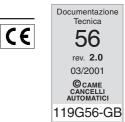


ROAD BARRIER



G12000





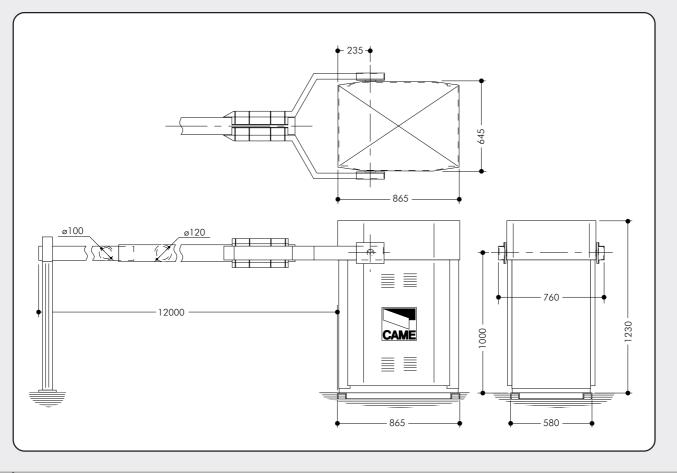
GENERAL CHARACTERISTICS							
Description:	Models:	Optional accessories:					
 Motorised barrier for control of passages with width of up to 12 m. Designed and built entirely by CAME S.p.A., meets UNI 8612 safety standards, with IP54 degree of protection. Guaranteed 12 months, unless tampered with. 	G12000 Barrier with double, non-reversible 24 V DC gear motor. Galvanised steel housing with painted finish. Accessories supplied: G0121 - Aluminium barrier bar composed of: Ø120 mm tube with L=6200 mm Ø100 mm tube with L=6000 mm. - Hardware and accessories for mounting the barrier bar. - Fixed support for the barrier.	LB35 Circuit card for installation of an emergency battery. G0461 Package of red phosphorescent strips for the barrier bar.					

Important: For easy installation and maintenance, be sure to use CAME original control equipment, safety systems and accessories.

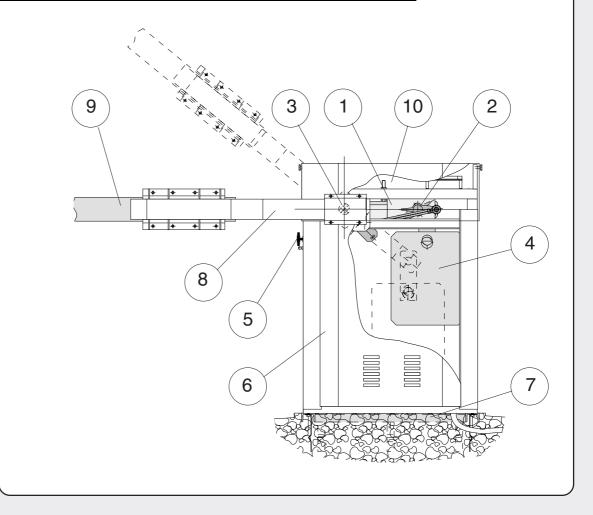
l		_		TECHNICAL	CHARACT	ERISTIC		_	
ſ	PRODUCT VERSION	VOLTAGE REQUIREMENT	CURRENT DRAW	TOTAL MOTOR POWER RATING	DUTY CYCLE	REDUCTION RATIO	TORQUE	DURATION OF OPENING CYCLE	WEIGHT
	1.0	230 V A.C. 24 V D.C.	15 A max	300 W	50 %	1/202	600 Nm	10 s	783 kg *

