

119GU40EN

AUTOMATION FOR STREET BARRIERS

GARD 8 SERIES



INSTALLATION MANUAL

G2080Z - G2080IZ



English



"IMPORTANT SAFETY INSTRUCTIONS FOR INSTALLATION"

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

1 Legend of symbols



This symbol indicates sections to be read with particular care.



This symbol indicates sections concernig safety.

This symbol indicates notes to communicate to users.

2 Destination and limits of use

2.1 Destination

The GARD 8 automatic barrier was designed for use in private or public carparks, in residential areas or in highly trafficked areas.

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

2.2 Limits of use

Passage width of up to 7.60 meters with a 4- to 8-second aperture time.

3 Standard followed

Came Cancelli Automatici is ISO 9001:2000 and ISO 14001 Quality and Environmentally certified. Came entirely designs and manufactures its products in Italy. The product in question compliant to the following legislation: see Declaration of Compliance.

4 Description

4.1 Gearmotor

GARD 8 was designed and manufactured by CAME CANCELLI AUTOMATICI S.p.A. and is compliant with safety regulations in force.

The cabinet is made of 2.5 mm painted galvanized steel or 2 mm AISI 304 satin-finish stainless steel. Inside the cabinet, the electromechanical gearmotor operates with a container for electric board and transformer.

Built with a anti-shearing safety system, it includes a safety contact in the inspection hatch lock.

There are two versions of the GARD 8 model:

G2080Z - painted galvanized steel automatic barrier with a 24V DC gearmotor with control panel;

G2080IZ - satin-finish AISI 304 stainless steel automatic barrier with 24V DC gearmotor with control panel;

The GARD 8 automation system is supplied with the following accessories:

G02000 - white-painted tubular aluminium rod, 2m (Ø 100 mm) complete with transparent slot cover;

G04000 - white-painted tubular aluminium rod, 4m (Ø 100 mm) complete with transparent slot cover;

G06000 - white-painted tubular aluminium rod, 6m (Ø 100 mm) complete with transparent slot cover;

G02040 - Ø 40 (yellow) balancing spring:

G04060 - Ø 50 (green) balancing spring;

G06080 - Ø 50 (green) balancing spring;

G06802 - Reinforcement for boom

G06803 - Telescopic joint and additional insert to attach the bar (this is obligatory for accesses of over 3.6m);

LB38 - Board for the connection of three 12V-6Ah emergency batteries;

The following accessories are optional to the GARD 8 automation system:

G02801 - Flashing dome lamp;

G02802 - Support for mounting the photoelectric cell (DIR) onto the cabinet (not applicable to barriers with bar and rack and/or mobile foot);

G02805 - Emergency battery housing support;

G028401 - Luminous cord for movement signalling:

G028402 - Luminous cord connecting cable;

G02807 - Fixed barrier support (obligatory for accesses of over 4m):

G02808 - Mobile barrier support (obligatory for accesses of over 4m):

G02809 - Red reflector strips (package of 20);

G0465 - Aluminium skirt (2 m modules);

G028011 - Door break-out bar bracket.

WARNINGS!

001G02802 Not for barriers fitted with 001G0465 skirt or 001G02808 swing-leg.

001G02808 For passage widths of max 7 m.

001G02807 For passage widths of over 7 m the swing-leg is mandatory.

001G0465 - 001G02808 cannot be used together.

Important! Check that the safety equipment and accessories are CAME originals; this is a guarantee that also makes the system easy to set up and upkeep.

2 - Manual code: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

4.2 Technical information

GEARMOTOR

Power supply: 230V A.C. 50/60Hz Motor power supply: 24V D.C. 50/60Hz Max. absorption: 1.3A (230V) / 15A (24V)

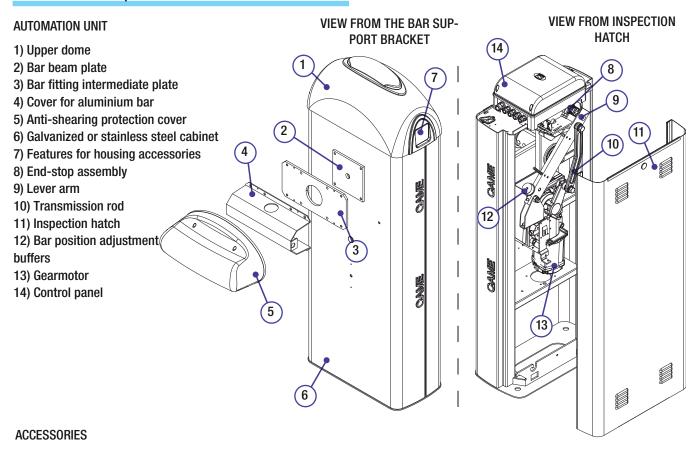
Rated power: 300W Max. torque: 600 Nm Reduction ratio: 1/202 Opening time: 4÷8 s

Operative intermittence: intensive operation

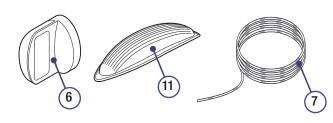
Protection level: IP54 Weight: 91kg Insulation class: I

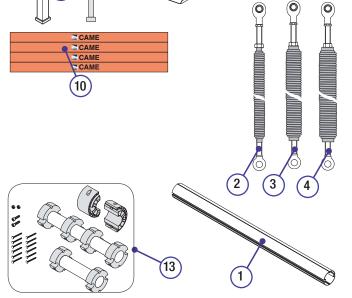


4.3 Parts description



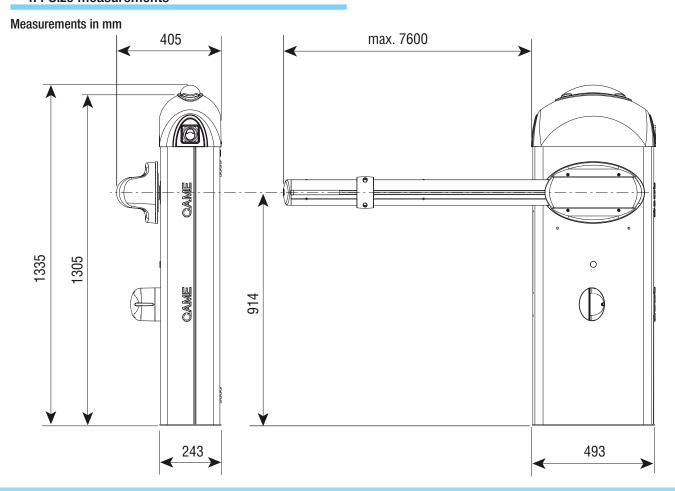
- 1) G02000/G04000 aluminium bar, painted white, Ø 100 mm
- 2) G02040 Ø40 (yellow) balancing spring
- 3) G04060 Ø50 (green) balancing spring
- 4) G06080 Ø55 (red) balancing spring
- 5) G02806 Rack
- 6) G02802 Support for DIR photoelectric cells
- 7) G028401 Luminous cord
- 8) G02807 Fixed barrier support
- 9) G02808 Mobile barrier support
- 10) G02809 Adhesive reflector strips
- 11) G02801 Flashing dome lamp
- 12) G02805 Emergency battery housing support
- 13) G06803 Telescopic joint and additional insert to attach the bar





3 - Manual code: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

4.4 Size measurements



5 Installation



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

5.1 Preliminary checks

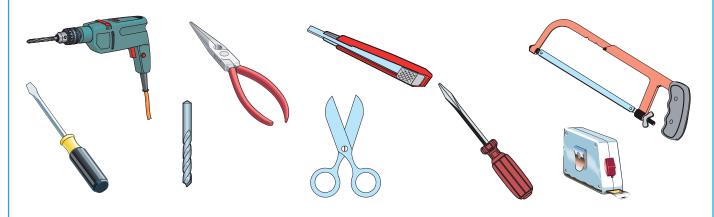


A Before proceeding with the installation, it is necessary to:

- Make sure the area selected for the mounting of the base and for the unit itself presents no hazards;
- Provide for suitable omnipolar disconnection device with more than 3 mm between contacts to section power supply;
- Connections inside the case made for protection circuit continuity are allowed as long as they include additional insulation with respect to other internal drive parts;
- Install suitable tubes and ducts for electric cable passage to guarantee protection against mechanical damage;

5.2 Tools and materials

Make sure all tools and materials necessary are within reach to install the edge in maximum safety, according to regulations in force. The following figure illustrates the minimum equipment for the installer.



