

Automatic road barriers GARD PX Brushless

FA01313-EN



**GPX40MGP
GPX40MGS
GPX40MGC**

INSTALLATION MANUAL

EN

English

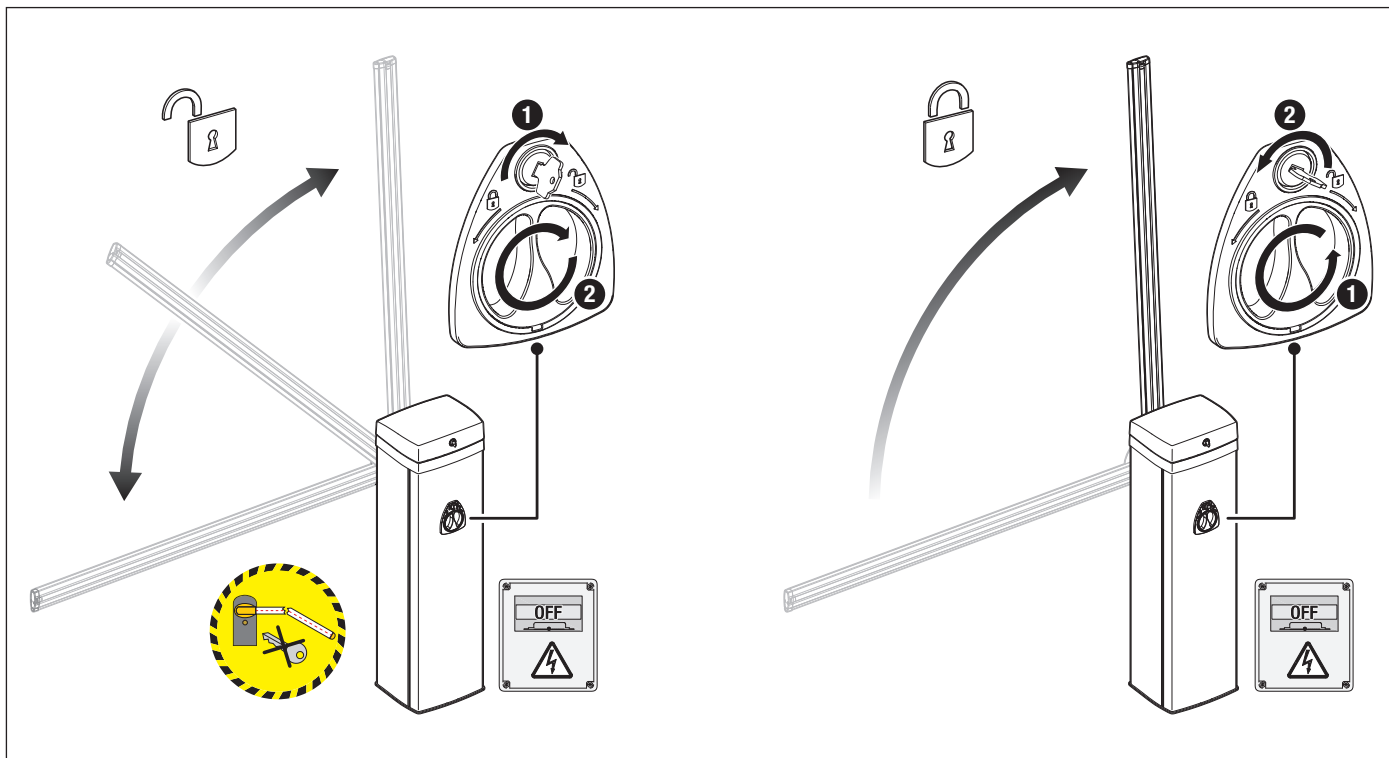


DEVICE MANUAL RELEASE

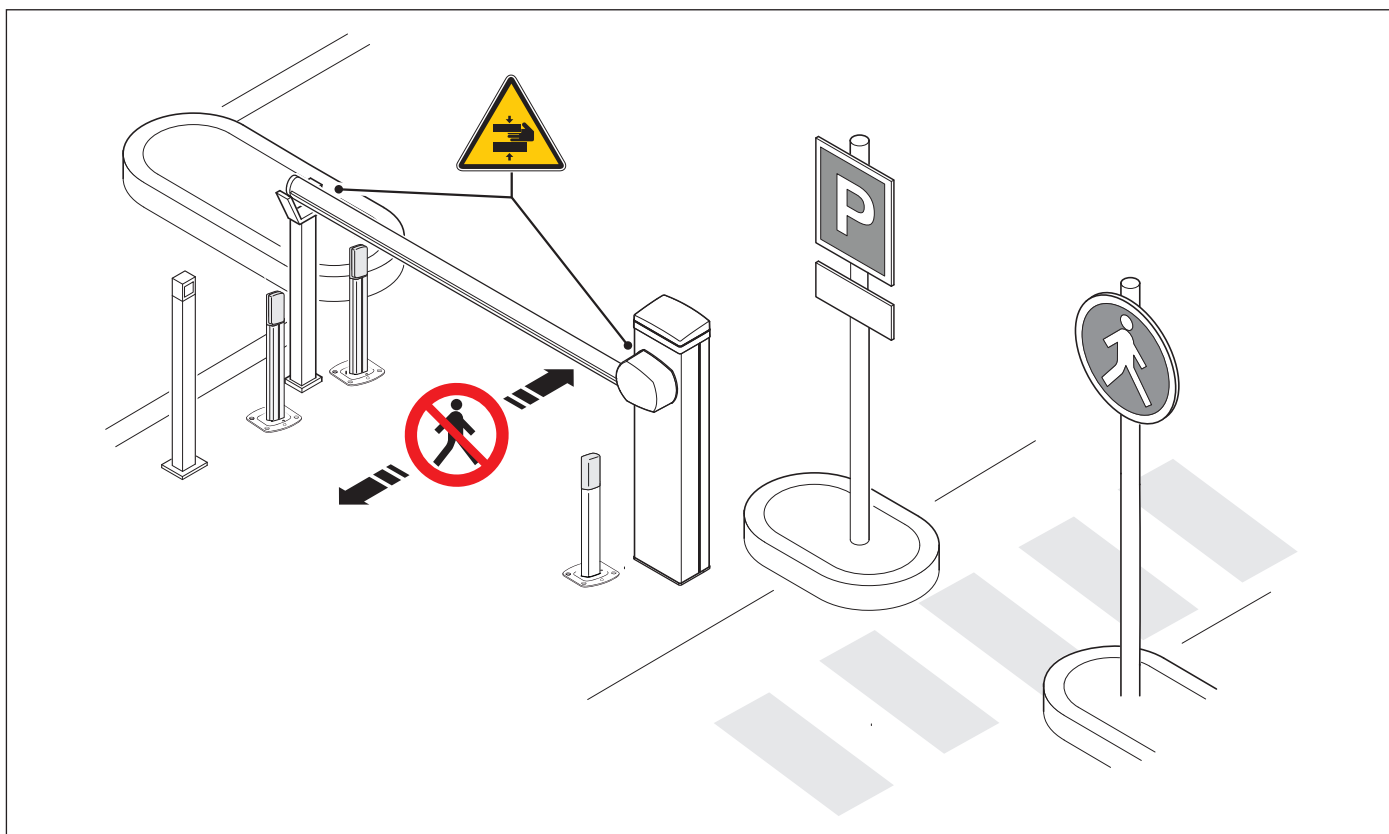
⚠ The unlocking operation may constitute a danger to the user, in case the correct boom fastening and conditions have been compromised by an accident or by installation errors.

In these cases, the tensioned springs no longer guarantee the boom balancing which could suddenly rotate during the unlocking phase.

📖 With unlocked gearmotor, the operator does not work.



MAIN POINTS OF DANGER FOR PEOPLE



⚠ Danger of hand entrapment.

🚫 Do not enter.

⚠ Important safety instructions.

⚠ Follow all of these instructions. Improper installation can cause serious bodily harm.

⚠ Before continuing, also read the general precautions for users.

Use this product only for its specifically intended use. Any other use is hazardous.

The manufacturer can not be held liable for any damage caused by improper, unreasonable, and erroneous use.

This manual's product is defined by the Machinery Directive 2006/42/CE as partly-completed machinery.

Partly-completed machinery is an assembly that almost constitutes a machine, but which, alone, cannot ensure a clearly defined application.

Partly-completed machinery is only destined to be incorporated or assembled to other machinery or other partly-completed machinery or apparatuses to build machinery that is regulated by the Machinery Directive 2006/42/EC.

The final installation must comply with the Machinery Directive 2006/42/EC and the current European reference standards.

The manufacturer declines any liability for using non-original products; which would result in warranty loss.

All operations indicated in this manual must be carried out exclusively by skilled and qualified personnel and in full compliance with current regulations.

Laying of cables, installation and testing must follow state-of-the-art procedures as dictated by applicable standards and laws.

Make sure the mains power supply is disconnected during all installation procedures.

Check that the temperature ranges given and those of the location match.

Make sure that the opening automatic barrier does not constitute a hazard.

Do not install on slopes, that is, on any surfaces that are not perfectly level

If necessary, add suitable reinforcements to the anchoring points. If necessary, add suitable reinforcements to the anchoring points.

Make sure that the operator, in the installation place, does not get wet by direct jets of water (sprinklers, water cleaners, etc.).

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.

Demarcate properly the entire site to prevent unauthorized personnel to enter; especially children and minors.

In case of manual handling, have one person for every 20 kg that need hoisting; for non manual handling use proper hoisting equipment in safe conditions.

During the fixing phases, the operator could be unstable and overturn. Be careful and do not lean on it until it is fully fastened.

Use suitable protections to prevent any mechanical hazards due to persons loitering within the operating range of the operator.

The electric cables must pass through special pipes, ducts and cable glands in order to guarantee adequate protection against mechanical damage.

Make sure that the moving mechanical elements have adequate distance from the wiring made.

The electrical cables must not touch any parts that may overheat during use (such as the motor and the transformer).

All fixed controls must be clearly visible after installation, in position that the guided part is directly visible, but far away from moving parts. In the case of a maintained action command, this must be installed at a minimum height of 1.5 m from the ground and must not be accessible to the public.

When the passage width clearance is greater than 3 m, you must use a fixed rest for the boom to support it.

If not already present, apply a permanent tag, that describes how to use the manual release mechanism, close to the mechanism.

Make sure that the operator has been properly adjusted and that the safety and protection devices, and the manual release, are working properly.

Before turning over to the final user, check that the system complies with the harmonized standards and the essential requisites of Machinery Directive 2006/42/CE.

Any residual risks must be indicated clearly with proper signage affixed in visible areas. All of which must be explained to end users.





Fit, in plain sight, the machine's ID plate when the installation is complete.

If the power-supply cable is damaged, it must be immediately replaced by the manufacturer or by an authorized technical assistance center, or in any case, by qualified staff, to prevent any risk.

Keep this manual inside the technical folder along with the manuals of all the other devices used for your automation system.

Remember to hand over to the end users all the operating manuals of the products that make up the final machinery.

Legend

-  This symbol shows which parts to read carefully.
-  This symbol shows which parts describe safety issues
-  This symbol shows which parts to tell users about.
-  The measurements, unless otherwise stated, are in millimeters.

Description

GPX40MGS - Automatic barrier with irreversible gearmotor and brushless motor; painted steel cabinet.
 GPX40MGP - Automatic barrier with irreversible gearmotor and brushless motor; painted steel cabinet. Supplied complete with: 009SMA and an interface for the direct connection to an entrance/exit column of PKE and PKM parking systems.
 GPX40MGC - Automatic barrier with irreversible gearmotor and brushless motor; painted steel cabinet.

