CONTROL UNIT BIOS2

Programmable Control board for wings gates

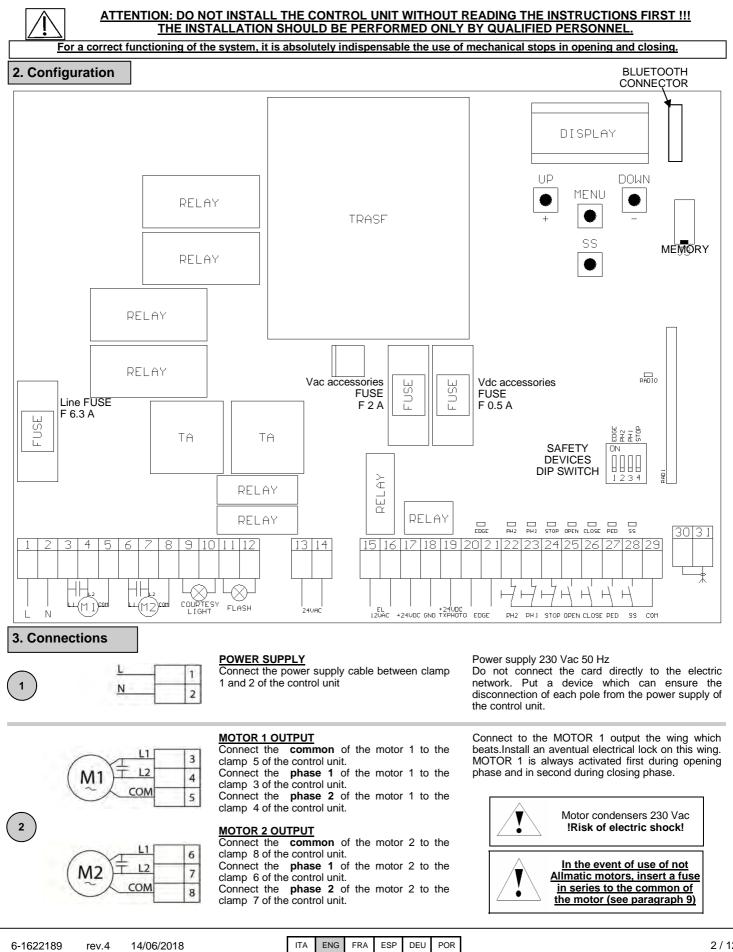


Manual for installation



1. Introduzione

The control unit BIOS2 is particularly indicated for the installation of 1 or 2 wing gates with 230 Vac motors with maximum power absorbed of 700W. The control unit equipped with a display that allows a precise regulation of the thrust of the gates and sensitivity. It is also possible to adjust the delay in closure of the second wing in the base settings menu. The control unit can memorize up to 8000 transmitters with the external memory, with the step by step, partial opening, open and close functions. It is supplied with inputs for interior and exterior photocell, safety edge (mechanical or 8k2), possibility to connect the buttons for step by step, partial opening, open, close and stop. The outputs include a 230 Vac flashing light, electrical lock 12 Vac 15 VA or by the expansion card R1 (not supplied) with dry contact 230 Vac 5A max/30 Vdc 5A max, courtesy light/zone light/open gate light, 24 Vac/dc accessories power supply.