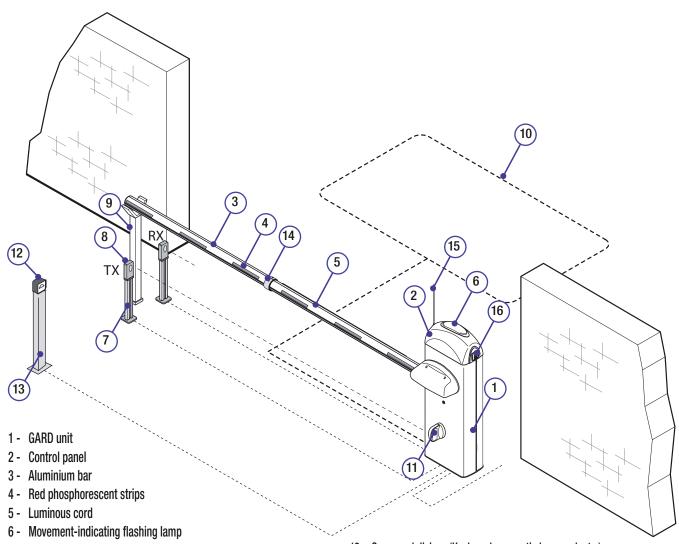
Pag. 4 - Manual code: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

5.3 Cable list and minimun thickness

Connections	Type of cable	Length of cable 1 < 10 m	Length of cable 10 < 20 m	Length of cable 20 < 30 m		
Alimentazione 230V		3G x 1,5 mm ²	3G x 2,5 mm ²	3G x 4 mm ²		
Photoelectric cells TX	FROR CEI 20-22	2 x 0,5 mm ²	2 x 0.5 mm ²	2 x 0,5 mm ²		
Photoelectric cells RX	CELEN	4 x 0,5 mm ²	4 x 0,5 mm ²	4 x 0,5 mm ²		
24V power supply accessory	50267-2-1	2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 1 mm ²		
Safety and control divices		2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 0,5 mm ²		
Antenna connection	RG58	max. 10m				
Metallic mass detector		(see documents provided with product)				

N.B.: An evaluation of the size of the cables with lengths other than the data in the table must be made based on the effective absorption of the connected devices, according to the instructions indicated by the CEI EN 60204-1 standards. For connections that require several loads on the same line (sequential), the size given on the table must be re-evaluated based on actual absorption and distances.

5.4 Standar installation



7 - Column for photoelectric cells8 - Photoelectric cells

10 - Magnetic sensor

. 5 - Manual code; 119GU40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

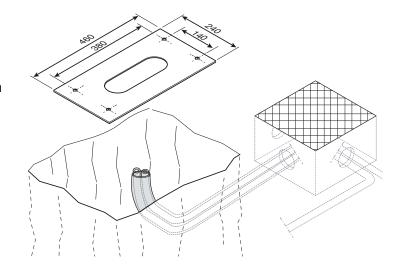
- 9 Fixed barrier support
- 11 Photoelectric cell support

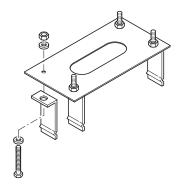
- 12 Command divices (Keyboard, magnetic key, card, etc.)
- 13 Column for reader
- 14 Joint for rod
- 15 Antenne
- 16 Key-operated selector switch

5.5 Fitting for unit base

The following applications are only examples, as the space required for unit installation and the accessories vary depending on dimensions and therefore it is up to the installer to select the best solution.

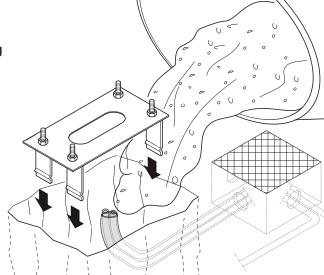
 Prepare a hole to house the fixing base and prepare sheath tubes from the branch pit for the connections.
 N.B. the number of tubes depends on the type of system and the accessories you will hook up.

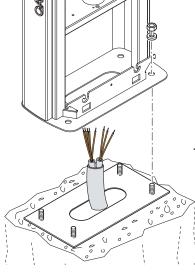




- Assemble the four anchoring clamps at the base.

 Fill the hole with concrete and immerge the clamps and the fixing base, paying particular attention to the sheath tube which must go through the hole at the base. The base must be perfectly level, clean and with the screw threads fully on the surface.
 Wait until everything is solidified – at least 24 hours.

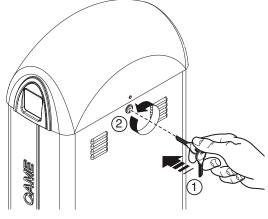


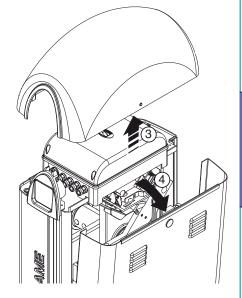


Remove the nuts and washers from the threaded screws, position the cabinet on the base in correspondence with the 4 threaded screws and secure with the nuts and washers.
 Note: We recommend installing the cabinet with the inspection hatch facing the internal area.

5.6 Installation of the Unit

- Open the door with the proper key, remove the top dome and take out the inspection door.





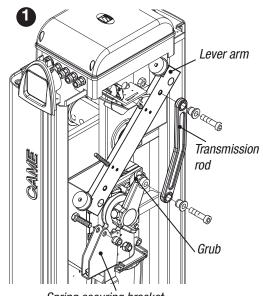


- The barrier is designed to be installed on the left of the gateway as seen from inside.

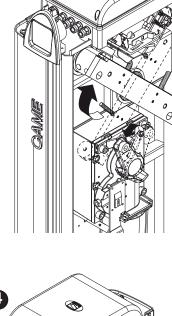


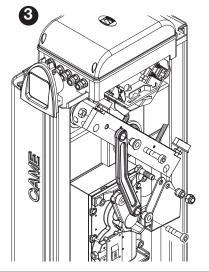
Should installation on the right be required, the direction of the bar's opening must be inverted. Proceed in the following manner:

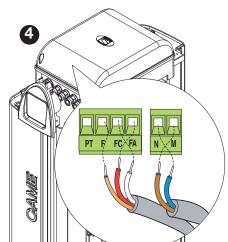
- remove the spring securing bracket and the transmission rod from the lever arm;
- loosen the motor support grub screw;
- rotate the lever arm by 90°;
- Fix the spring securing bracket and the transmission rod on the side opposite that of lever arm;
- tighten the grub screw;
- invert the motor's M-N phases and the FA and FC endstop wires on the control panel terminal.