Intended use

The ideal solution for passage ways with heavy transit flows

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

Description of parts

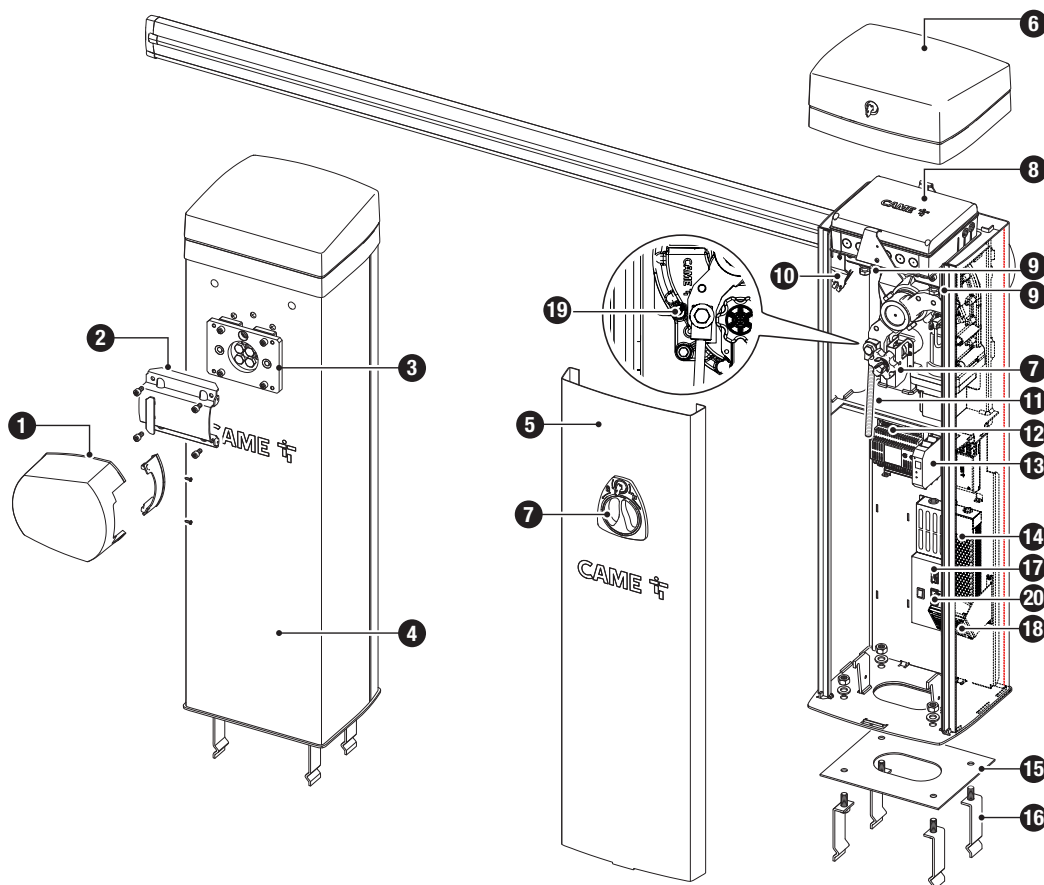
Barrier

- | | |
|---|---------------------------------------|
| 1 - Anti-shearing cover | 11 - Spring anchoring pin |
| 2 - Fastening flange | 12 - IO 485 card * |
| 3 - Boom anchoring plate | 13 - SMA module * |
| 4 - Cabinet | 14 - Power supply |
| 5 - Inspection hatch | 15 - Anchoring plate |
| 6 - Cover | 16 - Anchoring bracket |
| 7 - Boom release/lock knob | 17 - Fuse for cartridge heater or fan |
| 8 - Control panel | 18 - Fan ** |
| 9 - Mechanical stop for the boom adjustment | 19 - Cartridge heater *** |
| 10 - Auxiliary status contacts * | 20 - Line fuse |

* Only for GPX40MGP

** Only for GPX40MGC

*** Only for GPX40MGP GPX40MGS



Control board

1 - Buttons for programming

2 - Display

3 - USB stick connector

4 - Encoder connector

5 - Motor connector

A p.n. ferrite is applied to the cable ECQK922091

6 - Terminal board for barrier status

7 - Terminal block for connecting the warning LED strip

8 - Terminal board not used

9 - Accessories fuse

10 - Terminal block for motor power supply

11 - Terminal board for power supply to the control board

12 - Terminal block for connecting the open cover safety microswitch (NC contact)

13 - Terminal board for NC contact for boom drop away

14 - Terminal board for connecting the unlocked gearmotor safety microswitch (NC contact)

15 - Terminal boards for connecting travel end microswitches (NC contact) *

16 - Terminal board associated with the RSE_2 connector for CRP connection, IO 485 card or Modbus RTU interface

17 - Terminal board associated with the RSE_1 connector for combined connection, alternate or CRP

18 - Terminal board for connecting control and safety devices

19 - Terminal board for connecting the keypad selector

20 - Terminal board for connecting the transponder selector

21 - Terminal board for connecting the antenna

22 - Connector for the R700 or R800 decoding card

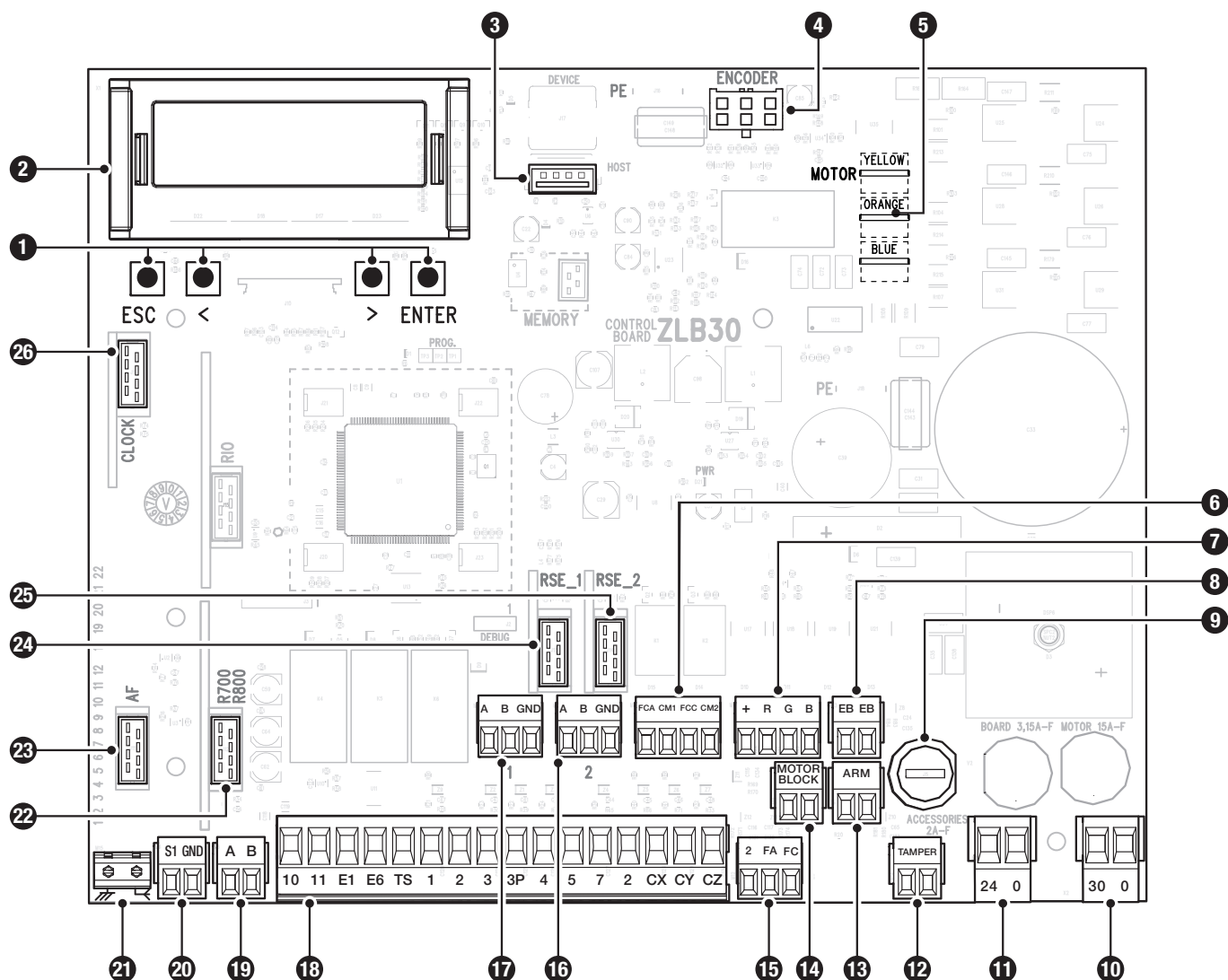
23 - Connector for plug-in radio frequency card (AF)

24 - RSE_1 connector for RSE card

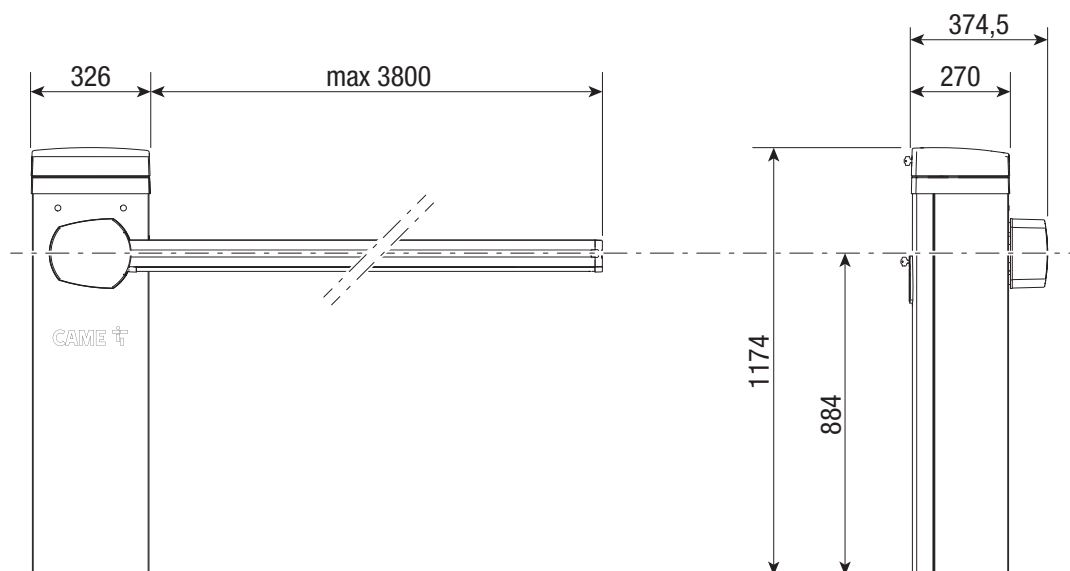
25 - RSE_2 connector for RSE card

26 - Connector for the clock card (806SA-0120)

* Used only for GPX40MGP



Dimensions



Limits to use

MODELS	GPX40MGP	GPX40MGS	GPX40MGC
Maximum clearance width of the passage (m)	3,8	3,8	3,8

Technical data

MODELS	GPX40MGP	GPX40MGS	GPX40MGC
Power supply (V - 50/60 Hz)	100 AC ÷ 240 AC	100 AC ÷ 240 AC	100 AC ÷ 240 AC
Motor power supply (V)	36 DC	36 DC	36 DC
Stand-by consumption (W)	3,3	2,5	2,5
Power (W)	270	270	270
Working temperature (°C)	-20 ÷ +55 (-40 with the 803XA-0210 heating system)	-20 ÷ +55 (-40 with the 803XA-0210 heating system)	-20 ÷ +55 (-40 with the 803XA-0210 heating system)
Torque (Nm)	100	100	100
Opening time at 90° (s)	1,2 ÷ 2,4	1,2 ÷ 2,4	1,2 ÷ 2,4
Duty cycle (%)	CONTINUOUS SERVICES	CONTINUOUS SERVICES	CONTINUOUS SERVICES
Protection rating (IP)	54	54	54
Insulation class	I	I	I
Weight (kg)	62,5	62	62

Fuse table


MODELS	GPX40MGP	GPX40MGS	GPX40MGC
Line fuse	3.15 A F	3.15 A F	3.15 A F
Accessories fuse	2 A F	2 A F	2 A F
Cartridge heater fuse	1 A T	1 A T	-
Fan fuse	-	-	100 mA F


Cable types and minimum thicknesses


CABLE LENGTH (m)	< 10	from 10 to 20	from 20 to 30
230 V AC Power supply	3G x 1.5 mm ²	3G x 1.5 mm ²	3G x 2.5 mm ²
-I24v-- 24 V AC - DC Flashing lightl-	2 x 1 mm ²	2 x 1 mm ²	2 x 1 mm ²
TX Photocells	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
RX photocells	4 x 0.5 mm ²	4 x 0.5 mm ²	4 x 0.5 mm ²
Command and control devices	*n° x 0.5 mm ²	*n° x 0.5 mm ²	*n° x 0.5 mm ²
Antenna		RG58 max 10 m	

 *no. = see product mounting instructions - Warning: the cable section is merely indicative as it depends on the motor power and cable length.