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3	230VAC DOW MAX COURTESY 9 LIGHT 10 230VAC 60W MAX BLINKER 12	COURTESY LIGHT OUTPUT Connect the courtesy light to the clamps 9 and 10, 230Vac 100W MAX. FLASHING LIGHT OUTPUT Connect the flashing light to the clamps 11 and 12.	It is possible to light up the action area of the automatism during each motion. The functioning of the auxiliary light is controlled in the advanced menu <i>FLY</i> . Use a flashing light without self flashing card 230Vac 60W MAX
4	ACCESSORIES 13 24VAC 9W MAX 14	ACCESSORIES OUTPUTS Accessories output 24Vac 9W max.	
5	ELECTRICAL LOCK 15 12VAC 15VA MAX 16	ELECTRICAL LOCK OUTPUT 12Vac 15VA	The functioning of the electrical lock is controlled in the advanced menu HR_{D}
6	+RX GND 17 GND 18 GND 18 TX TX TEST PHOTO	PHOTOCELLS POWER SUPPLY Connect the clamp 17 of the control unit to the clamp + of the power supply of the photocells receiver. Connect the clamp 18 of the control unit to the power supply clamp - of the photocells receiver and of the transmitter. Connect the clamp 19 of the control unit to the power supply clamp of the transmitter of the photocells.	 The <u>photocells test</u> is activated in the advanced menu <i>LPh</i>. ATTENTION: the control unit gives a voltage of 24 Vdc and can supply a maximum power of 3.5W. For the <u>safety edge test</u> connect the test device of the safety edge on the power supply pins of the TX (test activated wiht low logic signal 0Vdc). Please refer to the manual of the safety edge.
7	EDGE 20	SAFETY EDGE INPUT Connect the safety edge contacts to the clamps 20 and 21 of the control unit.	Select the type of security edge used (mechanical or 8K2) through the menu Ed_{ii} , select the type of functioning through the menu Ed . If not used set the DIP switch EDGE_ON.
8	22 COM 29	OPENING PHOTOCELL INPUT Connect the NORMALLY CLOSED contact of the photocell (PHOTO 2) between the clamps 22 and 29 of the control unit.	The functioning of the opening photocell is controlled in the advanced menu <i>Ph</i> 2. If not used set the DIP switch PH2 ON.
9	PHOTO 1 (NC) 23 COM 29	CLOSING PHOTOCELL INPUT Connect the NORMALLY CLOSED contact of the photocell (PHOTO 1) between the clamps 23 and 29 of the control unit.	The functioning of the closing photocell is controlled in the advanced menu 5Ph. If not used set the DIP switch PH1_ON.
10	STOP (NC) 24 COM 29	<u>STOP INPUT</u> Connect the contact NORMALLY CLOSED of the STOP between the clamps 24 and 29 of the control unit.	If not used set the DIP switch STOP ON.
11	OPEN (NO) 0 0 25 com 29	OPEN INPUT Connect the button OPEN between the clamps 25 and 29 of the control unit.	
12	CLOSE (NO) 26 COM 29	<u>CLOSE INPUT</u> Connect the button CLOSE between the clamps 26 and 29 of the control unit.	
13	PED (NO) 27 COM 29	PARTIAL OPENING INPUT Connect the button PED between the clamps 27 and 29 of the control unit.	
14	55 (NO) 28 	STEP BY STEP INPUT Connect the button SS between the clamps 25 and 28 of the control unit.	
15	ANTENNA 30 31	ANTENNA Connect the signal cable of the antenna to the clamp 31 and the ground of the antenna to the clamp 30 of the control unit.	The presence of the metallic parts or humidity in the walls could have negative influences on the range of the system. We suggest therefore to not place the receiving antenna and/or transmitters near big metallic objects, near the floor or on the ground.
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4. Remo	te control learning			
4.1 Lear	ning of one transmitter			
performs the	emorized key performs the STEP by STEP function (open the OPEN function, 4 th key performs the CLOSE function. I unit exits from the learning phase if no new key or trasnm	-		ing, the 3 rd key
1	Make sure that the board is out of any menus, press the button UP[+]		On the display will appear and the flashing light lights on	
2	Press one key of the transmitter		On the display will appear don . If the transmitter was already memorized will appear Fnd . After 2 seconds the display will show the	
	If you want to memorize another key or a new transmitter repeat the procedure		memory location of the memorized transmitter for example 235	
4.2 Lear	ning with the hidden key of an already men	norized trar	nsmitter	
With the a	dden key of a transmitter it is possible to enter the learning utomation still, with the aid of a clip press the hidden b memorize new keys or transmitters.	g phase in orde outton of an al	er to memorize new keys or new transmitters. ready memorized transmitter, the flashing light light	s on, now it is
4.3 Can	cellation of one transmitter			
Press in th	earning phase with the UP[+] button or with the hidden key e same time the hidden key and 1 st key of the transmitter ng light bilnks 4 times and on the display will appear	y of a memoriz that you want t L r	ed transmitter (see 5.1 or 5.2). o cancel.	
5. Settir	ig the wing stroke			
E	or a correct functioning of the system, it is absolutely	indispensabl	e the use of mechanical stops in opening and clo	<u>sing.</u>
	y settings of the wings stroke (parameter L	2		
Connect to opening pl command	b the MOTOR 1 output the wing which beats.Install an nase and in second during closing phase. In this procedu (SS).	aventual elect ure it is necess	rical lock on this wing. MOTOR 1 is always activa ary to provide the limits positions of the wings with	ted first during <u>a step by step</u>
1	Unlock the motors, move the wings in the middle of the stroke and relock the motors.			
2	Press and keep pressed the buttons UP[+] e MENU for at least 5 seconds.		The wing 1 moves in opening . If the wing moves in closing press the DOWN[-] button to stop and reverse the direction of movement and give a step by step command (SS) to resume the procedure	LOP
3	When the wing 1 reaches the opening mechanical stop give a step by step command (SS)		The wing 1 stops and the wing 2 moves in opening . If the wing moves in closing press the DOWN[-] button to stop and reverse the direction of movement and give a step by step command (SS) to resume the procedure	LOP
4	When the wing 2 reaches the opening mechanical stop give a step by step command (SS)		Wing 2 stops, after 2 seconds the wing 2 moves in closing	LEL
5	When the wing 2 reaches the closing mechanical stop give a step by step command (SS)) \Box	Wing 2 stops, after 2 seconds the wing 1 moves in closing	LEL
6	When the wing 1 reaches the closing mechanical stop give a step by step command (SS)		Wing 1 stops, after 2 seconds the wing 1 moves in opening	LOP

