

CONTROL PANEL FOR 24V OPERATORS

Z SERIES



INSTALLATION MANUAL

ZLJ24

English

ΕN

"IMPORTANT INSTALLATION, SAFETY INSTRUCTIONS"

"CAUTION: IMPROPER INSTALLATION MAY CAUSE SERIOUS DAMAGE, FOLLOW ALL INSTALLATION INSTRUCTIONS CAREFULLY" "THIS MANUAL IS ONLY FOR PROFESSIONAL INSTALLERS OR QUALIFIED PERSONS"

1 Legend of symbols



This symbol indicates sections to be read with particular care.



This symbol indicates sections concerning safety.

This symbol indicates notes to communicate to users.

2 Intended use and application

2.1 Intended use

The ZLJ24 control panel is engineered to command 24V D.C. automation for swing gates of the Axo-Frog-Ferni-Fast series.



The use of this product for purposes other than as described above and installation executed in a manner other than as instructed in this technical manual are prohibited.

2.2 Application

Make sure you respect the distances and cable diameters as shown in "cable types and minimal thicknesses" table. The overall power of the motors must not exceed 500 W.

3 Reference Standards

For its quality processes management Came Cancelli Automatici is ISO 9001:2000 certified, and for its environmental management it is ISO 14001 certified. Came designs and manufactures entirely in Italy.

This product complies with the following standards: see Declaration of Compliance.

4 Description

This product is engineered and manufactured by CAME cancelli automatici s.p.a. and complies with current safety regulations. Guaranteed 24 months if not tampered with.

The control panel works on 230V a.c. of power, 50/60Hz frequency.

The command devices and accessories are 24V rated. Warning! Accessories must not exceed an overall total of 50W.

All connections are protected by quick fuses, see table.

The input and output contact functions, the timing settings and users' management, are set and viewed on the display, which is run by software.

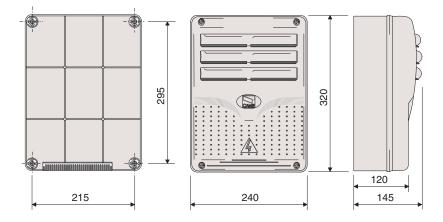
Set up to connect the LB180 board to power the batteries, which, in case of a power failure, intervene automatically. When the power comes back on, the board automatically recharges the batteries.

TECHNICAL FEATU	RES	
Power supply	230V - 50/60Hz	
max. rated power	500W	
Power draw when idling	110mA	
Max power of 24V accessories	50W	
Insulation rating	II	
Material	ABS	
Protection rating	IP54	
operating temperature	-20 / +55°C	

FUSES				
fusibile da:				
3.15A-F				
5A-F = 230V				
2A-F				
630mA-F				
10A-F				

4.1 Dimensions, spans and anchoring holes

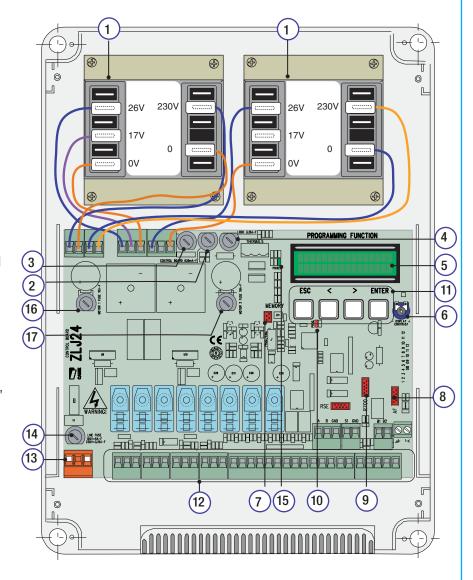
(mm)



4.2 Main components

- 1 Transformer
- 2 Card fuse
- 3 Accessories fuse
- 4 Electrolock fuse
- 5 Display
- 6 Display lighting adjustment trimmer
- 7 Memory roll card connector
- 8 AF card connector
- 9 R700 card connector
- 10 Open contact error warning LED
- 11 Programming buttons
- 12 Terminal board for connecting
- 13 Terminal board for 230V a.c. power grid
- 14 Line fuse
- 15 230V-power signalling LED
- 16 Motor 1 fuses 2
- 17 Motor 1 fuses 2

Warning! Before acting on the machinery, cut off the main power supply and disconnect any emergency batteries.



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5 Installation



Installation must be carried out by expert qualified personnel and in full observance of regulations in force.

5.1 Preliminary checks



Before installing do the following:

- Check that the panel's anchoring point is protected from possible blows, and that the anchoring surface is solid. Also check that the anchoring is done using the appropriate bolts, screws etc.;
- Make sure you have a suitable omnipolar cut-off device with contacts more than 3 mm apart, and independent (sectioned off) power
- 🖨 Make sure that any connections inside the case (that provide continuance to the protective circuit) are fitted with extra insulation as compared to the other conductive parts inside;
- Make sure you have suitable tubing and conduits for the electrical cables to pass through and be protected against mechanical damage.

5.2 Tools and materials

Make sure you have all the tools and materials you will need for the installation at hand to work in total safety and compliance with the current standards and regulations. The following figure illustrates the minimum equipment needed by the installer. Here are some examples.







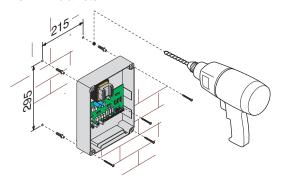




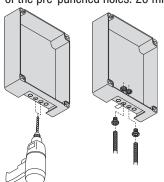


5.3 Fixing and mounting the box

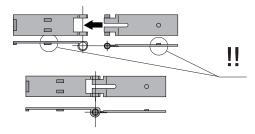
1) Fix the base of the panel in a protected area; we suggest using round top Phillips recessed head screws of max. 6mm in diameter.



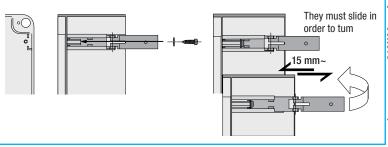
- 2) Perforate the pre-punched holes and insert the cable glands with the corrugated tubing for the electrical cables to travel through.
- N.B.: diameter of the pre-punched holes: 20 mm.



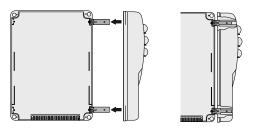
3) Assemble the pressure hinges.



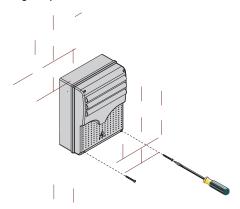
4) Insert the pressure hinges into the box (on the left or right as you wish) and set them using the provided screws and washers.



5) Snap the cover into place onto the hinges. Close it and fix it using the provided screws.



6) After the adjustments and settings, fix the cover using the provided screws.



6 Electrical connections

6.1 Cable and type and section

Connections	Type of cable	Length of cable 1 < 10 m	Length of cable 10 < 20 m	Length of cable 20 < 30 m
Control panel power supply		3G x 1,5 mm ²	3G x 1,5 mm ²	3G x 2,5 mm ²
Power to motor* with encoder	1 1	3G x 1,5 mm ²	3G x 1,5 mm ²	3G x 2,5 mm ²
Power to motor**		2G x 1,5 mm ²	2G x 1,5 mm ²	2G x 2,5 mm ²
flashing lamp	FROR CEI	2 x 1,5 mm ²	2 x 1,5 mm ²	2 x 1,5 mm ²
Transmitter photocells	20-22 CEI EN	2 x 0,5 mm ²	2 x 0.5 mm ²	2 x 0,5 mm ²
Receiver photocells	50267-2-1	4 x 0,5 mm ²	4 x 0,5 mm ²	4 x 0,5 mm ²
Power supply to accessories		2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 1 mm ²
Limit switch** connection		3 x 1,5 mm ²	3 x 1,5 mm ²	3 x 2,5 mm ²
Control and safety devices]	2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 0,5 mm ²
Encoder*** connection	2402C 22AWG	max. 30 m		
Antenna connection	RG58	max. 10 m		

*** FROG-A24E

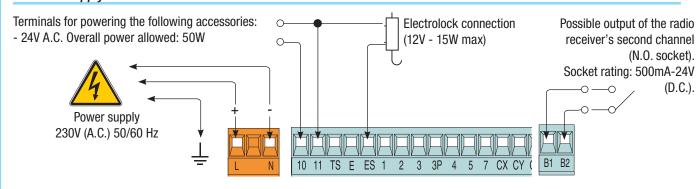
N.B.: If the cable length differs from that specified in the table, then you must determine the proper cable diameter based on the actual power draw from the connected devices and according to the CEI EN 60204-1 standards.

For connections that require several, sequential loads, the sizes given on the table must be re-evaluated based on actual power draw and distances.

When connecting products that are not specified in this manual, please follow the documentation provided with said products.

6.2 Electrical connections

Power supply to accessories



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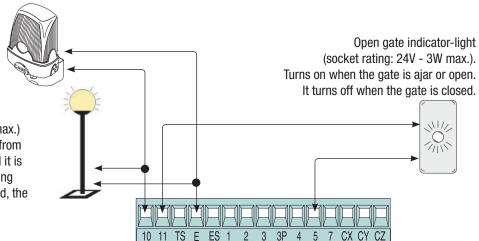
Signalling and Lighting devices

Signal Flasher (socket rating: 24V - 25W max.) Flashes during opening and closing phases.

Cycle lamp: (contact rating: 24V - 25W max.) It lights up the driving area and stays on from the moment the gate begins to open until it is fully closed (including the automatic closing time). If automatic closing is not activated, the lamp stays on only during movement.