 For installation in an outdoor environment, use cables with properties equivalent to at least those of type H05RN-F (with designation 60245 IEC 57).

 For installation in an indoor environment, use cables with properties equivalent to at least those of type H05VV-F (designation to 60227 IEC 53).

 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


 For combined connection and CRP, use a UTP CAT5-type cable. Maximum length 1000 metres.


Wind resistance

Type	Boom 3.05 m	Boom 4.05 m
Resistance class	4	3
Wind pressure [Pa]	1000	800
Maximum wind speed [km/h]	132	118


INSTALLATION

 The following illustrations are just examples, as the space available for fitting the operator and accessories varies depending on the area where it is installed.

 In case of manual handling, have one person for every 20 kg that need hoisting; for non manual handling use proper hoisting equipment in safe conditions.


 During the fixing phases, the operator could be unstable and overturn. Be careful and do not lean on it until it is fully fastened.

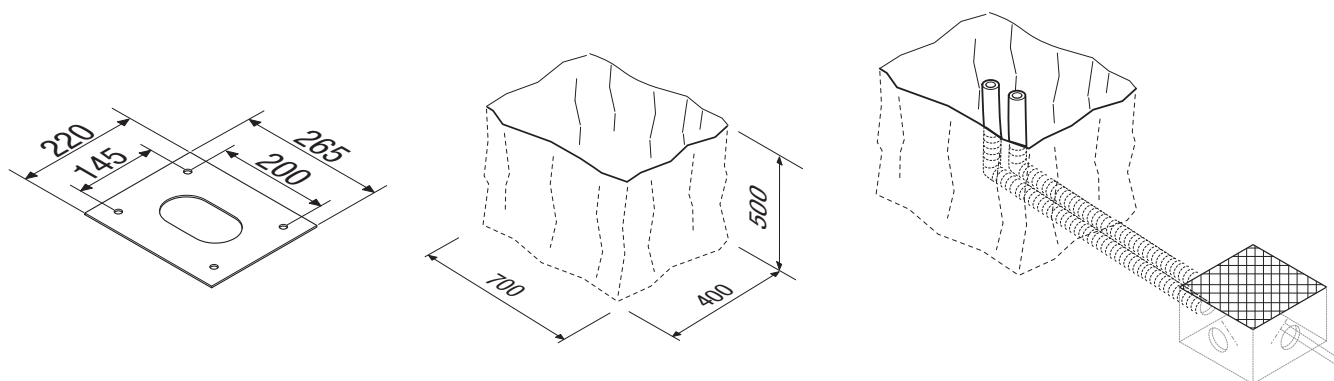
Preliminary operations

 If the flooring does not allow for a sturdy fastening of the device, you will have to set up a cement slab.

Dig a hole for the foundation frame.

Set up the corrugated tubes needed for the wiring coming out of the junction pit.

 The number of tubes depends on the type of system and the accessories that are going to be fit.

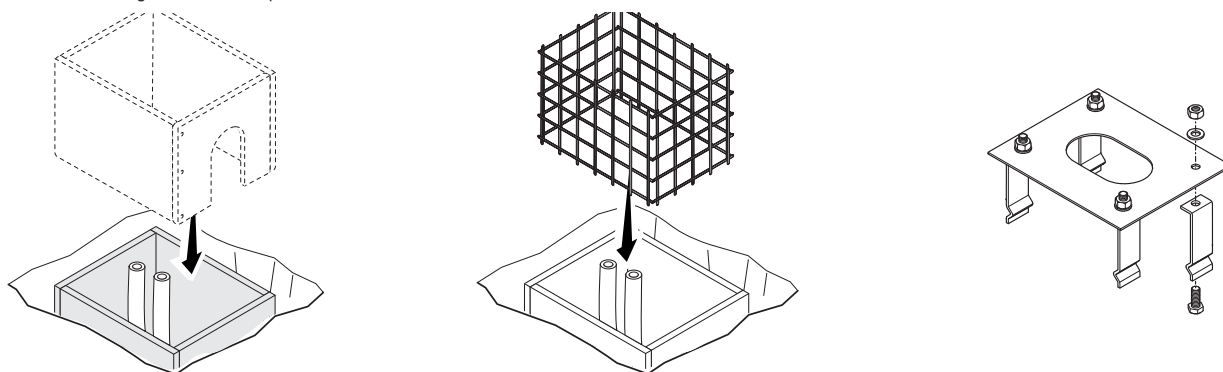


Laying the anchoring plate

Set up a foundation frame that is larger than the anchoring plate.

Fit an iron cage into the foundation frame to reinforce the concrete.

Assemble the anchoring braces to the plate.



Fit the anchoring plate into the iron cage.

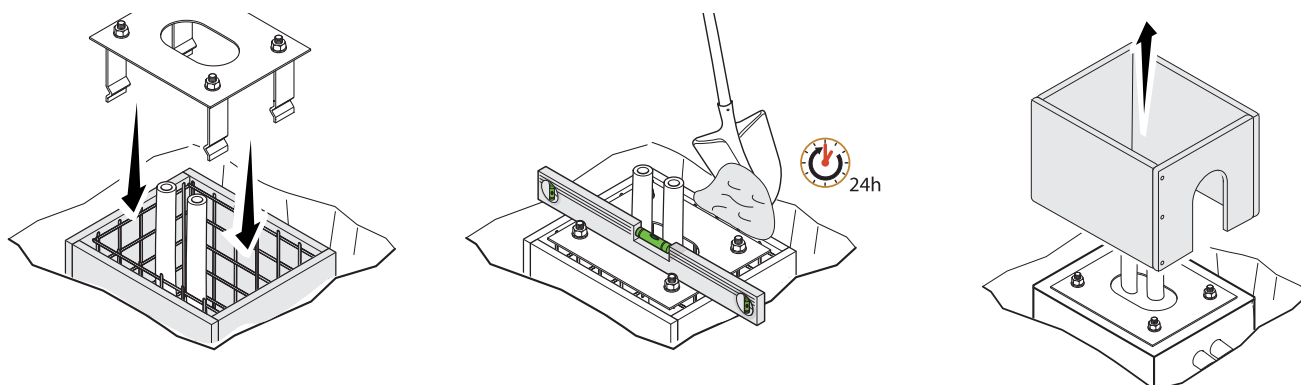
 The tubes must run through the existing holes.

Cast cement into the foundation frame;

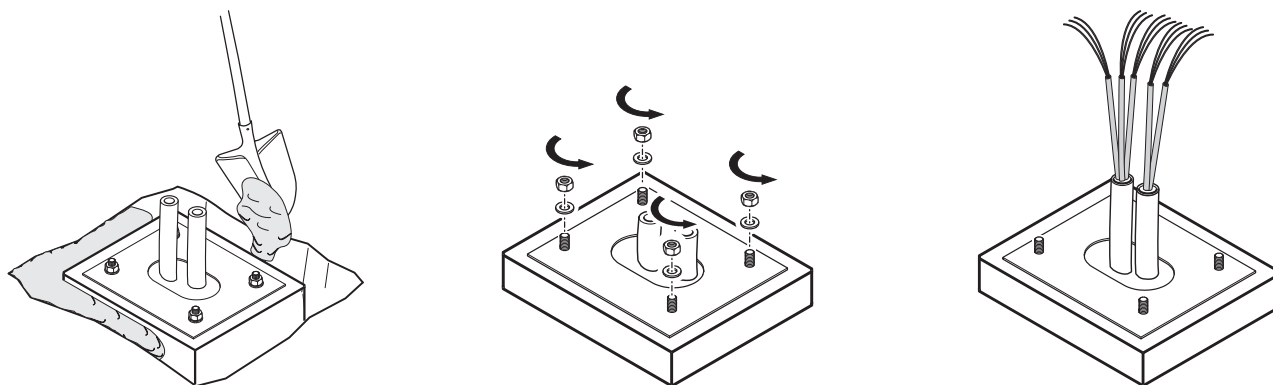
 The plate must be perfectly aligned and its bolt threads completely above surface.

Wait at least 24 hours for the cement to dry.

Remove the foundation frame.

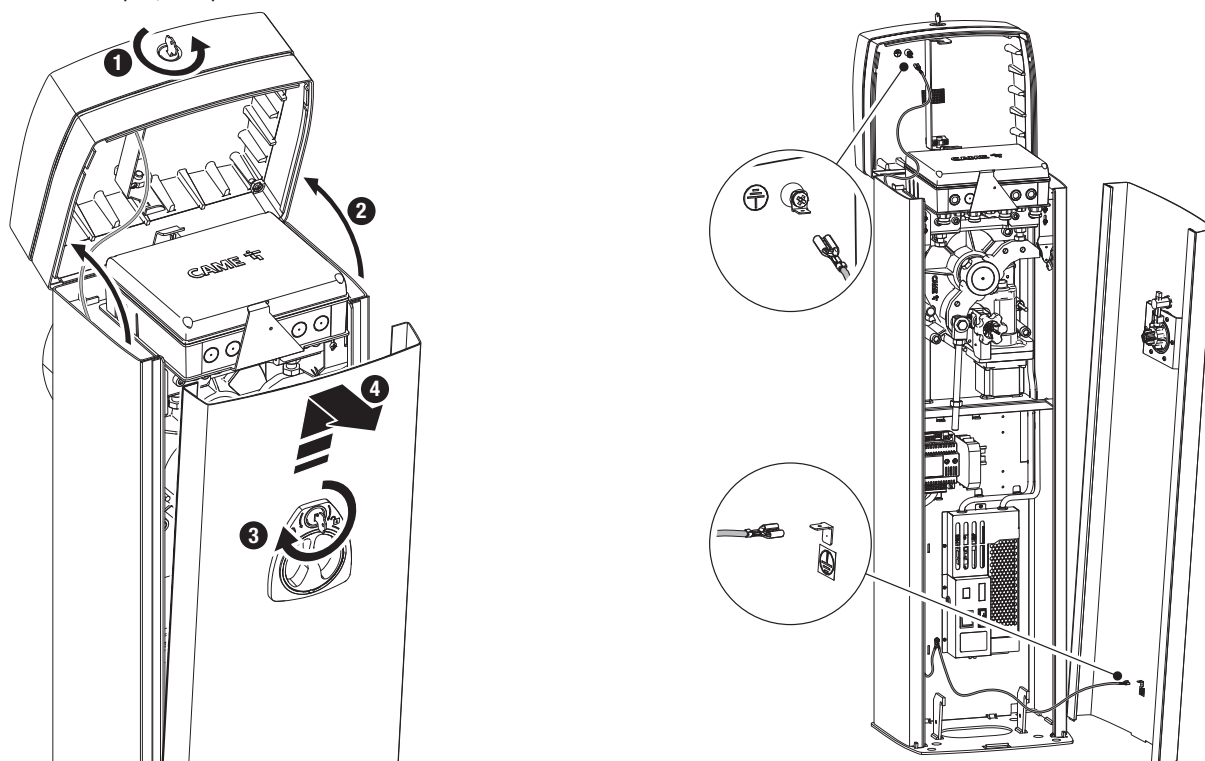


Fill the hole with earth around the concrete block.
 Remove the nuts from the bolts.
 Fit the electric cables into the tubes so that they come out about 1500 mm.

