AUTOMATION FOR SLIDING GATES



FA00127-EN











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Foreword

• This product should only be used for the purpose for which it was explicitly designed. Any other use is considered dangerous. CAME S.p.A. is not liable for any damage resulting from improper, wrongful or unreasonable use • Keep these warnings with the installation and use manuals issued with the automation system.

Before installing

(preliminary check: in case of a negative outcome, do not proceed until you have complied with the safety requirements)

• Check that the part you intend to automate is in good mechanical condition, balanced and aligned, and that it opens and closes properly. Make sure that proper mechanical stops are already in place • If the operator will be installed at a height of less than 2.5 m from the ground or other access level, check whether you will need any protections and/ or warnings • Any leaves fitted with pedestrian entrances onto which you will install an operator must have a blocking mechanism when the leaf is in motion • Make sure that the opening of the automated leaf is not an entrapment hazard as regards any surrounding fixed parts • Do not mount the operator upside down or onto any elements that may fold under its weight. If needed, add suitable reinforcements at the points where it is secured • Do not install onto leaves not on level ground • Check that any lawn watering devices will not wet the operator from the bottom up.

Installation

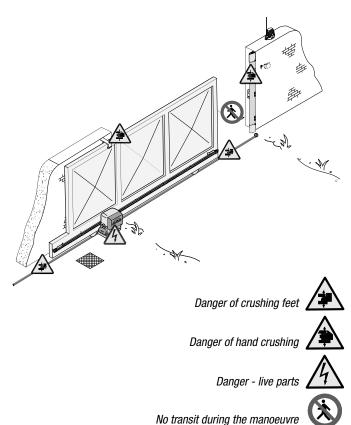
· Carefully section off the entire site to prevent unauthorised access, especially by minors and children . Be careful when handling operators that weigh more than 20 kg. In case, procure the tools required for safe gate movement • All opening commands (buttons, key selectors, magnetic readers etc.) must be installed at least 1.85 m from the perimeter of the area of turnstile movement, or where they cannot be reached from outside through the turnstile. In addition, direct controls (button, touch sensitive keys, etc.) must be installed at a height of at least 1.5 m and must not be accessible to the public • All 'hold-to-run' commands must be placed where the moving gate leaves, transit areas and driveways are completely visible • If missing, apply a permanent label that shows the position of the release mechanism • Before delivering to the user, check that the system is EN 12453 (impact test) standard compliant. Make sure that the operator has been properly adjusted and that the safety and protection devices as well as the manual release are working properly • Where necessary and in plain sight, apply the Warning Signs (e.g. gate plate)

Special instructions and advice for users

 Keep the gate's area of operation clean and clear of any obstacles. Check that there is no vegetation in the area of operation of the photocells and that there are no obstacles in the area of operation of the operator • Do not allow children to play with the fixed command devices, or in the gate's area of operation. Keep any remote control devices (i.e. transmitters) or any control devices away from children as well, to prevent the operator from being activated accidentally •The operator is not designed to be used by persons (including children) whose physical, sensorial or mental capacities are limited, or who are lacking in experience or knowledge, unless said persons can be supervised or given instructions regarding using the operator by a person responsible for their safety . Frequently check the system, to see whether any anomalies or signs of wear and tear appear on the moving parts, on the component parts, on the securing points, on the cables and any accessible connections. Keep any joints (i.e. hinges) lubricated and clean, and do the same where friction may occur (i.e. slide rails) • Perform functional tests on photocells and sensitive edges every six months. To check that the photocells work, pass an object in front of them during closing. If the operator reverses the direction of movement or comes to a halt, the photocells work correctly. This is the only maintenance operation that must be carried out while the operator is live. Ensure that the glass on the photocells is kept clean (use a cloth slightly moistened with water; do not use solvents or any other chemicals as these could damage the devices) • If the system requires repairs or modifications, release the operator and do not use it until safety conditions have been restored • Cut off the power supply before releasing the operator for manual openings and before any other operation, to prevent dangerous situations. Read the instructions • If the power cable is damaged, it must be replaced by the manufacturer or the technical assistance service or by a person with a similar qualification so as to prevent any risks • It is STRICTLY FORBIDDEN for users to perform OPERATIONS THEY ARE NOT EXPLICITLY REQUIRED AND ASKED to do in the manuals. For repairs, adjustments and extraordinary maintenance, CONTACT THE SPECIALIST TECHNICAL SERVICE CENTRE • On the periodic maintenance log, note down the checks you have done.

Special instructions and advice for all

• Avoid working near the hinges or moving mechanical parts • Stay clear of the gate's area of operation when in motion • Do not resist the direction of movement of the gate; this may present a safety hazard • At all times be extremely careful about dangerous points that must be indicated by proper pictograms and/or black and yellow stripes • When using a selector or command in 'hold-to-run' mode, keep checking that there are no people in the area of operation of the moving parts. Do this until you release the command • The gate may move at any time without warning • Always cut the power when cleaning or performing maintenance.



1 Legend of symbols

This symbol tells you to read the section with particular care.

This symbol tells you that the sections concern safety issues.

This symbol tells you what to say to the end-users.

2 Conditions of use

2.1 Intended use

The BX-74 motor is designed to operate residential sliding gates; while, the BX-78 may also be used in condominiums.

Do not install or use unless as otherwise shown in this manual.

2.2 Limitations to use

BX-74: max weight of the gate is 400 kg. BX-78: max weight of the gate is 800 kg; for condominium use it is 600 kg.

3 Reference standards

The company CAME cancelli automatici is ISO 9001 quality certified; it has also obtained the ISO 14001 environmental safeguarding certification. CAME engineers and manufactures all of its products in Italy. This product complies with the following legislation: see declaration of compliance.

4 Description

4.1 Operator

This product is engineered and manufactured by CAME S.p.A. in compliance with current safety standards.

