

CAME.COM

Sliding gate operator BX series

FA01123-EN

CE



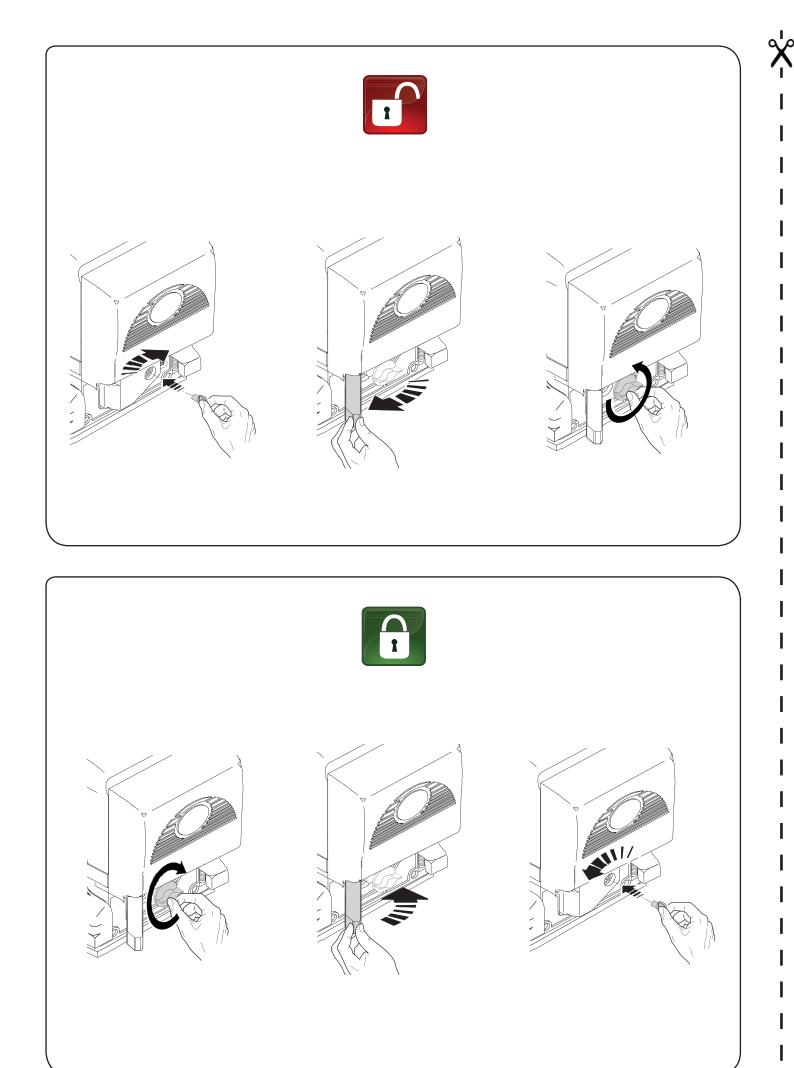




BX-74 / BX-78

INSTALLATION MANUAL

EN English



I

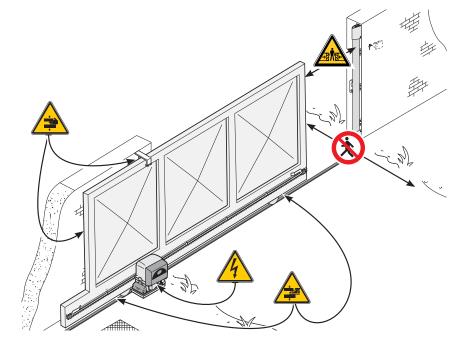
A WARNING! Important safety instructions. Follow all of these instructions. Improper installation can cause serious bodily harm. Before continuing, also read the general precautions for users.

This product must only be used for its specifically intended purpose. Any other use may be hazardous. cameS S.p.a. is not liable for any damage caused by improper, WRONGFUL AND UNREASONABLE USE. • THIS MANUAL'S PRODUCT IS DEFINED BY MACHINERY DIRECTIVE 2006/42/CE AS "PARTLY-COMPLETED MACHINERY". PARTLY-COMPLETED MACHINERY IS A SET THAT ALMOST CONSTITUTES A MACHINE, BUT WHICH, ALONE, CANNOT ENSURE A CLEARLY DEFINED APPLICATION. PARTLY-COMPLETED MACHINERY IS ONLY DESTINED TO BE INCORPO-RATED OR ASSEMBLED TO OTHER MACHINERY OR OTHER PARTLY-COMPLETED MACHINERY OR APPARATUSES TO BUILD MACHINERY THAT IS REGULATED BY DIRECTIVE 2006/42/CE. THE FINAL INSTALLATION MUST COMPLY WITH EUROPEAN DIRECTIVE 2006/42/CE AND EUROPEAN REFERENCE STANDARDS: EN 13241-1, EN 12453, EN 12445 AND EN 12635 • GIVEN THESE CONSIDERATIONS, ALL PROCEDURES STATED IN THIS MANUAL MUST BE EXCLUSIVELY PERFORMED BY EXPERT, QUALIFIED STAFF • THE MANUFACTURER DECLINES ANY LIABILITY FOR USING NON-ORIGINAL PRODUCTS; WHICH WOULD RESULT IN WARRANTY LOSS • KEEP THIS MANUAL INSIDE THE TECHNICAL FOLDER ALONG WITH THE MANUALS OF ALL THE OTHER DEVICES USED FOR YOUR AUTOMATION SYSTEM • CHECK THAT THE OPERATOR'S SPECIFIED TEMPERATURE RANGE SUITS THE LOCATIONS WHERE IT WILL BE INSTALLED • LAYING THE CABLES, INSTALLATION AND TESTING MUST FOLLOW STATE-OF-THE-ART PROCEDURES AS DICTATED BY REGULATIONS • IF THE POWER-SUPPLY CABLE IS DAMAGED, REPLACE IT IMMEDIATELY THROUGH THE MANUFACTURER OR an authorized technical assistance center, or qualified staff, to prevent any risk 🗢 Make sure the mains power supply is disconnected during all installation procedures • The operator cannot be used with gates fitted with pedestrian doors, unless its operation can be activated only when the pedestrian door is in safety position • Make SURE THAT PEOPLE ARE NOT ENTRAPPED BETWEEN THE GATE'S MOVING AND FIXED PARTS DUE TO THE GATE'S MOVEMENT • BEFORE INSTALLING THE OPERATOR, CHECK THAT THE GATE IS IN PROPER MECHANICAL CONDITION, THAT IT IS PROPERLY BALANCED AND THAT IT PROPERLY CLOSES: IF ANY OF THESE CONDITIONS ARE NOT MET, DO NOT CONTINUE BEFORE HAVING MET ALL safety requirements • Make sure the gate is stable and the carriage function properly and are well-greased, and that it opens and closes smoothly • The guide rail MUST BE WELL-FASTENED TO THE GROUND, ENTIRELY ABOVE THE SURFACE AND FREE OF ANY IMPEDIMENTS TO THE GATE'S MOVEMENT. • THE RAILS OF THE UPPER GUIDE MUST NOT CAUSE ANY FRICTION • MAKE SURE THAT OPENING AND CLOSING LIMITERS ARE FITTED • MAKE SURE THE OPERATOR IS INSTALLED ONTO A STURDY SURFACE THAT IS PROTECTED FROM ANY COLLISIONS • Make sure that mechanical stops are already installed. • If the operator is installed lower than 2.5 from the ground or from any other access level, fit protections AND SIGNS TO PREVENT HAZARDOUS SITUATIONS • DO NOT FIT THE OPERATOR UPSIDE DOWN OR ONTO ELEMENTS THAT COULD YIELD UNDER ITS WEIGHT IF NECESSARY, ADD REINFORCEMENTS TO THE FASTENING POINTS • DO NOT INSTALL DOOR OR GATE LEAVES ON TILTED SURFACES • CHECK THAT NO LAWN WATERING DEVICES SPRAY THE OPERATOR WITH WATER FROM THE BOTTOM UP • ANY RESIDUAL RISKS MUST BE INDICATED CLEARLY WITH PROPER SIGNAGE AFFIXED IN VISIBLE AREAS. ALL OF WHICH MUST BE EXPLAINED TO END USERS. • SUITABLY SECTION OFF AND DEMARCATE THE ENTIRE INSTALLATION SITE TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE AREA, ESPECIALLY MINORS AND CHILDREN • FIT CAUTIONARY SIGNS, SUCH AS THE GATE PLATE, WHEREVER NEEDED AND IN PLAIN SIGHT • USE PROPER PROTECTIONS TO PREVENT MECHANICAL HAZARDS WHEN PEOPLE ARE LOITERING AROUND THE MACHINERY'S RANGE OF ACTION, FOR EXAMPLE, TO PREVENT FINGER CRUSHING BETWEEN THE RACK AND PINION) • THE ELECTRICAL CABLES MUST RUN THROUGH THE CABLE GLANDS AND MUST NOT TOUCH ANY HEATED PARTS, SUCH as the motor, transformer, and so on) • Make sure you have set up a suitable dual pole cut off device along the power supply that is compliant with the installation RULES. IT SHOULD COMPLETELY CUT OFF THE POWER SUPPLY ACCORDING TO CATEGORY III SURCHARGE CONDITIONS • ALL OPENING CONTROLS MUST BE INSTALLED AT LEAST 1.85 M FROM THE PERIMETER OF THE GATE S WORKING AREA, OR WHERE THEY CANNOT BE REACHED FROM OUTSIDE THE GATE • ALL SWITCHES IN MAINTAINED-ACTION MODE MUST BE POSITIONED SO THAT THE MOVING GATES LEAVES, THE TRANSIT AREAS AND VEHICLE THRU-WAYS ARE COMPLETELY VISIBLE, AND YET THE SWITCHES MUST BE ALSO AWAY FROM ANY MOVING PARTS. • UNLESS THE ACTION IS KEY OPERATED, THE CONTROL DEVICES MUST BE FITTED AT, AT LEAST, 1.5 M FROM THE GROUND AND UNREACHABLE BY ANY UNAUTHORIZED PERSONS. • TO PASS THE COLLISION FORCE TEST USE A SUITABLE SENSITIVE SAFETY-EDGE. INSTALL IT PROPERLY AND ADJUST AS NEEDED. • BEFORE HANDING OVER TO USERS, CHECK THAT THE SYSTEM IS COMPLIANT WITH THE 2006/42/ CE UNIFORMED MACHINERY DIRECTIVE. • MAKE SURE THE SETTINGS ON THE OPERATOR ARE ALL SUITABLE AND THAT ANY SAFETY AND PROTECTION DEVICES, AND ALSO THE MANUAL RELEASE, WORK PROPERLY. • AFFIX A PERMANENT TAG, THAT DESCRIBES HOW TO USE THE MANUAL RELEASE MECHANISM, CLOSE TO THE MECHANISM. • MAKE SURE TO HAND OVER TO THE END USER, ALL OPERATING MANUALS FOR THE PRODUCTS THAT MAKE UP THE FINAL MACHINERY.