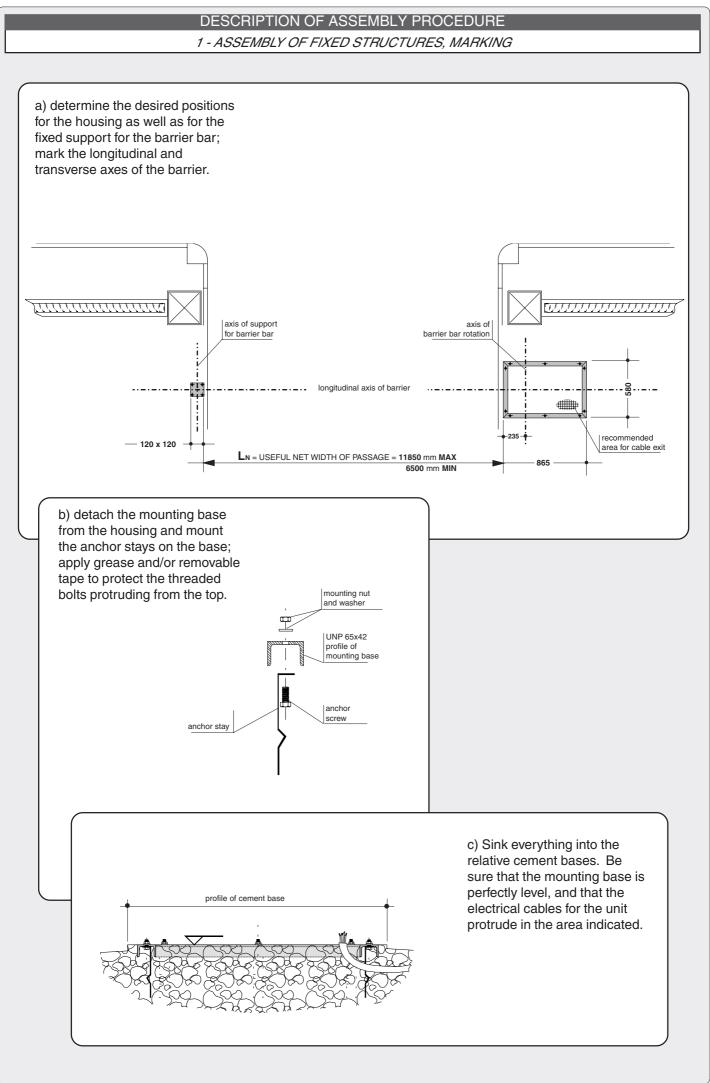
(* Weight of G12000 barrier structure = 250 Kg / Weight of counterweight plates = 500 Kg / Weight of G0121 bar = 33 Kg)

CENTRE LINES AND EXTERNAL DIMENSIONS



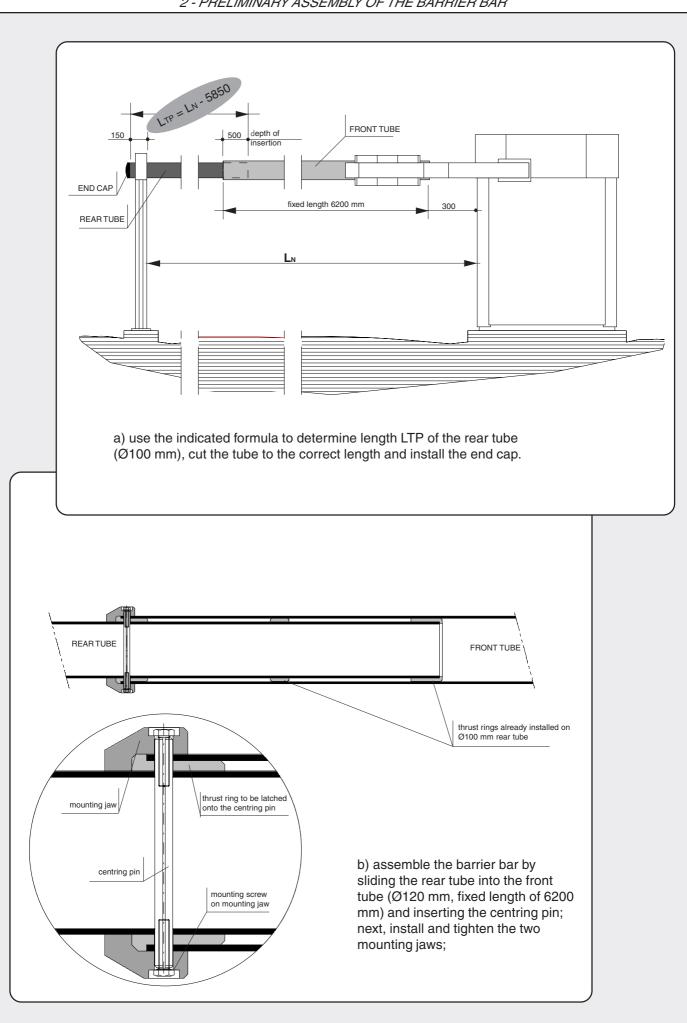
	DE	SCRIPTION OF MAIN COMPONENTES
1	REDUCTION GEAR UNIT	24 VDC motors; non-reversible reduction gear with die-cast aluminium housing; uses worm gear reduction system which is permanently lubricated with liquid grease.
2	TRANSMISSION LEVERS	In forged, galvanised steel; adjustment rods in drawn hexagonal metal; self-lubricating joints.
3	ROTATION SHAFT	In C40 recycled steel, mounted on single-unit supports with terminal flanges for installation of barrier bar fork.
4	COUNTERWEIGHT SYSTEM	Uses 25 Kg rectangular plates which are assembled as needed.
5	RELEASE SYSTEM	Manual, with PVC handle and cord in self-lubricating sheath; safety lock.
6	HOUSING	Load-bearing structure in steel profiles, and external cover in press-bent 25/10 sheet steel. Both are galvanised and painted RAL 2004 orange.
7	MOUNTING BASE	U-profile in galvanised steel, complete with anchor stays and bolts for attachment of housing structure.
8	BARRIER BAR FORK	In galvanised steel painted RAL 9005 black; supplied in two symmetrical parts which are ready for assembly.
9	BARRIER BAR	In 6060 TA16 aluminium alloy painted RAL 9010 white; supplied in two circular sections (Ø120 and Ø100 mm) which are assembled to the desired size.
10	CONTROL PANEL	Housing in ABS with IP54 level of protection, installed in horizontal position.





