

CONTROL BOARD FOR AUTOMATIONS 24 V

series **Z**



INSTALLATION MANUAL

ZL80 - ZL80C

"IMPORTANT SAFETY INSTRUCTIONS WHEN INSTALLING"

WARNING: IMPROPER INSTALLATION MAY LEAD TO SERIOUS DAMAGE, FOLLOW ALL INSTRUCTIONS WHEN INSTALLING" "THIS MANUAL IS EXCLUSIVELY INTENDED FOR PROFESSIONAL INSTALLERS OR OTHER COMPETENT PERSONS"

1 Legend of symbols



This symbols stands for parts that must be read very carefully.

This symbols stands for parts that have to do with safety.

This symbols stands for what needs to be notified to the client.

2 Intended use and limitations of use

2.1 Intended use

The ZL80_ZL80C control boards (The ZL80C: featuring incorporated buttons and safety stop) have been specifically designed for C-BXE24 automation, to drive sectional, sliding and folding doors.

2.2 limitations of use

- Respect cable distances and diameters as shown in the table in chapter 5.4
- Set up the control board in areas that are free of accidental impacts.
- For theZL80C version positions the control board at a height of 1.5 m from the ground.

3 Reference standards

This product complies with the following standards: EN 12978, UNI EN 954-1, CEI EN 60335-1, UNI EN 12453.

4 Description

4.1 230V a.c. control board

24V d.c. powered control board for gear motors; 50÷60 Hz frequency. Designed and manufactured entirely by CAME Cancelli Automatici S.p.A. Container fitted with air recycling intake. Guaranteed 24 months unless tampered with.

4.2 Technical specifications

Control board Power: 230V - 50÷60 Hz Maximum output: 360 W Draw at rest: 55 mA Maximum output of 24V accessories: 36 W

Protection level: IP54 Insulation class: II Material: ABS

Operatine temperature





5 Installation

5.1 Preliminary checks



English

Prior to installing the automation device do the following:

• Make sure that the control board is mounted in a sturdy manner and that it is protected from possible impacts. It must be mounted using screws, anchor-plugs, etc. that are suitable for the type of surface;

• See to having a proper omnipolar disconnection device, with more than 3mm distances between contacts, and independent (sectioned off) power;

• (Definitional methods) where the sure that any connections inside of the container (done for continuance of the protective circuit) be provided with additional insulation as compared the other inside conducting parts;

• Install proper tubes and conduits to pull cables and wiring through making sure that these are protected from possible mechanical damage.

5.2 Tools and materials

Make sure to have all the tools and materials required to for installation under maximum safety conditions and in compliance with current standards. The figure shows some of the equipment needed by the installer.



5.3 Dimensions, centre spacing and securing holes.

It is best to use 6 mm max diameter rounded-top cross-head screws .





5.4 Spessori minimi e tipo cavi

Connections	Cable type	Cable length	Cable length	Cable length
		1<10 M	10<20 M	20<30 M
Power supply line, 230/400V 3F	FROR CEI 20-22 CEI EN 50267-2-1	4G 1,5mm²	4G 2,5mm²	4G 4mm²
Power supply line, 230V 2F		3G 1,5mm²	3G 2,5mm²	3G 4mm²
Motors, 230/400V 2F/3F		4G 1mm ²	4G 1,5mm²	4G 2,5mm²
Motor, 24V		2 x 1mm²	2 x 1,5mm²	2 x 2,5mm²
Flashing lamp 230V		2 x 0,5mm²	2 x 1mm²	2 x 1,5mm²
Flashing lamp 24V		2 x 0,5mm²	2 x 1mm²	2 x 1,5mm²
Cycle/courtesy lights 230V		3G 0,5mm²	3G 1mm²	3G 1,5mm²
Power supply accessories 24V		2 x 0,5mm²	2 x 0,5mm²	2 x 1mm ²
Warning light 24V		2 x 0,5mm²	2 x 0,5mm²	2 x 1mm ²
Output 24V "in motion"		2 x 0,5mm²	2 x 0,5mm²	2 x 1mm ²
Safety contacts		2 x 0,5mm²	2 x 0,5mm²	2 x 0,5mm²
N.O./N.C. control buttons		2 x 0,5mm²	2 x 0,5mm²	2 x 0,5mm²
End stop		3 x 0,5mm²	3 x 1mm²	3 x 1,5mm²
2nd motor control		1 x 0,5mm²	1 x 0,5mm²	1 x 1mm ²
Antenna connection (max 50m)			RG58	
Encoder connection (max 30m)]	Insu	lated cable 2402C	22AWG

PLEASE NOTE: If the cable length differs from that specified in the table, then you must determine the cable diameter on the basis of the actual power draw from the connected devices and depending on the standards specified in CEI EN 60204-1. For connections that require several, sequential loads on the same line, the sizes provided on the table must be reconsidered by taking into account the actual distances and power draw. When connecting products that are not included in this manual then follow the indications specified in the documentation included with said products.



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5.5 Electrical connections







(2-CY) DOC and DIR photocells connection





TEST DOC and DIR photocells working



(S1-GND) TSP00 (transponder) LT001 (slide-through card) sensor connection Please note: for the board to recognise the sensors, the apposite (R700) decoder board needs to be connected.



