# **CONTROL UNIT BIOS2**

Programmable Control board for wings gates



Manual for installation





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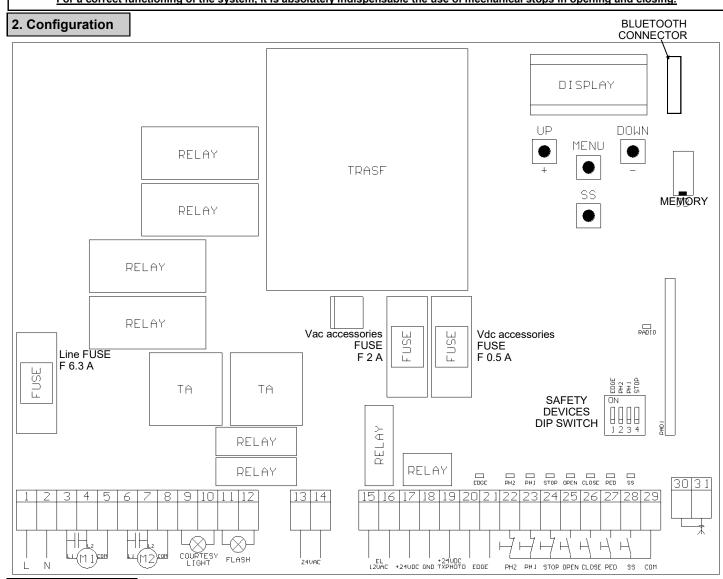
# 1. Introduzione

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.



# ATTENTION: DO NOT INSTALL THE CONTROL UNIT WITHOUT READING THE INSTRUCTIONS FIRST !!! THE INSTALLATION SHOULD BE PERFORMED ONLY BY QUALIFIED PERSONNEL.

For a correct functioning of the system, it is absolutely indispensable the use of mechanical stops in opening and closing.



### 3. Connections





#### **POWER SUPPLY**

Connect the power supply cable between clamp 1 and 2 of the control unit

Power supply 230 Vac 50 Hz

Do not connect the card directly to the electric network. Put a device which can ensure the disconnection of each pole from the power supply of the control unit.

Connect to the MOTOR 1 output the wing which

beats.Install an aventual electrical lock on this wing.

MOTOR 1 is always activated first during opening phase and in second during closing phase.

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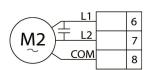
# **MOTOR 1 OUTPUT**

Connect the common of the motor 1 to the clamp 5 of the control unit.

Connect the phase 1 of the motor 1 to the clamp 3 of the control unit.

Connect the **phase 2** of the motor 1 to the clamp 4 of the control unit.

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MOTOR 2 OUTPUT
Connect the common of the motor 2 to the clamp 8 of the control unit.