- pog. 4 - english -

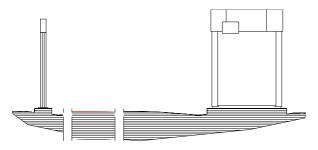
DESCRIPTION OF ASSEMBLY PROCEDURE 2 - PRELIMINARY ASSEMBLY OF THE BARRIER BAR



DESCRIPTION OF ASSEMBLY PROCEDURE

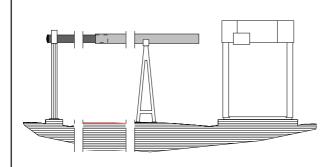
3 - INSTALLING THE BARRIER

a) remove the cover of the housing (by lifting) and remove the sides of the housing (by raising and withdrawing them from below); clean the cement bases and free the bolts on the anchor stays by removing the protection tape and nuts;



b) position and mount the housing on the mounting base;

c) position and mount the fixed support for the barrier bar, and make sure it is in perfect longitudinal alignment with the housing;

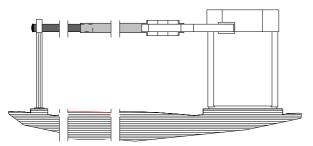


d) with the aid of a stand and the fixed support, place the barrier bar at the approximate height and axis of operation;

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e) install the fork and unite the two mounting jaws on the barrier bar, but do not tighten the bolts;

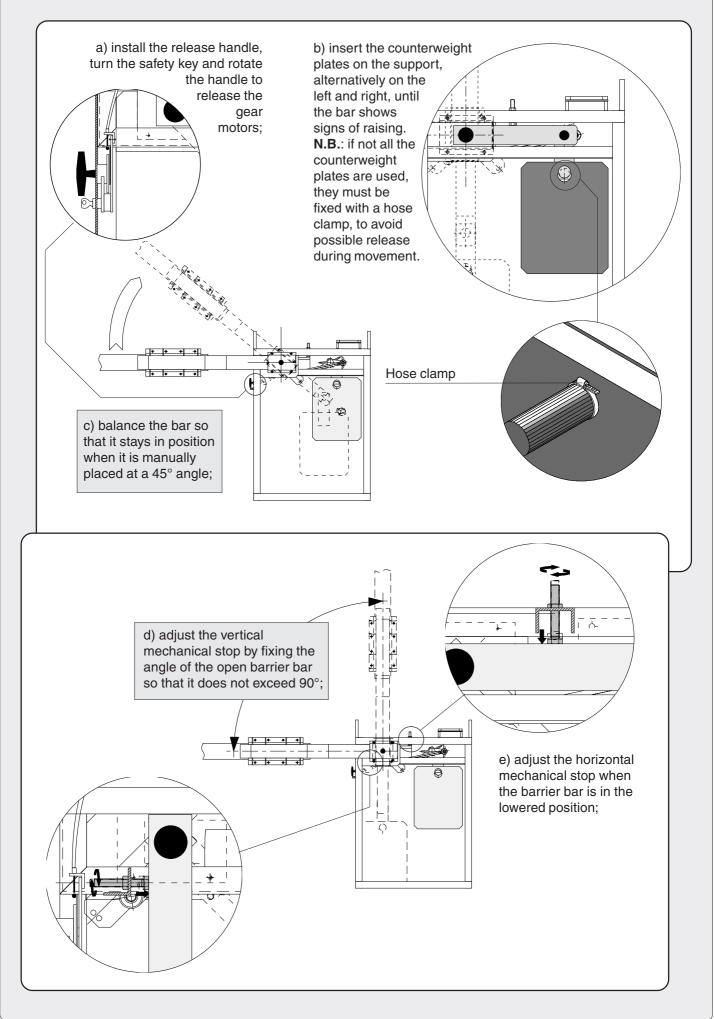
f) next, mount the barrier bar on the terminal plates of the rotation shaft, but do not tighten the bolts;