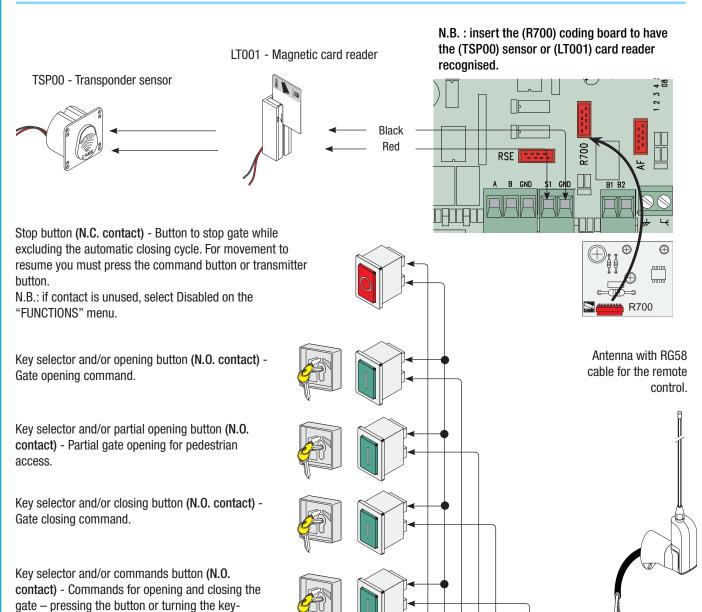
switch, inverts the gate's movement or stops it depending on how it is set on the 2-7 command in

the "FUNCTIONS" menu.



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Command devices



10 11 TS E

ES 1

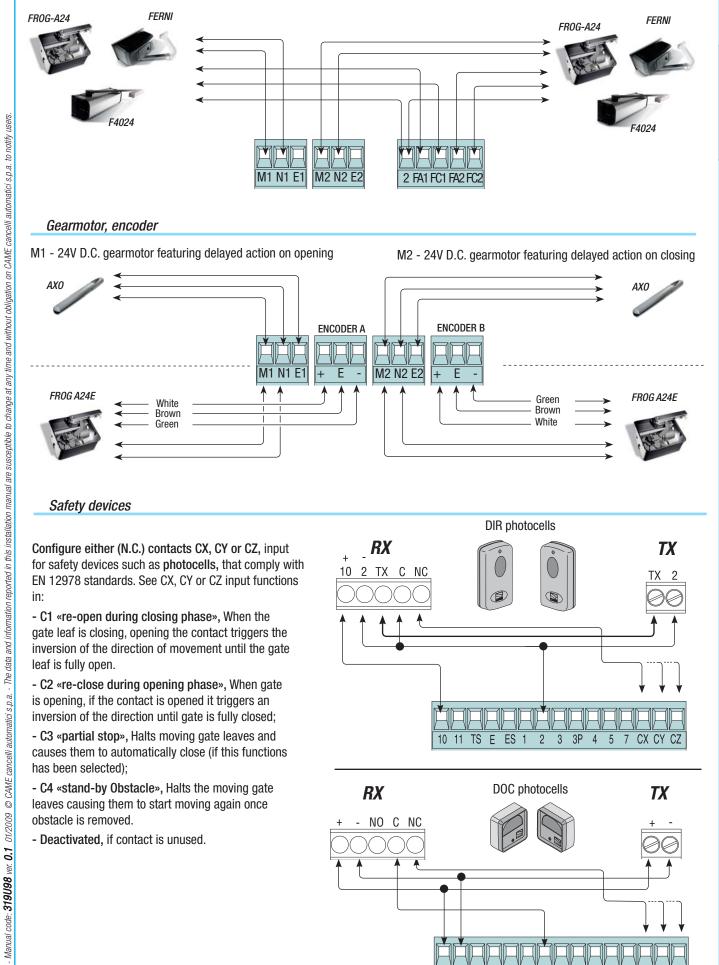
3 3P

4

Gearmotor, mechanical stops

M1 - 24V D.C. gearmotor featuring delayed action on opening

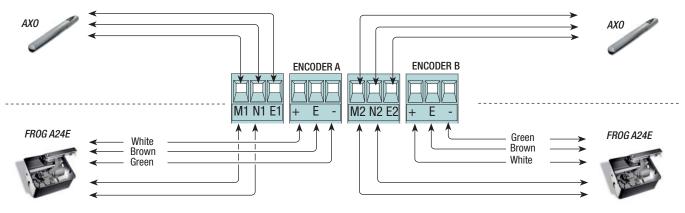
M2 - 24V D.C. gearmotor featuring delayed action on closing



Gearmotor, encoder

M1 - 24V D.C. gearmotor featuring delayed action on opening

M2 - 24V D.C. gearmotor featuring delayed action on closing

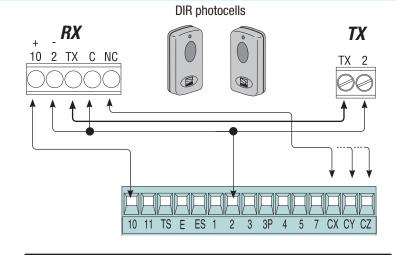


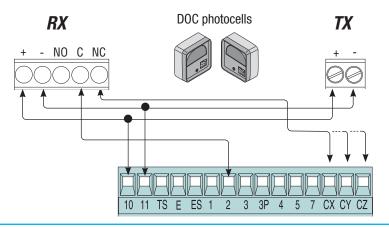
Safety devices

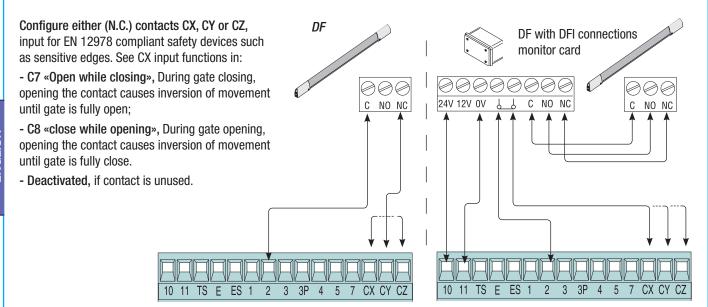
Configure either (N.C.) contacts CX, CY or CZ, input for safety devices such as photocells, that comply with EN 12978 standards. See CX, CY or CZ input functions in:

- C1 «re-open during closing phase», When the gate leaf is closing, opening the contact triggers the inversion of the direction of movement until the gate leaf is fully open.
- C2 «re-close during opening phase», When gate is opening, if the contact is opened it triggers an inversion of the direction until gate is fully closed;
- C3 «partial stop», Halts moving gate leaves and causes them to automatically close (if this functions has been selected);
- C4 «stand-by Obstacle», Halts the moving gate leaves causing them to start moving again once obstacle is removed.
- Deactivated, if contact is unused.

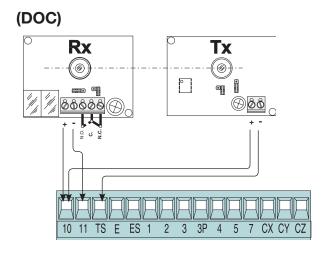
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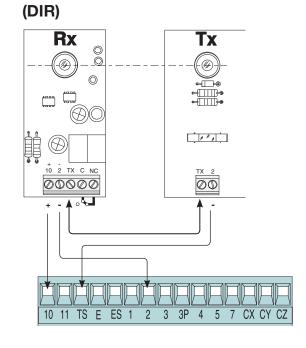






6.3 Electrical connection for the photocells functions test





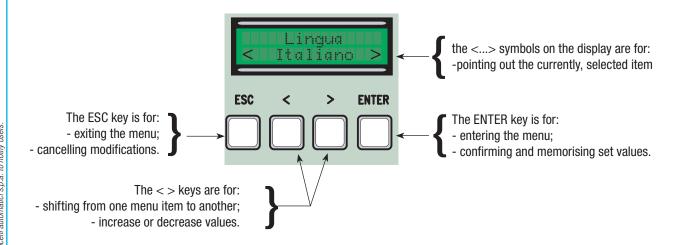
At each opening and closing command, the control board assesses the efficiency status of the control devices (photocells). Any anomaly found is signalled with the flashing of the LED on the control panel. Consequently it cancels any commands coming from the remote control or the button.

Electrical connection to enable the photocell safety test:

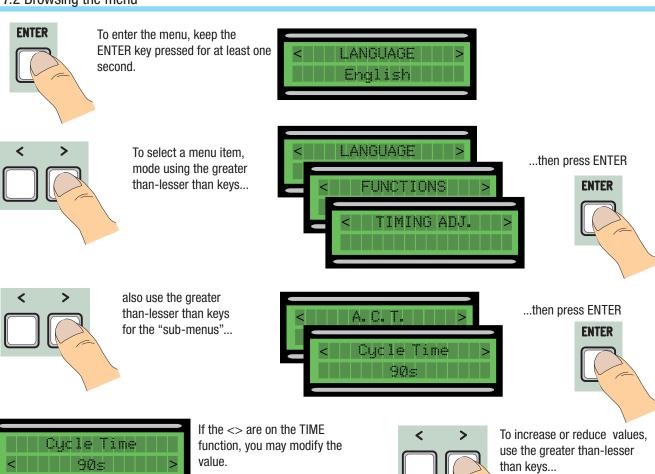
- the transmitter and the receiver, must be connected as per the diagram;
- from the functions menu, select "safety tests" and select either CX CY CZ input/s to activate the test.

7 Programming

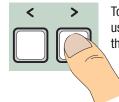
7.1 Description of display commands



7.2 Browsing the menu









...then press ENTER to confirm...