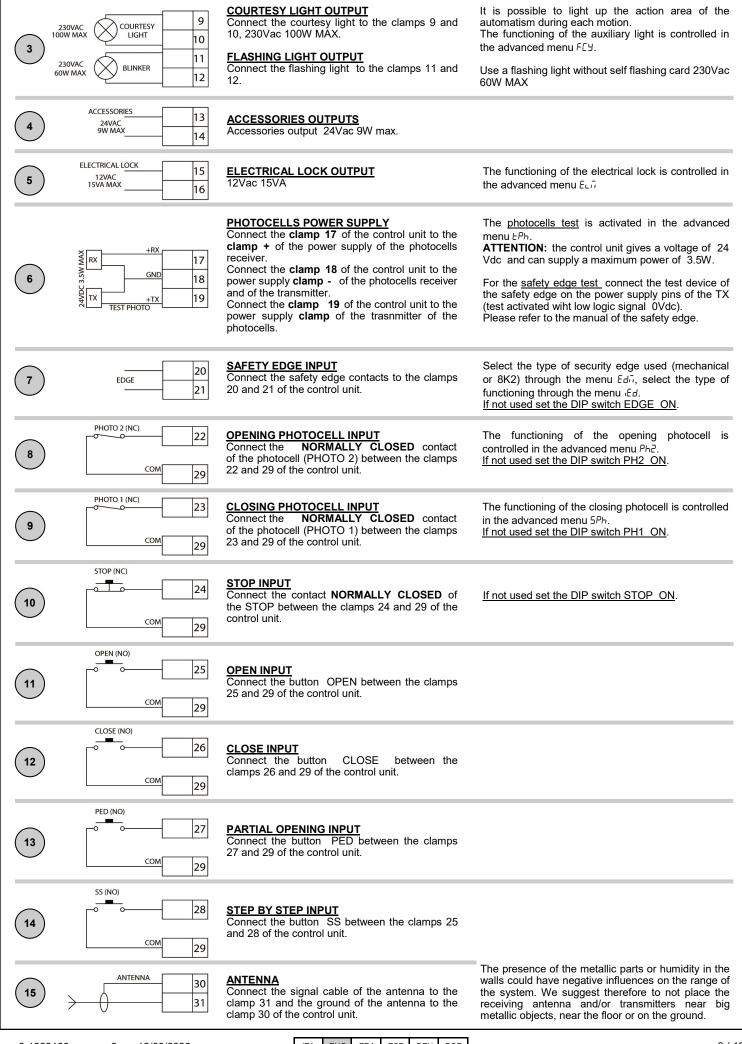
Connect the phase 1 of the motor 2 to the clamp 6 of the control unit.

Connect the **phase 2** of the motor 2 to the clamp 7 of the control unit.

Motor condensers 230 Vac !Risk of electric shock!



In the event of use of not Allmatic motors, insert a fuse in series to the common of the motor (see paragraph 9)



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#### 4. Remote control learning 4.1 Learning of one transmitter The 1st memorized key performs the STEP by STEP function (opening and closing of the gate), the 2<sup>nd</sup> key performs the partial opening, the 3<sup>rd</sup> key performs the OPEN function, 4<sup>th</sup> key performs the CLOSE function. The control unit exits from the learning phase if no new key or trasnmitter command is given in 10 seconds. Make sure that the board is out of any On the display will appear rAd menus, press the button UP[+] and the flashing light lights on Press one key of the transmitter don On the display will appear don. If the transmitter was already Fnd memorized will appear Fnd. After 2 seconds the display will show the memory location of the memorized transmitter, If you want to memorize another key or a new transmitter repeat the procedure for example 235 4.2 Learning with the hidden key of an already memorized transmitter With the hidden key of a transmitter it is possible to enter the learning phase in order to memorize new keys or new transmitters. With the automation still, with the aid of a clip press the hidden button of an already memorized transmitter, the flashing light lights on, now it is possible to memorize new keys or transmitters. 4.3 Cancellation of one transmitter Enter the learning phase with the UP[+] button or with the hidden key of a memorized transmitter (see 5.1 or 5.2). Press in the same time the hidden key and 1st key of the transmitter that you want to cancel. The flashing light bilnks 4 times and on the display will appear [Lr 5. Setting the wing stroke For a correct functioning of the system, it is absolutely indispensable the use of mechanical stops in opening and closing. 5.1 Easy settings of the wings stroke (parameter $L5! \neq P$ ) Connect to the MOTOR 1 output the wing which beats. Install an aventual electrical lock on this wing. MOTOR 1 is always activated first during opening phase and in second during closing phase. In this procedure it is necessary to provide the limits positions of the wings with a step by step command (SS). Unlock the motors, move the wings in the middle of the stroke and relock the motors. Press and keep pressed the buttons UP[+] e MENU The wing 1 moves in opening. for at least 5 seconds. If the wing moves in closing press the DOWN[-] LOP button to stop and reverse the direction of movement and give a step by step command (SS) to resume the procedure When the wing 1 reaches the opening mechanical The wing 1 stops and the wing 2 moves in stop give a step by step command (SS) opening. 3 If the wing moves in closing press the DOWN[-] LOP button to stop and reverse the direction of movement and give a step by step command (SS) to resume the procedure Wing 2 stops, after 2 seconds the wing 2 moves When the wing 2 reaches the opening mechanical stop LEL in closing give a step by step command (SS) Wing 2 stops, after 2 seconds the wing 1 moves When the wing 2 reaches the closing mechanical stop LEL give a step by step command (SS) in closing When the wing 1 reaches the closing mechanical stop Wing 1 stops, after 2 seconds the wing 1 moves LOP give a step by step command (SS) in opening When the wing 1 reaches the the opening mechanical Wing 1 stops, after 2 seconds the wing 2 moves LOP stop give a step by step command (SS) in opening When the wing 2 reaches the the opening mechanical Wing 2 stops, after 2 seconds the gate closes stop give a step by step command (SS) 8 with the settings of delay between the wings and LCL slowing downs set in the menu. When the gate is closed the learning phase is ended.