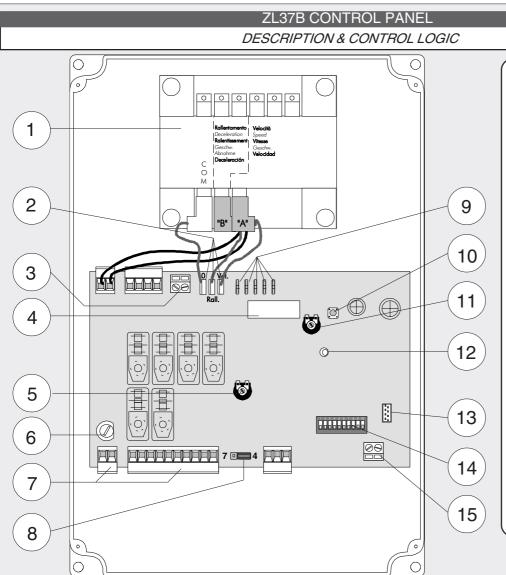


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g) check for misalignment and adjust if necessary; then, firmly tighten the bar onto the fork and firmly tighten the fork onto the housing.

DESCRIPTION OF ASSEMBLY PROCEDURE 4- ASSEMBLING THE COUNTERWEIGHTS; ADJUSTING AND BALANCING THE BARRIER BAR





MAIN COMPONENTS

- 1) Transformer
- 2) Connectors for power supply motor
- 3) Terminal block for motor connections
- 4) 2A accessories fuse
- 5) Amperometric sensitivity adjustment (trimmer SENS)
- 6) 3,15A line fuse
- 7) Terminal block for external connections
- Jumper for selection of type of control for button in 2-7
- 9) Connectors for connection to battery charger LB35
- 10) Button for memorizing code numebers
- 11) Automatic closing time adjustment (trimmer TCA)
- 12) Radio code / automatic closing signal LED
- 13) Radiofrequency board socket (see table pag. 11)
- 14) "Funcion selection" dipswitch
- 15) Terminal block for antenna connections

This control board is powered by 230V a.c. across terminals L1 and L2, and is protected by a 3.15A fuse on the main power line.

Control systems are (24) powered by low voltage and protected with by a 2A fuse.

The total power consumption of 24V accessories must not exceed 40 W.

Safety

Photocells can be connected to obtain:

a)Re-opening during the closing cycle;

b)Total stop: the movement of the bar is interrupted, and the automatic closure cycle is disactivated. Use the keyboard or the radio transmitter to resume movement of the bar;

c)Immediate closure (the bar is lowered automatically after the vehicle has passed the safety devices, on the terminals 2-C5 of the control panel;

- Amperometric safety device: see NOTE;

- Fixed operating time of 20 sec.

Accessories which can be connected to this unit

- LB35 board, used to power the automation system using battery power in case of a power failure. When the power supply is restored, the batteries are recharged automatically (refer to instruction sheet);

- Flashing signal light when bar is in motion;

- Plug-in radio receiver.

Other functions available

- Automatic closing: The automatic closing timer is automatically activated at the end of the opening cycle. The preset, adjustable automatic closing time is automatically interrupted by the activation of any safety system, and is deactivated after a total stop command or in case of power failure; - Obstacle detection: When the motor is stopped (bar is closed, open or halfopen after an emergency stop command), the transmitter and the control pushbutton will be deactivated if an obstacle is detected by one of the safety devices (for example, the photocells);

- "Human presence" operation;
- Flashing light activated before
- opening and closing cycle begins; - Activation of a 24V output signal
- Activation of a 24V output signal during the movement phases and in the closed position;

- "Slave" operation when two motors are used in combination (see page 15);

- Function that increases the braking action on the barrier;

Selection of command sequence:
 open-close-reverse;
 open only.

Adjustments

- Trimmer TCA = Automatic closing time: 0" to 120";

- Trimmer SENS = Sensitivity of amperometric safety system: min/ max.