Warning: in case of intervention of a safety device, the learning is stopped and will appear on the display the written Press Step by Step key to start again the learning from the 2^{nd} point.

When the wing 1 reaches the the opening mechanical stop give a step by step command $\left(SS\right)$

When the wing 2 reaches the the opening mechanical stop give a step by step command (SS) $% \left(\left(S^{2}\right) \right) =\left(\left(S^{2}\right) \right) \right) =\left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \right) =\left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \right) \left(\left(S^{2}\right) \right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \right) \left(\left(S^{2}\right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \right) \left(\left(S^{2}\right) \left(\left($

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in opening

Wing 1 stops, after 2 seconds the wing 2 moves

Wing 2 stops, after 2 seconds the gate closes with the settings of delay between the wings and slowing downs set in the menu. When the gate is closed the learning phase is ended. LOP

LEL

	For a correct functioning of the system, it is absolutely	indispensab	le the use of mechanical stops in opening and closi	
5.2 Ad	vanced settings of the wings stroke (paramet	er L51 =	P)	
phase ar	to the MOTOR 1 output the wing which beats.Install an ave ad in second during closing phase. <u>In this procedure it is nec</u> amand (SS).			during opening with a step by
1	Unlock the motors, move the wings in the middle of the stroke and relock the motors.			
2	Press and keep pressed the buttons UP[+] e MENU for at least 5 seconds.		The wing 1 moves in opening . If the wing moves in closing press the button DOWN to stop and reverse the direction of movement and give a step by step command (SS) to resume the procedure	during opening with a step by
3	When the wing 1 reaches the opening mechanical stop give a step by step command (SS)	\Box	The wing 1 stops and the wing 2 moves in opening . If the wing moves in closing press the button DOWN to stop and reverse the direction of movement and give a step by step command (SS) to resume the procedure	LOP
4	When the wing 2 reaches the opening mechanical stop give a step by step command (SS)	\Box	Wing 2 stops, after 2 seconds the wing 2 moves in closing	LEL
5	When the wing 2 reaches the desired position of beginning of slowing down give a step by step command (SS)	$\Box \rangle$	The wing 2 begins the slowing down	
6	When the wing 2 reaches the closing mechanical stop give a step by step command (SS)	$\Box \rangle$	Wing 2 stops, after 2 seconds the wing 1 moves in closing	LEL
7	When the wing 1 reaches the desired position of beginning of slowing down give a step by step command (SS)	$\Box \rangle$	The wing 1 begins the slowing down	
8	When the wing 1 reaches the closing mechanical stop give a step by step command (SS)	$\Box \rangle$	Wing 1 stops, after 2 seconds the wing 1 moves in opening	LOP
9	When the wing 1 reaches the desired position of beginning of slowing down give a step by step command (SS)	$\Box \rangle$	The wing 1 begins the slowing down	20,
10	When the wing 1 reaches the the opening mechanical stop give a step by step command (SS)	\Box	Wing 1 stops, after 2 seconds the wing 2 moves in opening	LOP
11	When the wing 2 reaches the desired position of beginning of slowing down give a step by step command (SS)	$\Box \rangle$	The wing 2 begins the slowing down	20,
12	When the wing 2 reaches the the opening mechanical stop give a step by step command (SS)	\Box	Wing 2 stops, the gate closes with the slowing downs set during the learning phase and the delay between the wings set in the menu. When the gate is closed the learning phase is ended.	LEL
Warning Press Ste	: in case of intervention of a safety device, the learning is sto ep by Step key to start again the learning from the 2 nd point.	opped and wil	I appear on the display the written L	