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<sup>nd</sup> point.

#### For a correct functioning of the system, it is absolutely indispensable the use of mechanical stops in opening and closing.

# 5.2 Advanced settings of the wings stroke (parameter L5I = P)

Connect to the MOTOR 1 output the wing which beats. Install an aventual electrical lock on this wing. MOTOR 1 is always activated first during opening phase and in second during closing phase. In this procedure it is necessary to provide also the positions where the slowing downs begin with a step by step command (SS).

Unlock the motors, move the wings in the middle of the stroke and relock the motors.

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

LOP

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

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

The wing 1 stops and the wing 2 moves in

LOP

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

When the wing 2 reaches the desired position of beginning of slowing down give a step by step command (SS)

The wing 2 begins the slowing down

oves

When the wing 2 reaches the closing mechanical stop give a step by step command (SS)

Wing 2 stops, after 2 seconds the wing 1 moves in closing

LEL

When the wing 1 reaches the desired position of beginning of slowing down give a step by step command (SS)

The wing 1 begins the slowing down

8

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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

When the wing 1 reaches the desired position of beginning of slowing down give a step by step command (SS)

The wing 1 begins the slowing down

(10)

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

Wing 1 stops, after 2 seconds the wing 2 moves in opening

LOP

When the wing 2 reaches the desired position of beginning of slowing down give a step by step command (SS)

\_\_\_\_ The wing 2 begins the slowing down

When the wing 2 reaches the the opening mechanical stop give a step by step command (SS)

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

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**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<sup>nd</sup> point.

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# 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

# Ex. Base menu



Ex. Advanced menu







# 6.1 Base settings menu:

MENU	DESCRIPTION	SELECTABLE VALUES min-max	DEFAULT	UNITS
FEL	Auto reclosing time (0 = disabled)	0-900	0	s
ttr	Auto reclosing time after transit(0 = disabled)	0-30	0	s
SEI	Obstacle sensitivity (0 = disabled 100 = maximum sensitivity)	0-100	0	%
Er9	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	
PLF	After black-out 0 = no action 1 = closing	0-1	0	
55Ł	Soft start 0 = disabled 1 = enabled	0-1	0	
977	Second wing delay	0-300	2	s
L5 ,	Amplitude of slowing down (0 = disabled) P = personalized during learning 0100% = percentage of stroke	0-100	15	%
A5L	Anti slip	0-300	0	s
nīĿ	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			
EL.F.	Electrical brake activation time 0 = disabled 1 - 100= enabled	0-100	0	x0.01 s
5P.h.	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.2.	Functioning of opening photocell PHOTO2 0 = Enabled in opening and closing OP/CL 1 = Enabled only in opening OP	0-1	0	
EP.h.	Photocells test 0 = disabled 1 = enabled PHOTO1 2 = enabled PHOTO2 3 = enabled PHOTO1 and PHOTO2	0-3	0	
Ed.ñ.	Safety edge type 0 = contact (NC) 1 = resistive (8k2)	0-1	0	
Æ.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	
ŁE.d.	Safety edge test 0 = disabled 1 = enabled	0-1	0	
LP.o.	Partial opening	0-100	30	%
LP.C.	Auto reclosing time from partial opening (0 = disabled)	0-900	20	s
FP.r.	Blinker output mode 0 = Fix 1 = Blinking	0-1	1	
EP.r.	Pre-flashing time (0 = disabled)	0-10	0	s
FC.9.	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	
ŁE.Y.	Courtesy light time	0-900	0	s
dE.R.	Dead-man 0 = disabled 1 = enabled	0-1	0	
5E.r.	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
5E.F.	Continuous blinking for assistance request (done only with closed gate). 0 = disabled 1 = enabled	0-1	0	
hA.o.	Water-hammer in opening phase (0 = disabled)	0-100	0	x100 ms
hA.c.	Water-hammer in closing phase (0 = disabled)	0-100	0	x100 ms
ñР.г.	Time of pressure in closed for hydraulic motors (0 = disabled)	0-480	0	minuti
EL.ñ.	Electrical lock mode 0 = disabled 1 = Active Electrical lock without preventive activation 2 = Active Electrical lock with preventive activation 3 = Magnetic Electrical Lock	0-3	0	
Łr.5.	Viewing of the memory location for a single transmitter	0-999		
Łr.[.	Cancellation of a single transmitter	0-999		
dE.F.	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			
Er.F.	Cancelling all transmitters, enter to modify the parameter and then keep pressed the MENU button, a count down appears that ends with <code>don</code> on the display			