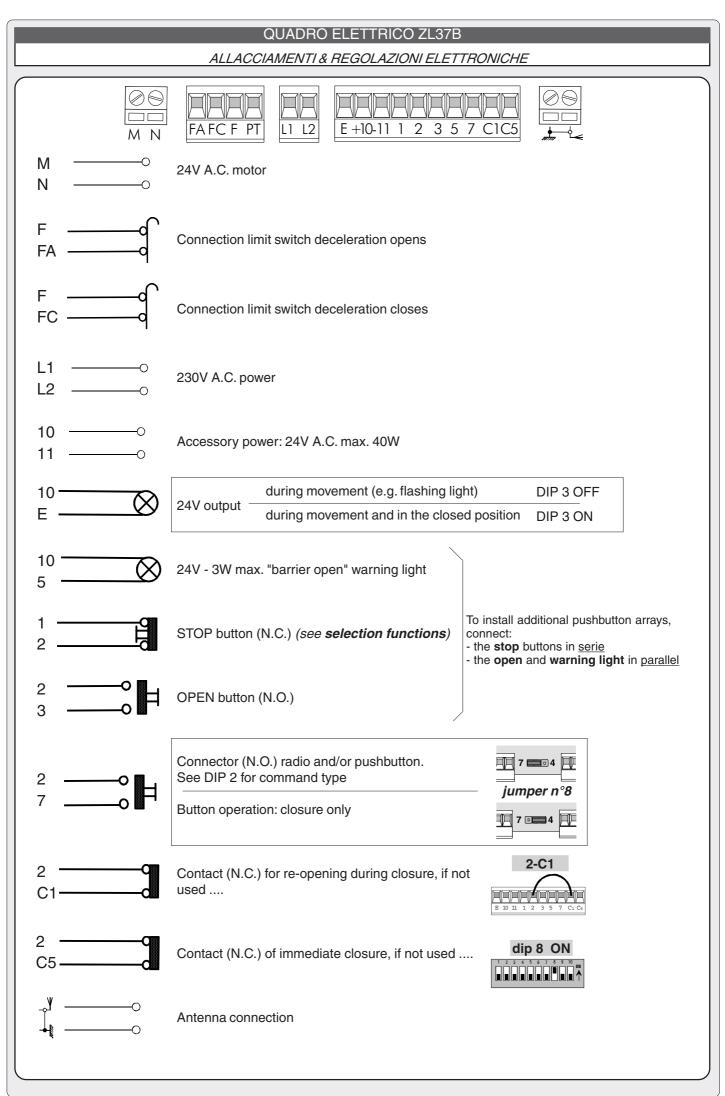
Important: Shut off the mains power and disconnect the batteries before servicing the inside of the unit.

When an obstacle is encountered, the amperometric locking device intervenes as follows: a) if in the aperture phase, the bar stops; b) if in the closure phase, the movement of the bar is reversed.

N.B.: In situation (b), if an obstacle is detected three times, the bar stops during aperture, and automatic closure is disactivated.