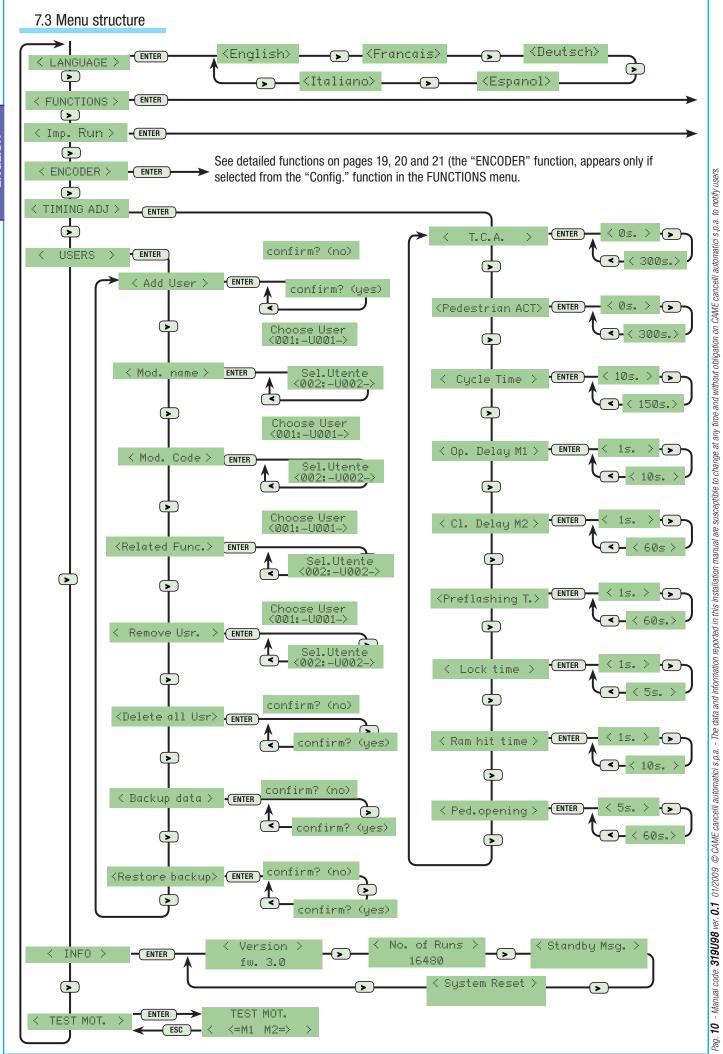
...to exit the menu, wait 30 seconds, or press ESC, until start screen is displayed.



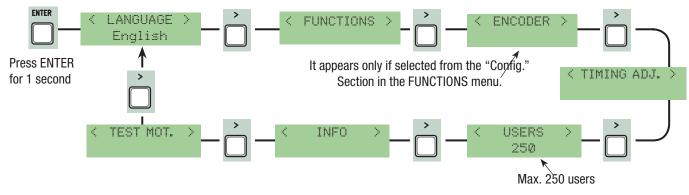


N.B.: when the menu is active, the system cannot be used.

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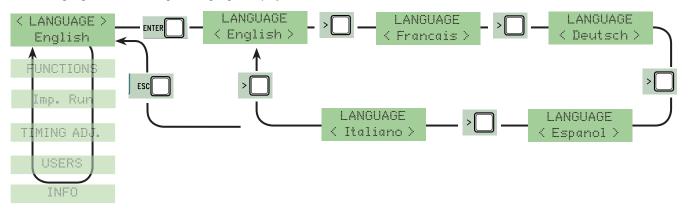






7.5 Language menu

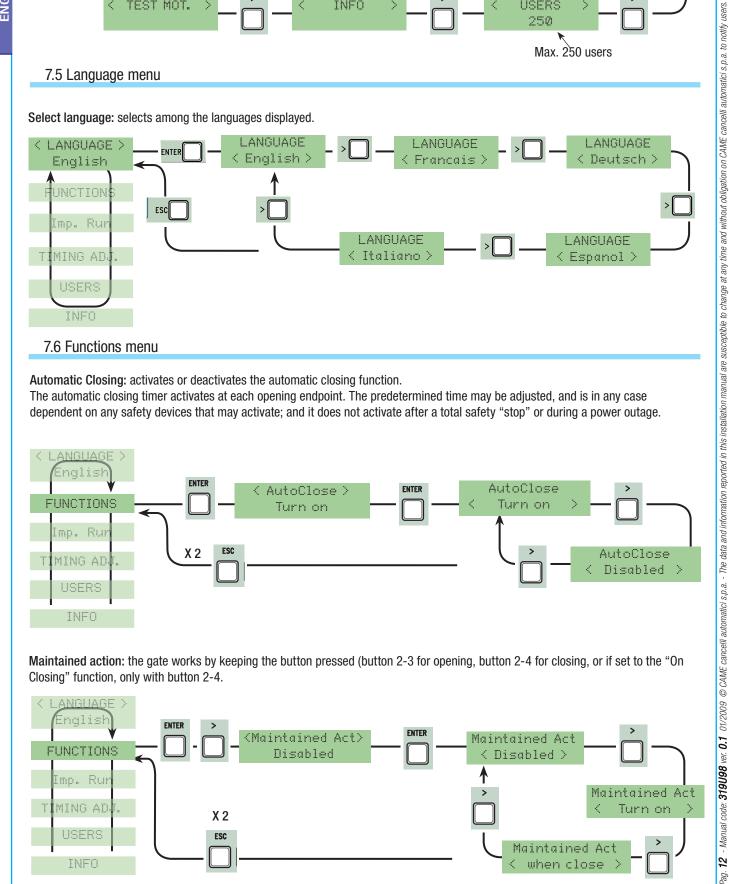
Select language: selects among the languages displayed.



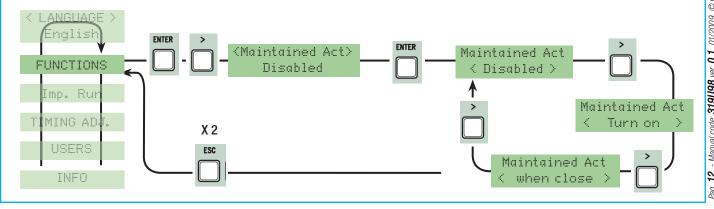
7.6 Functions menu

Automatic Closing: activates or deactivates the automatic closing function.

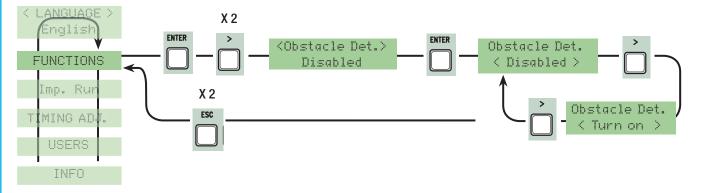
The automatic closing timer activates at each opening endpoint. The predetermined time may be adjusted, and is in any case dependent on any safety devices that may activate; and it does not activate after a total safety "stop" or during a power outage.



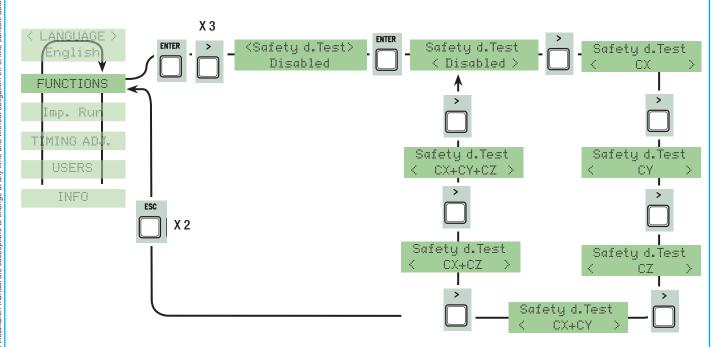
Maintained action: the gate works by keeping the button pressed (button 2-3 for opening, button 2-4 for closing, or if set to the "On Closing" function, only with button 2-4.



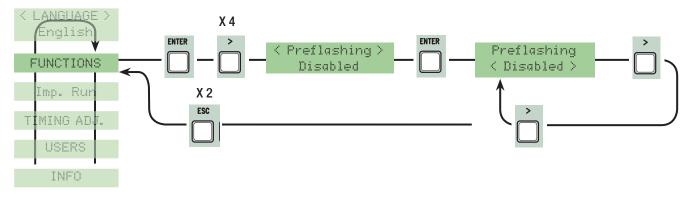
Obstacle detected: when motor is stopped (gate closed or after a total stop command) it prevents any movement if safety devices, such as photocells, detect any obstacles.



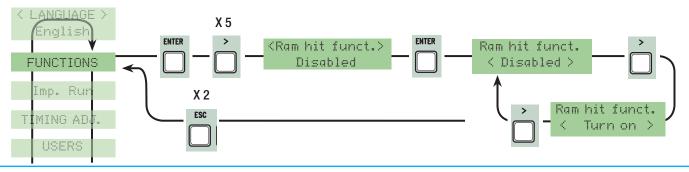
Safety test: allows the card to check the efficiency of any safety devices (i.e. photocells) after every opening or closing command.



Pre-flashing: after an opening or closing command, the flashing light, connected to W-E, starts flashing before the gate begins its run (to set the time, see "Pre-flashing timing" from the Adjust Timings menu

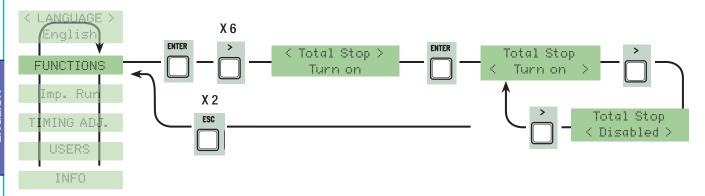


Ram blow: before any opening run, the gate leaves will press onto the mechanical endstop for a few seconds, to help release the electrolock (to set the time, see "Starting ram timing" in the Adjust Timings menu).