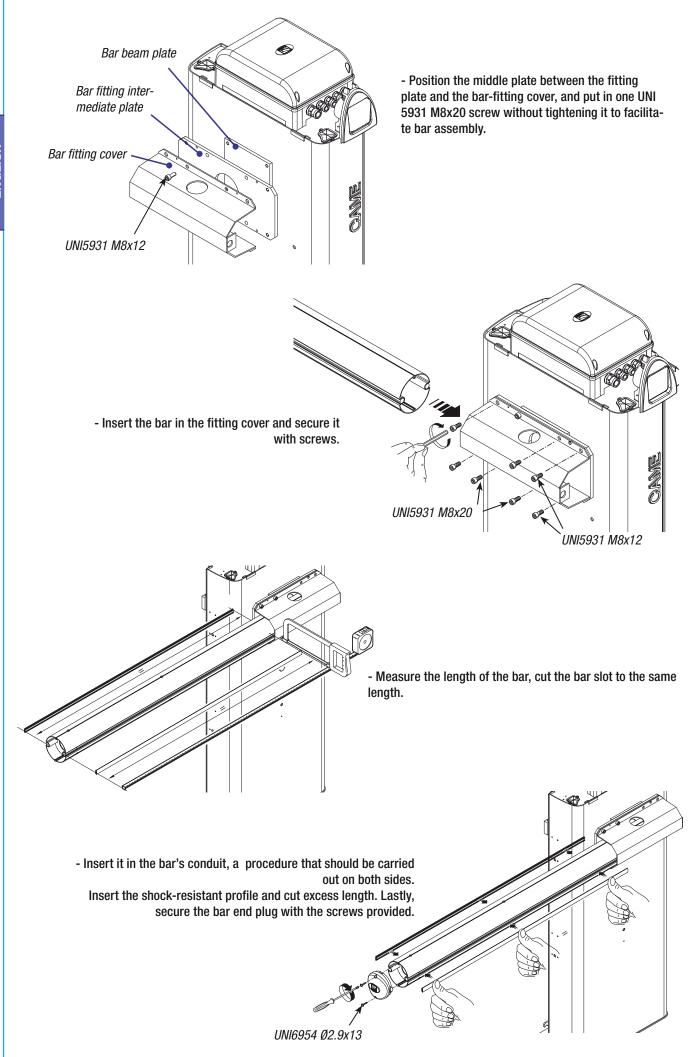






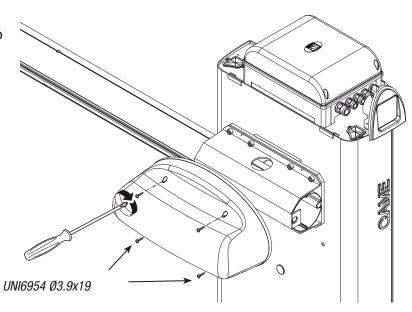






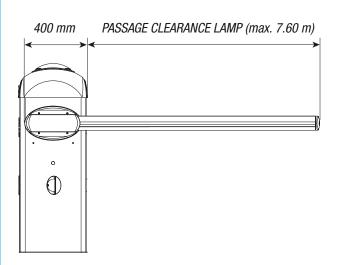
Pag. 8 - Manual code: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

- Tighten the anti-shearing protection cover to the bar fitting with UNI6954 Ø3.9x19 screws.



5.7 Bar balancing

- Prior to bar balancing, select a suitable spring depending on the situation at hand. See table below:



SPRING TYPES

Spring G02040 $\emptyset_e = 40 \text{ mm}$

Spring G04060 $\emptyset_e = 50 \text{ mm}$

Spring G06080 $\emptyset_e = 55 \text{ mm}$

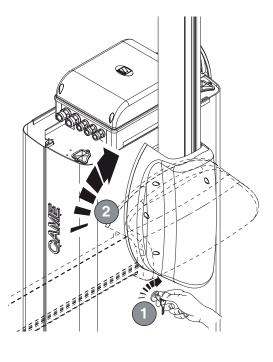
Passage clearance lamp (m)

9 - Manual code; 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

2.0 2.5 **3.0** 3.5 **4.0** 4.5 **5.0** 5.5 **6.0** 6.5 **7.0** 7.6

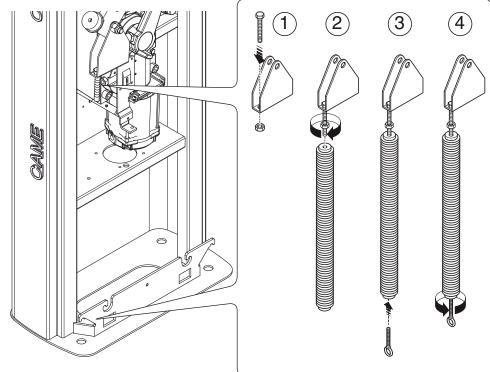
Bare bar*	first spring						
Date Dat	second spring						
Bare bar* + mobile barrier support	first spring						
Dare bar + mobile barrier support	second spring						
Bare bar* + luminous cord	first spring						
Daie Dai + Iulillious Colu	second spring						
Bare bar* + luminous cord + mobile barrier sup-	first spring						
port	second spring						
Bare bar* + rack	first spring						
Date bat + tack	second spring						
Bare bar* + rack + luminous cord	first spring						
Date bat + rack + tuttillous cord	second spring						

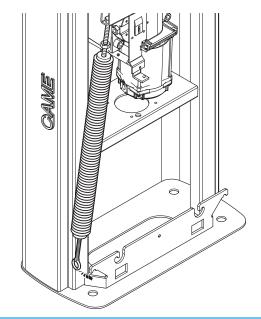
^{*} By Bare bar we mean a bar complete with the transparent slot cover and end plug.



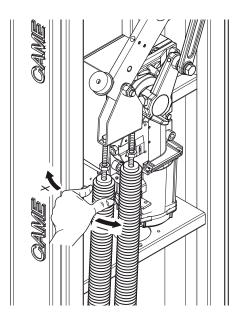
- Release the gearmotor and position the bar vertically, and then refasten the gearmotor.

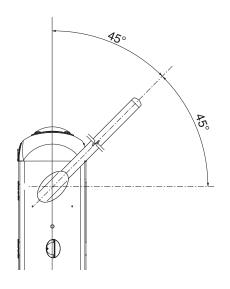
- Insert the UNI5739 M12X70 screw into the spring securing bracket and tighten the UNI5588 M12 nut to the screw (1-2). Tighten the screw to spring (2) and the tie rod to the part underneath (3-4).

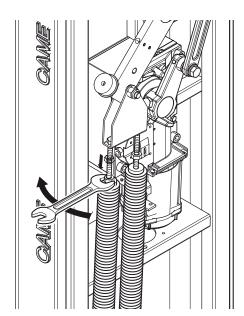




- Hook the tie rod to the anchoring racket. Perform the same procedure if there is a second screw. Release the gearmotor and manually turn the spring to increase or decrease traction until the bar rests at 45°.







- Tighten the blocking nut and refasten the gearmotor. Note: make sure the spring functions properly:
- the spring is loose when the bar is in the vertical position (at rest)
- the spring is tight when the bar is in the horizontal position (tense).
- Perform any electrical connections to the control panel (see electrical connections paragraph).