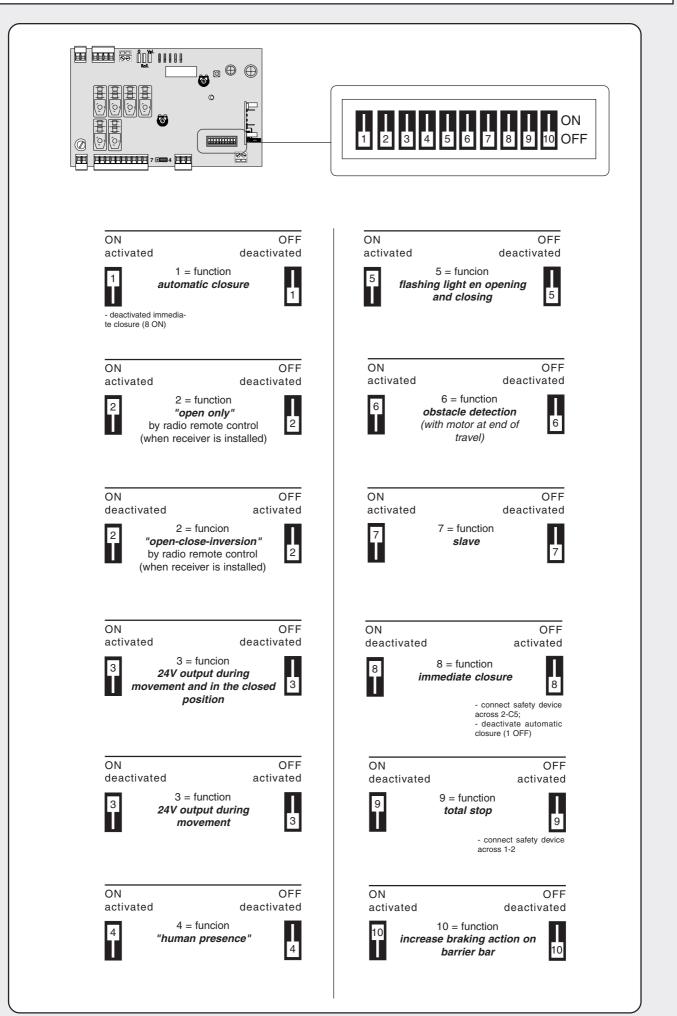
NOTA

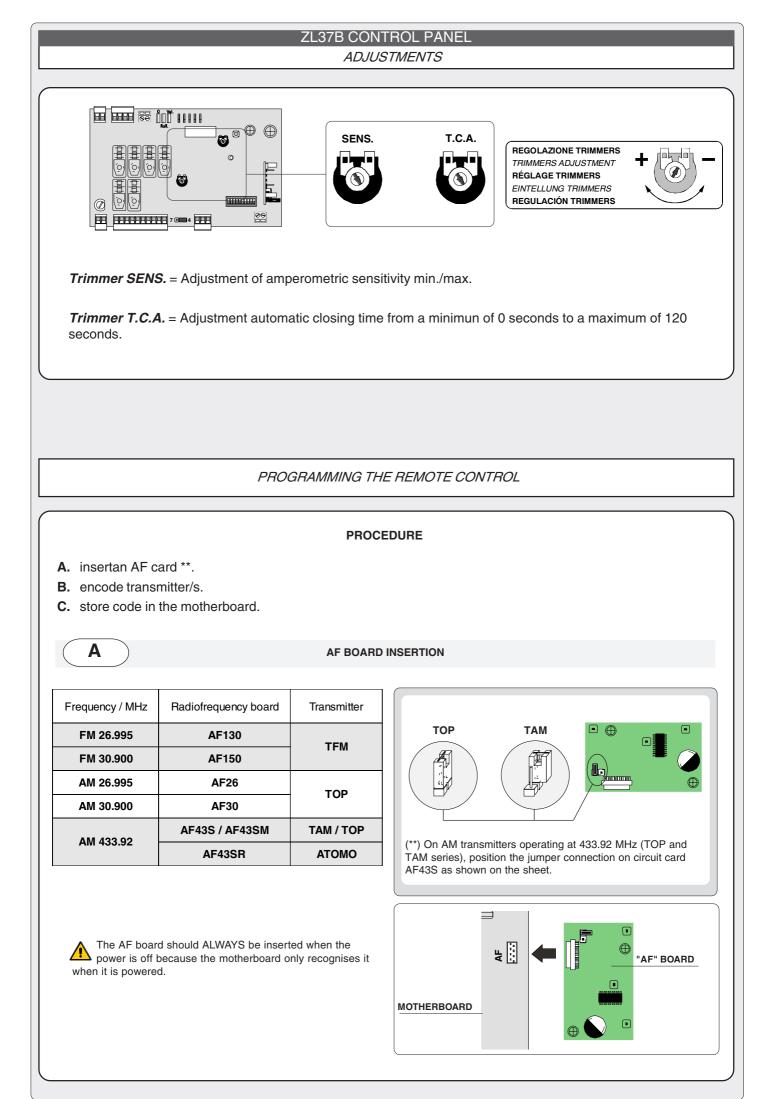
Use the keyboard or the radio transmitter to resume movement of the bar.