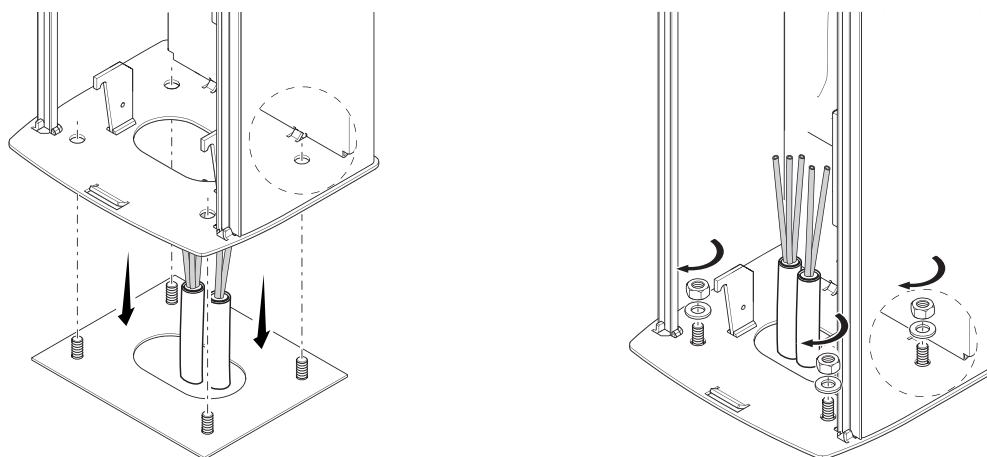


Preparing the barrier

With the cover open, the operator does not work.



Fastening the barrier



Change of the boom opening direction

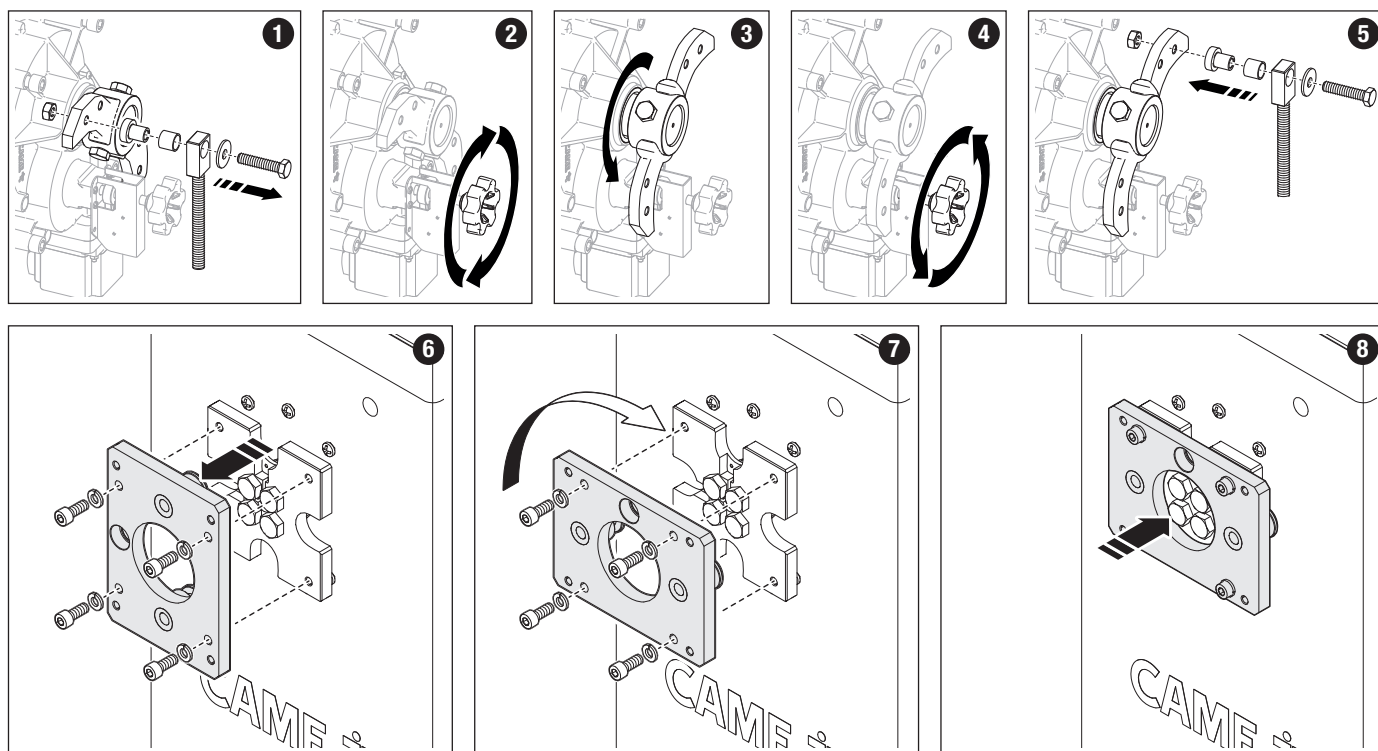
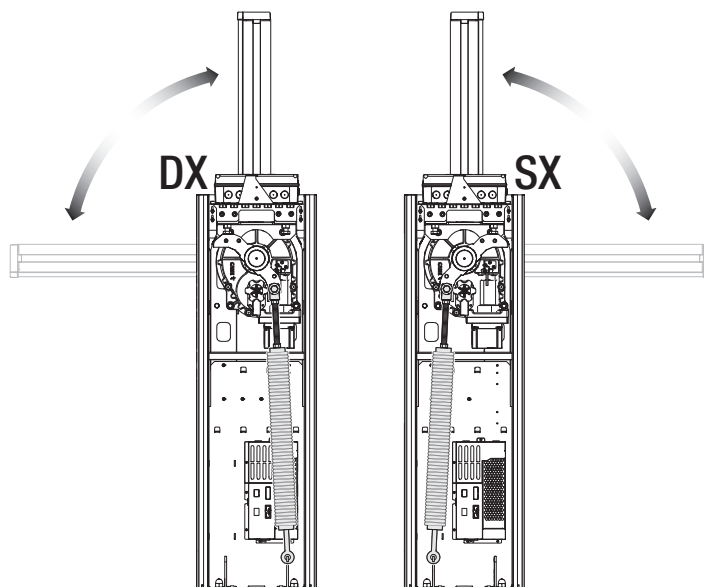
The barrier is set up for installing on the left.

The direction of rotation must be changed without boom and spring installed.

- 1 - Remove the anchoring pin from the lever arm
- 2 - Release the gearmotor turning the knob clockwise.
- 3 - Turn the lever arm by 90°.
- 4 - Lock the gearmotor turning the knob counter-clockwise.
- 5 - Fasten the anchoring pin to the opposite hole on the lever arm.

The hole to which fasten the anchor pin also depends on the balancing spring chosen according to the boom length. Please read the [Choice of balancing spring and fastening hole].

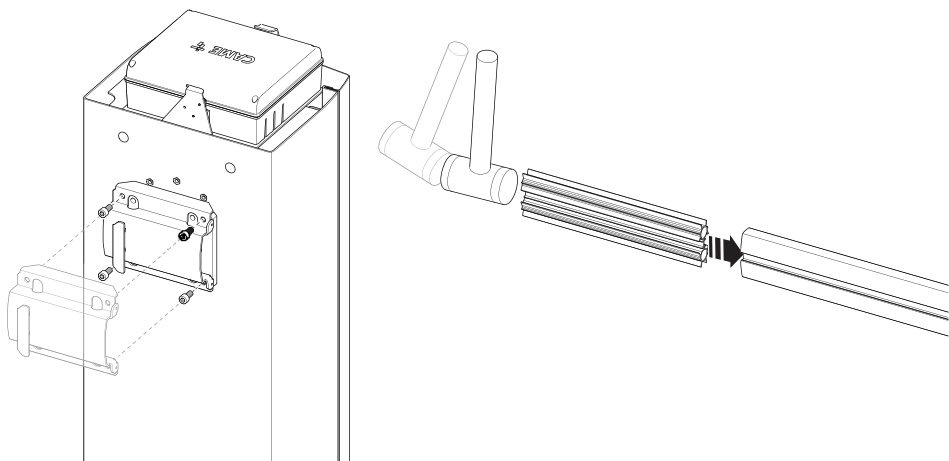
- 6 - Removes the boom anchoring plate
- 7 - Turn the boom anchoring plate 90 °
- 8 - Fasten the boom fastening plate to the crankshaft plate



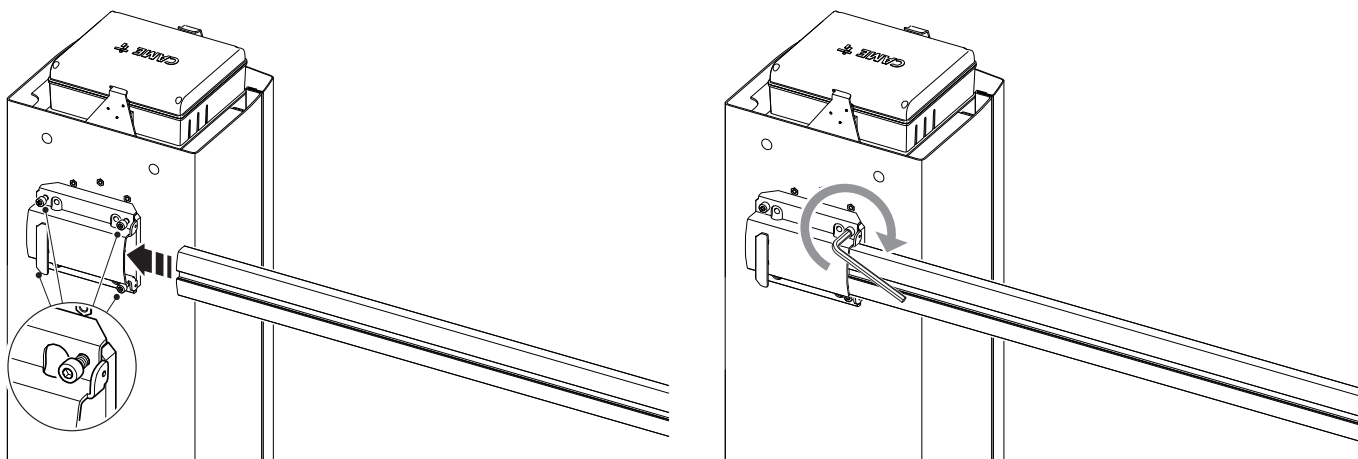
Boom installation

Insert the reinforcement inside the boom.

