opening and closing		opening	
		Only opening				
	ANTI INTRUSION	Only closing	If the gate is forced manually, the control unit starts the motor and restores the state of the gate before forcing (function only available if limit switches are installed)			
79		Opening and closing		ALL	Off	
		Off	gunction only available if finite switches are installed			
		Off				
	DUCUOVED	Opening and closing	The gate leaf makes an extra movement at the	A / /	044	
80	PUSHOVER	Only closing	maximum torque to ensure the tightening of the gate	ALL	Off	
		Only opening				
81	PERIODICAL PUSHOVER	Off 8h (only if 80-Pushover is ON)	To activate the repetition of the pushover function at a distance of time adjustable from 0 to 8 hours, at hourly intervals	ALL	Off	
		Opening 1 Off - 3 s				
		Closing 1 Off - 3 s)		. It	
82	MOTOR RELEASE	Opening 2 Off - 3 s	If different from OFF, the operator slightly reverses its direction at the end of the cycle	ALL	depends on	
		Closing 2 Off - 3 s	ישוו בכנוטוו מנינווב בווע טוינווב בעכוב		motor	
		End				L
		Opening1 Off - 10s				
		Closing 1 Off - 10s	If the limits and the base of the limits of	INVERTER		
83	EXTRA TIME	Opening2 Off - 10s	If the limit switches are installed, it is possible to add an extra time (max. 10 seconds) to the movement of the	24V	1.0 s	
03	LATINA IIIVIL	Closing 2 Off - 10s	operators after the reading of the limit switches	BR	1.03	
		EXIT				
		0.0 s 10 s		2PM		
85	PRE-FLASHING	Only closing	To enable the pre-flashing only before closing (to access: push DOWN button when 0.0 value is shown)	ALL	0.0 s	
		0.0 5.0 s	To set the pre-flashing duration			

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		Normal	Normal			
86	FLASHING LIGHT	Light	Warning lamp function	ALL	Normal	
30	LASTING LIGHT	Always	Always ON	ALL	Norman	
		Buzzer	Buzzer			
87	FLASHING LIGHT AND	Off	The flashing light will be OFF with enabled timer and open gate	ALL	Off	
	TIMER	On	The flashing light will be ON with enabled timer and open gate	7122	0))	
		Off	Disabled			
88	COURTESY LIGHT	1 240	Adjustable from 1 second to 4 minutes	ALL	In cycle	
		In cycle	Courtesy light only in cycle			
89	TRAFFIC LIGHT RESERVATION	Off On	To get the priority in entry or exit. Available by the use of the partial opening contact	ALL	Off	
90	PARTIAL OPENING	5% 100%	Adjustable from 5% to 100%	ALL	50%	
04	DADTIAL DALIGE	= Start	The pause in partial opening is the same as in total opening	A.1.1		
91	PARTIAL PAUSE	Off	Disabled	ALL	= Start	
		1 240	Adjustable from 1 second to 4 minutes			
	TIMER	Off			Off	
92		On photo2	To turn the selected input into an input to which connect an external clock	ALL		
		On partial input Clock	Connect an external clock			
		Off	Disabled	ALL		
93	FIRE SWITCH	On Photo2	Function enabled on the Photocell 2 input		Off	
		On partial input	Function enabled on the partial opening Start input		,,,	
		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 during cycle only and for safety devices testing			
94	24V AUX	In cycle and pause	AUX output powered during cycle and during pause	ALL	Always	
	(Max. 500 mA)	Courtesy light (connected via relay)	To connect an additional courtesy light via relay. Management according to the Menu-88 settings		Aiways	
		Barrier and Bollard LED lights	Closed operator - the light is switched-on Open operator - the light is switched-off Moving operator - the light blinks			
		Open gate warning light (connected via relay)	1 flash per second during opening 2 flashes per second during closing Steady lit in "Stop" or "Open" status			
	Fo	Fan (connected via relay)	AUX output powered during cycle and for 2 additional minutes after the end of the cycle	INVERTER		