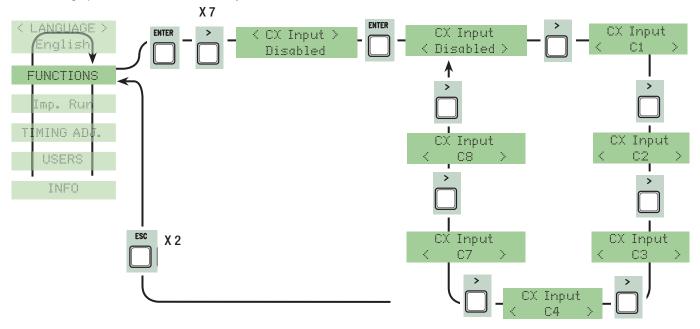


- Manual code; 319U98 var. 0.1 07/2009 © CAME cancell automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancell automatici s.p.a. to notify users:

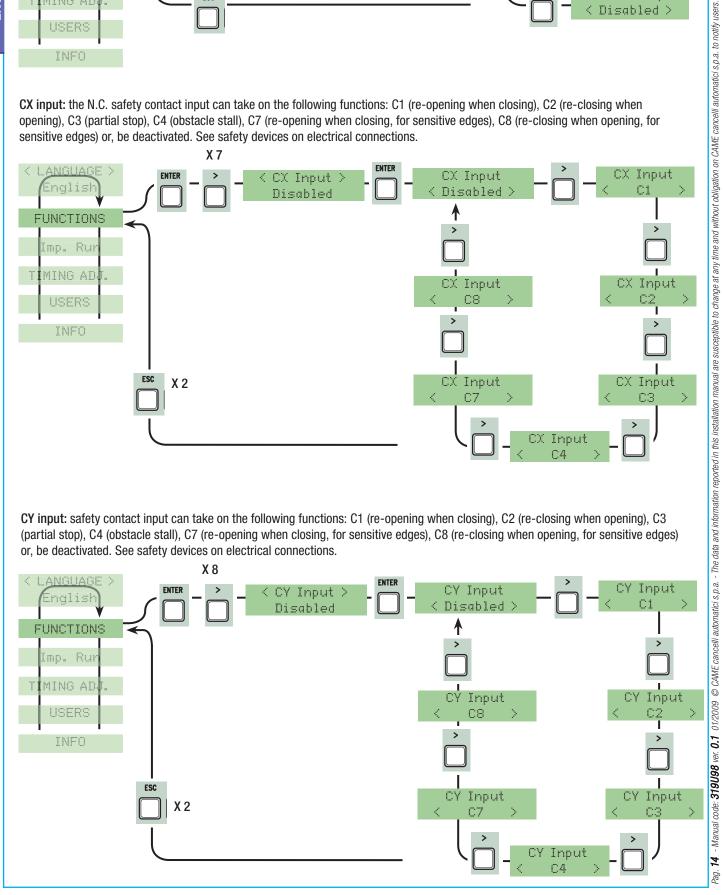
Total Stop: this function stops the gate and consequently excludes any automatic closing cycle; for movement to resume, you need to use the keypad or transmitter. Insert safety device on [1-2]; Insert the safety device on [1 -2]; if unused, select "Deactivated"



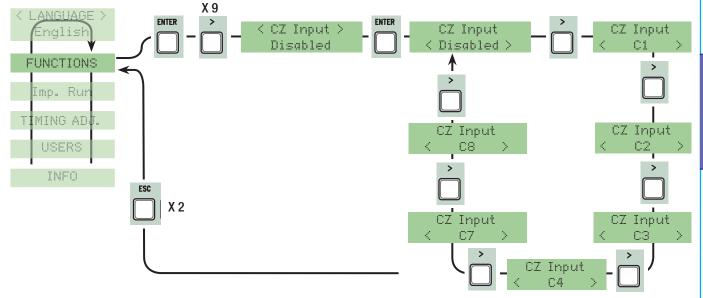
CX input: the N.C. safety contact input can take on the following functions: C1 (re-opening when closing), C2 (re-closing when opening), C3 (partial stop), C4 (obstacle stall), C7 (re-opening when closing, for sensitive edges), C8 (re-closing when opening, for sensitive edges) or, be deactivated. See safety devices on electrical connections.



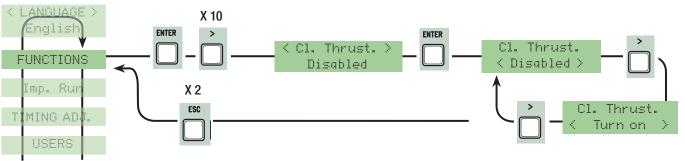
CY input: safety contact input can take on the following functions: C1 (re-opening when closing), C2 (re-closing when opening), C3 (partial stop), C4 (obstacle stall), C7 (re-opening when closing, for sensitive edges), C8 (re-closing when opening, for sensitive edges) or, be deactivated. See safety devices on electrical connections.



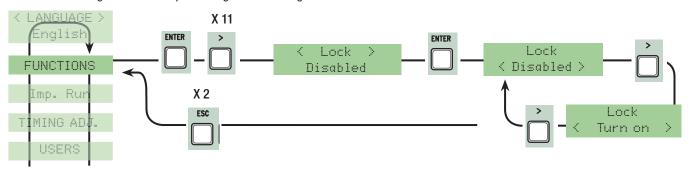
CZ input: safety contact input can take on the following functions: C1 (re-opening when closing), C2 (re-closing when opening), C3 (partial stop), C4 (obstacle stall), C7 (re-opening when closing, for sensitive edges), C8 (re-closing when opening, for sensitive edges) or, be deactivated. See safety devices on electrical connections.



Closing thrust: at the endpoint stage during closing, the gearmotors perform a final closing-thrust of the doors for a few seconds.



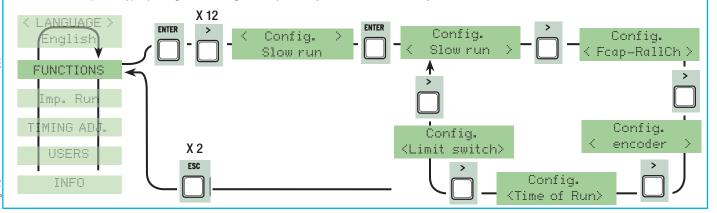
Lock: to lock the gate leaves. Required for gate leaves longer than 2.50 m.



(AXO, AMICO, FROG-A24E and FROG-J)

Configuration:

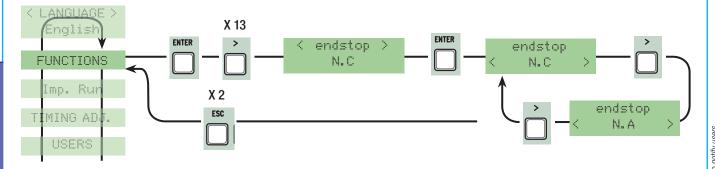
- ecoder: managing decelerations, obstacle detection and sensitivity, (default function);
- slow run: decelerations when opening and closing;
- Fcap-RallCh.: end stop when opening and deceleration when closing;
- Time of Run: timed end stop;
- Limit switch (endstop): opening and closing endstop (FROG-A24 and F4024)



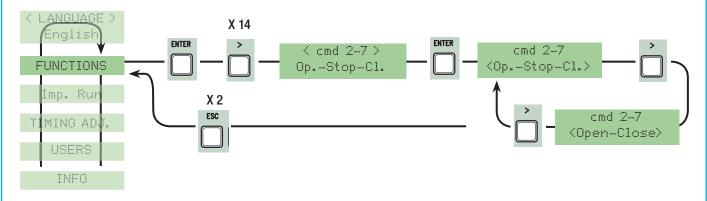
automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users: cancelli - Manual code; **319U98** ver. **0.1** 01/2009 © CAME 15

Endstop: configure the endpoints are normally closed or open contacts.

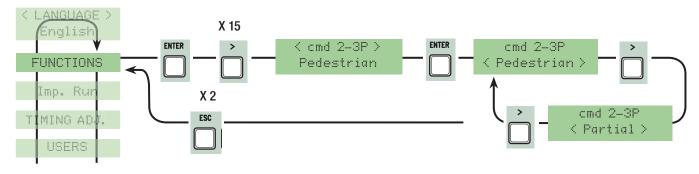
N.B.: this function appears only if selected from the "Config." function in the FUNCTIONS menu.



Command 2-7: setting the 2-7 contact to step-by- step mode (open-close) or sequential (open-stop-close-stop).

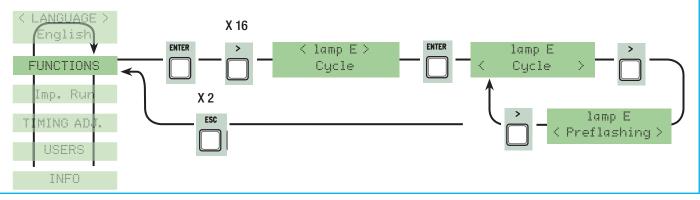


Command 2-3P: setting the 2-3P contact to pedestrian opening (second gate leaf opens fully) or partial (second gate leaf opens partially depending on the time set on "Partial opening" from the Adjust Times menu).

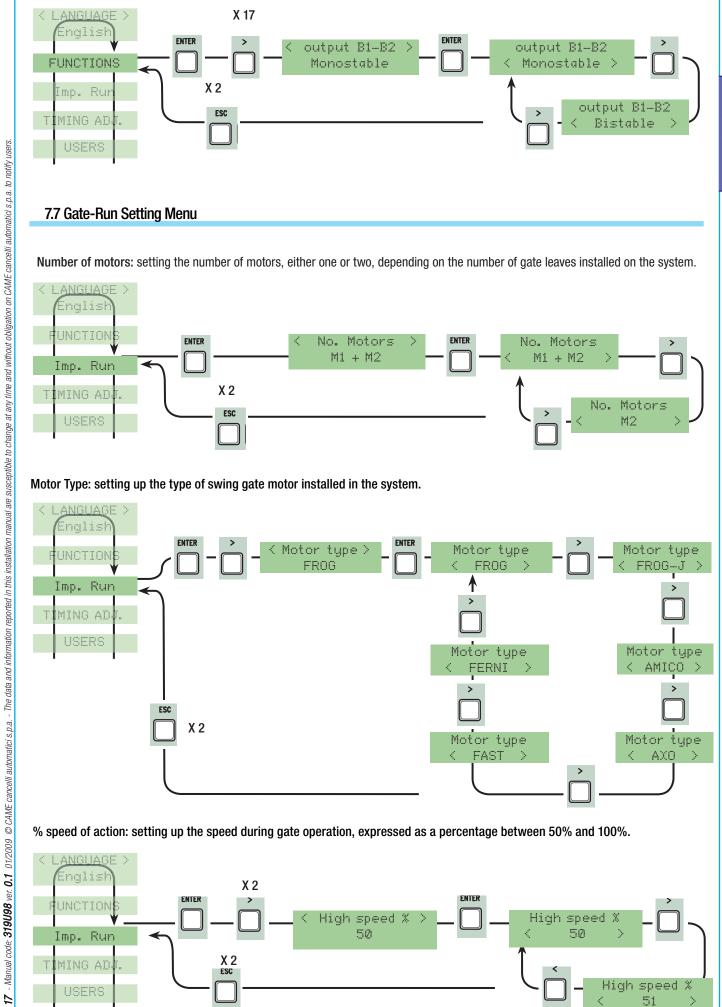


Lamp E: setting up the flashing light or cycle lamp connected on 10-E:

- cycle: outdoor lamp, which can be positioned at leisure, for better illumination in the parking/driveway area. It stays on from the moment the gate leaf begins to open, until it is fully closed (including automatic closing time). In case the automatic closing function is not inserted, it stays on only during gate movement.
- flashing light: signals the gate opening or closing movement.