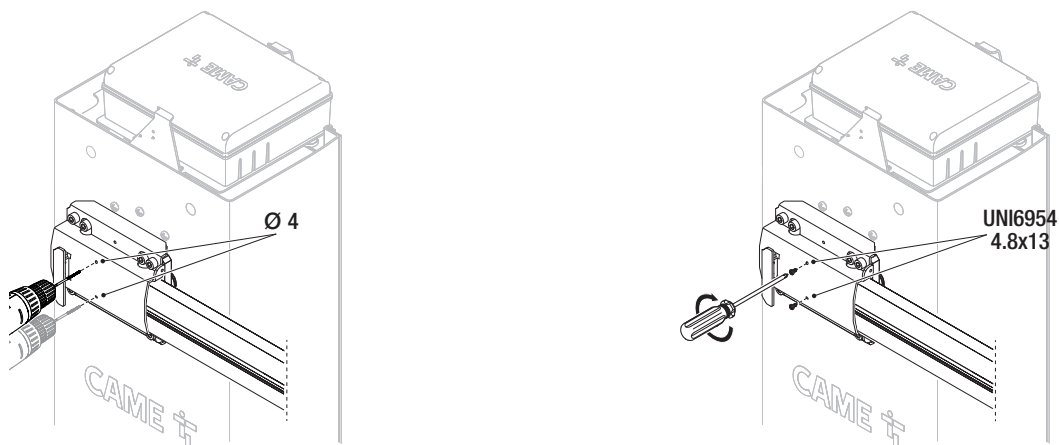
Install the boom-attachment cover on the anchoring plate. Leave the screws slightly loose for easier fitting of the boom later.



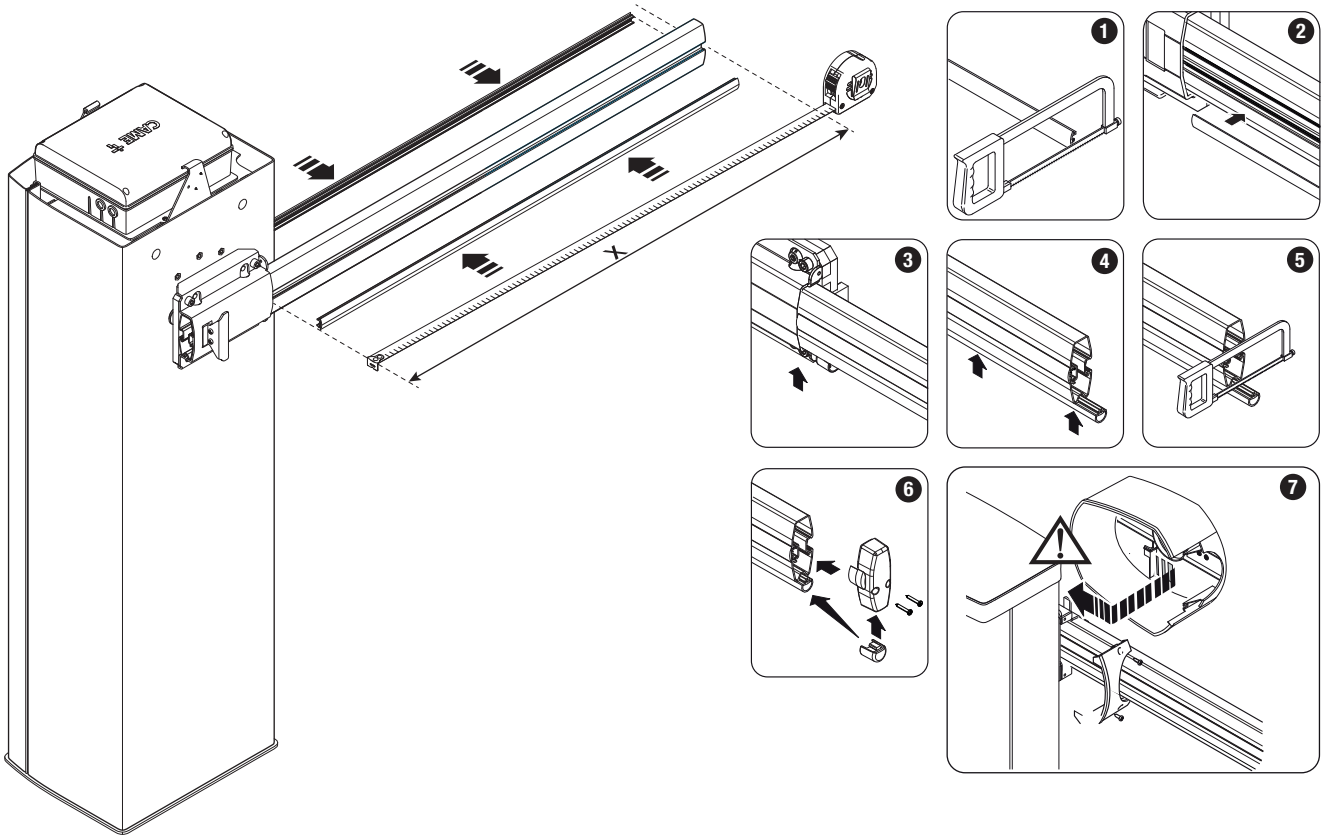
Fit the boom into the fastening flange.
Tighten the screws firmly.



Drill the fastening flange.
Fasten the boom with the screws.



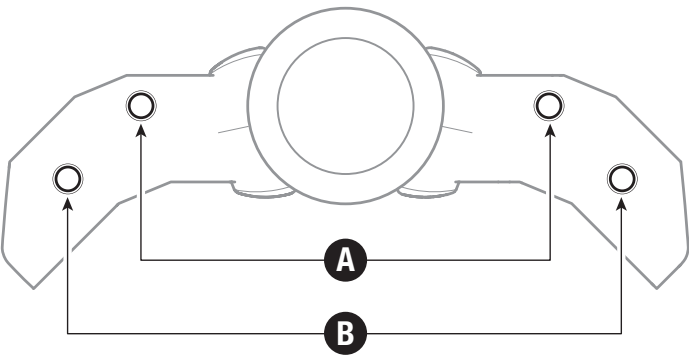
- 1 - Cut the slot cover profiles of the same size as the boom slot minus 10 millimeters.
- 2 - Insert the slot cover profiles in the appropriate grooves on both sides of the boom.
- 3 - Fit the rubber terminal cap into the corresponding housing
- 4 - Insert the anti-impact rubber profile into the groove, making it fit with the end cap.
- 5 - Cut the excess part of the profile, letting it protrude of 7 millimetres.
- 6 - Insert the end cap of the rubber profile into the groove of the boom closing cap. Use the screws to fasten the boom end cap.
- 7 - Fit the anti-shearing protective cover onto the boom-attachment cover and fasten it using the screws supplied.



Choice of balancing spring and fastening hole

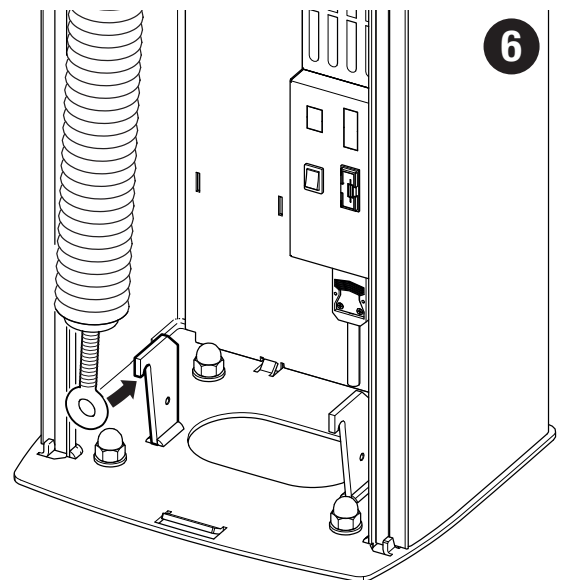
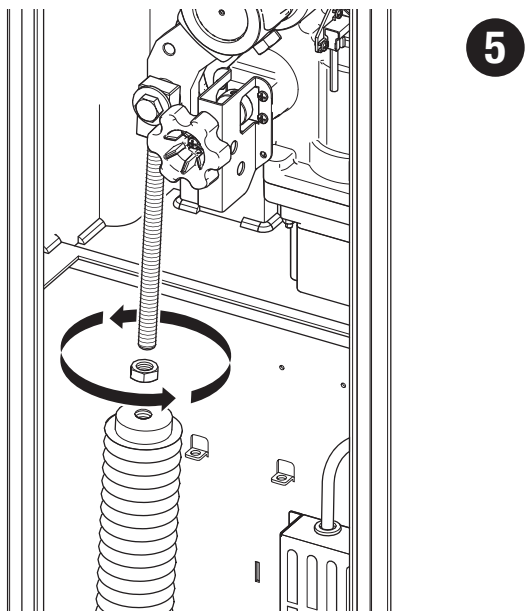
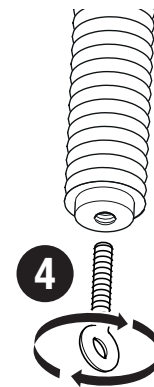
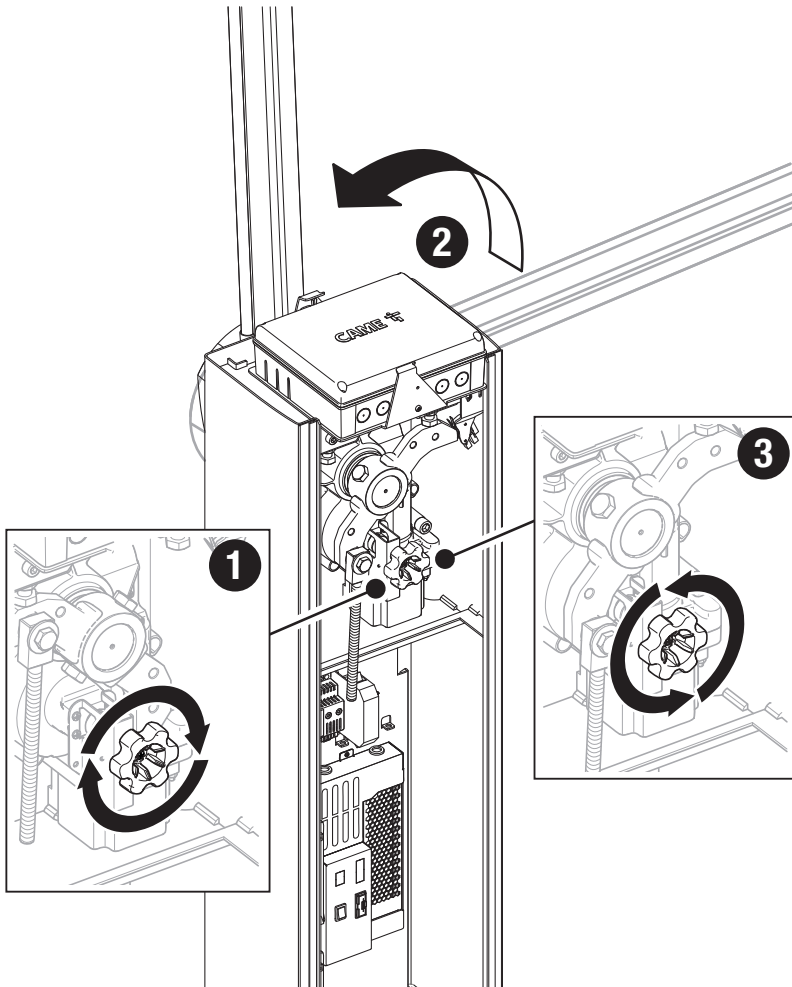
Spring code (colour)	001G02040 Ø 40 mm (yellow)		001G04060 Ø 50 mm (green)	
Hole to which fasten the spring	A		B	
Passage width clearance (m)	from 1.5 to 1.75	from 1.75 to 2.25	from 2.25 to 2.75.	from 2.75 to 3.75.