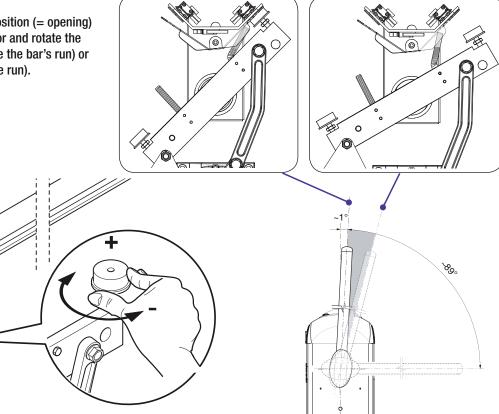
5.8 End stop adjustment

N.B.: perform this procedure after finishing the electrical connections.

Close the door and power up the system, activate the barrier to make sure it is parallel with the closed and at about 89° when open.

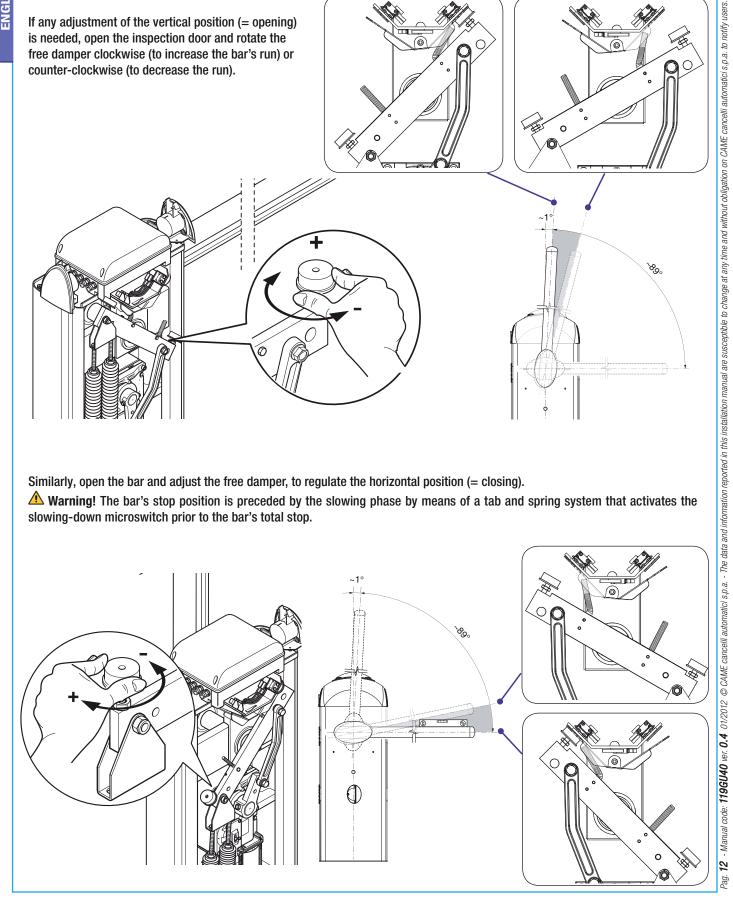
Marning! For greater safety and better unit performance, the bar's opening and closing operations should be carried out with the inspection hatch closed!

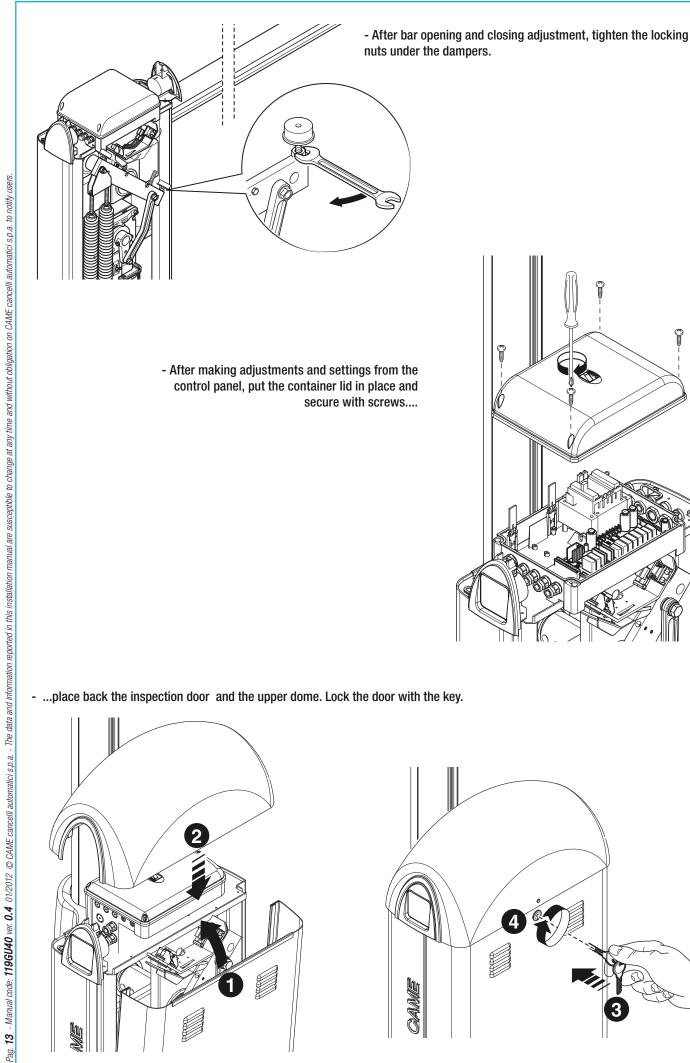
If any adjustment of the vertical position (= opening) is needed, open the inspection door and rotate the free damper clockwise (to increase the bar's run) or counter-clockwise (to decrease the run).



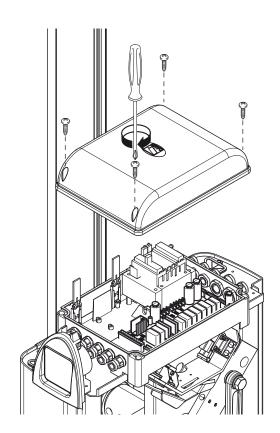
Similarly, open the bar and adjust the free damper, to regulate the horizontal position (= closing).

Marning! The bar's stop position is preceded by the slowing phase by means of a tab and spring system that activates the slowing-down microswitch prior to the bar's total stop.

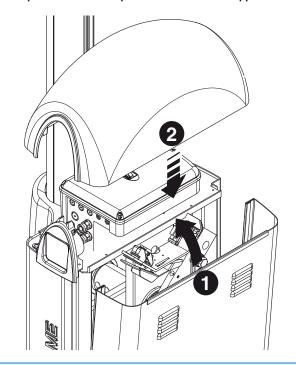


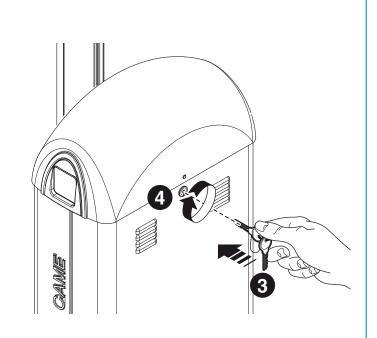


- After making adjustments and settings from the control panel, put the container lid in place and secure with screws....



- ...place back the inspection door and the upper dome. Lock the door with the key.