The operator is made of a cast aluminium part inside of which operates the irreversible, electromechanical gearmotor and an ABS plastic lining which holds the electronic card and transformer

Important! Check that the command, safety equipment and accessories are CAME originals; this guarantees and make the installation easy to operate and maintain.

4.2 Technical features

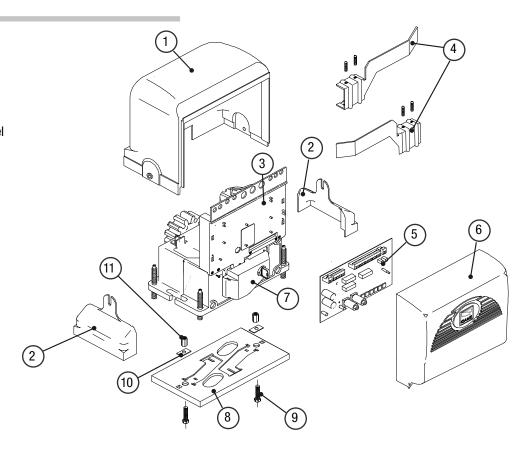
BX-74 OPERATOR

Control panel power supply: 230V AC 50/60Hz Operator power supply: 230V AC 50/60Hz Draw max.: 2,6A Power: 200W Max Torque: 24 Nm Reduction ratio: 1/33 Thrust: 300 N Max speed: 10 m/min Operative intermittence: 30% Protection rating: IP54 Insulation class: I Weight: 15 kg Capacitor: 12 μ F Engine thermoprotection: 150° C

BX-78 OPERATOR

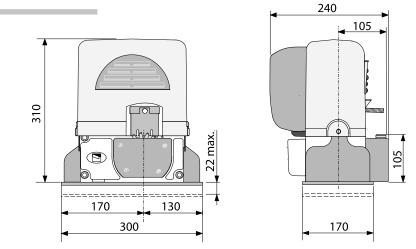
Control panel power supply: 230V AC 50/60Hz Operator power supply: 230V AC 50/60Hz Draw max.: 2,4A Power: 300W Max Torque: 32 Nm Reduction ratio: 1/33 Thrust: 800 N Max speed: 10 m/min Operative intermittence: 30% Protection rating: IP54 Insulation class: I Weight: 15 kg Capacitor: 20 µF Engine thermoprotection: 150° C

- 1 Top cover
- 2 Settings casing
- 3 Control board support
- 4 Endstop fins
- 5 ZBX74-78 electronic card
- 6 Front cover to control panel
- 7 Gearmotor release door
- 8 Securing plate
- 9 Securing bolt
- 10 Securing screw plate
- 11 Nut



4.4 Dimensions

(mm)



5 Installation

🕂 Installation must be carried out by expert qualified personnel and in full compliance with current regulations.

5.1 Preliminary checks

\rm Before installing, do the following:

- Make sure that the gate is stable, and that the castors are in good working order and properly greased.
- The ground rack must be well secured to the ground, entirely above the surface and free of any irregularities that may obstruct the gate's movement.
- The upper guide rails must not create any friction.
- Make sure that there is a closing and an opening endstops.
- Make sure that the operator is attached to a solid surface and protected from any impacts;
- Make sure you have a suitable omnipolar cut-off device with contacts more than 3 mm apart, and independent (sectioned off) power supply;
- 🕒 Check that any connections inside the container (that provide continuity to the safety circuit) are fitted with additional insulation compared to other internal live parts;
- Make sure you have suitable tubing and conduits for the electrical cables to pass through and be protected against mechanical damage.

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.

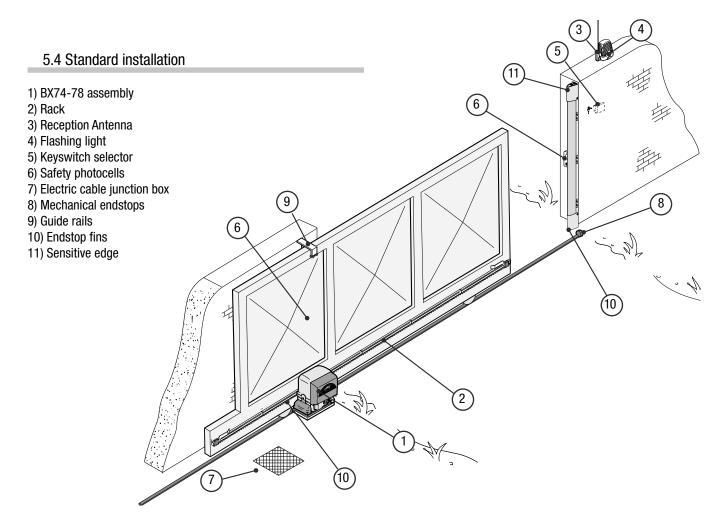


5.3 Cable list and minimum thickness

Connection	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 230V		3G x 1,5 mm ²	3G x 2,5 mm ²	3G x 4 mm ²
Flashing light	FROR CEI 20-22 CEI EN 50267-2-1	2 x 0,5 mm ²	2 x 1 mm ²	2 x 1,5 mm ²
Photocell transmitter		2 x 0,5 mm ²	2 x 0.5 mm ²	2 x 0,5 mm ²
Photocell receiver		4 x 0,5 mm ²	4 x 0,5 mm ²	4 x 0,5 mm ²
Accessories power supply		2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 1 mm ²
Safety and control devices]	2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 0,5 mm ²
Antenna connection	RG58		max. 10 m	•

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

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.



5.5 Securing the plate and installing the assembly

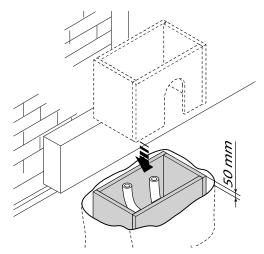
The following applications are only examples, as the space for installing the ratiomotor and accessories varies according to obstructions. It is thus up to the system installer to select the most suitable solution.