Boom means the boom complete with slot cover, cap and rubber profile.




Balancing spring assembling

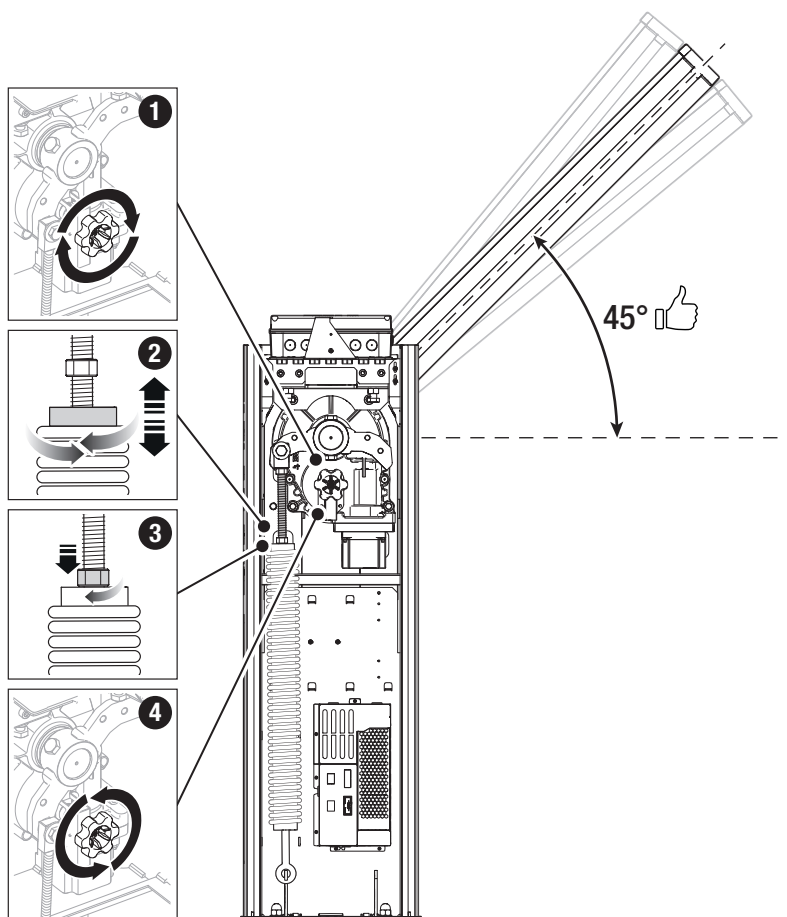
- 1 - Release the gearmotor
- 2 - Position the boom vertically.
- 3 - Lock the gearmotor
- 4 - Tighten the eyelet tie rod to the lower part of the spring
- 5 - Screw the spring to the anchoring pin
- 6 - Hook the eyelet rod to the anchoring rod



Balancing the boom

- 1 - Release the gearmotor
- 2 - Manually turn the spring to increase or reduce the traction.
The boom should stabilize at 45°.
- 3 - Fasten the locknut.
Position the boom vertically.
- 4 - Lock the gearmotor

 Check the proper working state of the spring. With the boom in vertical position the spring is not taut. With the boom in horizontal position the spring is taut.



Establishing the travel end points with mechanical limit-switches

Check that the boom is parallel to the road surface when it is in the closed position and at about 89° when it is in the open position.

Correct the boom's horizontal position

Release the gearmotor

Open the inspection hatch.

Lower the boom.

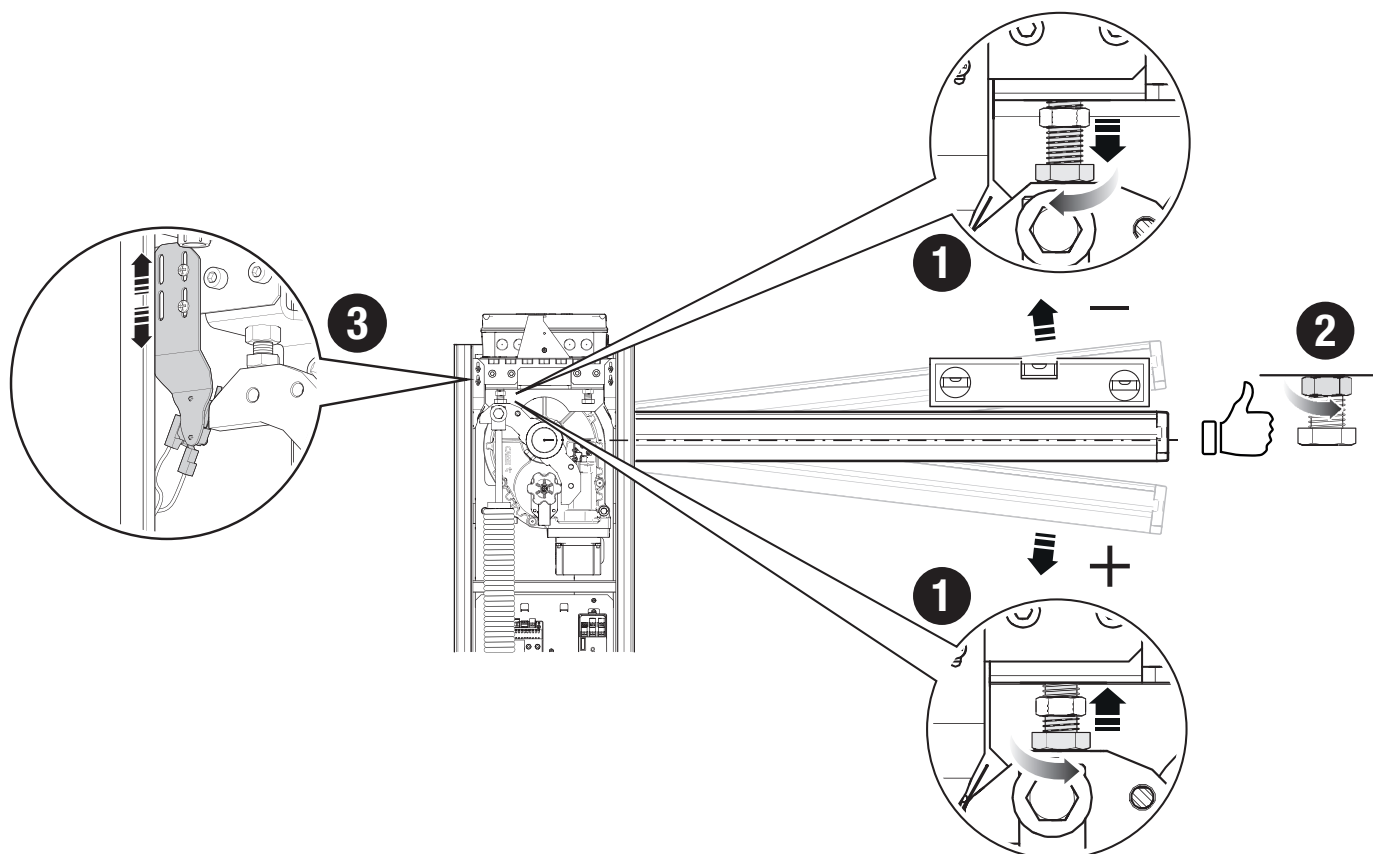
1 - Turn the mechanical stop until the desired position of the boom is achieved.

2 - Fasten the mechanical stop with a counter nut.

3 - Check that the microswitch that detects the position of the boom, clicks correctly. *

Lock the gearmotor

* Only for GPX40MGP



Correct the boom's vertical position

Release the gearmotor

Open the inspection hatch.

Raise the boom.

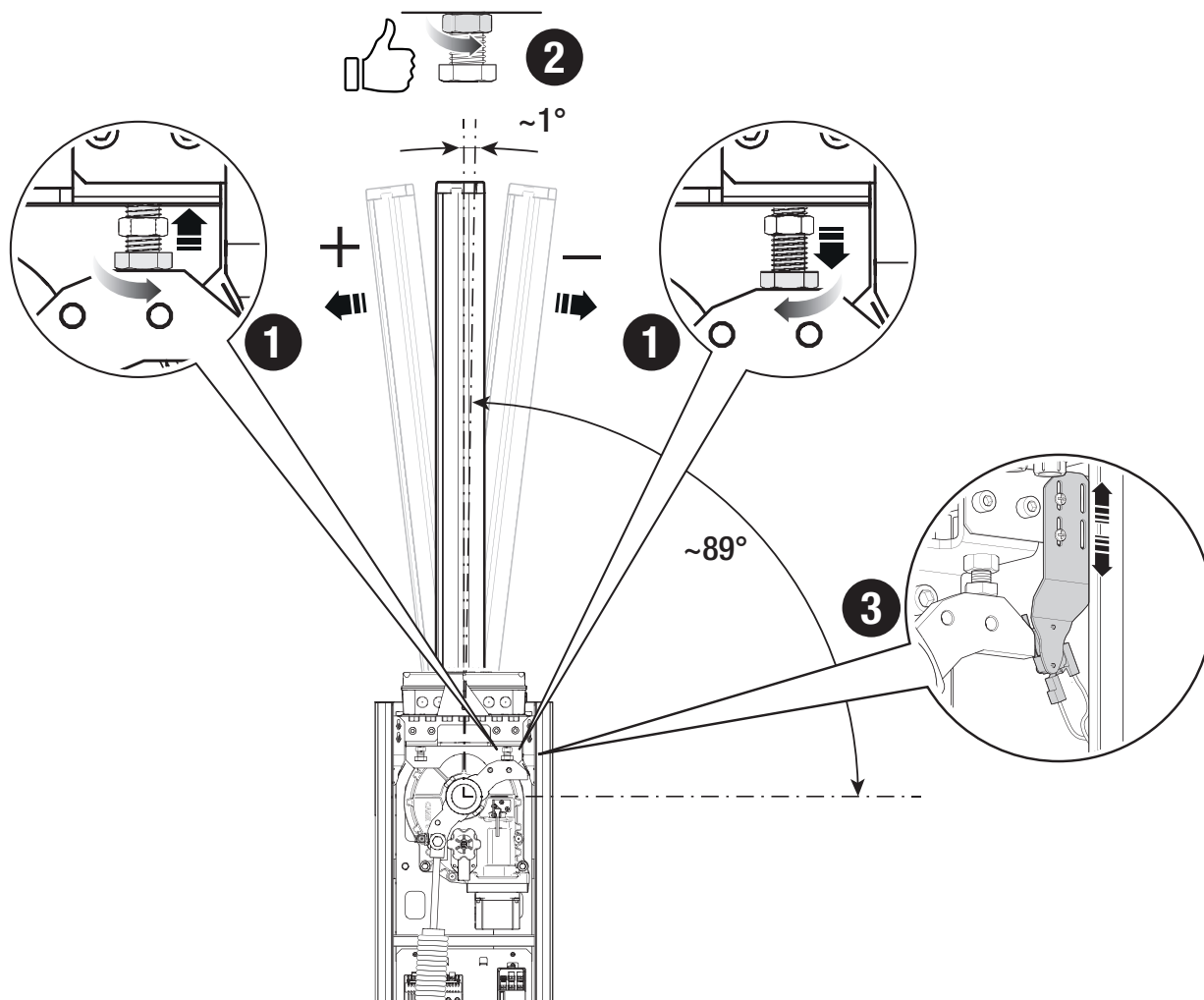
1 - Turn the mechanical stop until the desired position of the boom is achieved.