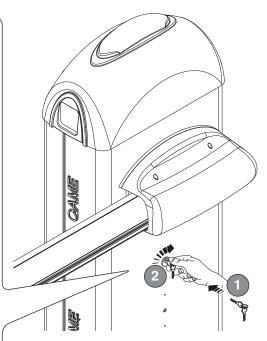


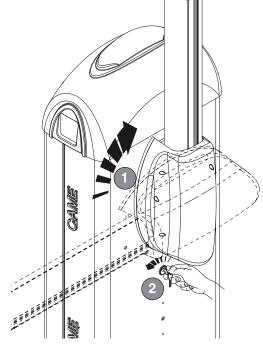
5.9 Manual release of the barrier

- Insert the key into the lock and turn it clockwise. Manually raise the bar and block it again by turning the key counter-clockwise.



WARNING! The release procedure may constitute a hazard for the user when, for whatever reason — the bar is fixed improperly to the housing during assembly, or the bar is cracked or broken in an accident, and so on — the tension springs no longer provide balance! These can thus cause a brusque rotation of the bar attachment and/or of the bar itself.





6 Description control panel

This product is engineered and manufactured by CAME cancelli automatici s.p.a. and complies with current safety regulations.

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

Both command and control devices and accessories are 24V powered. Warning! Accessories must not exceed 40 W overall.

The control unit is fitted with an amperometric device which constantly regulates the motor's drive coefficient.

When the bar runs into an obstacle, the amperometric sensor immediately detects an overcharge in the drive and redirects the gate's direction of movement, and:

- during opening: the bar stops;
- during closing: the bar reverses its direction until it opens completely; automatic closure is thus activated.

<u>Caution!</u> after three consecutive direction reversals, the bar will remain up and automatic closure will be discontinued. To close the gate, use the radio remote control or the push-button.

All connections are protected by quick fuses, see table.

The card provides and controls the following functions:

- automatic closing after an open-command;
- immediate closure;
- pre-flashing by the motion indicator;
- obstacle detection when gate is still in any position;
- slave function;
- function that increases the braking action of the barrier.

The following command modes are possible:

- open/close;
- open/close and maintained action;
- open;
- complete stop.

Apposite trimmers regulate:

- the automatic closing run time;
- the amperometric device's detection sensitivity;

Optional accessories:

- Flashing Crown and Luminous band.
- bar open light marks the position of opening of the bar; it turns off after the closing operation;
- LB38 Card, provides power supply through a battery, in case of a power outage. When power comes back on, it also recharges the batteries (see relative technical literature).

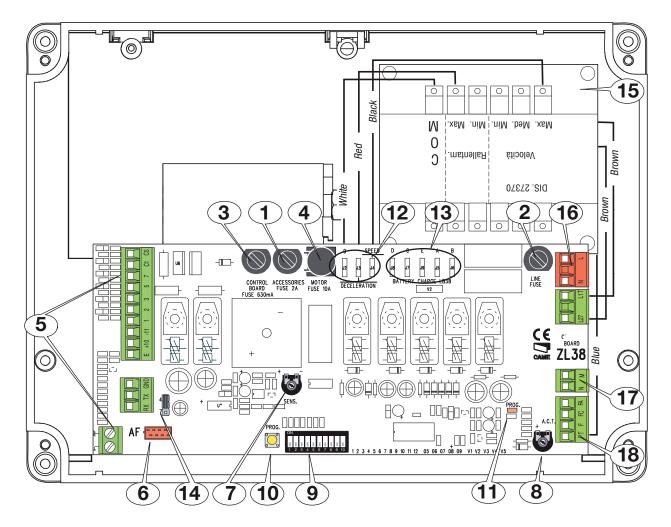
Warning! Before acting on the machinery, cut off the main power supply and disconnect any emergency batteries.

TECHNICAL FEAT	URES
Power supply	230 V - 50/60 Hz
max. rated power	400 W
Power draw when idling	25 W
Max power of 24V accessories	40 W
Insulation rating	II
Material	ABS
FUSES	
protection:	fuse type:
Motor/s	10 A-F
Electronic board (power supply line)	3.15 A-F
Accessories	2 A-F
Control devices	630 mA-F

6.1 Main components

- 1 Accessories fuse
- 2 Line fuse
- 3 Control unit fuse
- 4 Motor fuse
- 5 Accessories terminals
- 6 Radio-frequency card input (see table page 19)
- 7 SENS Trimmer: adjusts amperometric sensitivity
- 8 TCA Trimmer: adjusts automatic closing time
- 9 "Function selector" Dip switch

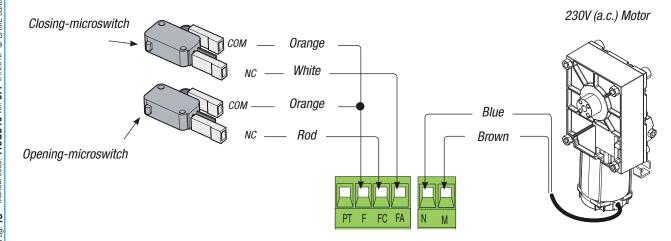
- 10 Code storing button
- 11 Signalling LEDs for radio codes/automatic closing
- 12 Adjustment connectors for deceleration speed
- 13 Connectors for LB38 battery charger
- 14 Command-type selection jumper for button 2-7
- 15 Transformer
- 16 Power supply Terminals
- 17 Motor Terminals
- 18 Endstop Terminals



6.2 Electrical connections

Gearmotor, mechanical stops

Description of required electrical connections. When installing on the right side, see page 7.



Pag. 15 - Manual code: 1196040 ver. 0.4 01/2012 © CAME cancelli automaticis p.a. . The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

Power supply

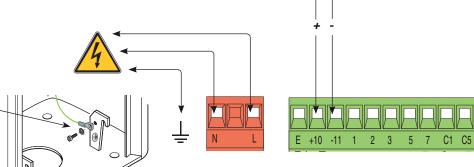
Terminals for powering the following accessories:

- 24V a.c. (normally alternated power);
- 24V a.c. (continuous power) when the emergency batteries are in operation;

Overall power allowed: 40W

Power supply 230V (a.c.) 50/60 Hz

Cable lug with bolt and washer for connecting to earth



Command devices

Stop button (N.C. socket) - Bar stop button. Excludes automatic closing. For motion to resume, press the command button or the remote control button.

If not used, set Dip 9 to ON.

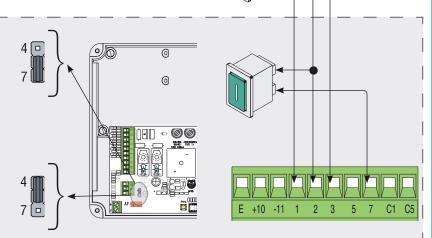
Opening button (N.O. contact) - Bar opening command.

Command button (N.O. contact) - Bar opening or closing button. By pressing on the button, the bar opens or inverts its movement depending on the selection made on Dipswitch 2.

Check setting of the Jumper (n. 14, page 15), as per figure..

Closing button (N.O. contact) - Bar closing command. Obligatory in the event of "maintained action" function.

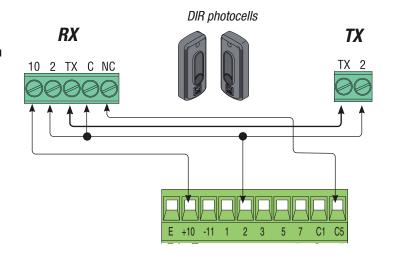
Set jumper according to figure.