- THE NEXT FIGURE SHOWS THE MAIN HAZARD POINTS FOR PEOPLE -



Do not transit through during maneuvering.



This symbol shows which parts to read carefully.

 $\ensuremath{\vartriangle}$ This symbol shows which parts describe safety issues

 $\ensuremath{\operatorname{\sc symbol}}$ This symbol shows which parts to tell users about.

The measurements, unless otherwise stated, are in millimeters.

DESCRIPTION

BX-74 Operator complete with control board, movement control and obstruction detecting device plus mechanical endstops for sliding gates that weigh up to 400 kg.

BX-78 Operator complete with control board, movement control and obstruction detecting device plus mechanical endstops for sliding gates that weigh up to 800 kg.

INTENDED USE

The BX-74 operator is designed to power sliding gates in single homes; whereas the BX-78 is also suitable for apartment blocks.

Any installation and/or use other than that specified in this manual is forbidden.

INTENDED USE

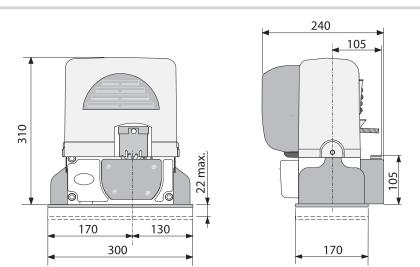
Model	ВХ-74	BX-78
Standard reference* length of the sliding part (m)	2	1
Maximum weight of the sliding part (kg)	400	800
Pinion module	2	1
* For other then standard massurements, see the following graphs		

* For other-than-standard measurements, see the following graphs.

TECHNICAL DATA

Datum	BX-74	BX-78
Protection rating (IP)	44	4
Power supply (V - 50/60 Hz)	230	AC
Input voltage to motor (V - 50/60 Hz)	230	AC
Stand-by consumption (W)	4.	5
Consumption with Green Power (W)	0.	8
Power (W)	520	560
Thrust (N)	300	800
Opening speed (m/min)	10	.5
Operating temperature (°C)	-20 to	+55
Condenser (µF)	12	20
Apparatus class	I	
Motor's heat protection (°C)	15	0
Weight (Kg)	1	ō

DIMENSIONS



DUTY CYCLES

Datum

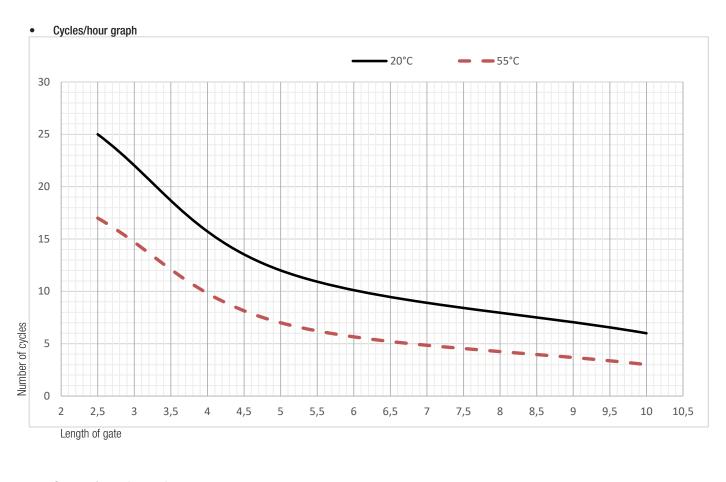
Cycles/hour (no.)

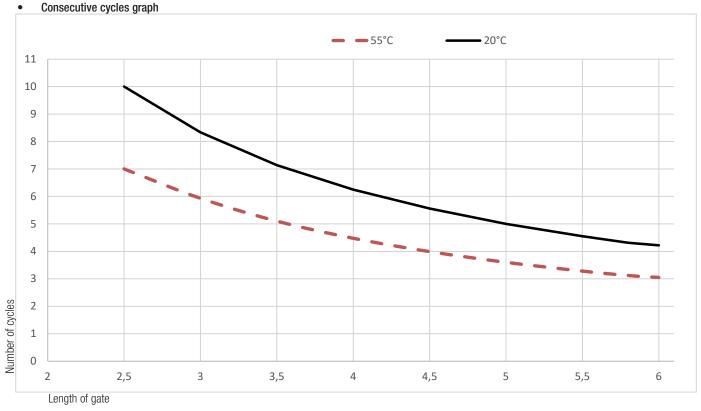
Consecutive cycles (no.)

The cycles calculation is for standard-length gates (see the intended **use)**, **that are professionally** installed, free of any mechanical issues and/or accidental friction points, and measured at 20° C, as stated in EN Standard 60335-2-103. When using other-than-standard measurements, see the graphs below.

BX-74 / BX-78

17 6

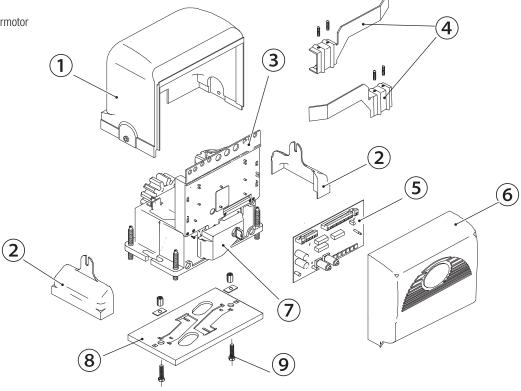




Manual FA01123-EN - 08/2018 - © CAME S.p.A. - The contents of this manual may change, at any time, and without notice. - Original instructions

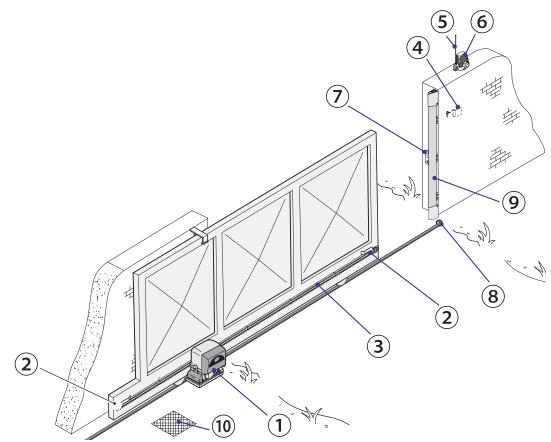
DESCRIPTION OF PARTS

- 1. Upper cover
- 2. Protective case for setting controls
- 3. Control board rack
- 4. Limit-switch tabs
- 5. ZBX7N control board
- 6. Electric panel's front cover
- 7. Access panel for releasing the gearmotor
- 8. Anchoring plate
- 9. Fastening screws



STANDARD INSTALLATION

- 1. Operator
- 2. Limit-switch fins
- 3. Rack
- 4. Key-switch selector
- 5. Antenna
- 6. Flashing light
- 7. Photocells
- 8. Mechanical gate stop
- 9. Sensitive safety-edge
- 10. Junction pit



GENERAL INSTALLATION INDICATIONS

 \triangle Only skilled, qualified staff must install this product.