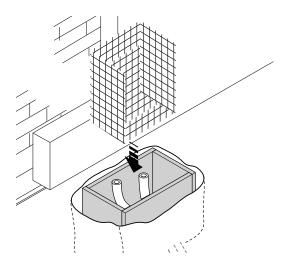
- Dig a pit to the side of the gate (see measurements from diagram).

Prepare the corrugated tubes you will need when making connections coming from the shurt pit. N.B. the number of tubes depends on the type of system and the accessories you will hook up.

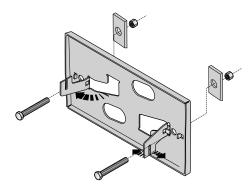
- Prepare a form box that is larger in size than the securing plate and insert it into the pit. The form box should jut 50mm above ground level.

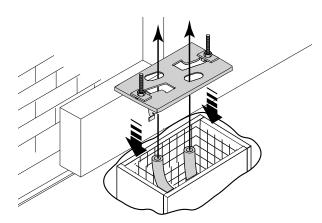
Insert an iron grid inside the from box to reinforce the concrete.



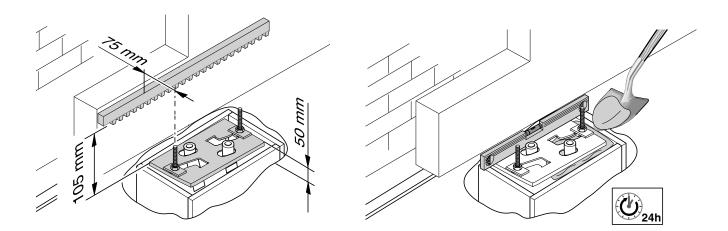


- Prepare the securing plate, insert the bolts into the holes and lock them using the supplied nuts and washers. Extract the preformed brackets using a screw driver or a set of pliers.
- Position the plate on top of the grid. Careful! The tubes need to pass through the apposite holes.

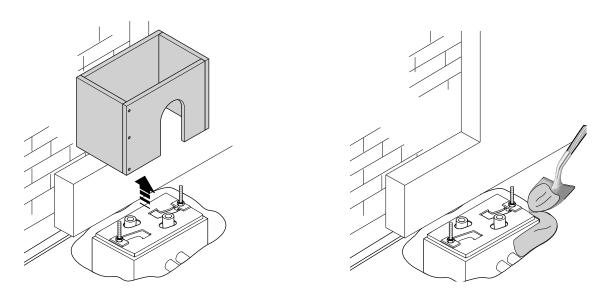




- To position the plate in relation to the rack please see the measurements on the diagram. Fill the form box with cement and wait for at least 24 hours for it to solidify.

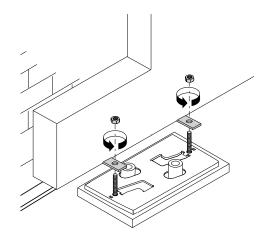


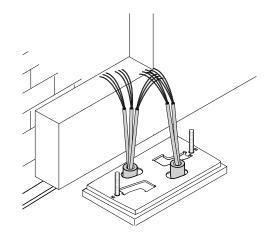
- Remove the form box, fill the pit around the cement block with soil.



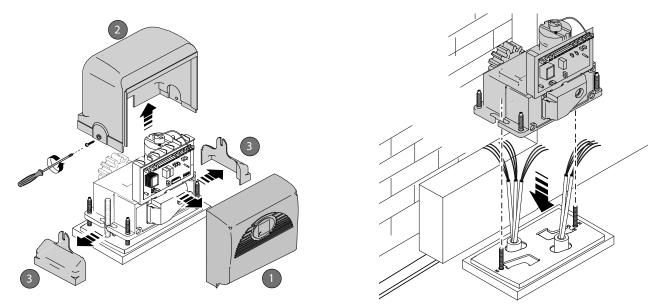
- Unbolt the nuts and washers from the bolts. The securing plate must be clean, perfectly aligned and with the bolt threads completely on the surface.

Insert the electric cables into the tubes until they exit about 400mm.

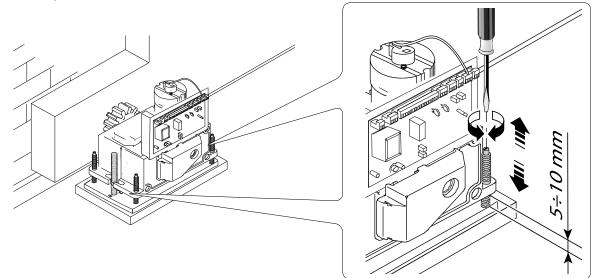




- Remove the cover from the gearmotor by loosening the side bolts, perforate the cable shafts using a screwdriver or a pair of scissors and position the gearmotor atop the plate. Careful! The electric cables must pass through the cable shafts.



- Lift the gearmotor from the securing plate by about 5 to 10mm by using the threaded steel-levelling feet to allow any later adjustments between the pinion and the rack.

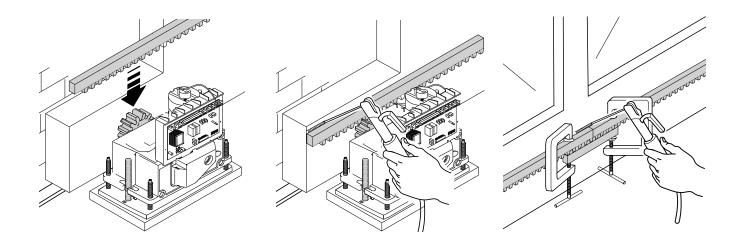


- The following illustrations for the securing the rack, are just examples of applications. It is up to the installer to choose the best solution.