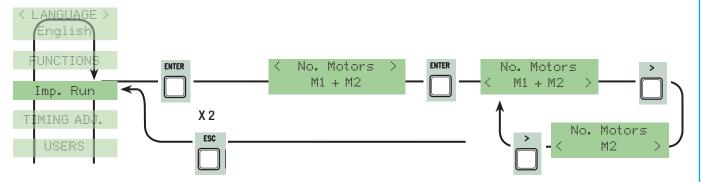


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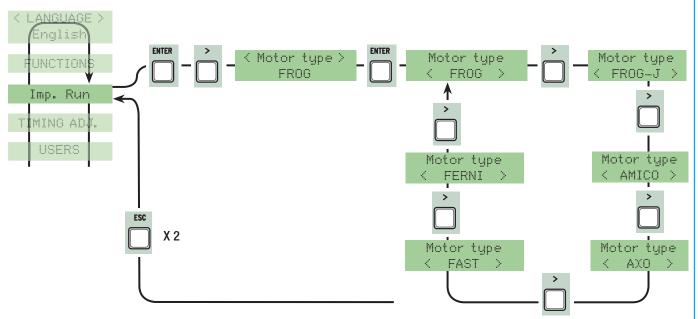


7.7 Gate-Run Setting Menu

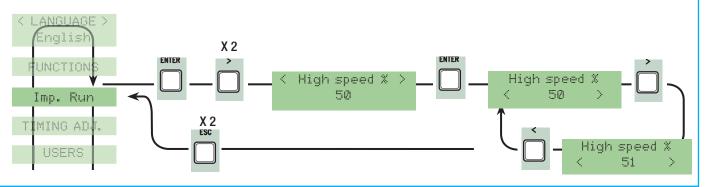
Number of motors: setting the number of motors, either one or two, depending on the number of gate leaves installed on the system.



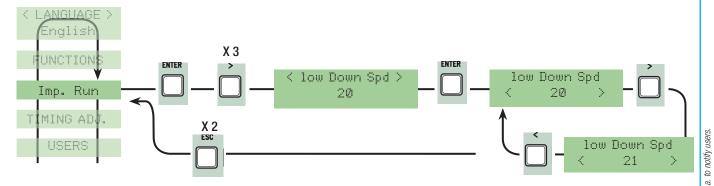
Motor Type: setting up the type of swing gate motor installed in the system.



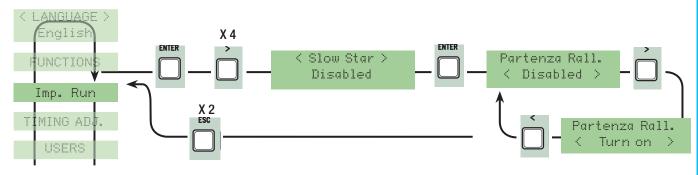
% speed of action: setting up the speed during gate operation, expressed as a percentage between 50% and 100%.



% speed of deceleration: setting up the deceleration speed, expressed as a percentage between 50% and 100%.



Delayed start: After an open or close command, the gate leaves start at a slow speed for a few seconds.

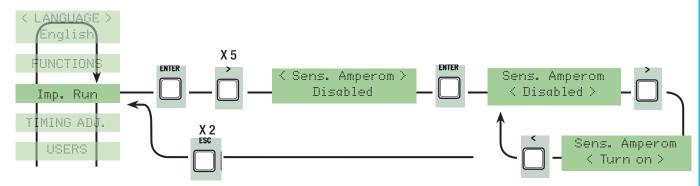


Amperometric sensitivity: the level of gearmotor sensitivity in the face of obstacles during operation.

When the amperometric sensitivity is on, and an obstacle is engaged, depending on how the configuration, the gearmotor works in the following ways:

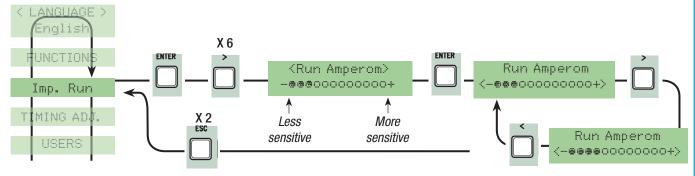
- timed endpoint: it stops while performing a gate run;
- end point: it inverts direction of travel during operation;
- decelerations: it inverts direction of travel during operation, while during the deceleration phase it stops;
- Fcap-RallCh.: it inverts direction of travel during operation, while during the deceleration phase it only stops when on a closing run. When the amperometric sensitivity is off, and an obstacle is engaged, the gearmotor stops when the maximum current threshold is exceeded (i.e. overload).

N.B.: this function appears only if the "encoder" function is not selected in the FUNCTIONS menu.

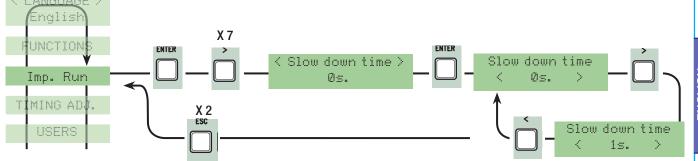


Gate run amperometrics: setting the gearmotor sensitivity in the presence of obstacles.

N.B.: this function only appears if the amperometric sensitivity is selected.



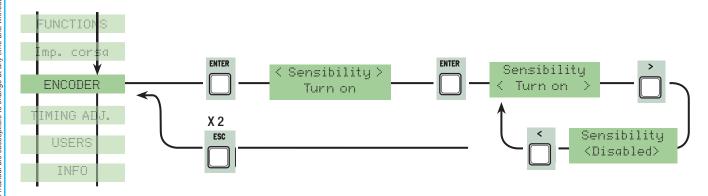
18 - Manual code: 319U98 ver. 0.1 01/2009 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users. Pag. Deceleration time: gate leaf deceleration time before each endpoint. The time can be set anywhere between 0" to 30". N.B.: this function only appears if the decelerations and Fcap-RallCh. are selected.



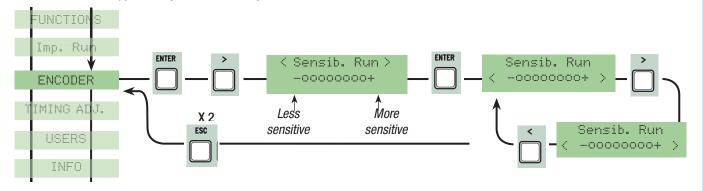
7.7 Encoder Menu (the ENCODER menu, appears only if selected from the "Config." function in the FUNCTIONS menu.)

N.B.: before setting the functions in the encoder menu, run the gearmotor checks to verify the proper turning direction.

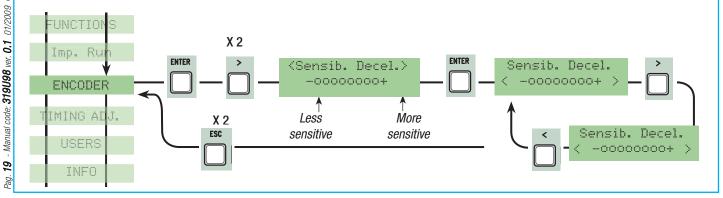
Sensitivity: the obstacle detection function is activated during gate operation and deceleration.



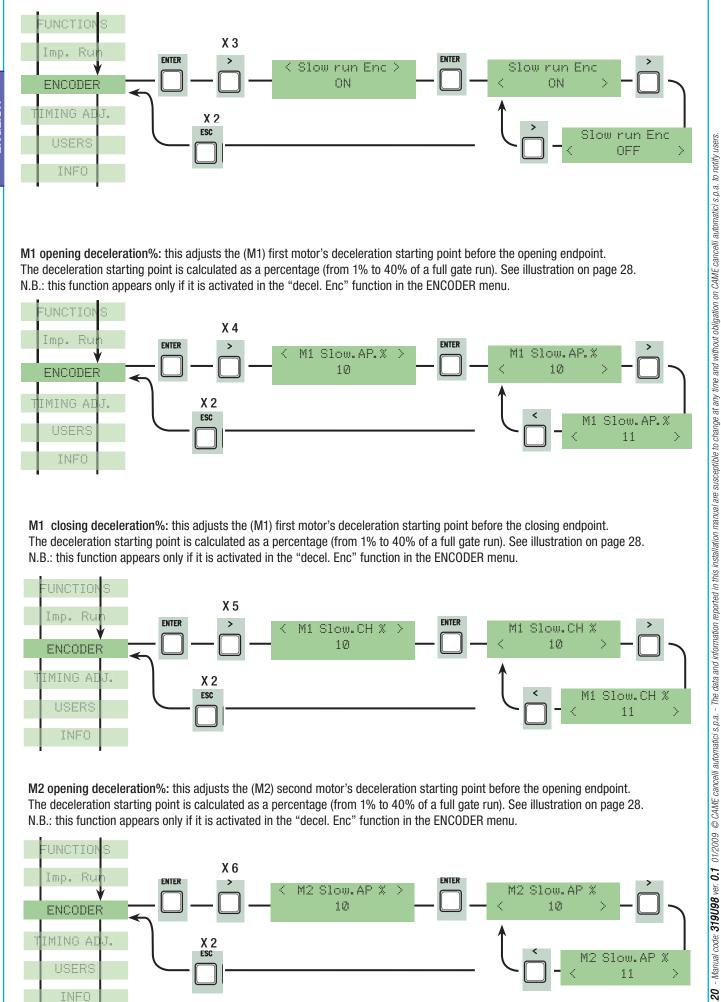
Gate operation sensitivity: this adjusts the obstacle detection sensitivity during opening and closing gate operation. N.B.: this function appears only if the "sensitivity" function is activated in the ENCODER menu.