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EEL

Ex. Advanced menu

ELF.

MF NU

DOWN

UP

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Compatible from firmware version BIOS2BT02



6. Menu

Entering the menu: To enter the base menu settings keep pressed the MENU button for at least one second To enter the advanced menu settings keep pressed the MENU button for at least five seconds

Navigation into the menu:

It is possible to move from an entry to another one using UP[+] e DOWN[-] buttons, To change a parameter keep pressed the MENU button for at least 1 second until the parameter begins blinking, so release the key. Use UP[+] and DOWN[-] buttons to change the parameter At the end keep pressed MENU for al least 1 second until the parameter stops blinking to save the change.

A quick pressure of the menu key is enough to leave a menu

6.1 Base settings menu:

MENU	DESCRIPTION	SELECTABLE VALUES min-max	DEFAULT	UNITS
EEL	Auto reclosing time (0 = disabled)	0-900	20	s
££r	Auto reclosing time after transit(0 = disabled)	0-30	0	S
561	Obstacle sensitivity (0 = disabled 100 = maximum sensitivity)	0-100	0	%
6-9	Motor torque (running torque)	10-100	100	%
55L	Slowing down mode 0 = normal 1 = fast with more torque	0-1	0	
565	Step by step configuration 0 = normal (OP-ST-CL-ST-OP-ST) 1 = alternated STOP (OP-ST-CL-OP-ST-CL) 2 = alternated (OP-CL-OP-CL) 3 = condominium – timer 4 = condominium with immediate auto reclosing	0-4	0	
եւե	After black-out 0 = no action 1 = closing	0-1	0	
558	Soft start 0 = disabled 1 = enabled	0-1	0	
dLУ	Second wing delay	0-300	2	S
LSI	Amplitude of slowing down (0 = disabled) P = personalized during learning 0100% = percentage of stroke	0-100	15	%
ASL	Anti slip	0-300	0	S
nīt	Number of motors 1 = 1 motor 2 = 2 motors	1-2	2	

6.2 Advanced menu:

MENU	DESCRIPTION	SELECTABLE VALUES min-max	DEFAULT	UNITS
51 .d.	First coupling between Bluetooth device and control unit			
ELF.	Electrical brake activation time 0 = disabled 1 - 100= enabled	0-100	0	x0.01 s
SPh	Functioning of closing photocell PHOTO1 moving from closed 0 = Check PHOTO1 1 = The gate opens also with PHOTO1 busy	0-1	1	