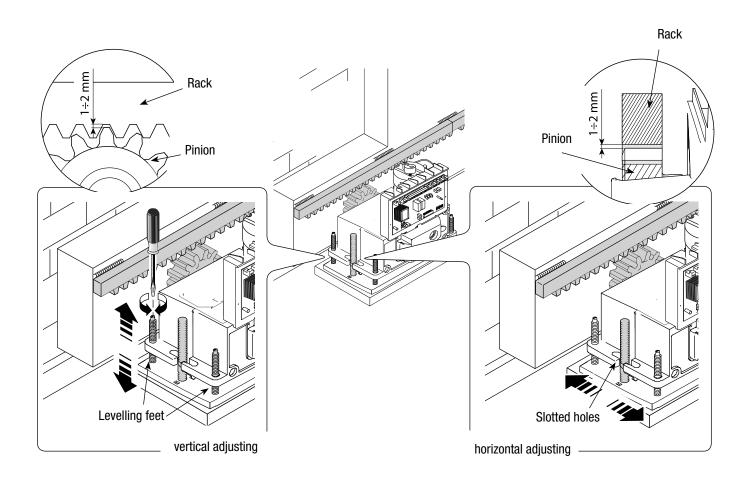
Releasing the gearmotor (see paragraph on manual release). Rest the rack on the gearmotor pinion.

Weld or secure the rack to the gate along its entire length.

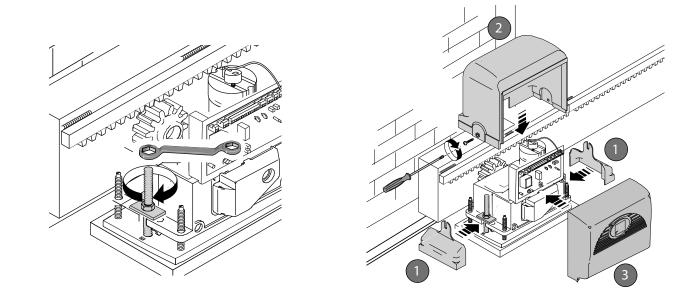
To assemble the rack modules, use an excess piece of rack and place it under the joining point, then block it using two C-clamps. Note: if a rack is already in place, then just adjust the pinion-to-rack distance.



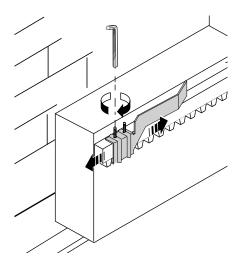
- Open and close the gate manually and register the pinion-to-rack distance using the threaded steel-levelling feet (for vertical adjusting) and the slotted holes (horizontal adjusting). This prevents the weight of the gate from bearing on the operator.

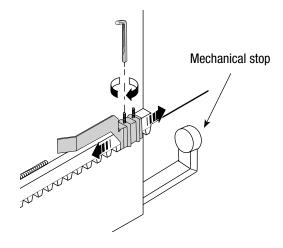


Once adjustments are finished, secure the assembly using the nuts and washers. Insert the cover after performing the adjustments and settings on the electronic card.



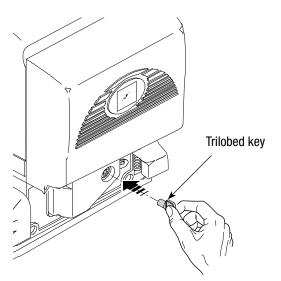
Place the endstop fins onto the rack and secure them using a 3 mm Allen wrench. Their positioning limits the gate run. <u>Note:</u> the gate schould not slam against the mechanical stop, when opening or closing.



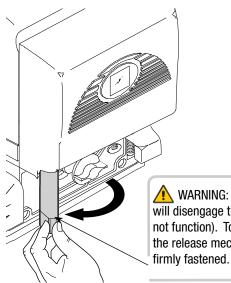


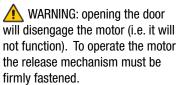
5.7 Manually releasing the gearmotor

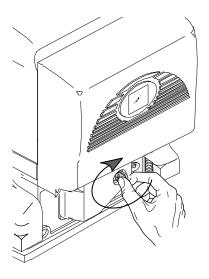
- Insert the trilobed key into the lock, push it in and turn it clockwise

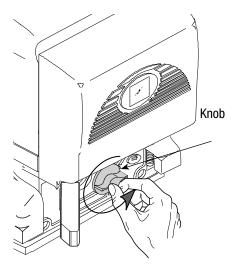


..... open the small door and turn the release handle clockwise.









6 Control board

6.1 General description

Use 230V AC to power the electronic card using the L-N terminals, at a max 50/60Hz frequency.

Use 24V to power the command devices and accessories. Careful! The accessories cannot exceed 20W of overall power.

The photocells may be set up for re- opening during closing (2-C1), partial stop, total stop and obstacle detection when motor is stopped.

Note: when a normally closed safety contact (i.e. 2-C1, 2-C3 or 1-2) is opened, the signalling LED starts to flash (ref. point 11, main components).

The optical reader inverts the gate's direction of travel when it detects and obstacle during its opening and/or closing movement.

Warning: after 3 obstacle detections, the gate stops when in opening-mode and excludes automatic-closing mode; to regain movement press the command button or use the remote control.

All connections are protected by quick-fuses – see table.

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The card handles the following functions:

- Automatic closing after an opening command;
- Warning light pre-flashing;
- Obstacle detection when gate is still at any point;
- The following command modes are possible:
- Opening/closing;
- Opening/closing in maintained action mode;

White Red Black

- partial opening;
- total stop.