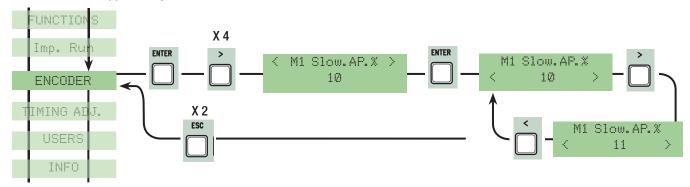
Deceleration sensitivity: it adjusts the obstacle detection sensitivity during opening and closing gate deceleration. N.B.: this function appears only if the "sensitivity" function is activated in the ENCODER menu.



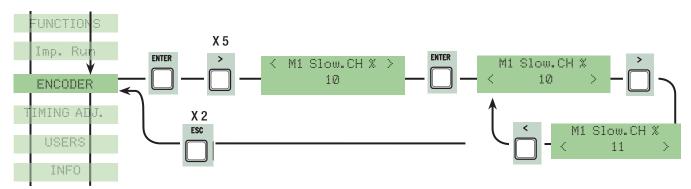
Encoder Deceleration: this activates the opening and closing deceleration starting points.



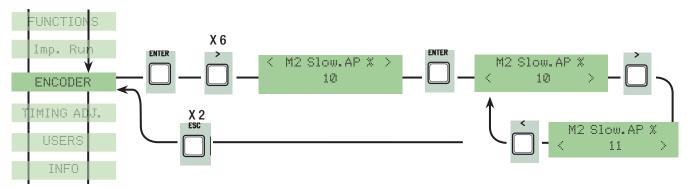
M1 opening deceleration%: this adjusts the (M1) first motor's deceleration starting point before the opening endpoint. The deceleration starting point is calculated as a percentage (from 1% to 40% of a full gate run). See illustration on page 28. N.B.: this function appears only if it is activated in the "decel. Enc" function in the ENCODER menu.



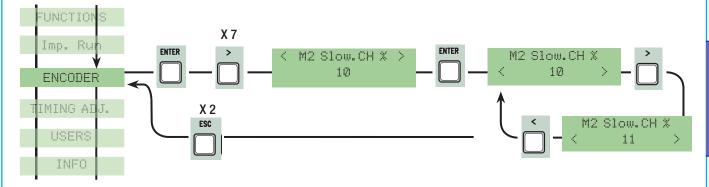
M1 closing deceleration%: this adjusts the (M1) first motor's deceleration starting point before the closing endpoint. The deceleration starting point is calculated as a percentage (from 1% to 40% of a full gate run). See illustration on page 28. N.B.: this function appears only if it is activated in the "decel. Enc" function in the ENCODER menu.



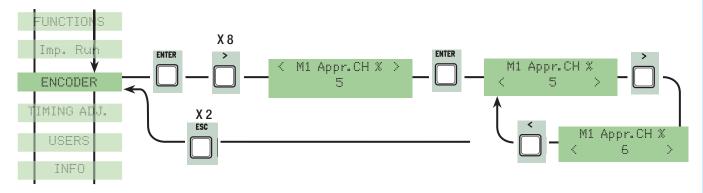
M2 opening deceleration%: this adjusts the (M2) second motor's deceleration starting point before the opening endpoint. The deceleration starting point is calculated as a percentage (from 1% to 40% of a full gate run). See illustration on page 28. N.B.: this function appears only if it is activated in the "decel. Enc" function in the ENCODER menu.



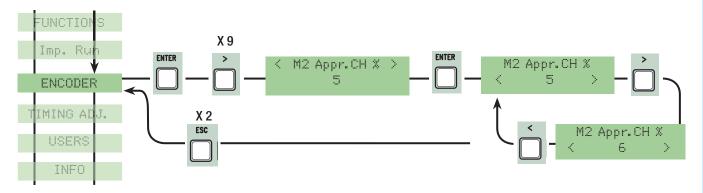
M2 closing deceleration %: this adjusts the (M2) second motor's deceleration starting point before the closing endpoint. The deceleration starting point is calculated as a percentage (from 1% to 40% of a full gate run). See illustration on page 28. N.B.: this function appears only if it is activated in the "decel. Enc" function in the ENCODER menu.



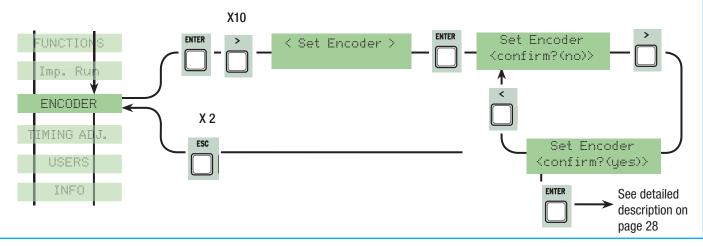
M1 closing acceleration %: this adjusts the (M1) first motor's percentage rate of approach to the final closing and opening points before reaching the opening and closing endpoints. The percentage rate of approach to (goes from 1% to 15% of the full gate run). See illustration on page 28.



M2 closing acceleration %: this adjusts the (M2) second motor's percentage rate of approach to the final closing and opening points before reaching the opening and closing endpoints. The percentage rate of approach to (goes from 1% to 15% of the full gate run). See illustration on page 28.



Gate run calibration: calibrates the gate's opening and closing runs and decelerations.

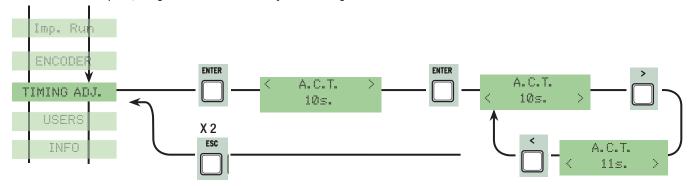


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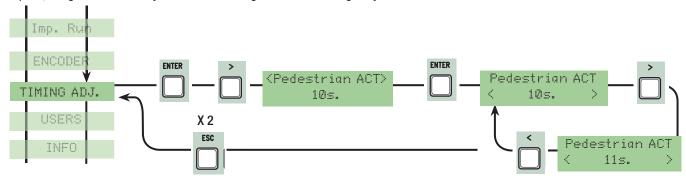
7.8 Time setting menu

Automatic closing: to set the waiting time when gate is in the open position.

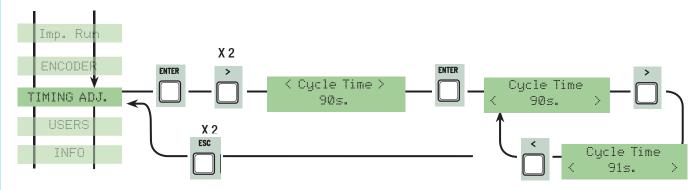
Once this time is elapsed, the gate closes automatically. The waiting time can be set to between 0" and 300".



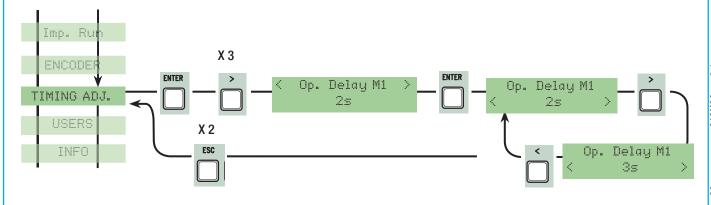
Automatic Pedestrian Closing: waiting time of the (M2) second gate leaf when in the open position. Once this time interval has elapsed, the gate automatically closes. The waiting time interval can go anywhere from 0" to 300".



Cycle time: the working time of the motor during opening or closing phases is anywhere from 10" to 150".

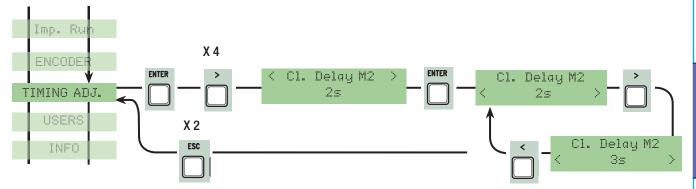


M1 delayed opening: the waiting time of the (M1) first gate lead, unlike the (M2) second one, after each opening command. The waiting time can be set to between 0" and 10".

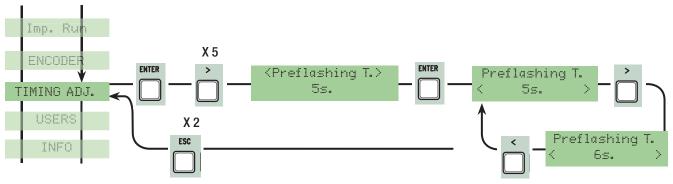


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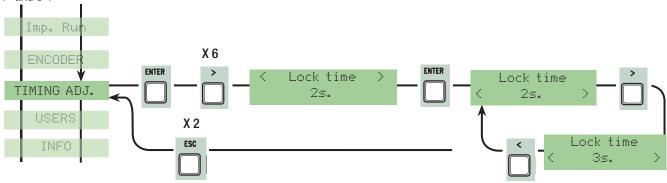
M2 delayed closing: the waiting time of the (M2) second gate leaf, unlike the (M1) first one, after each closing command. the waiting time can be set to between 0" and 60".



Pre-flashing time: after an opening or closing command is given, the flasher connected to "W-E), flashes for between 1" and 60", before the gate begins to move.