(N.C.)Contact for "immediate closing"

- Automatic bar closing after an obstacle comes within the range of the safety devices.

If not used, set Dip 8 to ON.



16 - Manual code: 119GU40 ver. 0.4 01/2012 © CAME cancelli automaticis p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automaticis p.a. to notify users.

Warning devices

Flashing Crown and/or Luminous band (Contact rating: 24V - 32W max.) - Flashes when bar is opening and closing.

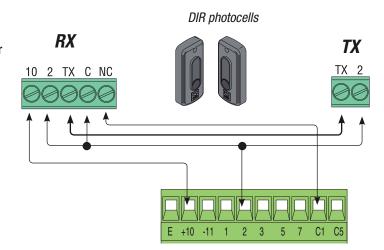


Safety devices

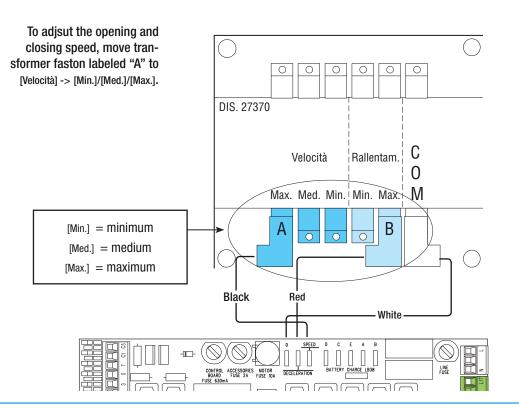
(N.C.) contact for «re-open during closing phase»

- Input for safety devices such as photocells, sensitive edges and other EN 12978 compliant devices. When bar leaves are closing, opening the contact causes reversal until total opening is obtained.

If not used, short circuit contact 2-C1.



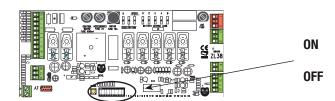
6.3 Adjusting movement and deceleration speeds



To adjsut the decelerations, move the faston "B" to [Rallentam.] -> [Min.]/[Max.].

Pag. 17 - Manual code: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

ENGLISH

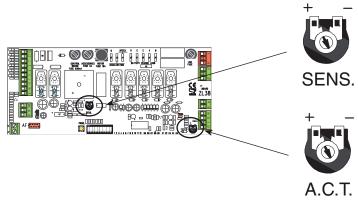


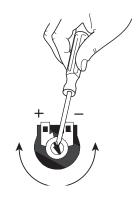
Default setting



- 1 ON **Automatic closing** the automatic closing timer is activated when on opening the bar leaf has reached the full open stroke. The time is preset and adjustable, and is subject to the action of any safety devices. It does not activate after a total safety "stop" or during a power outage (1 OFF deactivated);
- 2 OFF "Open-close" function with button [2-7] and remote control (with built-in radiofrequency card).
- 2 ON "Open only" function with remote control (featuring built-in radiofrequency card.
- 3 ON 24V power output on contact (10-E) bar in motion and in open position;
- 3 OFF- 24V power output on contact (E-10) bar in motion:
- 4 ON *Maintained action* the bar works by keeping the button pressed, one button [2-3] for opening, and one button [2-7] for closing (Set jumper n°14 according to figure pag. 16).
- 5 ON *Pre-Opening and closing flasher* Following and opening and closing command, the flasher connected to [10-E], flashes for 5 seconds before motion begins.
- 6 ON **Obstacle detected** When motor is stopped (bar closed or after a total stop command) it prevents any movement if safety devices, such as photocells, detect any obstacles..
- 7 ON "Slave" function Activate when two barriers are coupled (see connecting two coupled barriers paragraph);
- 8 OFF *Immediate bar closing* Immediately closes bar when obstacle comes within the range of the safety devices. Insert safety device on [2-C5]; if unused set Dipswitch to ON.
- 9 OFF *Total stop* This function stops the bar 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 ON Brake Action increases braking action on the bar when closing (10 OFF deactivated).

6.5 Adjustments





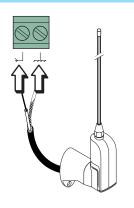
ELENCO TRIMMER DI REGOLAZIONI:

- «A.C.T.» 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.
- «SENS» Sets the amperometric sensitivity that controls the force generated by the motor during movement; if the force exceeds the set level, the system intervenes by inverting the direction of motion.

7 Activating the remote control

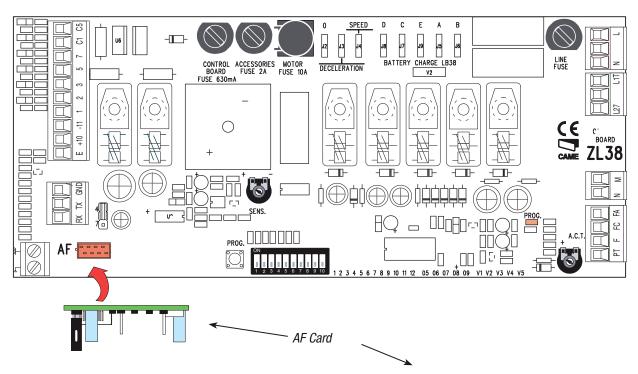
Antenna

Connect the antenna's RG58 cable to the apposite terminals.



Radiofrequency card

Lock the radiofrequency card into the electronic card AFTER CUTTING OFF THE POWER SUPPLY (or after disconnecting the batteries). N.B.: the electronic card only recognises the radiofrequency card when the power is on.



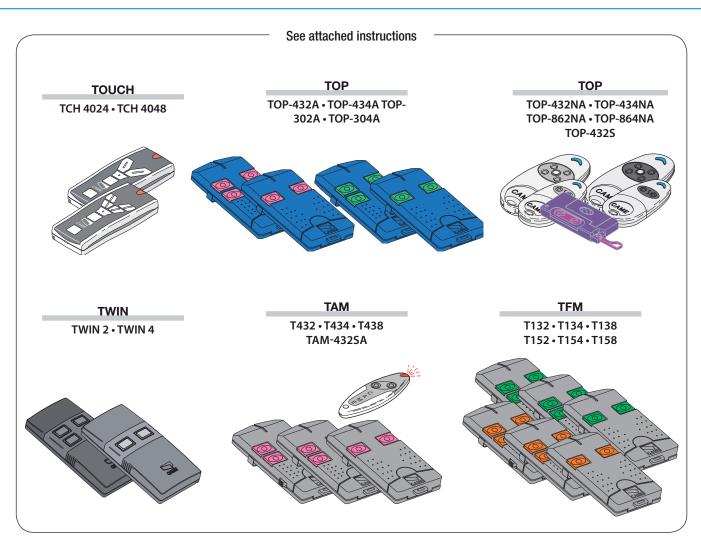
Frequency-MHz	radiofrequency card	Series of transmitters	
FM 26.995	AF130	TFM	
FM 30.900	AF150	TFM	
AM 26.995	AF26	TOP	
AM 30.900	AF30	TOP	
AM 40.685	AF40	TOUCH	
20	AF43S / AF43SM	TAM / TOP	
AM 433.92	AF43SR	АТОМО	
1	AF43S / AF43TW	TWIN	
AM 868.35	AF868	TOP	

Transmitters

Pag. 19 - Manual code: 1196040 ver. 0.4 01/2012 © CAME cancelli automaticis, p.a. 1 The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatics, p.a. to notify users.