6.2 Advanced menu:

MENU	DESCRIPTION	SELECTABLE VALUES min-max	DEFAULT	UNITS
Ph <u>2</u>	Functioning of opening photocell PHOTO2 0 = Enabled in opening and closing OP/CL 1 = Enabled only in opening OP	0-1	0	
EPh	Photocells test 0 = disabled 1 = enabled PHOTO1 2 = enabled PHOTO2 3 = enabled PHOTO1 and PHOTO2	0-3	0	
Edñ	Safety edge type 0 = contact (NC) 1 = resistive (8k2)	0-1	0	
íE.d.	Operation mode of safety edge 0= working only in closing with inversion of movement 1 = stops the automation (both opening and closing) and free the obstacle (short inversion)	0-1	0	
EE.d.	Safety edge test 0 = disabled 1 = enabled	0-1	0	
L P.a.	Partial opening	0-100	30	%
EP <u>E</u>	Auto reclosing time from partial opening (0 = disabled)	0-900	20	s
FPr.	Blinker output mode 0 = Fix 1 = Blinking	0-1	1	
EPr.	Pre-flashing time (0 = disabled)	0-10	0	S
FC <u>.9</u> .	Courtesy ligth settings 0 = At the end of movement for a TCY time 1 = On if the gate is not closed + TCY time 2 = On if courtesy light timer (TCY) not expired 3 = Open gate light on/off 4 = Open gate light with proportional flashing	0-4	0	
Е <u>С.</u> <u>Ч</u> .	Courtesy light time	0-900	0	s
dER	Dead-man 0 = disabled 1 = enabled	0-1	0	
SEr.	Setting threshold of cycles for assistance request. Once limit is reached the next cycles will be done with fast blinking (only if FP_r enabled) (0 = disabled)	0-100	0	x1000 cicli
SEF.	Continuous blinking for assistance request (done only with closed gate). 0 = disabled 1 = enabled	0-1	0	
HR.o.	Water-hammer and elecrtical lock in opening phase (0 = disabled)	0-100	0	x100 ms
HA.c.	Water-hammer in closing phase (0 = disabled)	0-100	0	x100 ms
ñРл.	Time of pressure in closed for hydraulic motors (0 = disabled)	0-480	0	minuti
Er. <u>5</u> .	Viewing of the memory location for a single transmitter	0-999		
Er.E.	Cancellation of a single transmitter	0-999		
dEF.	Restore default settings, enter to modify the parameter and then keep pressed the MENU button, a count down appears that ends with don on the display			
ErF.	Cancelling all transmitters, enter to modify the parameter and then keep pressed the MENU button, a count down appears that ends with don on the display			

6.3 Menu description:

6.3.1 Base settings menu

EEL Auto reclosing time

Active when the gate is in the completely open position, the gate automatically closes after *ELL* seconds. In this phase the display shows with the blinking dash, that during the last 10 seconds will be replaced by the count down.

ELF Auto reclosing time after transit

If in the opening phase or in the completely open position the beam of the photocells is obscured and freed, the gate automatically closes after *LEr* seconds when the completely open position is reached, In this phase the display shows seconds will be replaced by the count down.

5EI Obstacle sensitivity

Adjust the obstacle sensitivity to ensure a correct functioning of the gate, it must stop if there is an obstacle but also it must ensure the complete movement in the worst conditions (exp. winter, hardening of motors, etc). After the adjustement of this parameter it is recommended to perform a complete movimentation (opening and closing) before trying the obstacle detection.

Erg Motor torque

Adjust the motor torque to ensure a correct functioning of the gate, it is possible to adjust the percentage of torque between 10% to 100%. After the adjustement of this parameter it is recommended to perform a complete movimentation (opening and closing) to ensure a correct functioning of the gate.

55L Slowing down mode

The control unit has 2 different type of slowing downs : standard or with higher torque and speed, for heavier gates.

565 Step by step configuration (SS)

- 5b5 = 0 Normal (OP-ST-CL-ST-OP-ST...) Typical functioning of Step by Step. During the movement a SS command stops the gate.
- 565 = 1 Alternated STOP (OP-ST-CL-OP-ST-CL...)
- Alternated functioning with STOP during the opening. During the opening phase a SS command stops the gate.
- 5b5 = 2 Alternated (OP-CL-OP-CL...) The user cannot stop the gate during the movement with a SS command. A SS command during the movement inverts the movement.
- 5b5 = 3 Condominium timer
 A SS command only opens the gate. When the gate is completely open, if the command persist the control unit will wait until the opening of the contact before beginning the contdown of the automatic reclosing (if enabled), onother SS command in this phase will restart the contdown of the automatic reclosing.

 5b5 = 4 Condominium with immediate auto reclosing
- 5b5 = 4 Condominium with immediate auto reclosing Like condominium – timer (previous point) but during the countdown a SS command will close the gate.

BLE After black-out

- When the control unit turns on after a black-out,
- b-E = 0 No action when the control unit turns on the gate doesn't move until the first command, the first movement is a slow opening.
- b_L = 1 Closing- turning on the control unit it will perform a slow closing.

55E Soft start

The movement begins with reduced torque, used in light gates.

JLY Second wing delay

This is the setting of the delay of the second wing to ensure a correct working. In the closing phase the control unit adds 4 additional seconds to ensure that the wings don't overlap also in the worst conditions of functioning.