PRELIMINARY CHECKS

- $\ensuremath{\vartriangle}$ Before beginning the installation, do the following:
- check that the upper slide-guides are friction-free;
- set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage.

TOOLS AND MATERIALS

Make sure you have all the tools and materials you will need for installing in total safety and in compliance with applicable regulations.

CABLE TYPES AND MINIMUM SECTIONS

Connection							Cable	length	
Connection —					< 20 m	20 < 30 m			
Input (1P+N+PE)	voltage	for	230	V	AC	control	board	3G x 1.5 mm ²	3G x 2.5 mm ²
Signaling de	Signaling devices 2 x 0.5 mm ²						5 mm ²		
Command a	Command and control devices 2 x 0.5 mm ²						5 mm ²		
Cofety devices (abstacella)							(TX = 2 x	0.5 mm ²)	
Salety device	Safety devices (photocells)							(RX = 4 x	0.5 mm ²)

When operating at 230 V and outdoors, use H05RN-F-type cables that are 60245 IEC 57 (IEC) compliant; whereas indoors, use H05VV-F-type cables that are 60227 IEC 53 (IEC) compliant. For power supplies up to 48 V, you can use FROR 20-22 II-type cables that comply with EN 50267-2-1 (CEI).

 \square To connect the antenna, use the RG58 (we suggest up to 5 m).

I For paired connection and CRP, use a UTP CAT5-type cable (up to 1,000 m long).

If cable lengths differ from those specified in the table, establish the cable sections depending on the actual power draw of the connected devices and according to the provisions of regulation CEI EN 60204-1.

For multiple, sequential loads along the same line, the dimensions on the table need to be recalculated according to the actual power draw and distances. For connecting products that are not contemplated in this manual, see the literature accompanying said products

INSTALLATION

▲ The following illustrations are mere examples in that the space for fastening the operator and accessories varies depending on the installation area. It is up to the installer to find the most suitable solution.

H

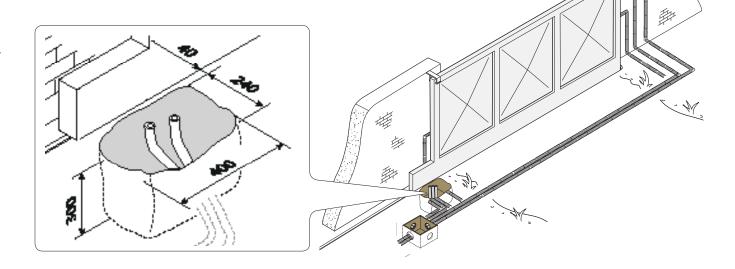
H

Departure of the left.

CORRUGATED TUBE LAYING

Dig a hole for the foundation frame.

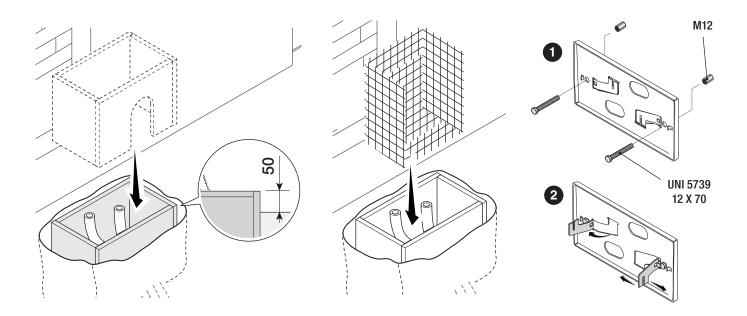
Set up the corrugated tubes needed for making the connections coming out of the junction pit. For connecting the gearmotor we suggest using a \emptyset 40 mm corrugated tube and \emptyset 25 mm tubes for the accessories.



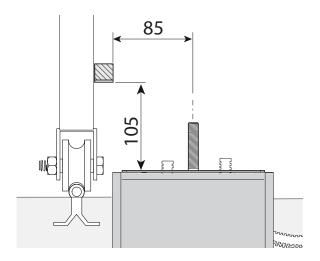
FITTING THE ANCHORING PLATE

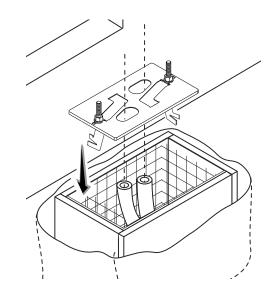
Set up a foundation frame that is larger than the anchoring plate and sink it into the dug hole. The foundation frame must jut out by 50 mm above ground level. Fit an iron cage into the foundation frame to reinforce the concrete.

Fit the bolts into the fastening plate and tighten them using the nuts. Remove the pre-shaped clamps using a screw driver or pliers.



If the rack is already there, place the anchoring plate, being careful to respect the measurements shown in the drawing. Careful! The tubes must pass through their corresponding holes.

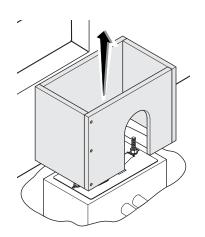


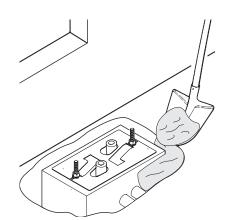


Fill the foundation frame with concrete. The plate must be perfectly level with the bolts which are entirely above surface. Wait at least 24 hrs for the concrete to solidify.

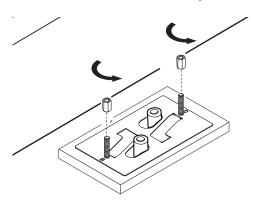
Remove the foundation frame and fill the hole with earth around the concrete block.

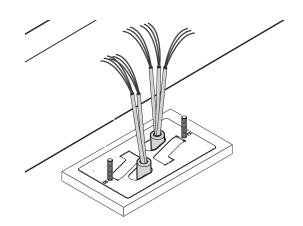






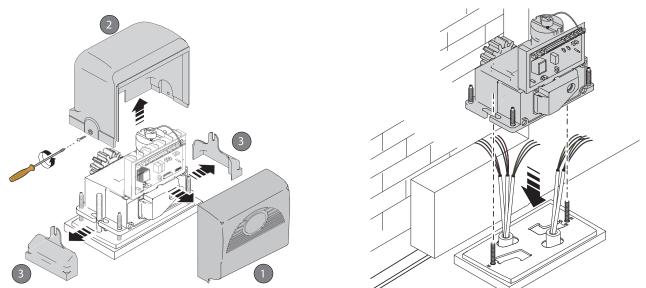
Remove the nuts from the bolts. Fit the electric cables into the tubes so that they come out about 600 mm.



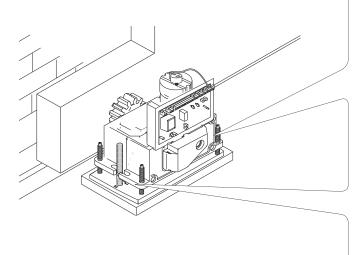


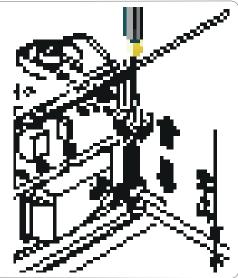
SETTING UP THE GEARMOTOR

Remove the front cover and the gearmotor cover. Place the gearmotor above the anchoring plate.



Raise the gearmotor by 5 to 10 mm from the plate by turning the threaded feet, to make room for further pinion and rack adjustments.



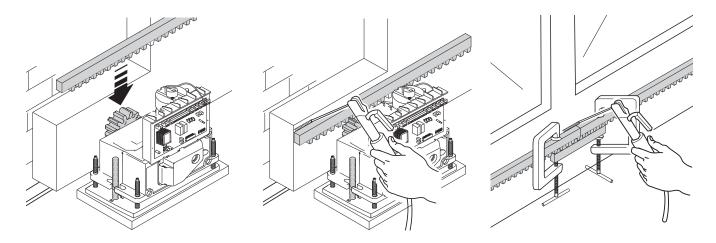


FASTENING THE RACK

If the rack is already set up, the next step should be to adjust the rack-and-pinion coupling distance, otherwise, fasten it:

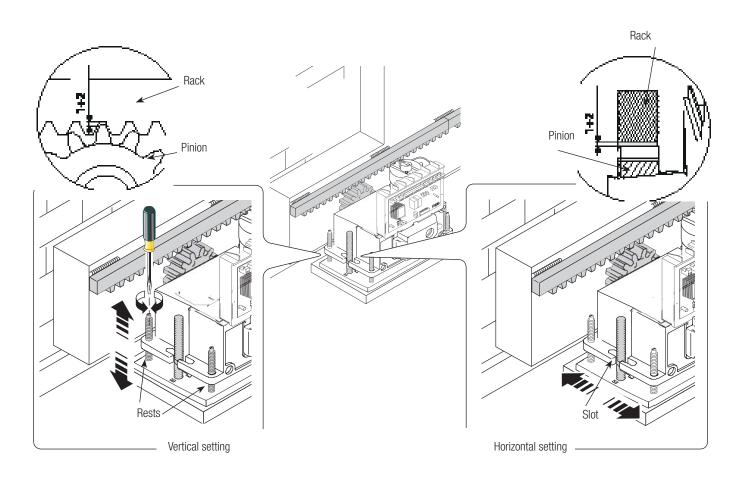
- release the gearmotor (see RELEASING THE GEARMOTOR paragraph);
- rest the rack above the gearmotor pinion;
- weld or fasten the rack to the gate along its entire length.