6.2 Main components

Apposite trimmers regulate:

- The automatic closing's running time;
- The partial opening;

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

TECHNICAL INFORM	ATION
Power supply	230V - 50/60 Hz
Maximum power allowed	200 W (BX74) 300 W (BX78)
Absorption at rest	65 mA
Max power of 24V accessories	20 W

FUSE TABL	.E
To protect:	fuse:
Control board (line)	5A-F
Accessories	1A-F
Command devices	630mA-F

- 1 Power supply terminals
- 2 Line fuse

С

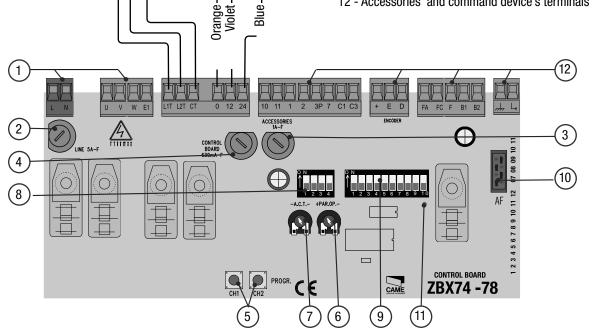
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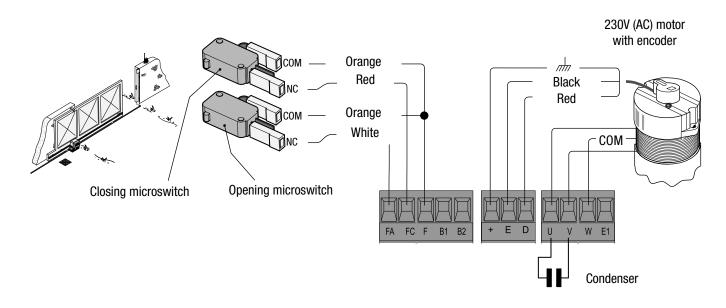
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- 3 Accessory fuse
- 4 Card fuse
- 5 Button for memorising the radio code
- 6 Trimmer PAR.OP.: Partial opening adjustment
- 7 Trimmer ACT.: Automatic closing time adjustment
- 8 Function selector (4) DIP switch
- 9 Function selector (10) DIP switch
- 10 Socket for connecting the remote control's
- 11 Radio-code signalling LED indicator
- 12 Accessories' and command device's terminals

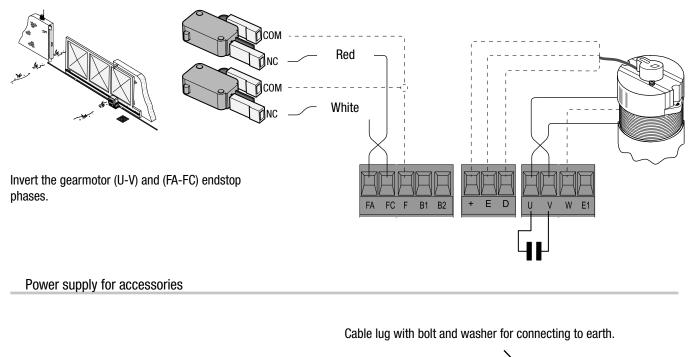


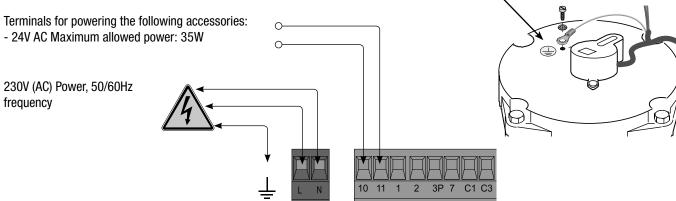
Gearmotor, endstop and encoder

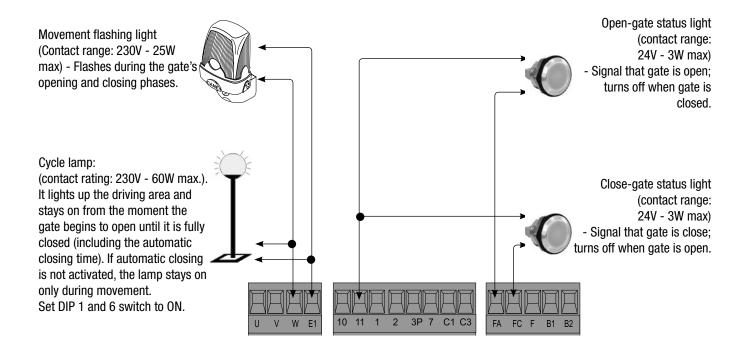
Description of the standard electrical connections for left-hand installations



Modifications to the electrical connections for right-hand installations





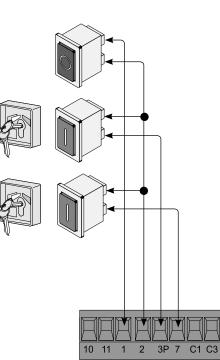


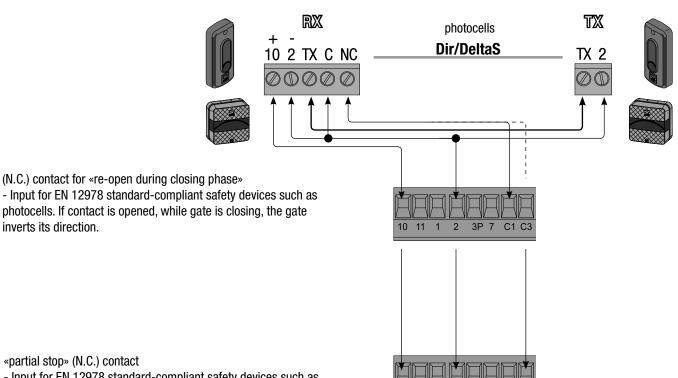
Command and control devices

Stop button (N.C. contact) - Gate stop button. Excludes automatic closing. For motion to resume, press the command button or the remote control button. N.B.: If unused, set DIP 9 switch to ON.

Key selector and/or partial opening button (N.O. contact) - Partial gate opening for pedestrian access.

Key selector and/or command button (N.O. contact) - Gate opening and closing command. By pressing the button or turning the selector key, the gate inverts its movement or stops depending on which the settings on the DIP switches **(A**).