2 - Fasten the mechanical stop with a counter nut.

3 - Check that the microswitch that detects the position of the boom, clicks correctly. *

Lock the gearmotor

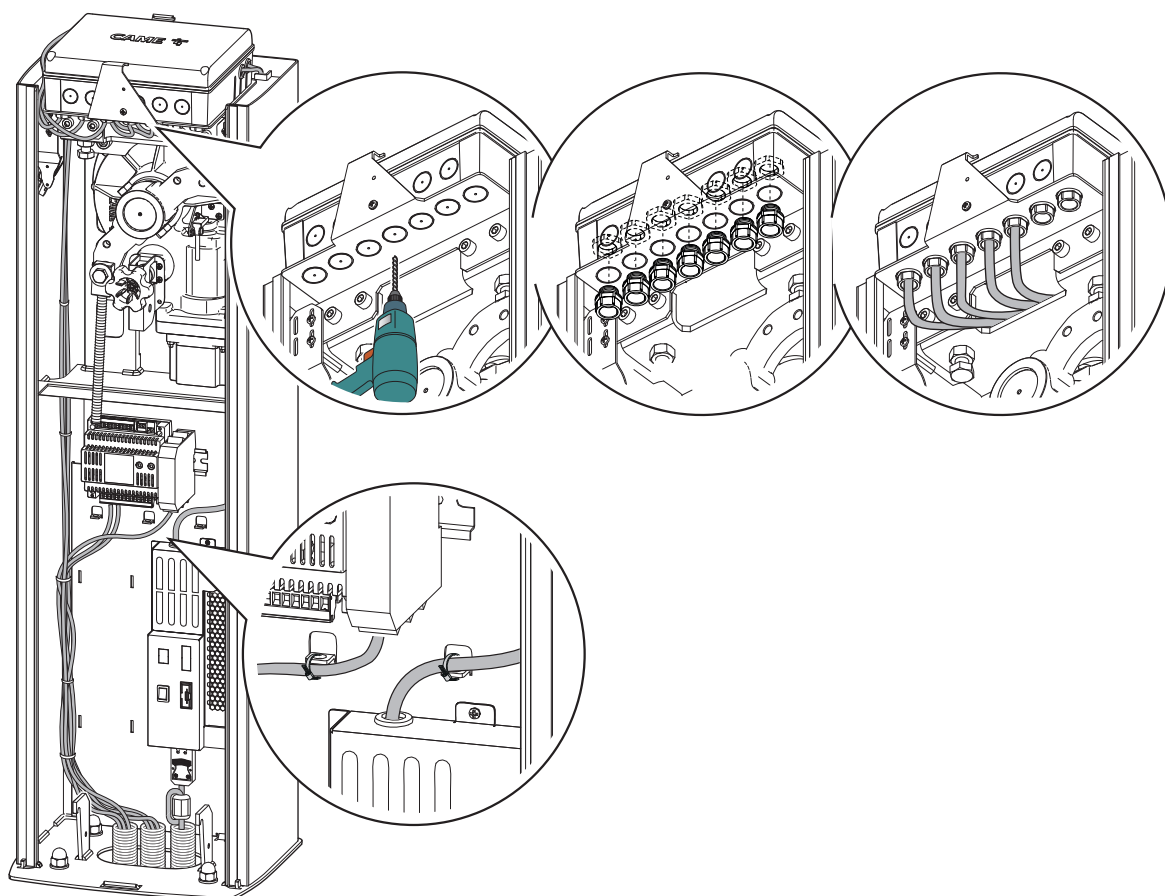
* Only for GPX40MGP



Electric cables passage

⚠ The electrical cables must not touch any parts that may overheat during use (such as the motor and transformer).

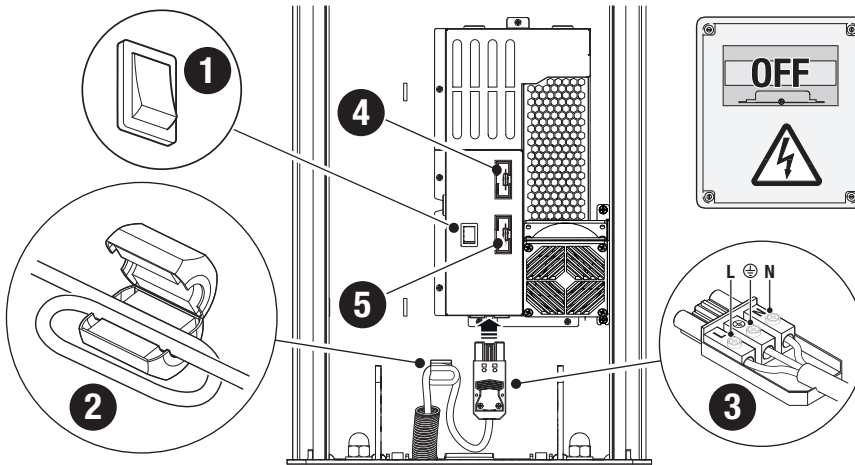
⚠ Make sure that the moving mechanical elements have adequate distance from the wiring made.



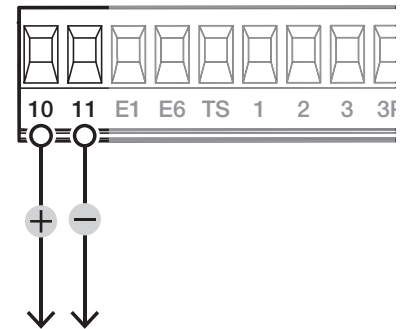
Input voltage

- ⚠ Make sure the mains power supply is disconnected during all installation procedures.
- ⚠ Before working on the control panel, cut off the mains power supply and remove any batteries.
- ⚠ Turn on and off the power supply to the control panel always acting on the switch.

Connecting to the electrical network



Accessories power supply output



The output normally delivers 24 V DC.

📖 The sum of the connected accessories input must not exceed 40 W.

- 1 Button for turning the device on/off.
- 2 Apply the ferrite supplied to the power-supply cable.
Ferrite type p.n. ECQK922091.
- 📖 The cable must pass 2 times through the ferrite (2 turns).
- 3 Connect the power cable as shown.
- 4 Fuse for cartridge heater or fan
- 5 Line fuse

Signalling devices

1 Additional light

Increases illumination in the maneuvering area.

⚠ Maximum contact capacity 10 - E1

24 V DC - 20 W

2 Additional flashing light

It flashes during the operator opening and closing phases.

⚠ Maximum contact capacity 10 - E1

24 V DC - 20 W

3 Operator status warning light

It warns of the operator status.

⚠ Maximum contact capacity 10 - 5

24 V DC - 3 W

4 RGB LED strip and/or RGB corona

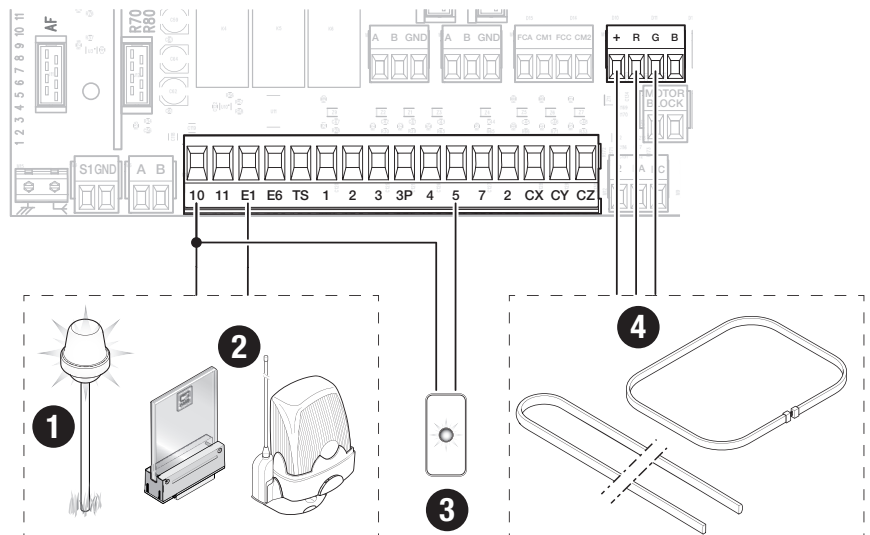
⚠ Maximum capacity 13.5 W

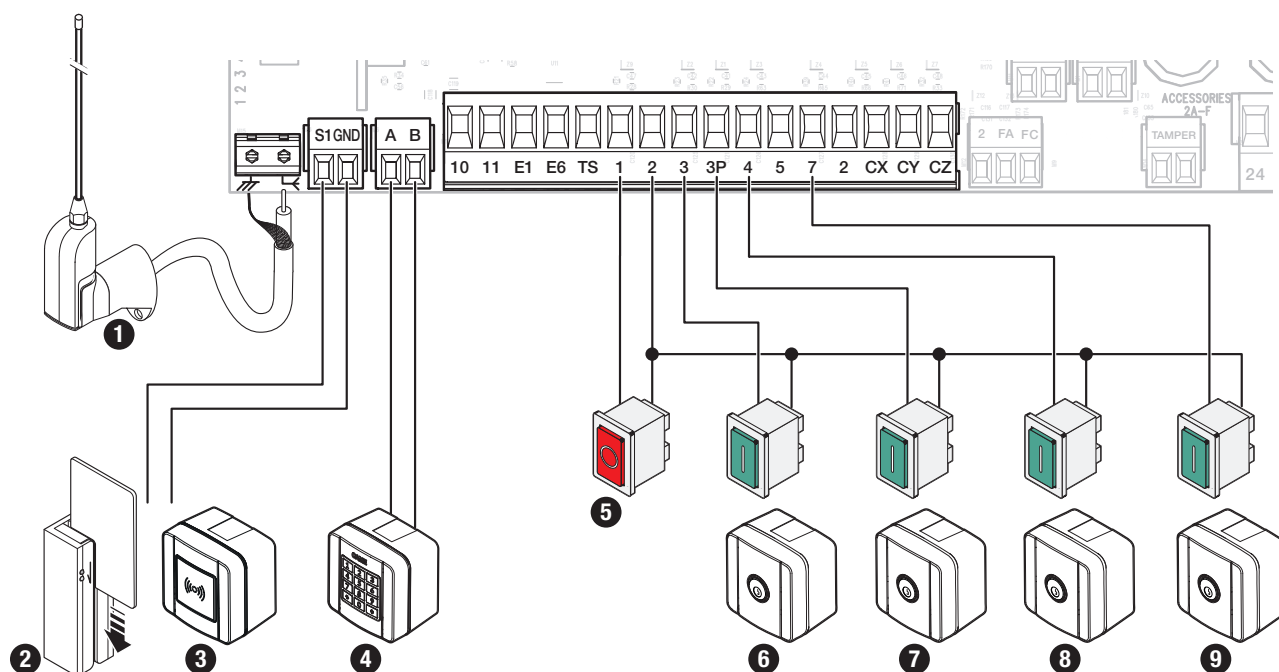
Flashing red LEDs: Operator in movement.

Green LEDs on: Operator open.

Red LEDs on: Operator closed.

Red LED flashing fast: Inspection hatch open, gearmotor unlocked or boom drop-away.





1 Antenna with RG58 cable

2 Card reader

3 Transponder selector switch

4 Keypad selector

5 Button - Total stop - NC contact

Stops the boom and excludes the automatic closing. Use a control device to resume movement.

If the contact is not used, it must be deactivated during the programming.

6 Control device - OPEN ONLY function - NO contact

For opening only.

The contact can be programmed for the hold-to-run function.

7 Control device - OPEN ONLY function - NO contact

For opening only.

The contact must be used only for operators working in paired mode.