# 6.3 Menu description:

# 6.3.1 Base settings menu

### **LEL** Auto reclosing time

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

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### **<u>EEr. Auto reclosing time after transit</u>**

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 becomes when the completely open position is reached, In this phase the display shows seconds will be replaced by the count down.

#### 5El 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.

#### 

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)

- 565 = 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.
- 565 = 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.
- 565 = 4 Condominium with immediate auto reclosing
  - Like condominium timer (previous point) but during the countdown a SS command will close the gate.

# 

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.
- blb = 1 Closing- turning on the control unit it will perform a slow closing.

#### 55Ł Soft start

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

#### 러나 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 (LSI = 0). If you need more precise or different slowing down between opening and closing it is possible to set the parameter LSI = 0 (personalized) and perform an advanced learning of strokes (5.2) providing also the beginning of slowing downs during the learning.

#### **ASL** 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.

## nit 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

#### 51 .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.

# 5Р.h. Functioning of closing photocell PHOTO1 moving from closed position

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

#### 

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.ī. Safety edge type

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

- Ed. r. = 0 Mechanical with normally closed contact
- Ed.n. = 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
- 'E.d. = 1 Both directions of movements, stop and short inversion to free the obstacle

#### ŁE.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).

# LP.o. 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.L.* seconds. In this phase the display shows with the blinking dash, that during the last 10 seconds will be replaced by the count down.

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# 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)

#### 

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

#### FE.Y. Courtesy light settings

The control unit has 4 different functionings for courtesy light:

- FE.Y. = 0 the light switches off at the end of a movement after EE.Y. seconds
- FE.Y. = 1 the light switches off only with closed gate after EE.Y. seconds
- Fξ.y. = 2 lighted on for Eξ.y. seconds from the beginning of a movement, indipendently of the condition of the gate
- (the light could switch off before the end of movement)
- F1.9. = 3 open gate light the light switches off immediately when the gate reaches the closed position
- FE.y. = 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 +...

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Courtesy light activation timer

### <u>dE.R. Dead man</u>

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.o. Water-hammer 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 (only if ELT is active) of the electrical lock [1,5s]
- motor activation in closing with maximum torque. The duration of this phase is setted by the parameter HR.o.
- inversion of direction with another 2 seconds of activation of the electrical lock (only if E<sub>L</sub>\(\tilde{\tilde{\tilde{t}}}\) is active).

### 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, HA.c. seconds long, to ensure the locking of the electrical lock. (only if ELT is active)

### TiP.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 inpressure into the motors and the correct closed position.

#### ELT. Electrical Lock mode

- E L ū = 0 disable
- ELT = 1 The electrical lock is activated when the automation performs an opening movement.
- ELū = 2 The electrical lock is activated when the automation performs an opening movement. In the opening phase it is activated with a safety advance time of 1.5 seconds.
- ELT = 3 In case of use of magnetic electric lock, always active when the gate is closed (except when the motor is in pressure in closed position), disable when the gate is not closed.