6 Programming

6.1 Description of display commands



Please note: when the menu is active the system cannot be used.

Tutti i dati e le informazioni guì contenute sono da ritenersi suscettibili di modifica in gualsiasi momento e a nostro giudizio



Tutti i dati e le informazioni qui contenute sono da ritenersi suscettibili di modifica in qualsiasi momento e a nostro giudizio







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6.5 Travel Run calibration

 1
 From the calibration menu, select

 Calibrate Travel Run. Press ENTER to

 confirm.

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using (<>), until the leaf is completely closed.



7 Press ENTER to confirm.



10 Use the (<>) to fully open the gate



¹³ – Move the wheel towards the + side or – side depending on what the display requests.

Move 6 notches in direction (+) Perform a complete opening run using (<>), until the complete opening occurs.



5 Press ENTER to confirm.



8 Use the (<>) to take the gate leaf to its closing point





11 Then press ENTER to confirm.









6 6 – Set the gate leaf in motion for at least 3"



9 Then press ENTER to confirm.





12 If the calibration (a) has not been done properly or, (b) has not been completed, one of the following warning messages will appear:

- (a) reprogram...thus start over from point 1.:

- (b) reposition the encoder...proceed with point 13.

14 -Press ENTER to confirm and start over form point 1



6.6 Decoding board

To control the board using remote controls or cards, connect the AF radio board chosen for the corresponding remote control, and the R 700 board for the TSP00/LT001 proximity sensors.

Please note: users cannot be added without the proper decoding board (max. number of users is 250).

The AF and R700 boards must be inserted with the power source disconnected

₩₩₩₩ ₩₩₩₩ ₩₩₩₩ ₩₩₩₩ ₩₩₩₩ ₩₩₩ ₩₩₩	Frequency/MHz	Board	Trasmitter
	FM 26.995	AF130	TFM
	FM 30.900	AF150	TFM
	AM 26.995	AF26	ТОР
Φ. Π.Φ	AM 30.900	AF30	ТОР
AF43S	AM 433.92	AF43S / AF43SM	TAM / TOP
	AM 433.92	AF43SR	ATOMO
\sum	AM 40.685	AF40	тоисн

6.7 Adding users

From the Radio/Users menu, select New User. Press ENTER to confirm



³...a code will be required which may inserted with a remote control, a slide-through card or a transponder, depending on the type of sensors installed in the system at hand



[4] In any case a window will appear asking whether we wish to add a new code or not.



² Choose the function associated with the user (User Function or Partial Opening). Press ENTER to confirm...



Once the remote control or card code has been added, the word Memorised will appear on the screen (if the

code has yet to be added), or the word On file (if the code has already been added).



By selecting NO the user adding procedure will be terminated. By selecting YES the procedure reopens at point 3.



From the Radio/Users menu, select User Changes, press ENTER to confirme.

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2 Select the user which requires a change in function (a) by using the <> or (b), by pressing the relative transmitter button, and (c) pulling the card through the sensor. Press ENTER to confirm.



Write the desired message: the maximum number of characters is 32 (16 per line). Once the message is written keep the ENTER key pressed for at least 3"



6.10 Error message

"STOP Contact Open": Check proper connection or efficiency of the device "Service Check!!!" Malfunctions are present in the safety devices. "Encoder Out of Order: check the proper connection or efficiency of the device. "CX-CY Contact Open": check the proper connection or efficiency of the device.

7 Mounting the container cover



Enclosed with the technical documentation (the original copy of the Declaration is available on request)

The representatives of

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

Hereby declare, under their own respons ibility, that the product/s called ...

ZL80 - ZL80C

comply with the Italian National Legal Provisions that transpose the following Community Directives (where specifically applicable)

MACHINERY DIRECTIVE 98/37/CE LOW VOLTAGE DIRECTIVE 73/23/EEC - 93/68/EEC LECTROMAGNETIC COMPATIBILITY DIRECTIVE 89/336/EEC - 92/31/EEC R&TTE DIRECTIVE 1999/5/CE

Date of the present declaration 07/12/2001

Also, they furthermore represent and warrant that the product/s that are the subject of the present Declaration are manufactured in the respect of the following main harmonized provisions.

EN 292 part 1 and 2	MACHINERY SAFETY.
EN 12453	INDUSTRIAL, COMMERCIAL AND OTHER CLOSING MECHANISMS
EN 12445	INDUSTRIAL, COMMERCIAL AND OTHER CLOSING MECHANISMS
EN 12978	SAFETY DEVICES FOR POWER OPERATED DOORS AND GATES
EN 60335 - 1	SAFETY IN APPARATUSES FOR HOME USE.
EN 60204 - 1	MACHINERY SAFETY.
EN 61000 - 6 - 2	ELECTROMAGNETIC COMPATIBILITY.
EN 61000 - 4 - 4	ELECTROMAGNETIC COMPATIBILITY.
EN 61000 - 4 - 5	ELECTROMAGNETIC COMPATIBILITY.

IMPORTANT CAUTION

It is forbidden to market/use product/s that are the subject of this declaration before completing and/or incorporating them in total compliance with the provisions of Machinery Directive 98/37/CE

Signatures of the Representatives

TECHNICAL MANAGER Mr. Gianni Michielar

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