To assemble the rack modules, use an extra piece and rest it under the joint, then fasten it using two clamps.



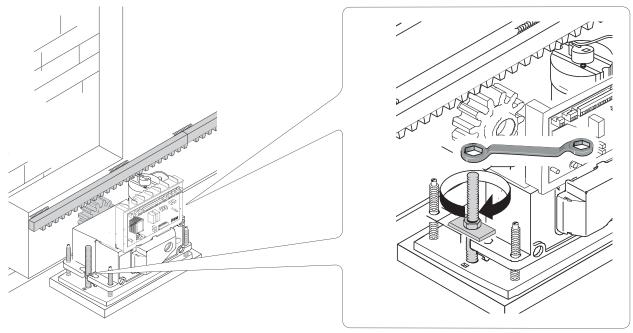
ADJUSTING THE PINION-RACK COUPLING

Manually open and close the gate and adjust the pinion-rack coupling distance using the threaded feet (vertical adjustment) and the holes (horizontal adjustment). This prevents the gate's weight from bearing down on the operator.



FASTENING THE GEARMOTOR

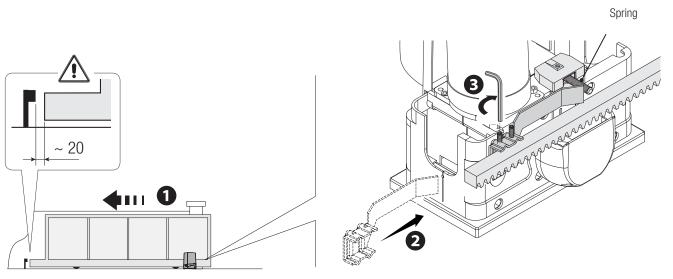
Once adjusting is complete, fasten the gearmotor to the plate using the plates and nuts.



ESTABLISHING THE LIMIT-SWITCH POINTS

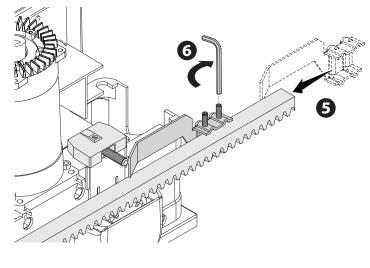
For opening:

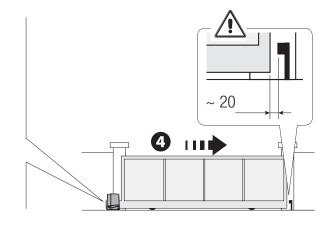
- open the gate **0**;
- fit the opening limit-switch tab onto the rack until the micro switch activates (spring) and fasten it using the grub screws 23.



For closing:

- close the gate **4**;
- fit the closing limit-switch fin into the rack until the micro-switch is activated (spring) and fasten it using the grub screws \odot .





ELECTRICAL CONNECTIONS AND PROGRAMMING

▲ Warning! Before working on the control panel, cut off the main power supply and, if present, remove any batteries.

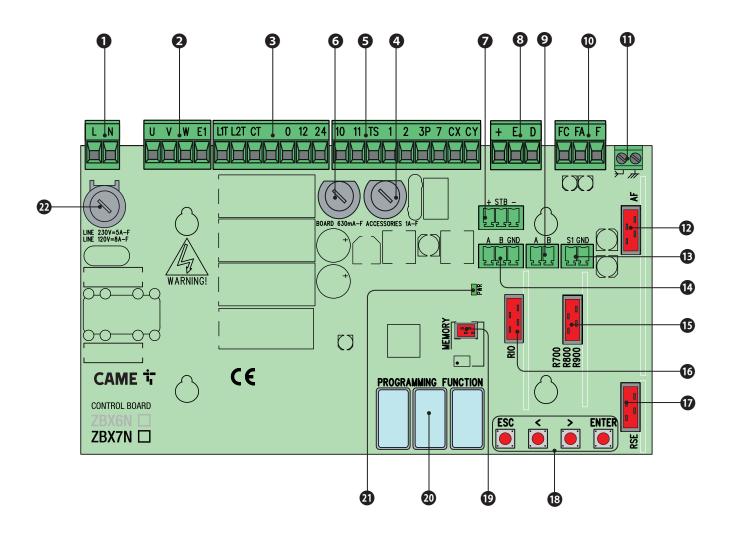
Functions on the input and output contacts, time adjustments and user-management settings are set and viewed on the control board's display. All wiring connections are quick-fuse protected.

FUSE TABLE	ZBX7N
LINE - Line	5 A-F (230 V)
	8 A-F (120 V)
C.BOARD - Card	630 mA-F
ACCESSORIES - Accessories	1 A-F

DESCRIPTION OF PARTS

- 1. Power supply terminals
- 2. Terminal for gearmotors
- 3. Transformer terminals
- 4. Fuse accessories
- 5. Terminals for control and safety devices
- 6. Fuse control board
- 7. Terminals for the RGP1 module
- 8. Encoder terminals
- 9. Keypad selector terminal
- 10. Terminals for limit-switch micro-switches
- 11. Antenna terminal
- 12. AF card connector
- 13. Terminals for transponder selector
- 14. Terminals for paired of CRP connection

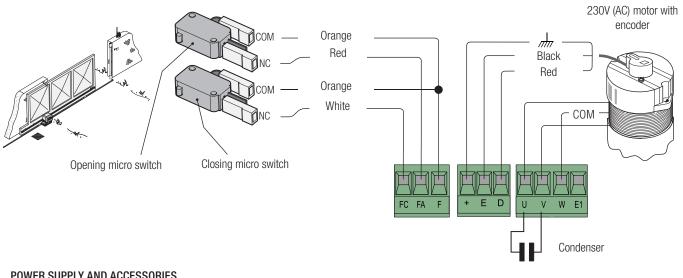
- 15. Connector for the R700/R800/900 cards
- 16. Connector for the RIOCN8WS card
- 17. RSE board connector
- 18. Programming buttons
- 19. Memory roll board connector
- 20. Display
- 21. Power supply on warning LED
- 22. Line fuse



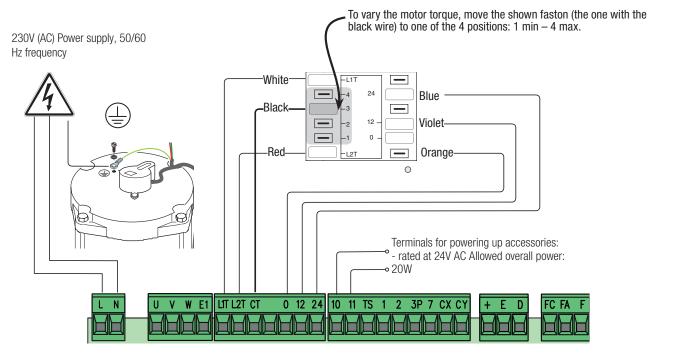
ELECTRICAL CONNECTIONS

Gearmotor, limit-switch and encoder

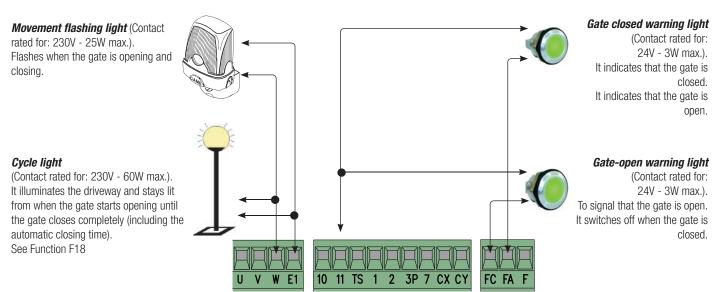
Description of the electrical connections is the same as that for installing on the left