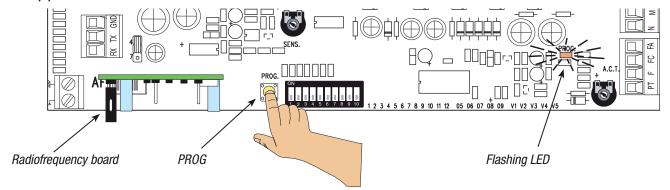


See instructions attached to <u>AF43SR radiofrequency card</u>

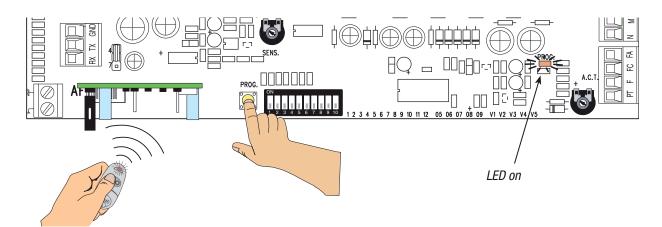


Memorisation

- Keep pressed the PROG button on the electronic card. The LED will flash.

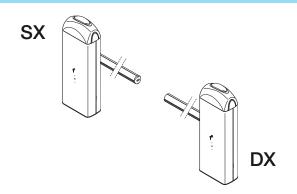


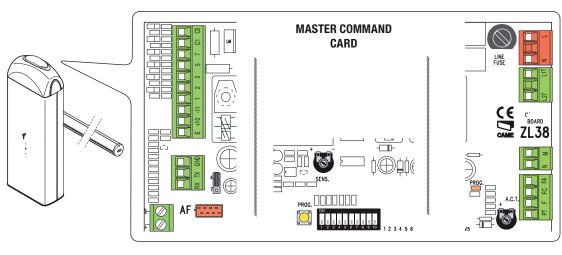
- Press the button of transmitter to memorise. The LED will stay on to signal memorisation.



8 Connecting two coupled barriers to one command

- Determine the Master and Slave barrier.





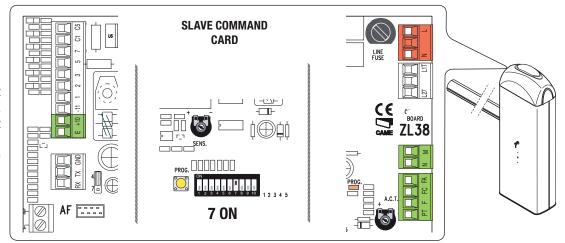
 On the pre-chosen Master command card, perform all the connections (see electrical connections paragraph)

the installation procedure for the remote control, settings and adjustments.

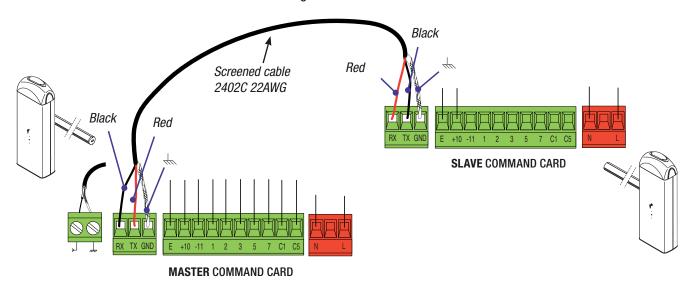
- on the pre-chosen
Slave command
card, set Dipswitch
7 to ON, perform
power connection on
terminal L-N, connect
the device to 10-E
terminal output, adjust
to the same speed and
deceleration as for the
Master barrier.

- Manual code; 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

2



- Perform connection between two command cards through RX-TX GND terminals.



9 Safety instructions

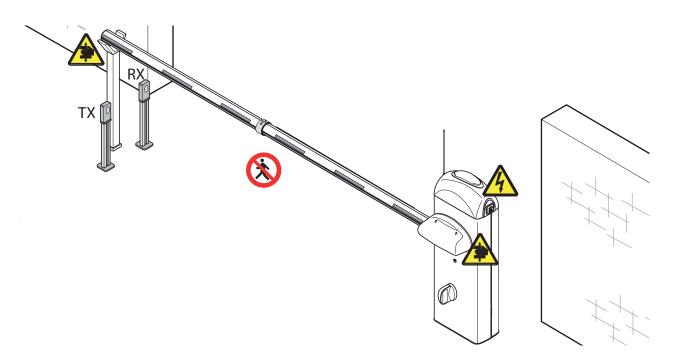


Important safety instructions

This product must only be employed for its originally intended use. Any other use is wrong and potentially dangerous. The manufacturer cannot be held liable for any damages resulting from wrongful, erroneous or negligent uses.

Avoid using near mechanical moving parts. Stay out of the opening/closing arc when operator is in motion.

Do not exercise force against the motion of the operator as this could result in potentially dangerous situations.



Do not allow children to play or loiter within the opening/closing arc of the operator. Keep remote controls and any other command device out the reach of children, to prevent operator from being activated by accident. In the event of anomalous behaviour, stop using the operator immediately.



Danger of crushing hands



Danger! High voltage



No transit during operation

10 Maintenance

10.2 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 obstruction.

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 bar out with the power source connected

- -Before performing any maintenance procedures, cut off the main power, to prevent possible accidents due to bar movement.
- -To clean the photocells use a water dampened cloth. Do not use solvents or other chemical products which may ruin the devices.
- -Make sure there are no plants within the photocell's beam, and that the bar motion is free of any obstacles.



22 - Manual code: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatid s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatid s.p.a. to notify users.

Periodic maintenance log for end-user (every 6 moths)

Date	Notes	Signature

Pag. 23 - Manual code; 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a. - The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

10.2 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
mstanci s stamp	Date of job
	Technician's signature
	Requester's signature
Installer's stamp	Operator name
γ	Date of job
	Technician's signature
	Requester's signature
Inh nerformed	Troquostor o digitaturo
oob portormou	
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	

ijq
100
100
ΛŒ
b
a
me
Ė
anı
at
nde a
lan
C
9
ible
3Dt
SC
ns
are
ali
nu
ma
nc
ati
ta/
ins
ij
t)
7
rte
00
B
101
nat
01
į
pu
aa
dat
26
=
D.a TI
ci s.p.a
ci s.p.a
ci s.p.a
ci s.p.a
celli automatici s.p.a
automatici s.p.a
E cancelli automatici s.p.a
ncelli automatici s.p.a
E cancelli automatici s.p.a
E cancelli automatici s.p.a
E cancelli automatici s.p.a
012 @ CAME cancelli automatici s.p.a
E cancelli automatici s.p.a
012 @ CAME cancelli automatici s.p.a
012 @ CAME cancelli automatici s.p.a
4 01/2012 © CAME cancelli automatici s.p.a
4 01/2012 © CAME cancelli automatici s.p.a
4 01/2012 © CAME cancelli automatici s.p.a
4 01/2012 © CAME cancelli automatici s.p.a
4 01/2012 © CAME cancelli automatici s.p.a
4 01/2012 © CAME cancelli automatici s.p.a
de: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a
code: 1196040 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a
de: 1196U40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a