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		Photo 1	Self-test enabled only on photocell 1			
ΩE	PHOTO-TEST	Photo 2	Self-test enabled only on photocell 2	ALL	Off	
33	PHOTO-TEST	Photo 1 and 2	Self-test enabled on photocells 1 and 2	ALL	Off	
		Off	Disabled			
		Edge 1	Self-test enabled only on safety edge 1			
06	SAFETY EDGE SELF-TEST Edge 2 Edges 1 and 2	Edge 2	Self-test enabled only on safety edge 2		0,11	
96		Self-test enabled on safety edges 1 and 2	ALL	Off		
		Off	Disabled			
		Closing	If the photocell is occupied during closing, the gate reverses the movement; If the photocell is occupied during the pause, it prevents the gate reclosing			
		Opening and closing	If the photocell is occupied during opening or closing, it stops the gate movement; when the photocell is released, the movement continues			
		Stop	If the photocell is occupied before the Start input, the Start will be ignored. If the photocell is occupied after the Start input, the photocell will be ignored. If the photocell is occupied during closing, the gate will reopen			
		Stop and close	If the photocell is occupied during closing, it stops the gate 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)			
97	PHOTOCELL 1	Closing Pause reloading	If the photocell is occupied during the pause, it reloads the same pause time set. If the photocell is occupied in closing, it reverses the gate movement	ALL	Closing	
		Opening and Closing Pause reloading	If the photocell is occupied during the pause, it reloads the pause time set. If the photocell is occupied during the closing, it reverses the gate movement; If the photocell is occupied during the opening, it stops the gate and when released, the opening movement continues			
		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 PR (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	DESCRIPTION	MODEL	DEFAULT	NOTE
		Closing	If the photocell is occupied during closing, the gate reverses the movement; If the photocell is occupied during the pause, it prevents the gate reclosing			
		Opening and closing	If the photocell is occupied during opening or closing, it stops the gate movement; when the photocell is released, the movement continues			
		Stop	If the photocell is occupied before the Start input, the Start will be ignored. If the photocell is occupied after the Start input, the photocell will be ignored. If the photocell is occupied during closing, the gate reopens			
		Stop and close	If the photocell is occupied during closing, it stops the gate; 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)			
		Opening Pause reloading	If the photocell is occupied during the pause, it recharges the same pause time set. If the photocell is occupied during the opening, the gate stops and when released, the movement continues		Opening	
98	PHOTOCELL 2	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	ALL	and closing	
		Opening and Closing Pause reloading	If the photocell is occupied during the pause, it reloads the pause time set. If the photocell is occupied during the closing, it reverses the movement; If the photocell is occupied during the opening, it stops the gate and when released, the opening continues			
		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 PR (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 stops; when released, the gate continues the opening movement. The photocell is ignored during closing			
* If	the module 2PM is i	n use, the shadow loop o	loes not enable when the menu-121 is seto to "Phot	to 1 10K"		
99	PHOTO OFF IN CLOSING	0% 50%	In closing, this function excludes the photocell reading for the space percentage set	INVERTER 24V	0%	
		Normal	Normal N.C. contact			
		8K2 N.C.	Safety edge protected by a 8K2 resistor enabled			
100	SAFETY EDGE 1	8K2 N.C. Double	Two safety edges protected by 8K2 resistor enabled	ALL	Normal	
		8K2 RES	Resistive edge protected by 8K2 resistor enabled			
		8K2 RES Double	Two resistive edges protected by 8K2 RES enabled			
		Normal	Normal N.C. contact			
		8K2 N.C.	Safety edge protected by a 8K2 resistor enabled			
101	SAFETY EDGE 2	8K2 N.C. Double	Two safety edges protected by 8K2 resistor enabled	ALL	Normal	
		8K2 RES	Resistive edge protected by 8K2 resistor enabled			
		8K2 RES Double	Two resistive edges protected by 8K2 RES enabled			

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		Opening and closing	Safety edge enabled in opening and closing		Opening	
102	SAFETY EDGE 1 DIRECTION	Only opening	Safety edge enabled only in opening	ALL	and	
		Only closing	Safety edge enabled only in closing		Closing	
		Opening and closing	Safety edge enabled in opening and closing		Opening	
103	SAFETY EDGE 2 DIRECTION	Only opening	Safety edge enabled only in opening	ALL	and	
		Only closing	Safety edge enabled only in closing		Closing	
		N. C.	Limit switch type N.C. (Normally Closed) Example: inductive limit switch or with lever			
		Ext	Limit switch connected on the external interface for 4 cams limit switches	INVERTER 24V	N.C.	
	SELECT LIMIT SWITCH	N.O.	Limit switch type N.O. (Normally Open) Example: magnetic limit switch			
104		Automatic	Automatic detection of the limit switch			
		Opening only	Limit switch enabled only in opening			
		Closing only	Limit switch enabled only in closing	2014	Automati C	
		Ext	Limit switch connected on the external interface for 4 cams limit switches	2PM		
		Motor internal	To be enabled if the operator is equipped with an inner limit switch that stops the motor phase			
	PRIMARY/SECONDARY (MASTER/SLAVE)	Primary	To set the control unit as PRIMARY on applications with two operators in primary/secondary mode	INVERTER BR		
105		Secondary	To set the control unit as SECONDARY on applications with two operators in primary/secondary mode		Off	
		Off	Disabled			
106	DIAGNOSTICS	1 10	To display the last event <i>(See alarms table)</i>	ALL		
107	MAINTENANCE CYCLES	100 240000	Adjustable from 100 to 240000 cycles	ALL	100000	
108	PERFORMED CYCLES	0 240000	To display the executed cycles. Hold pressed OK to reset the cycles	ALL	0	
109	THERMOMETER	xx °C (xx °C)	To display the temperature if a probe is connected on GP1 or GP2 (and the menus 130 and 131 are set on "Thermometer") The connection of up to two temperature probes is allowed; (display will show both temperatures detected)	ALL	Off	
110	LOWER THRESHOLD TEMPERATURE	From -20° to +50°	To adjust the temperature threshold of the oil heater probe activation (This menu is shown only if the menu 109-Thermometer is set to ON)	ALL	-10°	
111	UPPER THRESHOLD TEMPERATURE	From -20° to +50°	To adjust the temperature threshold of the oil heater probe deactivation (This menu is shown only if the menu 109-Thermometer is set to ON)	ALL	0°	
112	PASSWORD	Note: "0000" setting is not allowed	To enter a password for blocking the control unit parameters modification	ALL		