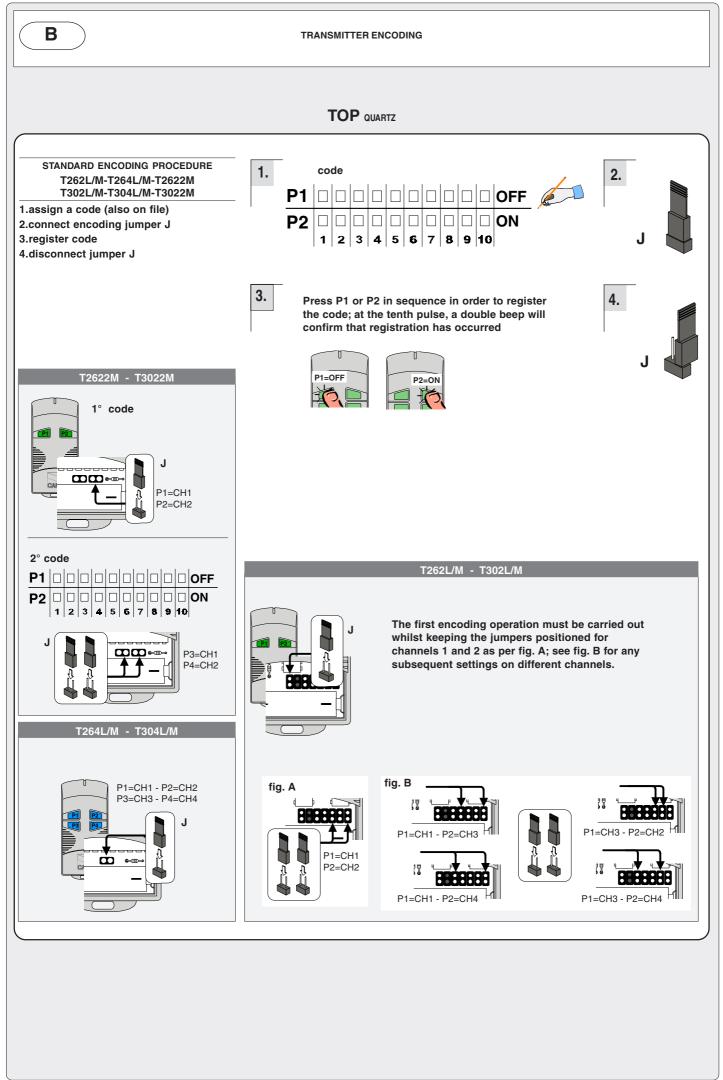


ZL37B CONTROL PANEL

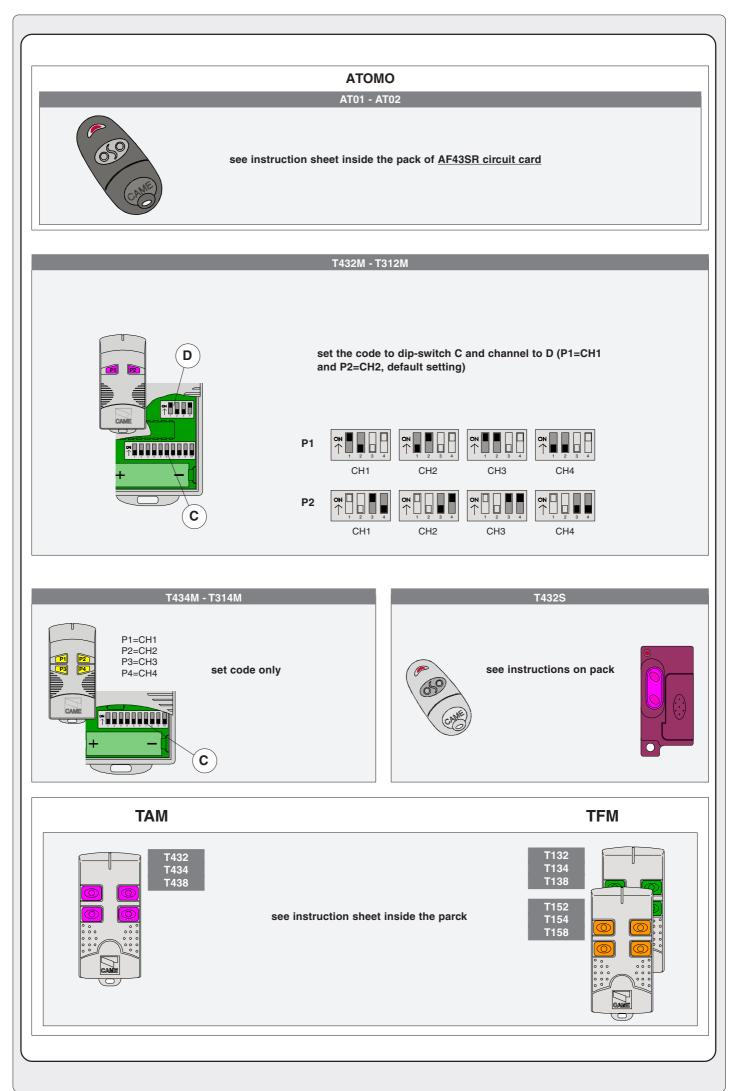
SELECTION FUNCTION







- pog. 12 - english -



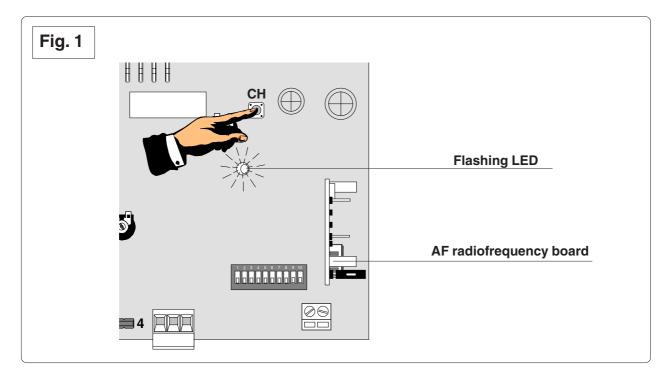
CODE STORAGE

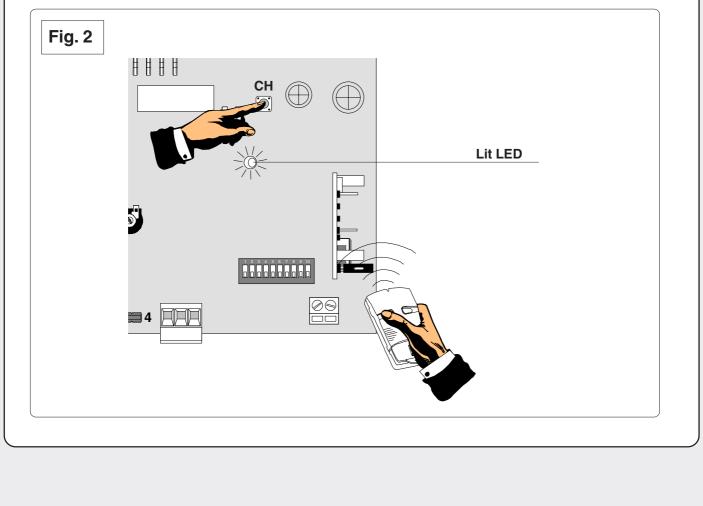
- While holding down key "CH" signal LED flashing (Fig.1), press the control key on the transmitter: the lights up of LED sign the code stored (Fig.2).

IMPORTANT: Do not store the code on the circuit card unless the barrier is closed.

С