25

MALFUNCTIONS	REFERENCES	CHECKS
The unit neither opens nor shuts	1-2-3-4-6-8-18	1 - Use key to lock trap door
The unit opens but does not close	4-7-10	2 - Disable "steady movement" with dipswitch
The unit shuts but does not open	4-7-9	3 – Check power supply and fuses
No automatic closure	11-12-13	4 - N.C. safety contacts open (1-2 / 2-C1 / 2-C5)
The unit does not work if the remote control is used	2-14-16	6 - Disable master-slave function
The unit inverts direction	7-18	7 – Check spring tension and balancing
The unit works only with remote control	22	8 – Disable obstacle detection with dipswitch
The photoelectric cell does not react	12-23-24	9 – Check if end stop opens
The signalling LED indicator flashes rapidly	4	10 – Check if end stop closes
The signalling LED indicator remains on	13	11 - Activate "automatic closure" dip switch
The unit does not end its run	7	12 – Check the correct direction of movement
The bar is not properly balanced	7-15	13 - (2-3 / 2-4 / 2-7) command button
The unit does not slow down	7-15	14 -Check jumper on AF43S, turn on/off power
The unit does not work with the back-up batteries	8-25-26	15 – Check the bar length ratio with mountable accessories
The unit is slow to respond	7	16 – Re-save radio code
		18 – Adjust sensitivity
		22 - Enter or duplicate the same code in all the remote controls
		23 – Activate the photoelectric cell with the dipswitch
		24 – Connect the photoelectric cells in a series, not in parallel
		25 – Dead batteries
		26 –Respect the photoelectric cells' polarity

11 Demolition and disposal

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

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

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

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

PLEASE DISPOSE OF PROPERLY!

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

PLEASE DISPOSE OF PROPERLY!



Came Cancelli Automatici s.p.a.

address Via Martiri della Libertà

Dosson di Casier province Treviso

Street n. 15 postal code province Treviso state

state Italia

DECLARES THAT THE PARTLY COMPLETED MACHINERY

location

AUTOMATIC ROAD BARRIERS

G2080Z; G2080IZ; G2081Z; G4040Z; G4040IZ; G4041Z; G2500; G2500N; G2510; G3250; G3750; G3751;

G3000DX; G3000SX; G3000IDX; G3000ISX;

G4000C; G4000D; G4000E; G4000N; G4001; G4001E; G4010; G4011;

G6000; G6000B; G6000E; G6001; G6001E; G6010; G6011;

G6500: G6501:

G12000; G12000A; G120003 G02040; G04060; G06080 G02801; G02803; G03755DX; G03755SX

MEETTHE APPLICABLE ESSENTIAL REQUIREMENTS

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 - 1.4.2.1 - 1.5.1 - 1.5.6 - 1.5.8 - 1.5.9 - 1.5.13 - 1.6.1 - 1.6.3 - 1.6.4 - 1.7.1 - 1.7.2 - 1.7.4

COMPLIES WITH THE PROVISIONS OF THE FOLLOWING DIRECTIVES

DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, and amending Directive 95/16/EC.

DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility.

PERSON AUTHORISED TO COMPILE THE RELEVANT TECHNICAL DOCUMENTATION

Came Cancelli Automatici s.p.a.

address Via Martiri della Libertà

Street n. 15

postal code

31030

location

Dosson di Casier

province Treviso

state Italia

The pertinent technical documentation has been drawn up in compliance with attached document IB

Came Cancelli Automatici S.p.A., following a duly motivated request from the national authorities, undertakes to provide information related to the quasi machines,

and FORBIDS

commissioning of the above mentioned until such moment when the final machine into which they must be incorporated, has been declared compliant, if pertinent, to 2006/42/CE.

Dosson di Casier (TV) 01 Feb 2011

DDIBEN G001 ver. 4.2 01 Febraury 2011
Translation of the Declaration in the original language

Gianni Michielan Managing Director

Came Cancelli Automatici s.p.a.

Via Martiri della Libertà, 15 - 31030 Dosson di Casier - Tieviso - Italy - Tel. (+39) 0422 4940 - Fax (+39) 0422 4941 infedirament - resevente come.

info@came.it - www.came.com

Cap. Soc. 1.610.000,00 € - C.F. e P.L 03481280265 - VAT IT 03481280265 - REATV 275359 - Reg Imp. TV 03481280265

CAMEGROUP



- www.came.com — CAMEWor

www.came.it

CAME France S.a. FRANCE 7, Rue Des Haras Z.i. Des Hautes Patures 92737 Nanterre Cedex ↓ (+33) 0 825 825 874 ☐ (+33) 1 46 13 05 00	GERMANY CAME Gmbh Seefeld Akazienstrasse, 9 16356 Seefeld Bei Berlin (+49) 33 3988390 (+49) 33 39883985
CAME Automatismes S.a. FRANCE 3, Rue Odette Jasse 13015 Marseille 2 (+33) 0 825 825 874 ☐ (+33) 4 91 60 69 05	U.A.E. CAME Gulf Fze Office No: \$10122a2o210 P.O. Box 262853 Jebel Ali Free Zone - Dubai (+971) 4 8860046 (+971) 4 8860048
CAME Automatismos S.a. SPAIN C/juan De Mariana, N. 17-local 28045 Madrid ② (+34) 91 52 85 009 □ (+34) 91 46 85 442	RUSSIA CAME Rus Umc Rus Llc UI. Otradnaya D. 2b, Str. 2, office 219 127273, Moscow (+7) 495 739 00 69 (+7) 495 739 00 69 (ext. 226)
CAME United Kingdom Ltd. GREAT BRITAIN Unit 3 Orchard Business Park Town Street, Sandiacre Nottingham - Ng10 5bp (+44) 115 9210430 (+44) 115 9210431	PORTUGAL CAME Portugal Ucj Portugal Unipessoal Lda Rua Liebig, n° 23 2830-141 Barreiro (+351) 21 207 39 67 (+351) 21 207 39 65
CAME Group Benelux S.a. Zoning Ouest 7 7860 Lessines 2 (+32) 68 333014 ☐ (+32) 68 338019	INDIA CAME India Automation Solutions Pvt. Ltd A - 10, Green Park 110016 - New Delhi (+91) 11 64640255/256 (+91) 2678 3510
CAME Americas Automation Llc 11345 NW 122nd St. Medley, FL 33178 ↓ (+1) 305 433 3307 □ (+1) 305 396 3331	ASIA CAME Asia Pacific 60 Alexandra Terrace #09-09 Block C, The ComTech 118 502 Singapore (+65) 6275 0249 (+65) 6274 8426
CAME Gmbh GERMANY Kornwestheimer Str. 37 70825 Korntal Munchingen Bei Stuttgart (+49) 71 5037830 (+49) 71 50378383	

CAME

English - Maruai code: 119GU40 ver. 0.4 01/2012 © CAME cancelli automatici s.p.a.
The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

CAME Cancelli Automatici S.p.a. Via Martiri Della Libertà, 15 31030 Dosson Di Casier (Tv) ↓ (+39) 0422 4940 ☐ (+39) 0422 4941 Informazioni Commerciali 800 848095	ITALY	ITALY	CAME Sud s.r.l. Via F. Imparato, 198 Centro Mercato 2, Lotto A/7 80146 Napoli (+39) 081 7524455 (+39) 081 7529190
CAME Service Italia S.r.l. Via Della Pace, 28 31030 Dosson Di Casier (Tv) ↓ (+39) 0422 383532 ☐ (+39) 0422 490044	ITALY	ITALY	CAME Global Utilities s.r.l. Via E. Fermi, 31 20060 Gessate (Mi)

Assistenza Tecnica 800 295830