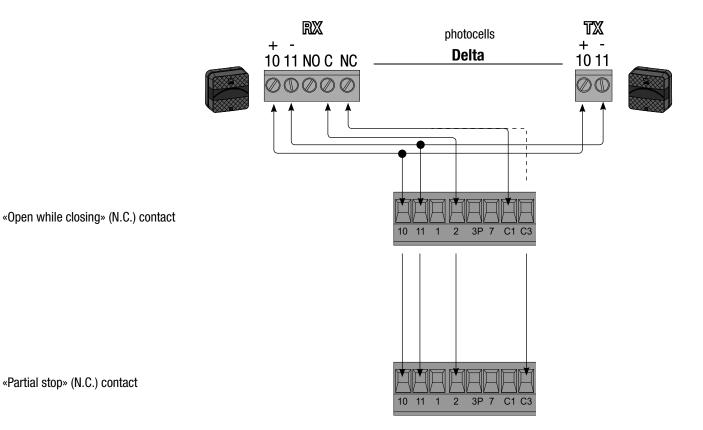


10 11 2 3P C1 C

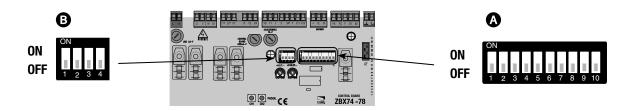
«partial stop» (N.C.) contact

inverts its direction.

- Input for EN 12978 standard-compliant safety devices such as photocells. Gate stops if moving and automatically shuts (if this functions has been selected).



p. 14 - Manual code: FA00127-EN v. 1- 05/2015 - © Came S.p.A. - The manual's contents may be edited at any time without notice.



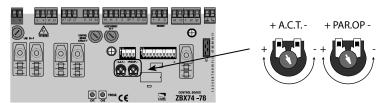
DIP-SWITCH A

- 1 ON Automatic Closing The automatic closing timer activates at the end of the opening gate run. The pre-set time is adjustable, and is in any case conditioned by the activation of any safety devices, and does not activate after a total safety "stop" or during a blackout.
- 2 ON "Open-stop-close-stop" function with [2-7] button and radio transmitter (fitted with inserted radiofrequency card).
- 2 OFF "Open-close" function with [2-7] button and radio transmitter ((fitted with inserted radiofrequency card).
- 3 ON "Open only" function with radio transmitter ((fitted with inserted radiofrequency card).
- 4 ON Maintained action The gate works by keeping button pressed (one 2-3P opening button , and one 2-7 closing button).
- 5 ON Pre-Opening and closing flasher Following and opening and closing command, the flasher connected to [W-E1], flashes for 5 seconds before motion begins.
- 6 ON 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.
- 7 OFF Opening during closing If the photocells detect an obstacle during gate's closing, gate motion is inverted until fully opened; connect the safety device to terminals [2-C1]; if unused, set DIP switch to ON.
- 8 OFF Partial stop Gate stop when obstacle is detected by the safety device; once obstacle is removed, the gate remains still or closes if automatic closing is activated. Connect the safety device to terminal [2-C3]; if unused, set the DIP switch to ON.
- 9 OFF Total stop This function stops the gate and then excludes any automatic closing cycle; to set in motion again, use either the keypad or transmitter. Insert the safety device in [1-2]; If unused, set DIP switch to ON.
- 10 OFF Limit switch slowing activated

DIP-SWITCH **B**

- 1 ON Closing only with command device connected on contact 2-7.
- 1 OFF Open-close with command device connected on 2-7 (see Dip Switch 2 (2)).
- 2 ON Only opening with command device connected on contact 2-3P.
- 2 OFF Partial opening with control device connected on contact 2-3P. If the automatic closing is deactivated but we still want it after a partial opening (for a set time of 8"), turn the ACT. trimmer entirely towards +.
- 3 ON Optical reader deactivated; to program deceleration you need to activated the optical reader.
- 4 ON disconnected
- NOTE: make selections when motor is stopped and in the closed position.

6.5 Settings



Trimmer ACT. =Sets the waiting time while open. Once this time has elapsed, closing automatically takes place. The waiting time may be set from 1 to 120 seconds.

Trimmer PAR.OP. = Sets the gate's partial opening. By pushing the partial opening button connected at 2-3P, the gate will open for a set time between 0 and 16 seconds.

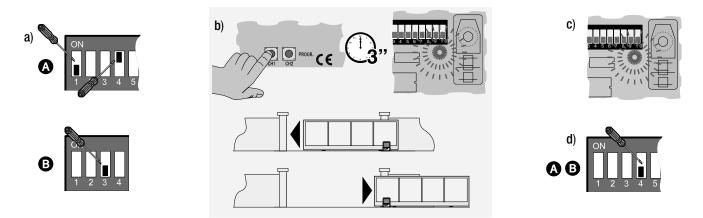
So as to fully meet the compliance requirements established by European Standards EN 12445 and EN 12453 on matters concerning maximum impact forces, BX-74/78 is set up for deceleration at 50 cm from the opening and closing endpoints. When installing all you need to do is program the gate operation as follows:





Before proceeding, set all the DIP SWITCHES to OFF (Dip Switches)

- a) Set Dip Switch 4, 7, 8 and 9 to ON (Dip Switch) and Dip Switch 3 e to OFF (dip-switch, optical reader);
- b) press CH1 until the red LED starts flashing (after about 3 secs). After which, the gate will fully open and close.
- c) when the led stays on, this means the programming procedure is finished;
- d) reset the DIP SWITCHES to the previous setting, which is determined by the selection of functions (see parag. 6.4 on p. 14).



The decelerated gate operation speed may be changed by simply pressing CH1 (to reduce it) or CH2 (to increase it) while the operator is decelerating.