Lock time: the time required for releasing the electro-lock after each opening command. The time of operation can be set to between 1" and 5".



Ram hit time: the gearmotor's thrust time when fully closing after each opening command. The thrust time can be set to between 1" and 10".

```
Imp. Run

ENCODER

TIMING ADJ.

USERS

X2

INFO

Ram hit time

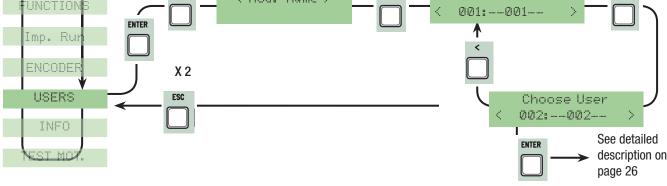
Zs.

Ram hit time

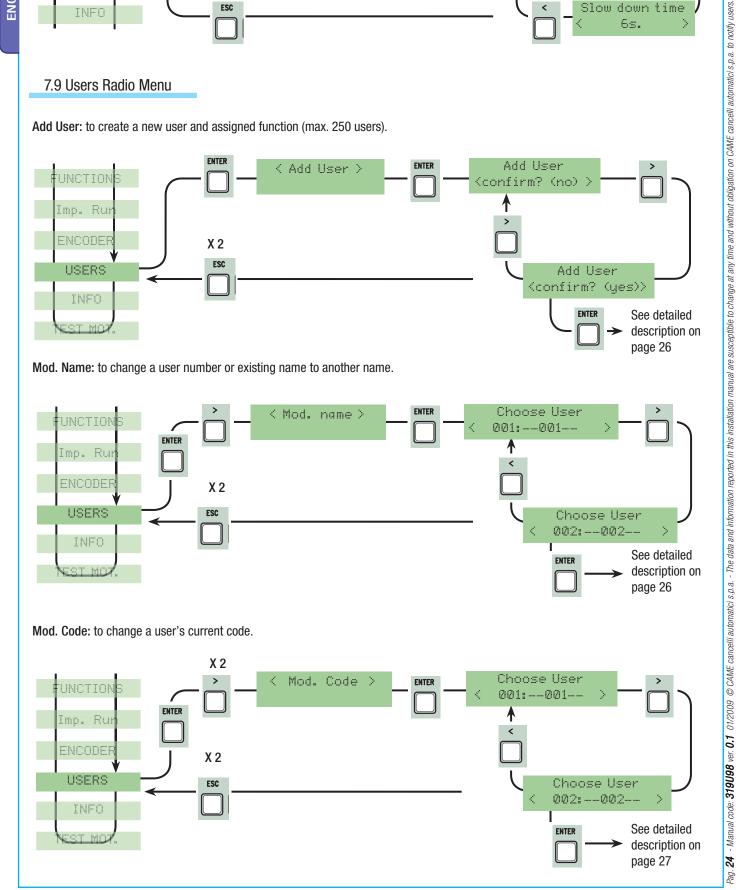
A Ss.
```

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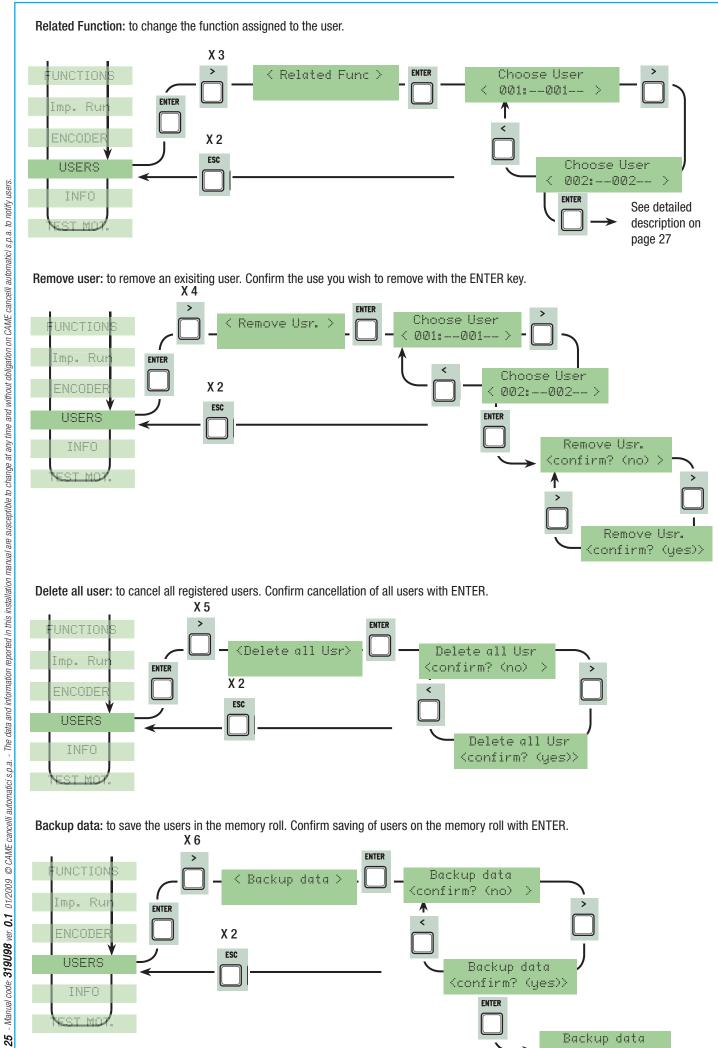
Slow down time: the gate leaf's deceleration time before every endpoint. The time can be set to between 0" and 30". N.B.: this function only appears if the decelerations are selected. Imp. Rui X 8 ENTER < Slow down time > Slow down time 5s. 5s. TIMING ADJ. X 2 ESC Slow down time INFO 6s. 7.9 Users Radio Menu Add User: to create a new user and assigned function (max. 250 users). Add User ENTER < Add User > UNCTION <confirm? (no)</pre> Imp. Ru X 2 ESC USERS Add User <confirm? (yes)> INFO **ENTER** See detailed description on page 26 Mod. Name: to change a user number or existing name to another name. Choose User < Mod. name > JNCTION 001: -- 001-ENTER Imp. Ru ENCODE X 2 USERS Choose User 002:--002-See detailed **ENTER** description on page 26



Mod. Code: to change a user's current code.

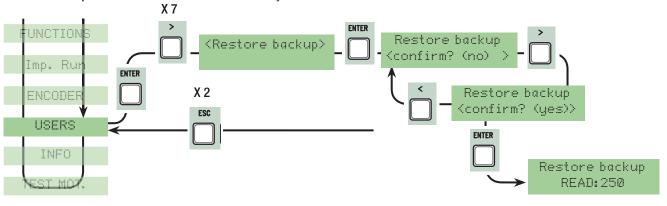


WRITE: 250



Pag.

Restore backup: to load the data saved on the memory roll onto card.

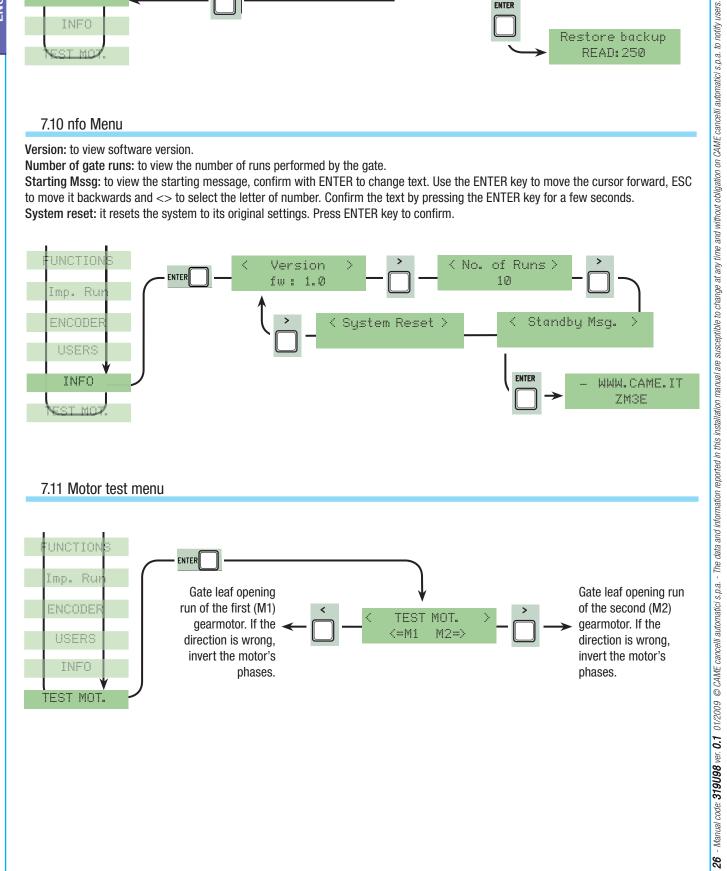


7.10 nfo Menu

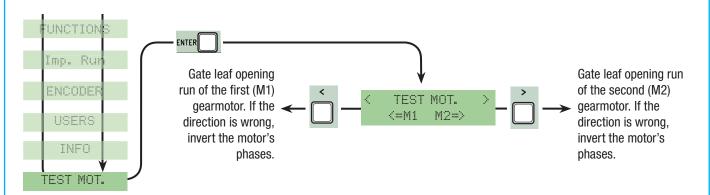
Version: to view software version.

Number of gate runs: to view the number of runs performed by the gate.

Starting Mssg: to view the starting message, confirm with ENTER to change text. Use the ENTER key to move the cursor forward, ESC to move it backwards and <> to select the letter of number. Confirm the text by pressing the ENTER key for a few seconds. **System reset**: it resets the system to its original settings. Press ENTER key to confirm.

