



## 1. APPLICATIONS

Control panel for 1 motor at 230 or 120 Vac depending on version, with integrated radio receiver, suitable for most of hydraulic engine.

## 2. OPERATING INSTRUCTIONS

Operations are carried out or by push buttons "P.ALT" (23-24) or via smart transmitters  
 Door operations finalize under the following conditions: Activation of the corresponding limit switch. Or finalization of the programmed time limit.

If an order is given during opening, the door will not close automatically.

If an order is given during closing the door will stop. If we give a new order the door will open.

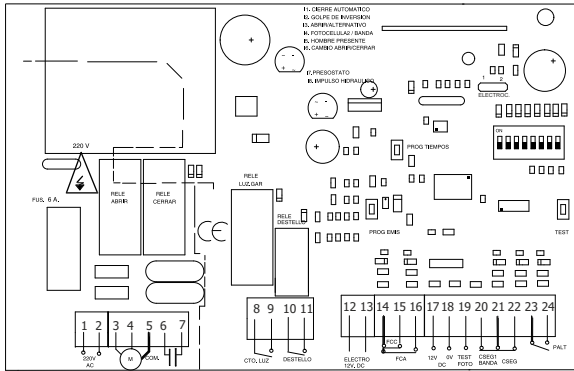
Activation of C.SEG (21-22) during closing will open the door.

With dip 4 OFF terminal CSEG1 (20-21) will act as a pressure wave switch (N.C.) and will only (invert) when the door is closing. In this case the CSEG1 input (20-21) will be inhibited for 3 sec.

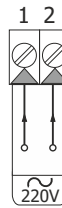
With dip 4 in ON terminal CSEG1 (20-21) works as a resistive safety edge (8,2Kohms) inverting the door when opening & closing.

## 3. CONNECTIONS

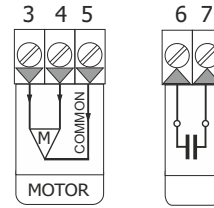
### 3.1 CONTROL PANEL



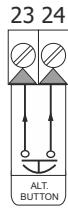
#### POWER SUPPLY



#### MONOPHASE MOTOR

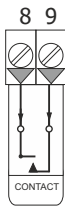


#### TERMINAL PUSH BUTTONS

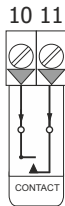


### 3.2 TERMINAL CONNECTIONS

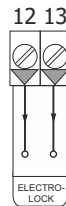
#### GARAGE LIGHT



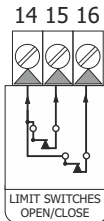
#### FLASH



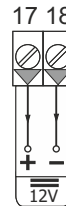
#### ELECTRO-LOCK



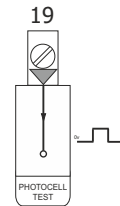
#### LIMIT SWITCHES



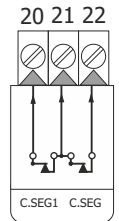
#### ACCESSOIRES POWER SUPPLY



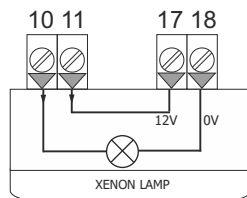
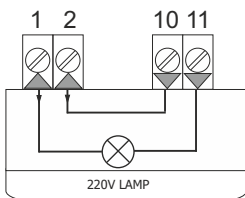
#### PHOTOCELLS TEST



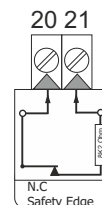
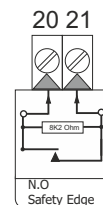
#### SAFETY



### 3.3 FLASHING LIGHT



### 3.4 SAFETY EDGE (Option 4 ON\*)



### 3.5 BRIDGE SELECTORS

#### Electric lock output selector



















1 Electric lock

2 Electric locks

#### \*Option combinations

I7	I4	CSEG1
OFF	OFF	Photocell activates when opening
OFF	ON	Resistive safety
ON	OFF	Activates pressure wave switch on closing (overhead/sectional)
ON	ON	Activates pressure wave switch on opening and closing (Swing)