NOTE: When the card is initially activated, the PROG LED will flash rapidly, and in so doing signalling that the card is not programmed; once programmed the LED will remain off.

To exclude decelerations, set Dip Switch 10 to ON.

If power is cut off during gate closure operation and decelerations have been activated, once the power comes back on, the operator always and for safety reasons, will perform a full, decelerated opening and closing cycle.

6.7 Modifying the Re-closing Partial Stop during opening

With BX-74/78 you can change the function of the Re-closing Partial Stop during opening, which is connected on 2-C3.

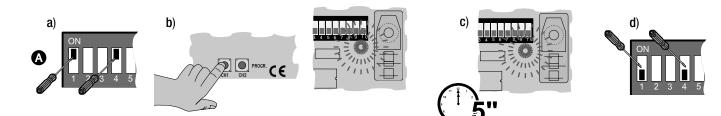
To activate it, do the following:

- a) Set Dip Switch 1 and 4 on ON;
- b) press CH1: the red LED will start to flash;
- c) when the LED stays lit up (after about 5 secs) this means that the procedure is finished;
- d) reset the DIP SWITCHES to the previous setting, which is determined
- by the selection of functions (see parag. 6.4 on p. 14).

N.B.: to go back to the default selection, follow the same procedure but press CH2.

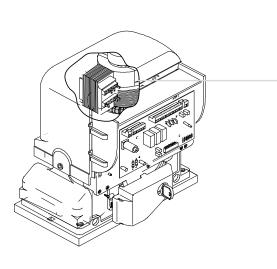


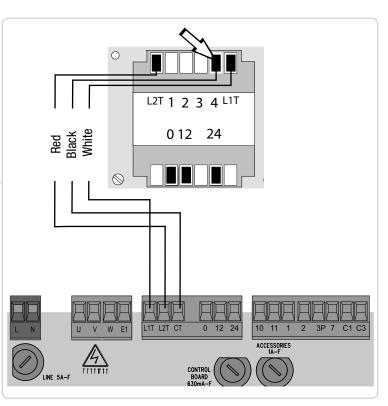




6.8 Motor torque limiter

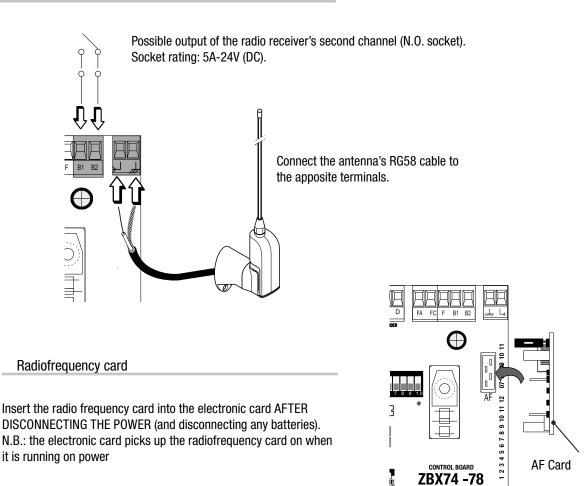
To vary the motor torque, move the shown faston (the one with the black wire) to one of the 4 positions: 1 min – 4 max.





7 Activating the radio command

Antenna



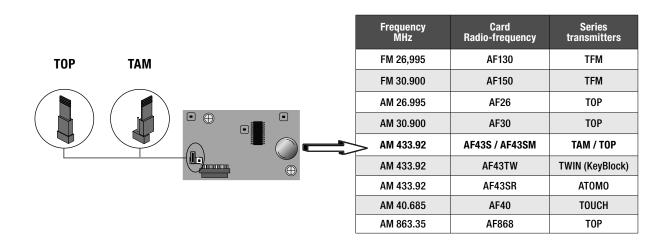
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Radio frequency card
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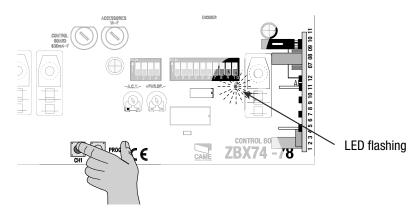
Only for the AF43S / AF43SM radi-frequency cards.

- position jumper as shown depending on the series of transmitters you are using.



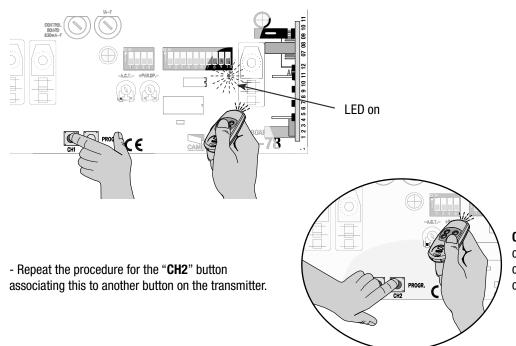
Memorisation

- Keep the CH1 button on the electronic card pressed. The led flashes.



CH1 = Channel for direct command to a function of the gearmotor's card, ("open only/"open-close-invert" or "open-stop-close-stop" vommand, depending on the choice made on DIP switches 2 and 3 O).

- Press the transmitter button you wish to memorise. The LED will stay on to show memorisation has been successful.

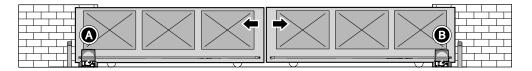


CH2 = Channel for direct command to an auxiliary device connected to B1-B2 or for the control of two paired motors.

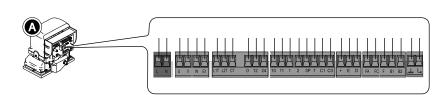
8 Connecting two coupled gearmotors having a single control

With two coupled gearmotors, you can command only the opening (by button and/or radio control): the gate will close only in automatic closing mode.