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		Off	Disabled			
		Emergency	In case of power failure and with batteries connected and charged, the gate opens completely and remains open until the power is restored			
113	EMERGENCY	Last opening	In case of power failure, as soon as the battery charge drops below 22V, the gate opens one last time and remains open until the power is restored	ALL	Off	
		Last closing	In case of power failure, as soon as the battery charge drops below 22V, the gate closes one last time and remains closed until the power is restored			
115	DECELERATION RAMP	0,1 s 5s	Deceleration management in case of inversion or Stop command	INVERTER 24V BR	0,5 s	
116	REPEAT LEAF DELAY	On Off	In case of a STOP command when the gate is on its halfway, the leaves will repeat the "leaf delay" set on menus 26-27	ALL	On	
117	ALWAYS CLOSE	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 seconds) as soon as the power is restored	ALL	Off	
		Off	Disabled			
	LATCH	Opening	The gate opens and stay open till a new Start input. The latch function uses the "Safety Edge 1" N.O. input (Safety Edge 1 function is so disabled)			
118		Closing	The gate closes and stay closed till a new Start input. The latch function uses the "Safety Edge 2" N.O. input (Safety Edge 2 function is so disabled)	ALL	Off	
		Opening and closing	To enables both the opening and closing functions above described. The latch function uses the "Safety Edge 1" and "Safety Edge 2" N.O. inputs (both safety edges are so disabled)			
119	DISPLAY WRITING SPEED	From 30% to 100%	See Note 2 at the end of the table	ALL	80%	
120	BASIC MENU	The	Press OK to exit the special menu. e special menu switches off automatically after 20 minutes	5		
		Normal	Standard photocell without 10K control	ALL		
121	PHOTO 1 TYPE	Photo 1 10K	Photocell with 10K control	ALL	Normal	
		Photo 1 10K DOUBLE	Double photocell with 10K control	2PM		
		Normal	Standard photocell without 10K control	ALL		
122	PHOTO 2 TYPE	Photo 2 10K	Photocell with 10K control	ALL	Normal	
		Photo 2 10K DOUBLE	Double photocell with 10K control	2PM		
123	DATE AND TIME	Mon - Sun dd/mm/yyyy Time	To set the day, the date and the time for the management of the programmed openings. (Only with full charge buffer battery)	ALL		
		Opening time	To set a first time band in which keeping the gate open.			
		Closing time	It is possible to set, in order: opening time, closing time and the days on which you want to open and keep the			
124	CLOCK 1	Days	gate open	ALL	Off	
		Modify	To modify the pre-set time and day			
		Exit	Exit from menu			