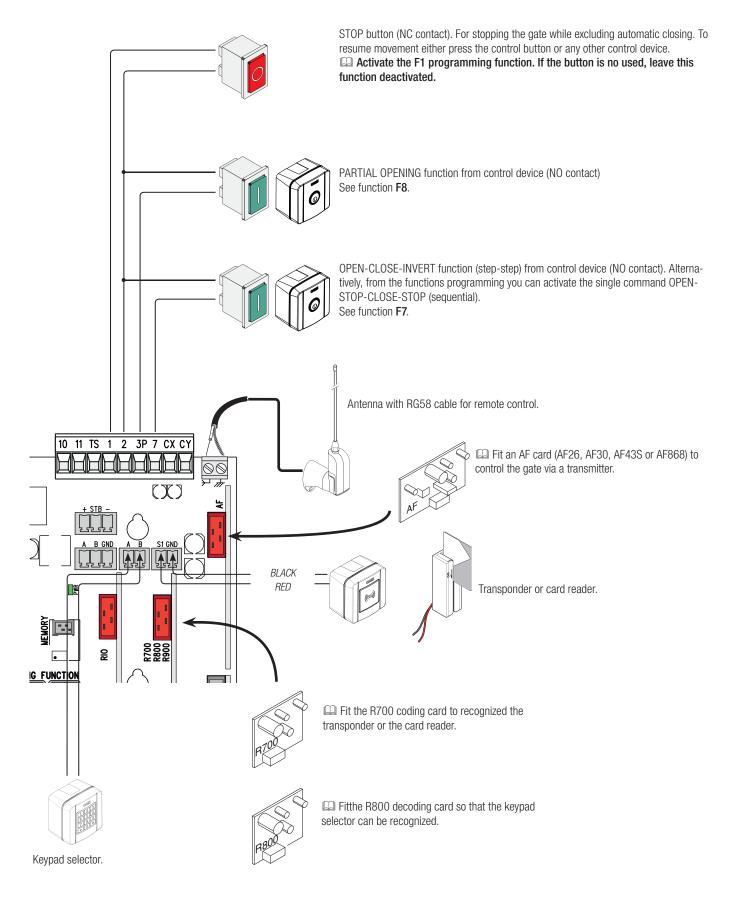


POWER SUPPLY AND ACCESSORIES



SIGNALING DEVICES



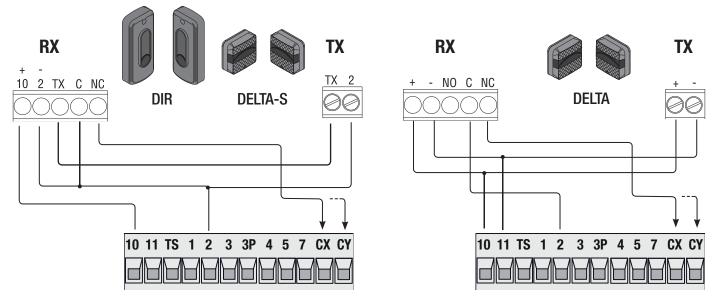


WARNING! For the system to work properly, before fitting any snap-in card (e.g. the AF R800), you MUST CUT OFF THE MAIN POWER SUPPLY and remove any batteries.

Photocells

Configure contact CX or CY (NC), safety input for photocells.

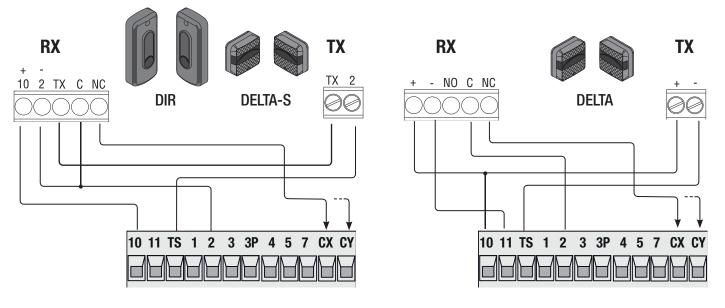
- See functions $\ensuremath{\text{F2}}$ (input CY) in:
- C1 reopening during closing. When the gate is closing, opening the contact triggers the inversion of movement until the gate is fully open again;
- C2 closing during opening. When the gate is opening, opening the contact triggers the inversion of movement until the gate is completely closed.
- C3 partial stop. Stopping of the gate, if it is moving, with consequent automatic closing (if the automatic closing function has been entered);
- C4 obstruction wait. Stopping of the gate, if it is moving, which resumes movement once the obstruction is removed.
- If contacts CX and CY are not used they should be deactivated during programming.



Photocells (safety test)

At each opening and closing command, the control board checks the efficacy of the safety devices (such as, photocells). Any malfunction inhibits any command and the display will show the Er4 wording. Enable function F5 in programming.

Enable function F5 in programming



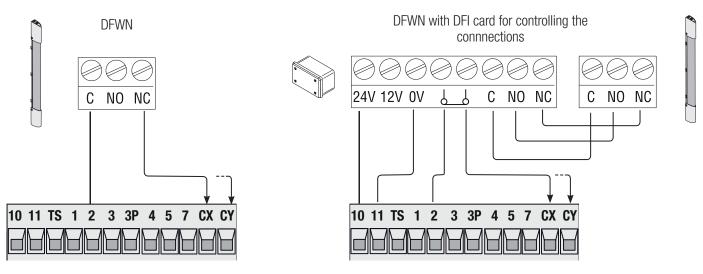
Sensitive Safety Edges

Configure contact CX or CY (NC), safety input for sensitive safety-edges. See F2 (input CX) or F3 (input CY) in:

- C7 (sensitive-safety edges with mechanical contact) or r7 (sensitive-safety edges with 8K2 resistor), reopening during closing phase. When the gate is closing, opening the contact triggers the inversion of movement until the gate is fully open again;

- C8 (sensitive safety-edges with mechanical contact) or r8 (sensitive safety edge with 8K2 resistance), reclosing during opening. When the gate is opening, opening the contact triggers the inversion of movement until the gate is completely closed.

If unused, contacts CX and CY should be deactivated during programming.



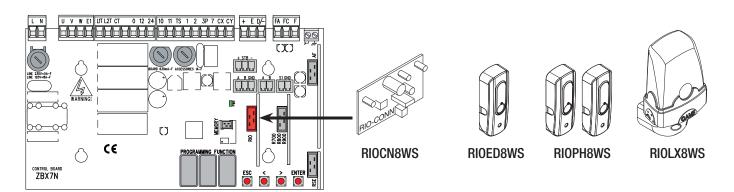
RIO WIRELESS DEVICES

Fit the RIOCN8WS card into the corresponding connector on the control board.

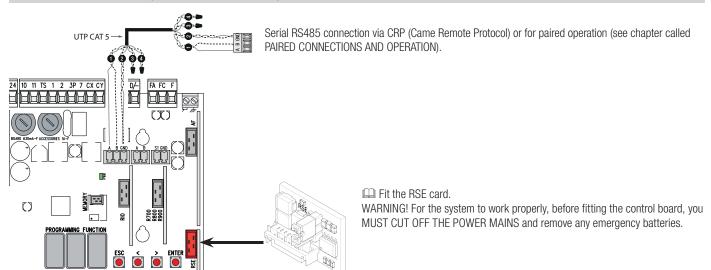
Set the function to associate to the wireless device (F65, F66, F67 and F68).

Configure the RIOED8WS, RIOPH8WS and RIOLX8WS wireless devices by following the indications shown in the folder enclosed with each accessory.

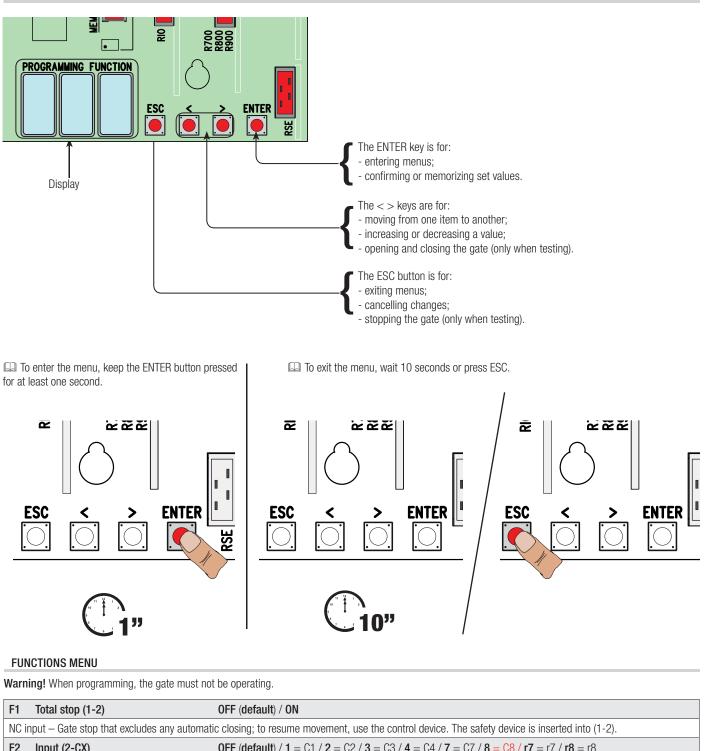
▲ If there are any radio-frequency disturbances to the system, the wireless system will inhibit the normal operation of the operator, and this error will show up on the display as E17.