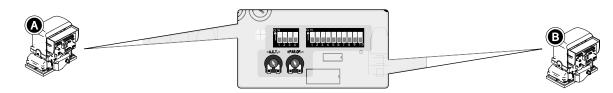
• Coordinate the direction of travel of the two gearmotors (A) and (B), by modifying the motor's rotation (B) (invert the cables on terminals FA-FC and U-V).



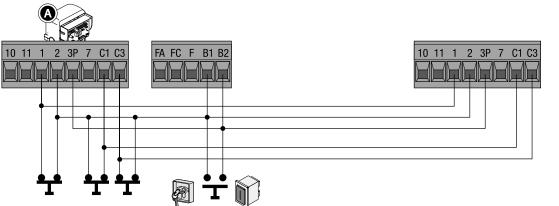
• Make the electrical connections only on the motor's control board **(a)**.



• Whereas, the adjustments and features, must be made on both boards.

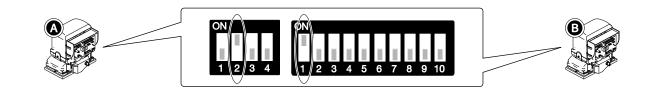


• Connect the two boards together, as illustrated.



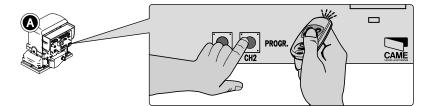


• Set DIP 2 and 1 to ON on both boards.



• Fit the AF board only into the gearmotor's board **(a)**.

The transmitter button for opening must be memorized on the gearmotor's channel CH2 (



10 Maintenance

10.1 Periodic maintenance

Periodic maintenance to be carried out by the end-user is as follows: wipe clean the glass surface of the photocells; check that the safety devices work properly; remove any obstructions.

We suggest checking the state of lubrication and tightness of the anchoring screws on the operator.

-To check the efficiency of the safety devices, move an object in front of the photocells when gate is closing. If the operator inverts the motion or stops, the photocells are working properly.

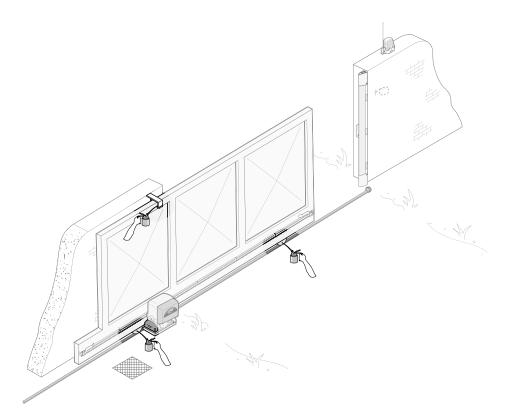
This is the only maintenance procedure to be carried out with the power source connected.

-Before performing any maintenance procedures, cut off the main power, to prevent possible accidents due to gate movement.

-To clean the photocells use a water dampened cloth. Do not use solvents or other chemical products which may ruin the devices.

-In the event of any strange vibrations or squeaking, lubricate the joints with grease, as shown in the diagram.

-Make sure there are no plants within the photocell's beam, and that the gate motion is free of any obstacles.



10.2 Trouble shooting

MALFUNCTIONS	POSSIBLE CAUSES	CHECK AND REMEDIES
The gate will not open nor close	 There is no power The gearmotor is in release mode and the release door is open The transmitter's batteries are run down The transmitter is broken The stop button is either stuck or broken The opening/closing button or the key selector are stuck Fhotocells in partial stop mode 	 Check that the power is up Block the gearmotor Replace batteries Call assistance Call assistance Call assistance Call assistance Call assistance
The gate opens but will not close	 The photocells are engaged Sensitive edge triggered 	 Check that photocells are clean and in good working order Call assistance
The gate closes but will not open	Sensitive edge triggered	Call assistance
The flasher does not work	• The bulb is burnt	Call assistance

Date	Notes	Signature

10.3 Extra-ordinary maintenance

The following table serves to note down any extraordinary maintenance, repairs or improvements performed by specialised firms. N.B.: Any extraordinary maintenance must be performed by specialised technicians.

Extra-ordinary maintenance log

Installer's stamp	Operator name
	Date of job
	Technician's signature
	Requester's signature
Job performed	
Installer's stamp	Operator name
	Date of job
	Technician's signature
	Requester's signature
Job performed	
Installer's stamp	Operator name
	Date of job
	Technician's signature
	Requester's signature
Job performed	·

Installer's stamp	Operator name
	Date of job
	Technician's signature
	Requester's signature
Job performed	
Installer's stamp	Operator name
	Date of job
	Technician's signature
Job performed	Technician's signature
Job performed	Technician's signature

11 Phasing out and disposal

CAME S.p.A. employs a UNI EN ISO 14001 certified and compliant environmental protection system at its plants, to ensure that environmental safeguarding.

We ask you to keep protecting the environment, as CAME deems it to be one of the fundamental points of its market operations strategies, by simply following these brief guidelines when disposing:

DISPOSING THE PACKING MATERIALS

The packing components (cardboard, plastic, etc.) are solid urban waste and may be disposed of without any particular difficulty, by simply separating them so that they can be recycled.

Before actions it is always advisable to check the pertinent legislation where installation will take place.

DO NOT DISPOSE OF IN NATURE!

DISPOSING OF THE PRODUCT

Our products are made using different types of materials. The majority of them (aluminium, plastic, iron, electric cables) can be considered to be solid urban waste. They may be recycled at authorised firms.

Other components (electrical circuit board, remote control batteries etc.) may contain hazardous waste.

They must, thus, be removed and turned in to licensed firms for their disposal.

Before acting always check the local laws on the matter.

DO NOT DISPOSE OF IN NATURE!

12 DECLARATION OF CONFORMITY

Declaration C \in - Came S.p.A. declares that this device complies with the essential requirements and other relevant provisions established in Directives 2006/42/EC and 2004/108/EC.

A true copy of the declaration of conformity is available upon request.

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