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
125		Opening time	To set a second time band in which keeping the gate open. It is possible to set, in order: opening time, closing time and the days on which you want to open and keep			
		Closing time				
	CLOCK 2	Days	the gate open		Off	
		Modify	To modify the pre-set time and day			
		Exit	Exit from menu			
	CLOCK 3	Opening time	To set a third time band in which keeping the gate open.			
		Closing time	It is possible to set, in order: opening time, closing time and the days on which you want to open and keep the gate open		Off	
126		Days		ALL		
		Modify	To modify the pre-set time and day	1		
		Exit	Exit from menu			
		Opening time	To set a fourth time band in which keeping the gate			
		Closing time	open. It is possible to set, in order: opening time, closing time and the days on which you want to open and keep			
127	CLOCK 4	Days	the gate open	ALL	Off	
		Modify	To modify the pre-set time and day			
		Exit	Exit from menu			
		Off	Disabled		Off	
	GP1	Open	To connect an opening button that allows the automation operating in "Dead Man" logic. The button will only work when the gate is closed or after a Stop command	ALL		
130		Emergency open	To connect an opening button that allows the automation operating in "Dead Man" logic. The button will only work in case of safety devices failure or in case of stuck Start button			
		Thermometer	To connect a temperature probe for the detection of an external temperature which will be shown on the display by accessing menu 109-THERMOMETER (i.e. probe for detection of hydraulic motor oil temperature)			
		Cage	To control the Motor 1 only if the Motor 2 is closed	INVERTER 24V		
	GP2	Off	Disabled	ALL		
		Close	To connect a closing button that allows the automation operating in "Dead Man" logic. The button will only work when the gate is closed or after a Stop command			
131		Emergency close	To connect an closing button that allows the automation operating in "Dead Man" logic. The button will only work in case of safety devices failure or in case of stuck Start button		Off	
		Thermometer	To connect a temperature probe for the detection of an external temperature which will be shown on the display by accessing menu 109-THERMOMETER (i.e. probe for detection of hydraulic motor oil temperature)			
		Cage	To control the Motor 2 only if the Motor 1 is closed	INVERTER 24V		

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		Off	Disabled			
		Start 3s	To enable the Relay 1 for 3 seconds at every Start or reopening command			
		Traffic light 1	Traffic light management: the green light is switched-on only when the gate is open			
		Traffic light in entrance	By a Start command the traffic light in entrance turns green and the access priority is acquired while the traffic light in exit turns red. (with menu 89-TRAFFIC LIGHT BY RESERVATION in ON)			
		Traffic light in exit	By a Start command the traffic light in exit turns green and the access priority is acquired while the traffic light in entrance turns red. (with menu 89-TRAFFIC LIGHT BY RESERVATION in ON)			
		Lock copy	The Relay 1 will be ON for the time set on 78-LOCK menu			
		Flashing light copy	The Relay 1 repeats the flashing-light functions			
	RELAY 1	Courtesy light copy	The Relay 1 will be ON for the time set on 88-COURTESY LIGHT menu	ALL	Off	
		Fire-switch copy	The Relay 1 repeats the menu 93-fireswitch functions			
132 F		Opening 1 limit switch	The Relay 1 will be ON if the motor 1 opening limit switch is activated or if the motor 1 is in "Open" status			
		Closing 1 limit switch	The Relay 1 will be ON if the motor 1 closing limit switch is activated or if the motor 1 is in "Closed" status			
		Opening 2 limit switch	The Relay 1 will be ON if the motor 2 opening limit switch is activated or if motor 2 is in "Open" status			
		Closing 2 limit switch	The Relay 1 will be ON if the motor 2 closing limit switch is activated or if the motor 2 is in "Closed" status			
		Tx Relay	It is possible to activate the Relay 1 for 3 seconds by giving an impulse from the remote control			
		Negative brake and Photocell 1 management	The negative electric-brake is not active on the photocell intervention			
		Negative brake 1 management	Negative electric-brake (in ON with the gate in cycle and 1 second before the Start input)			
		Positive brake 1 management	Positive electric-brake (in ON with stationary gate)			
		Opening electric-valve	The Relay 1 is active during opening			
		Closing electric-valve	The Relay 1 is active during closing			
		Clock 1 and 2	The Relay will be active in the same time band set on menus 124 e 125			