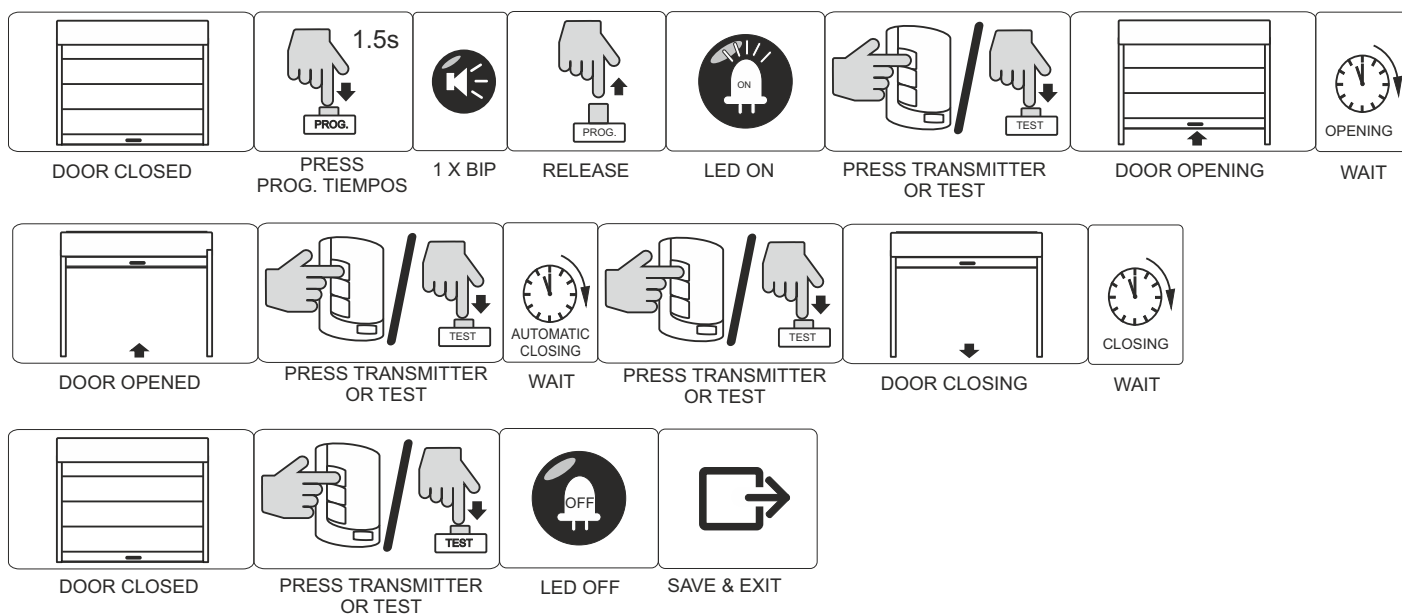
## 4. OPTIONS

1	AUTOMATIC CLOSING		- Door closes automatically after waiting a.c. time.
			- Door does not close automatically.
2	CLOSE PULSE FOR ELECTRO-LOCK		- Door closes 1 second before opening.
			- Door opens normally.
3	DISABLE STOP ON OPENING		- Alternative button START (23-24) and transmitter stop and invert the manoeuvre at closing. Disable stop at opening.
			- Alternative button P.ALT (23-24) and transmitter, stop the door at opening and invert at closing.
4	PHOTOCELL 2 (CSEG1) (OPTION 7 OFF)		- Terminal CSEG1 (20-21) functions with resistive edge (8,2K) and inverts when activated.
			- Terminal CSEG1 (20-21) functions as a photocell activating on opening (Normally closed contact).
5	GARAGE LIGHT / FLASHING		- Fixed Garage light.
			- Flashing light (Use lamps with integrated flashing function).
6	CHANGE OPEN / CLOSE		- The written direction of open / close backwards (open is closed and closed is open).
			- The written direction of open / close is as indicated.
7	PRESSURE WAVE SWITCH* (see combination of options point 3.4)		- Terminal 20-21 (C.SEG1) works as an input for PWS (normally closed contact). There is a 3 sec inhibition from the start of the drive.
			- Terminal 20-21 (C.SEG1) works as OPTION 4.
8	IMPULSE EVERY 3 HOURS		- The door opens and closes for 5 sec. every 3 hours (hydraulic motors).
			- Normal working conditions.

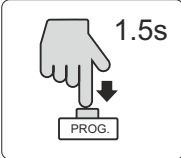

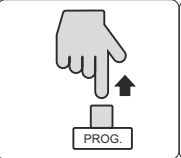

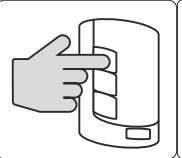
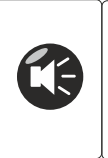

**OPTION 1 and OPTION 3 ON**  
Converts alternative operation into opening operation. **Forced closing:** if the door is open and the alternative button / or transmitter is pressed for 3 sec. then the door will be forced to close.


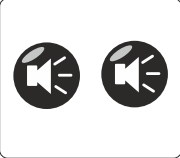

**\*With pressure wave switches ( 17 ON) programming of time functions must consider the pressure wave switch inhibition time from the start of the closing process (+3 sec).**

## 5. DIGITAL TIME PROGRAMMING

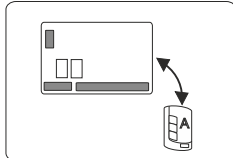
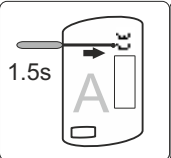

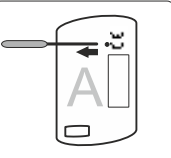

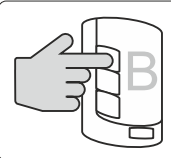
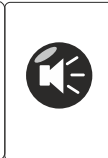
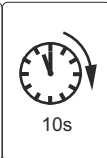