PAIRED OPERATION OR CRP (CAME REMOTE PROTOCOL)



DESCRIPTION OF THE COMMANDS



 F2
 Input (2-CX)
 OFF (default) / 1 = C1 / 2 = C2 / 3 = C3 / 4 = C4 / 7 = C7 / 8 = C8 / r7 = r7 / r8 = r8

 NC input – Can associate: C1 = reopening during closing by photocells, C2 = reclosing during opening by photocells, C3 = partial stop, C4 = obstruction wait, C7 = reopening during closing by sensitive safety-edges (with clean contact), C8 = reclosing during opening by sensitive safety-edges (DF-series), r7 = opening again

during closing for sensitive safety edges (DFWN-series), - r8 = closing again during opening for sensitive safety edges (DFWN-series).

F3 Input (2-CY)

CY) OFF (default) / 1 = C1 / 2 = C2 / 3 = C3 / 4 = C4 / 7 = C7 / 8 = C8 / r7 = r7 / r8 = r8

NC input – Can associate: C1 = reopening during closing by photocells, C2 = reclosing during opening by photocells, C3 = partial stop, C4 = obstruction wait, C7 = reopening during closing by sensitive safety-edges (with clean contact), C8 = reclosing during opening by sensitive safety-edges (DF-series), r7 = opening again during closing for sensitive safety edges (DFWN-series), - r8 = closing again during opening for sensitive safety edges (DFWN-series), - r8 = closing again during opening for sensitive safety edges (DFWN-series).

The C3 Partial stop function only appears if the F 19 Automatic closing time function is activated.

F5 Safety test

OFF (default) / $\mathbf{1} = CX / \mathbf{2} = CY / \mathbf{4} = CX+CY$

After every opening or closing command, the board will check whether the photocells are working properly.

OFF (default) / ON

This function only appears if the photocells are enables.

F6 Maintained action

The gate opens and closes by keeping the but radio-based ones, are excluded.	ton pressed. Opening button on contact 2-3P and closing button on contact 2-7. All other control devices, even
F7 Command (2-7)	0 = Step-step (default) / 1 = Sequential / 2 = Open / 3 = Close
From the control device connected to 2-7 it per	orms the step-step (open-close-invert) or sequential (open-stop-close-stop) command.
F8 Command (2-3P)	1 = Partial opening / 2 = Open
	rforms either the partial opening or only open command
F9 Obstruction detection with motor idle	OFF (default) / ON
With the gate closed, opened or totally stopped,	the gearmotor stays idle if the safety devices, that is, photocells or sensitive safety-edges detect an obstruction.
F11 Encoder	OFF / ON (default)
Managing slow-downs, obstruction detections a	
F14 Sensor type selection	0 = control with transponder sensor or magnetic card reader. 1 = command with keypad selector (default).
Setting the type of accessory for controlling the	
F18 Additional light	OFF (default) = flashing / 1 = Cycle light
Additional light connection input on W-E1. Outdoor light for additional visibility in the drive	way. ts opening until it completely closes, including the automatic closing waiting time.
F19 Automatic closing time	OFF (default) $/ 1 = 1$ second $/ / 180 = 180$ seconds
	ning limit switch point is reached and can be set to between 1 and 180 seconds. The automatic closing does not
activate if any of the safety devices trigger when	an obstruction is detected, or after a total stop, or during a power outage.
opening	OFF / 1 = 1 second // 10 = 10 seconds (default) // 180 = 180 seconds
	er a partial opening command for an adjustable time of between 1 s and 180 s. f the safety devices trigger when an obstruction is detected, or after a total stop, or during a power outage.
F21 Preflashing time	OFF (default) / 1 = 1 second / / 10 = 10 seconds
Adjusting the pre-flashing time for the flashing I	ight connected to E1-W, before each maneuver. The flashing time is adjustable from one to ten seconds.
F30 Slow down while opening and closing	OFF (default) = deactivated / 1 = High / 2 = Medium / 3 = Low
Slowing-down phases of the gate before the lim I This function only appears if the Encoder fu	
F34 Travel sensitivity	10 = sensitivity / / 100 = minimum sensitivity (default)
Adjusting obstruction detection sensitivity during $\hfill \square$ This function only appears if the Encoder fu	
F35 Slow-down sensitivity	10 = sensitivity / / 100 = minimum sensitivity (default)
Adjusting obstruction detection sensitivity during	g slow-down. I the opening and closing slow-down functions are activated.
F36 Adjusting partial opening	10 = 10% of gate travel / / $80 = 80%$ of gate travel (default)
Adjustment as a percentage of total travel, durin This function only appears if the Encoder fu	
F37 Opening slow-down point	5 = 5% of gate travel / / $15 = 15%$ of gate travel (default) / / $30 = 30%$ of gate travel
Percentage adjustment of the total gate travel, on the function only appear if the Encoder and	f the opening slow-down starting point. I the opening and closing slow-down functions are activated.
F38 Closing slow-down point	5 = 5% of gate travel / / $15 = 15%$ of gate travel (default) / / $30 = 30%$ of gate travel
Percentage adjustment of the total gate travel, f \square This function only appear if the Encoder and	rom the closing slow-down starting point. I the opening and closing slow-down functions are activated.
F48 Manuevre starting torque	OFF (default) / ON = active
Greater pushing torque that activates during the	operator's beginning opening and closing phases.
F49 Managing serial connection	OFF (default) / 1 = Paired / 3 = CRP
To enable the paired operating mode or the CRF	(Came Remote Protocol).
F50 Save data	OFF (default) / ON
Saving users and saved settings in memory roll.	
F51 Read data	OFF (default) / ON
Uploading data saved in memory roll.	nas been fitted into the control board.
F52 Passing parameter in paired mode	OFF (default) / ON
Uploading settings from Master to Slave.	red.

F54 Opening direction	0 = Opening left (default) / 1 = Opening right
For setting the gate opening direction.	
F56 Peripheral number	1> 255
To set the peripheral's number from 1 to 255 fo	r each control board when you have a system with several operators.
F63 Change COM speed	0 = 1200 Baud / 1 = 2400 Baud / 2 = 4800 Baud / 3 = 9600 Baud / 4 = 14400 Baud / 5 = 19200 Baud / 6 = 38400 Baud (default) / 7 = 57600 Baud / 8 = 115200 Baud
For setting the communication speed used in the	e CRP (Came Remote Protocol) connection system.
F65 Wireless input RIOED8WS [T1]	OFF (default) / P0 = P0 / P7 = P7 / P8 = P8
F66 Wireless input RIOED8WS [T2]	OFF (default) / P0 = P0 / P7 = P7 / P8 = P8
F67 Wireless input RIOPH8WS [T1]	OFF (default) / P1 = P1 / P2 marked areas = P2 / P3 = P3 / P4 = P4
RIOPH8WS is associated to any function chosen obstruction wait. For programming, see the instructions that come This function only appears is the control boa The P3 function appears only if the F19 func-	ard has been fitted with a RIOCN8WS card.
F68 Wireless input RIOPH8WS [T2]	OFF (default) / P1 = P1 / P2 marked areas = P2 / P3 = P3 / P4 = P4
RIOPH8WS is associated to any function chosen obstruction wait. For programming, see the instructions that com This function only appears is the control boa The P3 function appears only if the F19 func-	ard has been fitted with a RIOCN8WS card.
F71 Partial opening time	5 = 5 seconds (default) / / 40 = 40 seconds
After an opening command from the button com	nected to 2-3P, the gate opens for an adjustable time of between five seconds and 40 seconds. Inction is deactivated.
U 1 Entering a user	1= Step-step command (open-close) / $2=$ Sequential command (open-stop-close-stop) / $3=$ Open only command / $4=$ Partial opening command
Entering up to 250 users and associating to eau "ENTERING USERS WITH ASSOCIATED COMMAN	ch one a function of choice among those included. This must be done via transmitter or other control device (see ND paragraph).
U 2 Deleting a user	
Deleting a single user	
U 3 Deleting users	OFF (default) / ON = Delete all users
Deleting all users.	
U4 Code decoding	1 (default) / 2 / 3
For choosing the type of receiving control code: M When you select a radio code, all saved tran The TWIN code lets you save multiple users	
A1 Type of motor	1 = BX-74 (default) / 2 = BX-78
Selecting the gearmotor to use for the system.	
A3 Calibrating gate-travel	OFF (default) / ON
Automatic calibration of the gate-leaf run (see the set of the se	nction is activated.
A 4 Resetting parameters	OFF (default) / ON
Attention! The default settings will be restored.	
A 5 Counting maneuvers	OFF (default) / ON = Number of maneuvers done
It is for viewing the number of maneuvers done.	
H1 Version	
View the firmware version.	