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
		Off	Disabled			
		Start 3s	To enable the Relay 2 for 3 seconds at every Start or reopening command			
		Traffic light 1	Traffic light management: the green light is switched-on only when the gate is open			
		Traffic light in entrance	By a Start command the traffic light in entrance turns green and the access priority is acquired while the traffic light in exit turns red. (with menu 89-TRAFFIC LIGHT BY RESERVATION in ON)			
		Traffic light in exit	By a Start command the traffic light in exit turns green and the access priority is acquired while the traffic light in entrance turns red. (with menu 89-TRAFFIC LIGHT BY RESERVATION in ON)			
		Lock copy	The Relay 2 will be ON for the time set on 78-LOCK menu			
		Flashing light copy	The Relay 2 repeats the flashing-light functions		Off	
	RELAY 2	Courtesy light copy	The Relay 2 will be ON for the time set on 88-COURTESY LIGHT menu			
		Fire-switch copy	The Relay 2 repeats the menu 93-fireswitch functions	ALL		
133		Opening 1 limit switch	The Relay 2 will be ON if the motor 1 opening limit switch is activated or if the motor 1 is in "Open" status			
		Closing 1 limit switch	The Relay 2 will be ON if the motor 1 closing limit switch is activated or if the motor 1 is in "Closed" status			
		Opening 2 limit switch	The Relay 2 will be ON if the motor 2 opening limit switch is activated or if motor 2 is in "Open" status			
		Closing 2 limit switch	The Relay 2 will be ON if the motor 2 closing limit switch is activated or if the motor 2 is in "Closed" status			
		Tx Relay	It is possible to activate the Relay 2 for 3 seconds by giving an impulse from the remote control			
		Negative brake and Photocell 2 management	The negative electric-brake is not active on the photocell intervention			
		Negative brake 2 management	Negative electric-brake (in ON with the gate in cycle and 1 second before the Start input)			
		Positive brake 2 management	Positive electric-brake (in ON with stationary gate)			
		Opening electric-valve	The relay 2 is active during opening			
		Closing electric-valve	The relay 2 is active during closing			
		Clock 3 and 4	The relay will be active in the same time band set on menus 126 e 127			

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT	NOTE
134	RELAY FV 1 (Relay on the FV MODULE 1)	Off	Disabled		It depends on motor	
		Positive brake management	Positive electric-brake (The relay FV1 will be ON only with stopped gate)			
		Negative brake management	Negative electric-brake (The relay FV1 will be ON only during operator cycle, 1 second before start and in case of photocell intervention)	INVERTER		
		Negative brake management and Photocell	Negative electric-brake (The relay FV1 will be ON only during operator cycle and 1 second before start, except in case of photocell intervention)			
		Fan	The relay on FV MODULE will activate for the whole cycle duration plus 2 further minutes			
		Tail Gate	The Relay FV 1 will enable only if the gate is closed			
		Copy Start	The Relay FV 1 will enable at every START command			
		Off	Disabled			
		Positive brake management	Positive electric-brake (The relay FV2 will be ON only with stopped gate)	INVERTER		
	RELAY FV 2 (Relay on the FV MODULE 2)	Negative brake management	Negative electric-brake (The relay FV2 will be ON only during operator cycle, 1 second before start and in case of photocell intervention)			
135		Negative brake management and Photocell	Negative electric-brake (The relay FV2 will be ON only during operator cycle and 1 second before start, except in case of photocell intervention)		It depends on motor	
		Fan	The relay on FV MODULE will activate for the whole cycle duration plus 2 further minutes			
		Tail Gate	The Relay FV 2 will enable only if the gate is closed			
		Copy Start	The Relay FV 2 will enable at every START command			
136	EFO	0% 100%	EFO function will be visible only with menu 3-MOTORS set on "5-Threephase/Bollards" This function generates an emergency closing with a higher speed than the set percentage and without considering the safety devices connected. It works only with BOLLARDS and through a command on the PEDESTRIAN START input	INVERTER	50%	
137	COMIS	0 350 mA	It shows the absorption of the accessories connected on input 20 (it only works if an accessory is connected at least)	ALL		
138	COMIS THRESHOLD	Off 350mA	Allows to set a maximum absorption threshold over which an error message appears (error message appears also when over 350 mA)	ALL	Off	

	SPECIAL MENU	SET	DESCRIPTION	MODEL	DEFAULT NOT	
140	THRESHOLD A OPENING 1	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 1 in opening (over the set threshold motor will detect an obstacle)		It depends on motor	
141	THRESHOLD A CLOSING 1	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 1 in closing (over the set threshold motor will detect an obstacle)		It depends on motor	
142	THRESHOLD A OPENING 2	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 2 in opening (over the set threshold motor will detect an obstacle)		It depends on motor	
143	THRESHOLD A CLOSING 2	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 2 in closing (over the set threshold the motor will detect an obstacle)		It depends on motor	
144	THRESHOLD A OPENING SLOWDOWN 1	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 1 in slowdown during opening	INVERTER	It depends on motor	
145	THRESHOLD A CLOSING SLOWDOWN 1	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 1 in slowdown during closing	INVERTER	It depends on motor	
146	THRESHOLD A OPENING SLOWDOWN 2	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 2 in slowdown during opening	INVERTER	It depends on motor	
147	THRESHOLD A CLOSING SLOWDOWN 2	1 10 Ampere	Adjusts the amperometric intervention threshold of motor 2 in slowdown during closing	INVERTER	It depends on motor	
190	BASIC MENU	Press OK to exit the special menu. The special menu switches off automatically after 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





Automatic Gate Openers

International registered trademark n. 804888

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