L5/ Amplitude of slowing down

With this parameter it is possible to adjust the amplitude of the slowing down and eventually disable it ($L_{51} = 0$). If you need more precise or different slowing down between opening and closing it is possible to set the parameter L_{51} on P (personalized) and perform an advanced learning of strokes (5.2) providing also the beginning of slowing downs during the learning.

RSL Antislip

This parameter is used if the motor slips, the control unit adds R5L seconds to movimentation to ensure a complete movements of the wings also in the worst condition.

number of motors

This parameter is used to set the number of motors, the learning operations and the functionality will be modified depending on this parameter.

6.3.2 Advanced menu

5/ .d. Bluetooth

Item of the menu needed to the first coupling between an Android device and the control unit. Refer to the Help of the Android application for the connection procedure.

EL.F. Electrical brake

Short reverse movement with reduced torque to reduce the inertia of the gate. The operation is performed at each stop of the movement except for fast movement after the intervention of a safety devices.

<u>5P.h. Functioning of closing photocell PHOTO1 moving from closed position</u> The closing photocell has the following functioning

- Closing: immediate inversion of movement
- Opening from an intermediate position: no intervention .
- Opening from closed position:
 - 5P.h. = 0 The gate doesn't move if PHOTO1 beam is cut
 - 5P.h. = 1 The gate moves while PHOTO1 beam is cut

Ph.2. Functioning of opening photocell PHOTO2

The opening photocell has the following functioning

- Opening: stops the movement and waits until the beam is freed, then moves in opening.
- Closina:
 - Ph.2. = 0 Stops the movement and waits until the beam is freed, then moves in opening
 - Ph.2. = 1 No intervention

EP.h. Photocells test

Enabling this function, before each movement starting from still gate, the control unit performs a functional check of the photocells. The check will not be performed in case of fast movement after the intervention of a safety devices. Follow paragraph 3.6 for the connections of the photocells.

Ed.n. Safety edge type

The control unit can work with two different type of safety edge:

- Ed.i. = 0 Mechanical with normally closed contact .
- Ed.i. = 1 Resistive 8k2

E.d. Operation mode of safety edge

To allow the installation of the safety edges in both the directions of movements, it is possible to choose 2 different functioning:

- E.d. = 0 Only in closing with total inversion of movement
- $\mathcal{E}_{\mathcal{A}}$ = 1 Both directions of movements, stop and short inversion to free the obstacle

E.d. Safety edge test

Enabling this function the control unit performs a functional check of the safety edge. This function is used if the edge connected to the control unit has an electronic self test (exp. radio edge R.CO.O). Connect the test contact of the edge to the power supply of the trasmitter of the photocells (paragraph 3.6) ad enable the self test with low voltage 0Vdc (for the compatibility follow the instruction of the manual of the safety edge).

Partial opening

Partial opening can be performed only starting from closed. The parameter sets the opening like a percentage of the total stroke of the first wing.

EP.C. Auto reclosing time from partial opening

Active when the gate is in the partial opening, the gate automatically closes after EP.C. seconds. In this phase the display shows with the blinking dash, that during the last 10 seconds will be replaced by the count down.

FP.r. Flashing light output mode

It is possible to choose 2 different functioning for the blinker output:

- FP.r. = 0 Fixed blinker output. It will be necessary to connect a self flashing blinker (B.RO LIGHT 230 Vac) .
- FP.r. = 1 Flashing light blinker output. It will be necessary to connect a fix light blinker (B.RO LIGHT FIX 230 Vac)

LP.r. Pre-flashing time

Pre-flashing before each movement in both directions, EP.r. seconds of pre-flashing

FC. J. Courtesy light settings

The control unit has 4 different functionings for courtesy light:

- FE.J. = 0 the light switches off at the end of a movement after EE.J. seconds
- FE.Y. = 1 the light switches off only with closed gate after EE.Y. seconds
- FL.9. = 2 lighted on for EL.9. seconds from the beginning of a movement, indipendently of the condition of the gate (the light could switch off before the end of movement) •
- FL.9. = 3 open gate light the light switches off immediately when the gate reaches the closed position
 - FL.9. = 4 open gate light with proportional blinking:
 - opening slow blinking
 - closing fast blinking
 - opened light on
 - closed light off
 - stopped 2flash + long wait + 2flash + long wait +...

E.J. Courtesy light timer Courtesy light activation timer - EP

dE.R. Dead man

During dead man functioning mode the gate moves only with a permanent command.