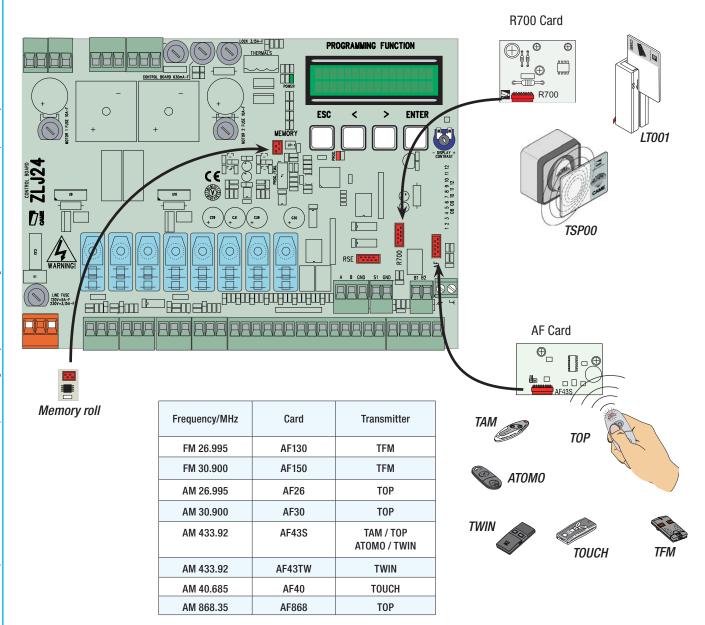


7.11 Motor test menu

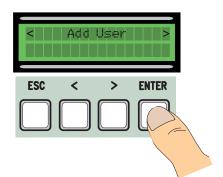


7.12 Decoding card

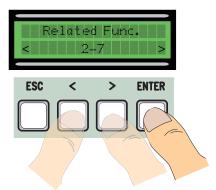
Connect the required (R700, AF43S cards) to insert, change, remove and command the operator via transmitter, card or transponder. Insert the memory roll to save and load all setting including users registered by another card.



1) From the Users menu, select "Add User". Press ENTER to confirm.



3) Choose which function to assign to the user....



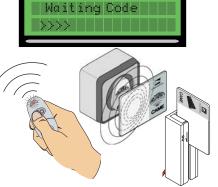
5) ... once the code is inputted, the user name will come up showing the type of command that was memorised...



2) Select " confirm (yes)" and press ENTER key to confirm.



4) will ask to input a code. Send the code with the radio-command button or slide-through card or transponder.

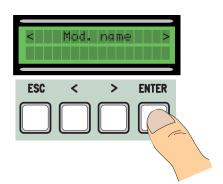


... or if the code is already inputted, "Existing Code" will appear.



7.14 Changing users

1) From the Users menu, choose "Mod. name". Press ENTER to confirm.



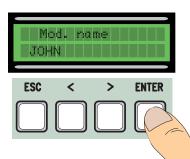
3) Use the ENTER key to move the cursor forward, ESC to move it backwards and < > to select the letter or number.



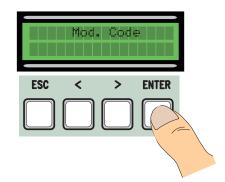
2) Choose the user number or name you wish to change the text of and press ENTER to confirm.



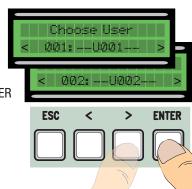
4) Confirm the text by pressing the ENTER key for a few seconds.



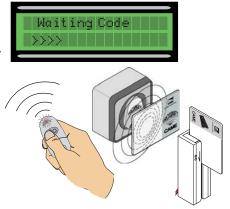
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2) Choose the user name for which you wish to change the code and press ENTER to confirm.



3) you will be asked to input a code. Send the code using the transmitter button or the slide - through card or the transponder.



4) .. once the code is inputted, the user name will come up showing the type of command that was memorised...

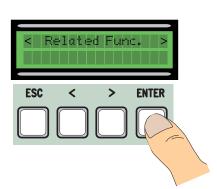


5) Select " confirm (yes)" and press ENTER key to confirm.

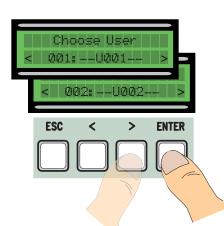


7.16 Function assigned to the user

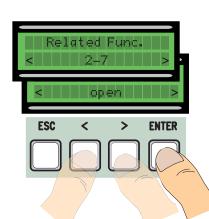
1) From the Users menu, choose "Related Fuc.". Press ENTER to confirm.



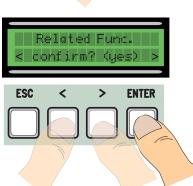
2) Choose the user name fo which you wish to change the command function and press ENTER to confirm.



3) Choose the new function to assign to the user. Press ENTER to confirm.



4) Choose "confirm (yes)" and press ENTER to confirm.



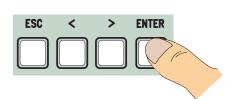
29 - Manual code; 319U98 ver. 0,1 01/2009 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users. Pag.

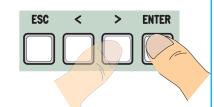
7.17 Gate run calibration

N.B. before calibrating the gate run, check that the manoeuvring area is free of any obstacles and check the proper direction of rotation of the gearmotors. (para. 7.11)

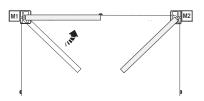
1) From the Encoder menu, select "Set Encoder". Press ENTER to confirm.

2) Select "confirm (yes) and press ENTER to confirm.

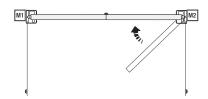




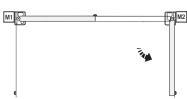
3) the gate leaf of the first motor will perform a closing run until fully closed.....



4) ...then, the gate leaf of the second motor will perform the same manoeuvre...



5) ...then, the gate leaf of the second motor, will perform and opening run until fully open...



6) ...after which, the gate leaf of the first motor will perform the same manoeuvre...



7) When the procedure is finished, the display will show "Set Encoder ok" for a few seconds.

7.18 Error messages

- -"encoder ERROR": check proper connections or functionality of the device and possibly even the motor's torque"
- -"safety d. test ERROR": malfunctioning of safety devices, check proper functioning of connections and functionalities;
- -"end stop ERROR": check proper connections on end point connections or functionality of devices;
- -"cycle time ERROR": check the working time settings, the set time may be insufficient to complete the duty cycle.
- Safety STOP, C1, C3, C4": check proper functioning of connections and functionalities of devices.

M2

D

M

7.19 Illustration depicting the areas and points of deceleration and final opening and closing approaches per encoder device.

В

C

E

Note: the areas and points of deceleration and final opening and closing approaches are tested according to the parameters set forth by Technical Norms EN12445 and EN12453 regarding compatibility of impact forces generated by moving gate leaves.

- A = Area of movement at normal speed
- B^* = Run zone at decelerated speed
- C = Encoder intervention zone with movement inversion
- D= Encoder intervention zone with movement stop
- E = Opening deceleration beginning point (M1 Open Deceler %)
- F = Closing deceleration beginning point (M1 Close Deceler %)
- G = Opening deceleration beginning point (M2 Open Deceler %)
- H = Closing deceleration beginning point (M2 Close Deceler %)
- I^{**} = Closing and opening final phase beginning point (M1 Final Close %)
- L** = Closing and opening final phase beginning point (M2 Final Close %)

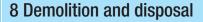
M= endstops

to notify

- * Minimum 600 mm from the Final full stop.
- *Set the function's final phase % "M1 Final Close" for the first (M1) mtors and "M2 Final Close" for the second (M2) motor from the "ENCODER" menu so as to obtain a distance of between 1 and 50 mm maximum from the final full stop.

В

D



In its premises, CAME CANCELLI AUTOMATICI S.p.A. implements an Environmental Management System certified in compliance with the UNI EN ISO 14001 standard to ensure environmental protection.

Please continue our efforts to protect the environment—which CAME considers one of the cardinal elements in the development of its operational and market strategies—simply by observing brief recommendations as regards disposal:

DISPOSAL OF PACKAGING

The packaging components (cardboard, plastic, etc.) are all classifiable as solid urban waste products and may be disposed of easily, keeping in mind recycling possibilities.

Prior to disposal, it is always advisable to check specific regulations in force in the place of installation.

PLEASE DISPOSE OF PROPERLY!

PRODUCT DISPOSAL

Our products are made up of various types of materials. Most of them (aluminium, plastics, iron, electrical wires, etc.) may be disposed of in normal garbage collection bins and can be recycled by disposing of in specific recyclable material collection bins and disposal in authorized centres. Other components (electrical boards, remote control batteries, etc.), however, may contain polluting substances. They should therefore be removed and given to qualified service companies for proper disposal.

Prior to disposal, it is always advisable to check specific regulations in force in the place of disposal.

PLEASE DISPOSE OF PROPERLY!

9 Manufacturer's warranty

CE

MANUFACTURER'S DECLARATION OF CONFORMITY

Pursuant to the Low Voltage Directive 2006/95/E0



CAME Cancelli Automatici S.p.A. via Martiri della Libertà, 15 31030 Dosson di Casier - Treviso - ITALY tel (+39) 0422 4940 - fax (+39) 0422 4941 internet: www.came.it - e-mail: info@came.it

Declares under its own responsibility that the equipments for automatic garage doors and gates listed below:

comply with the National Law related to the following European Directives and to the applicable parts of the following Standards.

2006/95/FC 2004/108/EC LOW VOLTAGE DIRECTIVE

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

EN 60335-1

31

EN 61000-6-2 EN 61000-6-3

В

Α

G

В

C

IMPORTANT WARNING! Do not use the equipment specified here above, before completing the full installation
In full compliance with the Machinery Directive 98/37/EC

MANGING DIRECTOR

Swiebelan frum

Reference code to request a true copy of the original: DDF L EN Z002f

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Paf - CAME Estrada Nacional 249-4 Ao Km 4,35 Cabra Figa - Trajouce 2635-047 Rio De Mouro - PORTUGAL	CAME Polska Sp.Zo.o UI. Ordona 1 01-237 Warszawa - POLAND (+48) 22 8365076 (+48) 22 8363296
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