N.B.: If you wish to change the code on your transmitters in the future, simply repeat the procedure described above.

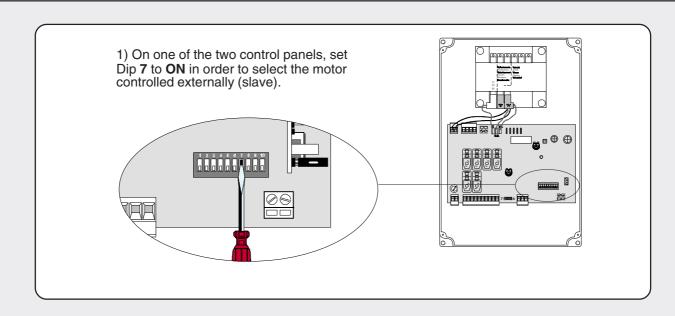


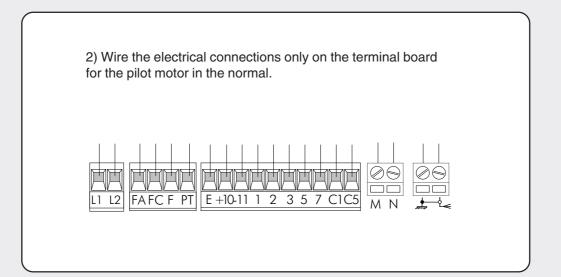


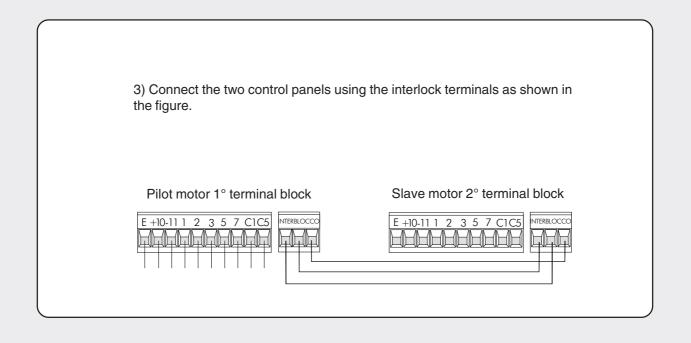
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ZL37B CONTROL PANEL

CONNECTIONS FOR 2 COMBINED MOTORS CONTROLLED TOGETHER







- pag. 15 - english -

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All data checked with the maximum care. However, no liability is accepted for any error or omission.