The enabled commands are OPEN and CLOSE. SS and PED are disabled. During dead man functioning all the automatic movements are disabled, like short or total inversions. All safety devices are disabled except for STOP.

5E.r. Setting threshold of cycles for assistance request

It is possible to set a number of cycles before the request of assistance. Once the limit is reached the next cycles will be done with fast blinking (only if FPr enabled)

5E.F. Continuous flashing light for assistance request

Once limit 5E.r. is reached the flashing light will blink also with the gate closed to show the request of assistance.

HR.D. Water-hammer and elecrtical lock in opening phase

This functioning is used with an electrical lock. The gate before opening closes shortly on the mechanical stop with the electrical lock activated, to ensure the correct declutching. The parameter is the time of pressure on the mechanical stop before opening, settable from 0.1s to 10 s. The sequence done by the control unit before opening is the following:

- preventive activation of the electrical lock [1,5s]
- motor activation in closing with maximum torque. The duration of this phase is setted by the parameter HR.a.
- inversion of direction with another 2 seconds of activation of the electrical lock.

The control unit activate the electrical lock also if it moves from an intermediate position.

HR.c. Water-hammer in closing phase

This functioning is used with an electrical lock. When the gate reaches the closing mechanical stop the control unit perform a strong pressure, HR.c. seconds long, to ensure the locking of the electrical lock.

TP.r. Time of pressure in closed position for hydraulic motors

This function is used to keep high the pressure of hydraulic motors, done only with closed gate, the control unit performs 1 minute of closing every $\bar{u}P.r$. minutes to keep high the pressure into the motors and the correct closed position.

Er.5. Viewing of the memory position for a single transmitter

With the item of the menu Er.5. it is possible to view the memory location in which a transmitter is memorized.

To perform the function, move to *Er.5.* and then confirm by pressing the button MENU. Keep pressed MENU button untill the display will show then release the button.

At this point press a button of the memorized transmitter (it does not active any command). The display shows:

- the memory location for 2 seconds, if is memorized;
- the written nn+ for 2 seconds, if is not memorized.

After 2 seconds the display returns to the screen	SEE	and it will be possible to perform this function with another transmitter.
To exit from the function, press MENU button. Other	erwise after	15 seconds without transmission, the control unit exits from the function and shows the
kout ten ten ten ten ten ten ten ten ten te		

Er.E. Cancellation of a single transmitter

With the item of the menu Er. [. it is possible to delete a single transmitter from the memory.

To perform the function, move to r. L. and then confirm by pressing the button MENU. Keep pressed MENU button untill the display will show 0, then release the button. Select the memory location of the transmitter. Press and keep pressed MENU button untill the display will show l, then release the button.

To exit from the function, press MENU button. If the display shows the written broken the position or disconnected memory).

dE.F. Restore default settings

With the item of the menu dE.F. it is possible to restore the default settings of the control unit. The reset will restore all the parameters of the base and advanced menu, but doesn't modify the learnt strokes, the directions of motors and the transmitters.

Move to *dE.F.* then keep pressed MENU button until the display shows 0, release the button. Press again and keep pressed MENU button, the display will show a count down *dB0,d*79,...,*d0*, don't release the button until the display showns

Er.F. Erasing of all transmitters

- With the item of the menu Er.F. it is possible to erase all the transmitters learnt.
- Move to Er.F. then keep pressed MENU button until the display shows 0, release the button. Press again and keep pressed MENU button, the display will show a count down dB0,d79,...,d01, don't release the button until the display shows

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7. Display and control unit state