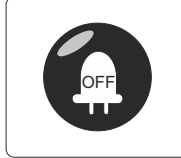
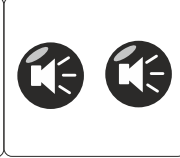

## 6. TRANSMITTER MANUAL PROGRAMMATION

						
PRESS BUTTON PROG. EMIS	1 X BIP	RELEASE	LED ON	PRESS BUTTON	1 X BIP	WAIT

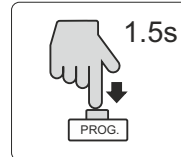


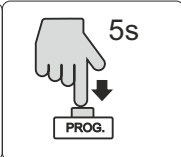
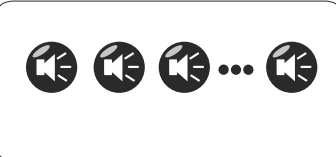
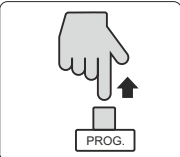

		
LED OFF	2 X BIPS	SAVE & EXIT

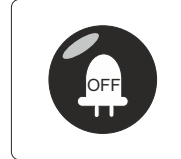
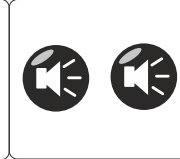

### 6.1 TRANSMITTER RADIO PROGRAMMING

							
MUST HAVE A TRANSMITTER RECORDED IN A CONTROL UNIT	PUSH A SPECIAL FUNCTION	1 X BIP	RELEASE	LED ON	PUSH BUTTON	1 X BIP	WAIT

		
LED OFF	2 X BIPS	SAVE & EXIT

### 6.2 MEMORY RESET

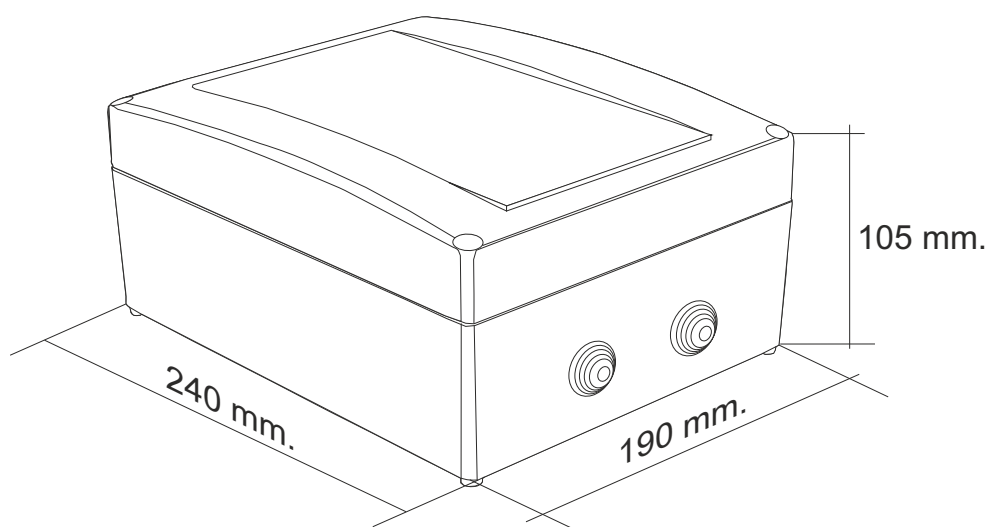
						
PULSAR	1 X BIP	LED ON	KEEP IT PRESSED	# BIPS	RELEASE	WAIT

		
LED OFF	2 X BIPS	SAVE & EXIT

## 7. PHOTOCCELL TEST

At the beginning and end of each door operation the control panel tests the state of the photocells. Once connected, the test function tests the cells 5 times (these 5 tests must be successful) to verify and memorize the connection. The control panel independently tests the two photocell inputs (CSEG & CSEG1). EG: We could have a photocell with test in input CSEG & bridge CSEG1. The control panel knows that there is a photocell with test CSEG and one without test on CSEG1. If a photocell connected to the test does not pass or fails, a RED LED FLASHES (programme indicator led), thus no automatic function will be allowed until a successful test has been completed.

## 8. BOX HOUSING



### TECHNICAL SPECIFICATIONS

Power	230V AC +/- 10%
Drive	550W (0,74 HP)
Electric lock	12 Volts DC 1 Amp.
Accessories - output	12V DC 250mA
Waiting time automatic closing	5 sec to 2 min
Normal time function	3 sec to 2 min
Code combinations	72.000 Billion codes
Number of codes	255 codes
Code programme	Self learning
Selection of functions	Memorizes function of code
Frequency	433,92 or 868,35Mhz
Certificates	ETS 300-220/ETS 300-683
Sensitivity	-105 dBm
Distance	100 m
Antenna	Incorporated
Temperature	0 to 70°C

CE DECLARATION OF CONFORMITY  
For more information visit the website [www.aerf.eu](http://www.aerf.eu)

## WARNING!!

- Equipment installation and start-up, can only be executed by qualified personal.