SETTING UP

Donce you have complete the electric connections, have qualified staff commission the operator into service, by doing the following functions first:

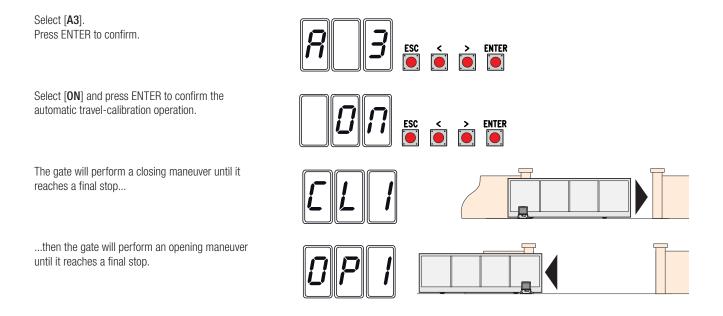
- opening direction (see function F54);
- total stop (see function F1);
- calibrating travel (see paragraph called CALIBRATING TRAVEL).

TRAVEL CALIBRATION

▲ Before calibrating the gate travel, position the gate half-way, check that the maneuvering area is clear of any obstruction and check that there are mechanical opening and closing stops.

 $\ensuremath{\vartriangle}\xspace$ The mechanical end-stops are obligatory.

Important! During calibration, all safety devices will be disabled.



MANAGING USERS

When adding and deleting users, the flashing numbers appearing are those numbers that are available and usable to assign to a new user (max. 250 users).
Before registering the users, make sure the AF radio card is plugged into the connector (see the paragraph called CONTROL DEVICES).

ENTERING USERS WITH AN ASSOCIATED COMMAND

Select **U1**. Press ENTER to confirm.

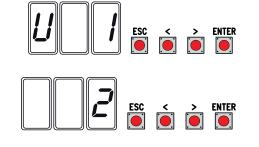
Selezionare un comando da associare all'utente:

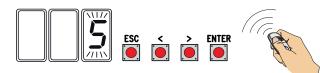
- 1 = step-step (open-close);
- **2** = sequential (open-stop-close-stop);
- -3 =only open;
- -4 = partial opening/pedestrian.

Press ENTER to confirm...

... a number between 1 and 250 will start flashing for a few seconds.

Send the code from the transmitter or other control device, such as, a keypad selector or a transponder. Associate the number to the added user.

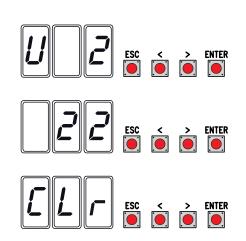




Select **U2**. Press ENTER to confirm.

Use the arrow keys select the number of the user you wish to delete. Press ENTER to confirm...

... CLr will appear on **the** screen to confirm deletion.



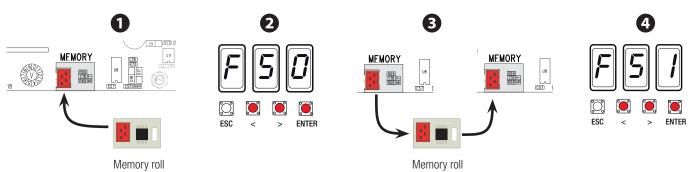
SAVING AND UPLOADING ALL DATA (USERS AND CONFIGURATION) WITH THE MEMORY ROLL

Procedure for memorizing all of the system's user and configuration data by using the Memory Roll, so they can be used with another control board, even on another system.

Warning! Fitting and extracting the Memory Roll must be done with the mains power disconnected.

- Fit the Memory Roll into the its corresponding connector on the control board.
- 2 Select F50 and press ENTER to confirm the saving of data in the Memory Roll.
- S Extract the Memory roll and fit it into the connector of another control board.
- Select F51 and press ENTER to confirm the uploading of data into the Memory Roll.

After memorizing the data, it is best to remove the Memory roll.



PAIRED FUNCTION

Electrical wiring

Fit the RSE card into the connector on the control panel of both operators.

Connect the two control paels to a CAT 5-type (max. 1,000 m) cable onto terminals A-A / B-B / GND-GND.

Connect all of the control and safety devices on the MASTER operator's control panel.

Important! Deactivate function F 19 (automatic closing time) on the SLAVE barrier's control panel.

Configuring the MASTER operator

Select function F 49. Press ENTER to confirm. Select 1 (paired) and press ENTER.

Transferring parameters from MASTER to SLAVE

Select function F 52 on the MASTER control panel.

00100111		02 011	uio	1 1 1/
Select 1	and pre	ss ENT	ER.	

Programming

Set the following functions on the MASTER board:

- the opening direction (F54);
- parameter exchange in paired mode (F52);
- travel calibration (A3).

MASTER SLAVE

If you change the opening and closing slow-down percentage, repeat procedure F52.

Saving

Perform the add-user procedure with the ONLY OPEN, STEP-STEP and PARTIAL / PEDESTRIAN OPENING command on the MASTER control panel.

Operating modes

• Either STEP-STEP or ONLY OPEN command.

Both leaves open.

PARTIAL OPENING command. Only the MASTER operator's leaf opens.

For the types of command that can be selected and paired to users, see the ENTERING USERS WITH ASSOCIATED COMMANDS.

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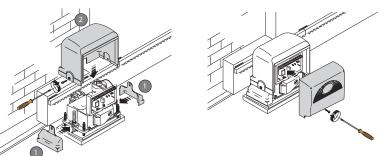
ERROR MESSAGES

 $\hfill\square$ The error messages are shown on the display.

E 1	Calibration error.
E 2	Adjustment error.
E 3	Encoder is broken.
E 4	Safety test error.
E 7	Insufficient working time.
E 8	Release hatch open.
E 9	Closing obstruction.
E 10	Opening obstruction.
E 11	Maximum number of obstructions detected.
E 14	Serial communication error
E 15	Incompatible transmitter error.
E 17	Wireless system error.
E 18	Missing wireless system configuration
EINIAL	

FINAL OPERATIONS

Once the electrical connections are done and the operator has been commissioned, fit the covers while being careful to not damage the cables. Fasten them with screws.



WHAT TO DO IF

ISSUES	POSSIBLE CAUSES	POSSIBLE FIXES	
It neither opens nor	Power supply is missing	Check main power supply	
closes • The gearmotor is stuck		 Lock the gearmotor 	
	• The transmitter emits a weak signal or no signal	Replace the batteries	
	 Control buttons or selectors stuck 	 Check the state of all devices 	
The gate opens but	The photocells are working	Check that there are no obstructions	
does not close		in the photocells' area of operation	

 \triangle If the problem cannot be solved by following the fixes in the table or if any malfunctions, anomalies, noises, vibrations or suspicious and unexpected behavior is experienced on the system, call for qualified assistance.

DISMANTLING AND DISPOSAL

CAME S.p.A. applies a certified Environmental Management System at its premises, which is compliant with the UNI EN ISO 14001 standard to ensure the environment is safeguarded.

Please continue safeguarding the environment. At CAME we consider it one of the fundamentals of our operating and market strategies. Simply follow these brief disposal guidelines:

DISPOSING OF THE PACKAGING

The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling. Always make sure you comply with local laws before dismantling and disposing of the product.

DISPOSE OF RESPONSIBLY!

DISMANTLING AND DISPOSAL

Our products are made of various materials. Most of these (aluminum, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants.

Whereas other components (control boards, batteries, transmitters, and so on) may contain hazardous pollutants.

These must therefore be disposed of by authorized, certified professional services.

Before disposing, it is always advisable to check with the specific laws that apply in your area. DISPOSE OF RESPONSIBLY!

You may photocopy this page: you can	register up to 250 users.
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Fabbricante / Manufacturer / Hersteller / Fabricant / Fabricante / Fabricante / Wytwórca / Fabrikant

Came S.p.a.



indirizzo / address / adresse / adresse / dirección / endereço / adres / adres Via Martiri della Libertà 15 - 31030 Dosson di Casier, Treviso - Italy

DICHIARA CHE LE AUTOMAZIONI PER CANCELLI SCORREVOLI / DECLARES THAT THE DRIVES FOR SLIDING GATES / ERIKLÄRT DASS DIE AUTOMATISIERUNGEN FÜR SCHIEBETORE / DECLARE QUE LES AUTOMATISATIONS POUR PORTALS COULISSANTS / DECLARA QUE LAS AUTOMATIZACIONES PARA PUERTAS CORREDERAS / DECLARA QUE AS AUTOMATIZAÇÕES PARA PORTÕES DE CORRER / OSWIADCZA ZE AUTOMATYKA DO BRAM PRZESUWNYCH / VERIKLAART DAT DE AUTOMATISERING VOOR SCHUIFHERKEN

BX-74 ; BX-74A BX-78; BX-78A; BX-78CSI

SONO CONFORMI ALLE DISPOSIZIONI DELLE SEGUENTI DIRETTIVE / THEY COMPLY WITH THE PROVISIONS OF THE FOLLOW-ING DIRECTIVES / DEN VORGABEN DER FOLGENDEN RICHTLINIEN ENTSPRECHEN / SONT CONFORMES ALLX DISPOSITIONS DES DIRECTIVES / ULMITES / CLIMIELEN CON LAS DISPOSICIONES DE LAS SIGUIENTES DIRECTIVAS / ESTÃO DE ACORDO COM AS DISPOSIÇÕES DAS SEGUINTES DIRECTIVAS / SA ZGODNE Z POSTANOVIENIAMI NASTEPUJACYCH DYREKTYW EUROPEJISKICH / VOLDOEN AAN DE VOORSCHRIFTEN VAN DE VOLGENDE RICHTLINIEN:

- COMPATIBILITA' ELETTROMAGNETICA / ELECTROMAGNETIC COMPATIBILITY / ELEKTROMAGNETISCHE VERTRÄGLICHKEIT / COMPATIBILITE ELECTROMAGNETIQUE / COMPATIBILIDAD ELECTROMAGNETICA / COMPATIBILIDAD DADE ELETROMAGNETICA / KOMPATYBILNOŚCI ELEKTROMAGNETYCZNEJ / ELEKTROMAGNETISCHE COMPATIBI-LITEIT : 2014/30/UE.