7.1 Normal functioning:

		Standby - Gate closed or after the switch on of the control unit
	OP	Opening phase
	EL	Closing phase
	50	Gate closed by user during opening
	50	Gate closed by user during closing
	HR	Gate stopped by an external event (photocells, stop)
	oP	Gate opened without automatic reclosing
	PE	Gate opened in partial opening position without automatic reclosing
	-FC	Gate opened waiting for auto reclosing, last 10 seconds the dash will be replaced by the countdown
	- E P	Gate opened in partial opening position waiting for auto reclosing, last 10 seconds the dash will be replaced by the countdown
	00.0.	During the normal functioning and out from any menu, the pression of the DOWN[-] button lets you see the
	000	number of cycles done, you will see units with dots on the bottom of display and thousand without dot, another pression of DOWN[-] or MENU button let you to leave the cycles visualization
	r Ad	Visualized during the learning of transmitters
	don	Visualized when memorized a new transmitter or at the and of a reset
	Fnd	Visualized when memorized a key of a transmitter already memorized
	ELr	Visualized when a trasmitter is erased
	LOP	Visualized during the learnign of strokes to indicate that the control unit is opening the gate and waiting for the command of opening mechanical stop
	LEL	Visualized during the learning of strokes to indicate that the control unit is clkosign the gate and waiting for the command of closing mechanical stop
	L	Visualized during the learning of strokes if there is an intervention of safety devices
	SEE	Visualized when the control unit waits a transmitter signal, during the function of viewing of the memory location.
	not	Visualized when the transmitter is not stored on the memory, during the function of viewing of the memory location.
	LoUL	Visualized when the control unit exits from the function of viewing of the memory location for inactivity.
	Snd	Visualized during the first coupling with the Bluetooth device.
	c	Visualized when the control unit is connected to a Bluetooth device
	L	Visualized when Bluetooth device is disconnecting from the control unit.
7.2 Errors	5:	
	EFO	Impact sensor intervention
	EEd	Safety edge intervention
	ELS	Limit switches error (both opening and closing electrical limit switches busy in the same time)
	ЕРН	Malfunctioning of photocells
	Eth	Thermical intervention to preserve the control unit

Memory error

Memory error during functions viewing memory location or cancellation of a single transmitter

The visualization of an error on the display persist until another command is given

EnE

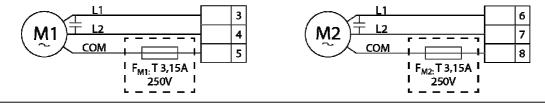
Err

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RED (normally on)	RED (normally on)	RED (normally on)	RED (normally on)	GREEN (normally off)	GREEN (normally off)	GREEN (normally off)	GREEN (normally off)
EDGE	DH2	DH 1	STOP	OPEN	CLOSE	PED	SS
chnical features POWER SUPPLY AN	D CONSUM	ρτιον					
Power supply voltage	Decreen	non				230 \	/ac - 50/60 H
Absorption from line (Standbv)						A @ 230 Vac
Standard configuration	• /	f photocell	s. RX radio	safetv edd	e)		
Line fuse			-,			F6.3A	
MOTOR POWER SU	PPLY						
Number of motors							1/2
Motor power supply ve	oltage					230 Vac - 50/60 Hz	
Maximum power abso		otors				2 x 700W	
ACCESSORIES POW							
Accessories power su	pply voltage					24	Vdc - 24Vac
Maximum current abs		ccessories	;			145 mA dc - 375 mA a	
Maximum power abso	rbed from ac	cessories				3.5 W dc - 9W ac	
Accessories fuses			Accesso	ries 24Vdc		F0.5A	
			Accesso	ries 24Vac			F2A
Blinker output						230	Vac 60W ma
·						230 \	/ac 100W m
Courtesy light output /			from tern	ninal board		12	Vac 15 VA
Courtesy light output / Electrical lock output			with R1 c	ard (optior	nal)	d	ry contact
						230 Vac 5	5A, 30 Vdc 5/
							,
Electrical lock output	er					Ro	olling code
Electrical lock output FUNCTIONALITY							

The correct functioning is guaranteed only in the event of Allmatic motors. For a greater safety, it is suggested to insert a fuse (T 3,15A) in series to the common of both the motors.

It is available a pre-wired kit (optional) that can be inserted as shown in the drawing below.



GUARANTEE - In compliance with legislation, the manufacturer's guarantee is valid from the date stamped on the product and is restricted to the repair or free replacement of the parts accepted by the manufacturer as being defective due to poor quality materials or manufacturing defects. The guarantee does not cover damage or defects caused by external agents, faulty maintenance, overloading, natural wear and tear, choice of incorrect product, assembly errors, or any other cause not imputable to the manufacturer. Products that have been misused will not be guaranteed or repaired. Printed specifications are only indicative. The manufacturer does not accept any responsibility for range reductions or malfunctions caused by environmental interference. The manufacturer's responsibility for damage caused to persons resulting from accidents of any nature caused by our defective products, are only those responsibilities that come under Italian law.

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