#### <u>Łr.5. Viewing of the memory position for a single transmitter</u>

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

To perform the function, move to £r.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 for 2 seconds, if is not memorized.

After 2 seconds the display returns to the screen 5EE and it will be possible to perform this function with another transmitter.

To exit from the function, press MENU button. Otherwise after 15 seconds without transmission, the control unit exits from the function and shows the written

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#### <u> ۲-۲. Cancellation of a single transmitter</u>

With the item of the menu <code>Lr.L.</code> it is possible to delete a single transmitter from the memory.

To perform the function, move to Er.E. 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 release the button.

To exit from the function, press MENU button. If the display shows the written 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 d80,d79,...,d01,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 showns

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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 OP	Opening phase
CL	Closing phase
50	Gate closed by user during opening
50	Gate closed by user during closing
HA	Gate stopped by an external event (photocells, stop)
oP	Gate opened without automatic reclosing
PE	Gate opened in partial opening position without automatic reclosing
- 40	Gate opened waiting for auto reclosing, last 10 seconds the dash will be replaced by the countdown
- <b>E</b> P	Gate opened in partial opening position waiting for auto reclosing, last 10 seconds the dash will be replaced by the countdown
00.0. 000	During the normal functioning and out from any menu, the pression of the DOWN[-] button lets you see the 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
rAd	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.
nat	Visualized when the transmitter is not stored on the memory, during the function of viewing of the memory location.
EoUE	Visualized when the control unit exits from the function of viewing of the memory location for inactivity.
5nd	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:	

EFO.	Impact sensor intervention
EEd	Safety edge intervention
EL5	Limit switches error (both opening and closing electrical limit switches busy in the same time)
EPH	Malfunctioning of photocells
EĿH	Thermical intervention to preserve the control unit
ETE	Memory error
FUL	Full memory
Err	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



# 7.3 Input LED and safety devices

RED (normally on)	RED (nomally on)	RED (normally on)	RED (normally on)	GREEN (normally off)	GREEN (normally off)	GREEN (normally off)	GREEN (normally off)
DGE	PH2	PH 1	STOP	OPEN	CLOSE	PED	SS

# 8. Technical features

### **POWER SUPPLY AND CONSUMPTION**

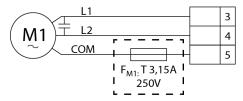
1 OTTER COLLET AND COMOCINI HOR		
Power supply voltage	230 Vac - 50/60 Hz	
Absorption from line (Standby)	55mA @ 230 Vac	
Standard configuration (2 couple of photocells	, RX radio safety edge)	
Line fuse		F6.3A
MOTOR POWER SUPPLY		
Number of motors		1/2
Motor power supply voltage		230 Vac - 50/60 Hz
Maximum power absorbed from motors		2 x 700W
ACCESSORIES POWER SUPPLY		
Accessories power supply voltage	24Vdc - 24Vac	
Maximum current absorbed from accessories	145 mA dc - 375 mA ac	
Maximum power absorbed from accessories		3.5 W dc - 9W ac
Accessories fuses	Accessories 24Vdc	F0.5A
	Accessories 24Vac	F2A
Blinker output		230 Vac 60W max
Courtesy light output / open gate light		230 Vac 100W max
Electrical lock output	from terminal board	12 Vac 15 VA
	with R1 card (optional)	dry contact
	·	230 Vac 5A, 30 Vdc 5A max

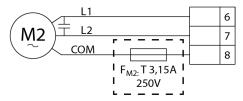
#### **FUNCTIONALITY**

1 ONO II ONO III I				
433 MHz radio receiver	Rolling code			
Maximum transmitters	1000 (up to 8000)			
Safety edge input	NC / 8k2			

# 9. Motors

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.







**WEEE - Information for users:** If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life. The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one. Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400 m<sup>2</sup>, if they measure less than 25 cm. An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health, and encourages the re-use and/or recycling of the construction materials.

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.