Ell'etimanto norme armonizzate ed altre norme tecniche / Refer to European regulations and other technical regulations / Harmonisierte Bezugsnormen und andere technische Vorgaben / Reference aux normes harmonisées et aux autres normes techniques / Referencia normas armonizadas y otras normas técnicas / Referência de normas harmoniza-das e outras normas técnicas / Odnosne normy ujednolicone i inne normy techniczne / Geharmoniseerde en andere technische normen waarnaar is verwezen

EN 61000-6-2:2005 EN 61000-6-3:2007+A1:2011 EN 62233:2008 EN 60335-1:2012+A11:2014 EN 60335-2-103:2015

RISPETTANO I REQUISITI ESSENZIALI APPLICATI: / MEET THE APPLICABLE ESSENTIAL REQUIREMENTS: / DEN WESENTLICHEN ANGEWANDTEN ANFORDERUNGEN ENTSPRECHEN: / RESPECTENT LES CONDITIONS REQUISES NECESSARES APPLIQUEES: / CUMPLEN CON LOS REQUISITOS ESENCIALES APLICADOS: / RESPEITAM O REQUISITOS ESSENCIAIS APLICADOS: / SPELNIAJA PODSTAWOWE WYMAGANE WYRUNKI: / VOLDOEN AAN DE TOEPASBARE MINIMUM EISEN; 1.1.3; 1.1.5; 1.2.1; 1.2.2; 1.3.2; 1.3.7; 1.3.8.1; 1.4.1; 1.4.2; 1.5.1; 1.5.6; 1.5.8; 1.5.9; 1.5.9; 1.5.13; 1.6.1; 1.6.3; 1.6.4; 1.7.1; 1.7.2; 1.7.4

PERSONA AUTORIZZATA A COSTITUIPE LA DOCUMENTAZIONE TECNICA PERTINENTE / PERSON AUTHORISED TO COMPILE THE RELEVANT TECHNICAL DOCUMENTATION / PERSON DIE BEVOLUMÄCHTIGT IST, DIE RELEVANTEN TECHNISCHEN UNTERLAGEN ZUSAMMENZUSTELLEN / DOCUMENTATION TECHNICAL DOCUMENTATION A A CONSTRUITE DE / PERSONA FACULTADA PARA E LABORMAN LA DOCUMENTACIÓN TECHNICA PERTINENTE / PESSOA AUTORIZZATA A CONSTRUITA DOCUMENTACIÓN TÉCNICA PERTINENTE / OSOBA LPOWAZNIONA DO ZREDAGOWANIA DOKUMENTACIÁN TECHNICZNEJ / DEGENE DIE GEMACHTIGD IS DE PELEVANTE TECHNISCHE DOCUMENTEN PERTINENTE / OSOB/ SAMEN TE STELLEN.

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La documentatione teorica perfinente è stata complata in conformità all'allegato VIB. /.The perfinent technical documentation has been drawn up in compliance with attached document VIB. / Die relevante technische Dokumentation wurde enteprechend der Anlage VIB ausgestellt, / La documentation technique spécifique a dér remple conformément à l'annexe IIB. / La documentation febrica perfinente ha sido relevanda en upplimiento con el anexo VIB. / A documentation technique spécifique a dér remple conformément à VIB. / Odnosna dokumentacja technicana zostata zedagowana zgodnie z zateczniklem VIB. / De technische documentatie terzake is opgesteld in overeenstemming met de bijtige VIB.

CAME S.p.a. si impegna a trasmettere, in risposta a una richiesta adeguatamente motivata dello autorità nazionali, informazioni pertinenti sulle quasi macchine, e / Came S.p.A. following a duly motivatad riequest from the national authorities, undertakes to provide information related to the quasi macchines, and / Die Firma Came S.p.A. verpäidhet sich auf eine angemessen motiverte Anfrage der staatlichen Behörden Informationen über die unvoltständigen Meschinen, zu übermitten, und / Came S.p.A. s'engage à transmettre, en réponse à une demande blen fondé de le part des autoridas nationelles, les renesignements relatilis aux quasi machines / Came S.p.A. compromete atrasmitir, com respusta e una solicitad decuadamente fundada por parte de las autoridades nacionale, informaciones relacionades con las cuasimáquinas / Came S.p.A. compromete -se em transmitir, em resposta a una solicitação motivada apropriadamente pelas autoridades nacionale, informaciones relacionades con las cuasimáquinas / Came S.p.A. cobmizauje eix du zieletria informaci dotyczanych mussym relacionadom parte de las autoridades nacionales, informaciones relacionades com partes que acomponham mégunias / Came S.p.A. cobmizauje eix du zieletria informaci dotyczanych mussym relacionadom y parte de las autoridades nacionades, informaciones preatempetentes cransym panstwowe / Came S.p.A. cobmizauje eix du zieletria informaci dotyczanych mussym relacionadom y panster de las autoridades nacionades com partes de las componentes metanentes de las autoridades nacionades experimentes partes que componente at transmit. em resposta a una esticitação motivada apropriadamente pelas autoridades nacionades partes que componentes metanentes partes de las autoridades nacionades entres de las autoridades n

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Is messa in servicio finche la machine finale in ci deve essere incorporate non è stata dichiarata conforme, se del caso ala 2006/42/CE. / Auchine Sioring of the above mentioned unit auc moment when the final machine into which they must be incorporated, has been declared compliant, i partient, to 2005/42/CE. / die hebetkehenhme bevor die "Endmaschher" in die die unvoltetändige Maschher eingebaut wird, als konform erklähr twurde, gegebenentials gemäß der Fichtlinie 2006/42/CE. / la misse en service tant que la machine Bhale dans laquelle elle doit être incorporée n°a pas été déclarée conforme, la cas échéant, à la norme 2006/42/CE. / la puesta en servicio hasta que la machine Bhale dans laquelle elle doit être incorporée n°a pas été déclarée conforme, la cas échéant, à la norme 2006/42/CE. / la puesta en servicio hasta que la médium Bhal en la que será incorporada no haya sicio declaradu de conformidad de acuerdo a la 2006/42/CE. / la contra dout machine acuer acuer de la service la servicio hasta que la médium Bhale en aque será incorporada no haya sicio declaradu de conformidad de acuerdo a la 2006/42/CE. / a colocação em funcionamento, ellé que a máquina Bhal, onde devem ser incorporadas, nala for declarada em conformidate, se de acordo com a 200742/CE. / Unchorninei urzazotraria do casau, kielos massyna, do kirárgi ma tity» koucidowany, nie zostariario conrino alto so zgodna z wyny 2006/42/CE. / la colocagão em funcionamento, elle que a máquina Bhal, onde devem ser incorporadas, nala for declarada em conformidate, se de acordo com a 200742/CE. / Unchornine urzazotraria do casau, kielos massyna, do kirárgi ma tity» koucidowany, nie zostariario conrina foiso zgodna z wyny 2006/42/CE. / la colocagão em funcionamento, elle que a máquina Bhal, al acue service interporada no haya sicio declarada procedura byla konieccame. / deze in werking te stellen zolang de eindmachine waarin de niet volicoide machine moet worden ingebouwd in overeenstemming is verdaard, indien toepasseiji met de circitita 2006/42/CE. above mentioned until such procedura była konieczna. / met de richtlijn 2006/42/EG.

Dosson di Casier (TV)

29 Novembre / November / November / Novembre / Noviembre / Novembro / Listopad / November 2017

Legale Rappresentante / Legal Representative /Gesetzlicher
Vertreter / Representant Legal / Representante Legal /
Representante Legal / Prawny Przedstawiciel / Juridische
Vertegenwoordiger

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Paolo Menuzzo/ ·n 1

Fascicolo tecnico a supporto / Supporting technical dossier / Unterstützung technischer Dossier / soutenir dossier technique / apoyo expediente técnico / apoiar dossier técnico / wspieranie dokumentacji technicznej / ondersteanende technische dossier: 001BX74

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