8 Control device - CLOSE ONLY function - NO contact

For closing only.

The contact can be programmed for the hold-to-run function.

9 Control device - OPEN-CLOSE function - NO contact

For opening and closing.

Safety devices

Connect the safety devices to the CX, CY and/or CZ inputs.

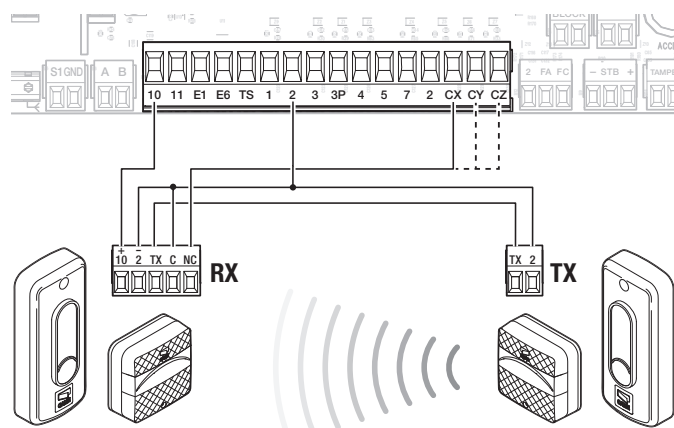
During programming, configure the type of action that must be performed by the device connected to the input.

If contacts CX, CY and CZ are not used they must be deactivated during programming.

DIR / DELTA-S photocells

Standard connection

Multiple photocell pairs can be connected.

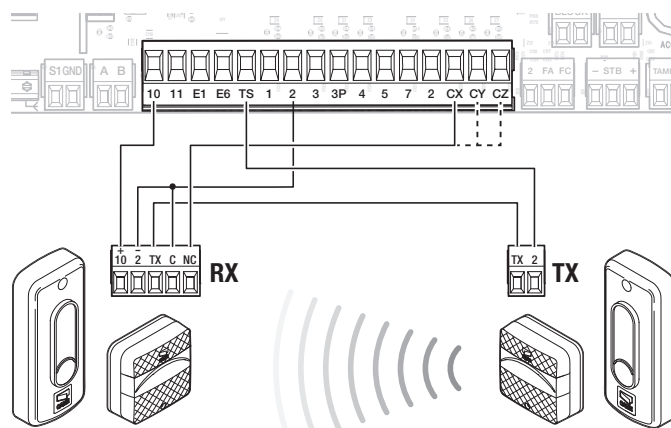


DIR / DELTA-S photocells

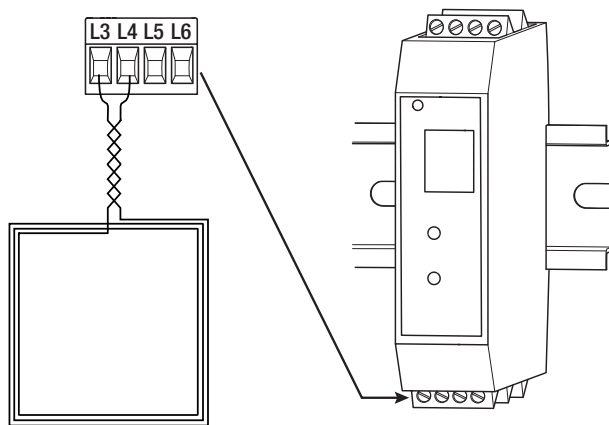
Connection with safety test

Multiple photocell pairs can be connected.

See function F5, safety devices test.



Connecting the magnetic loop to the SMA module *

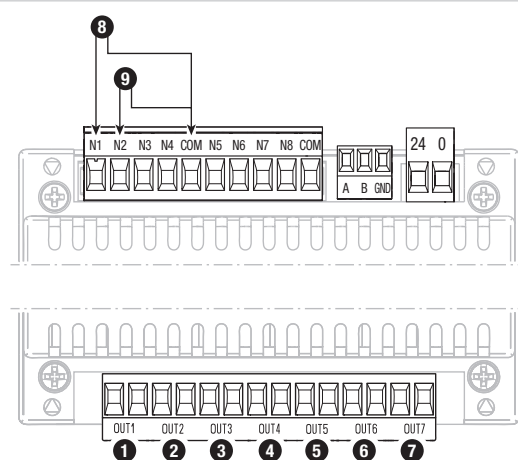


* Only for GPX40MGP

Function of the outputs of the RS485 I/O board *

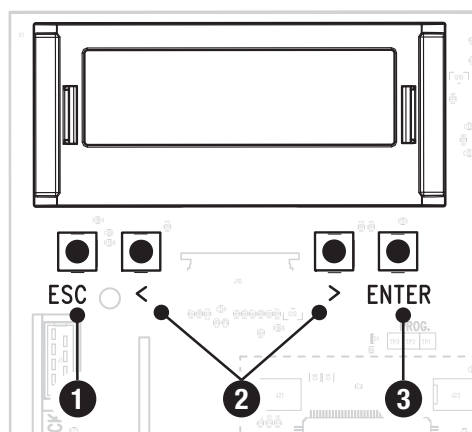
- ❶ Contact output indicating obstacle detection indication
- ❷ Contact output indicating open boom
- ❸ Contact output indicating closed boom
- ❹ Contact output indicating boom drop-away
- ❺ Open inspection hatch signal contact output
- ❻ Released gearmotor signal contact output
- ❼ CX input status signal contact output
- ❽ Input for the connection of a button with OPEN ONLY function (COM-N1)
- ❾ Input for the connection of a button with CLOSE ONLY function (COM-N2)

Each output is a clean contact (NO) with maximum capacity 1A – 24 V DC.



* Only for GPX40MGP

Function of the programming buttons



❶ ESC button

The ESC key is used to perform the operations described below.

- Exiting the menu
- Delete the changes
- Return to the previous screen
- Stop the operator

❷ <> buttons

The <> keys are used to perform the operations described below.

- Navigate through the menu items
- Increasing or decreasing values
- Close or open the operator

❸ ENTER button

The ENTER key is used to perform the operations described below.

- Accessing menus
- Confirm the choice

Total stop

Stops the boom and excludes the automatic closing. Use a control device to resume movement.

Configuration > Wired safety devices	Total stop	Disabled (Default) Activated
---	------------	---------------------------------

CX input

It associates a function with the CX input.

Configuration > Wired safety devices	CX input	Disabled (Default) C1 = Reopening while closing (Photocells) C4 = Obstacle wait (Photocells) C5 = Immediate closing at the opening travel end C7 = Reopening while closing (Sensitive safety-edges) C9 = immediate closing at the travel end during opening with obstacle waiting, during closing C10 = Immediate closing during opening with obstacle waiting during closing C13 = reopening while closing and with immediate stop once the obstruction is removed, even with boom not in movement r7 = reopening while closing (Sensitive safety-edges with 8K2 resistor)
---	----------	---

CY input

It associates a function with the CY input.

Configuration > Wired safety devices	CY input	Disabled (Default) C1 = Reopening while closing (Photocells) C4 = Obstacle wait (Photocells) C5 = Immediate closing at the opening travel end C7 = Reopening while closing (sensitive safety-edges) C9 = immediate closing at the travel end during opening with obstacle waiting, during closing C10 = Immediate closing during opening with obstacle waiting during closing C13 = reopening while closing and with immediate stop once the obstruction is removed, even with boom not in movement r7 = reopening while closing (sensitive safety-edges with 8K2 resistor)
---	----------	---

CZ input

Associate a function with the CZ input.

Configuration > Wired safety devices	CZ input	Disabled (Default) C1 = Reopening while closing (Photocells) C4 = Obstacle wait (Photocells) C5 = Immediate closing at the opening travel end C7 = Reopening while closing (sensitive safety-edges) C9 = immediate closing at the travel end during opening with obstacle waiting, during closing C10 = Immediate closing during opening with obstacle waiting during closing C13 = reopening while closing and with immediate stop once the obstruction is removed, even with boom not in movement r7 = reopening while closing (sensitive safety-edges with 8K2 resistor)
---	----------	---

Safety devices test

It activates the check of the correct operation of the photocells connected to the inputs, after each opening and closing command.

Configuration > Wired safety devices	Safety devices test	Deactivated (Default) CX CY CZ CX+CY CX+CZ CY+CZ CX+CY+CZ
---	---------------------	--

Maintained action

With the function active, the operator movement (opening or closing) is interrupted when the control device is released.

 Activation of the function excludes all other control devices.

Configuration > Functions	Maintained action	Deactivated (Default) Activated
------------------------------	-------------------	------------------------------------

Obst. with motor stopped

With the function active, the boom remains stopped if the safety devices detect an obstacle. The function activates with: closed rod, open rod or after a total stop.

Configuration > Wired safety devices	Obst. with motor stopped	Deactivated (Default) Activated
---	--------------------------	------------------------------------

Open warning light

It warns of the state of the barrier.

Configuration > Manage lights	Open warning light	Warning light on (Default) - The light stays on when the boom is moving or open. Warning light flashing - The warning light flashes every half second when the boom is opening and stays on when the boom is open. The light flashes every second when the boom is closing and is off when the boom is closed.
----------------------------------	--------------------	---


Sensor type

It sets the type of control device.

Users management	Sensor type	Keypad Transponder
------------------	-------------	-----------------------

Light E1

For choosing the type of device connected to the output.

Configuration > Manage lights	Light E1	Flashing light (Default) Cycle light  The light remains off if an automatic closing time is not set.
----------------------------------	----------	---

Automatic cls

It sets the time that must pass before the automatic closing is activated, once the opening travel end has been reached.

 The function does not work if any of the safety devices trigger when an obstruction is detected, or after a total stop, or during a power outage.

Configuration > Times	Automatic cls	Deactivated (Default) from 1 to 180 seconds
--------------------------	---------------	--

Pre-flashing time

It sets the early activation time before each maneuvers.

Configuration > Manage lights	Pre-flashing time	Deactivated (Default) from 1 to 10 seconds
----------------------------------	-------------------	---

Opening speed

It sets the opening speed (percentage of maximum speed).

 The percentage values automatically adapt to the value entered in the function [Boom length].

Configuration > Gate travel settings	Opening speed	from 50% to 100% (Default 70%)
---	---------------	--------------------------------

Closing speed

Sets the closing speed (percentage of maximum speed).

 The percentage values automatically adapt to the value entered in the function [Boom length].

Configuration > Gate travel settings	Closing speed	from 30% to 100% (Default 50%)
---	---------------	--------------------------------

Travel sensitivity

Adjusting the obstruction detection sensitivity during boom travel.

Configuration > Gate travel settings	Travel sensitivity	from 10% to 100% (Default) - 10% = maximum sensitivity - 100% = minimum sensitivity
---	--------------------	---

RSE1

Configures the function to be performed by the board connected to the RSE1 connector.

Configuration > RSE communication	RSE1 RSE1	Combined Bushing Disabled
--------------------------------------	--------------	---------------------------------

Saving data

It saves user data, timings and configurations to the memory device (memory roll or USB key).

 The function is displayed only when a USB memory stick is inserted into the USB port or when a memory roll is inserted into the control board.

Configuration > External memory	Saving data	Confirm? NO (Default) Confirm? YES
------------------------------------	-------------	---------------------------------------

Data reading

It uploads user data, timings and configurations from the memory device (memory roll or USB key).

 The function is displayed only when a USB memory stick is inserted into the USB port or when a memory roll is inserted into the control board.

External memory	Data reading	Confirm? NO (Default) Confirm? YES
-----------------	--------------	---------------------------------------

Opening direction

Set the boom opening direction.

Configuration Motor settings Guided procedure (Wizard)	Opening direction	To the left (Default) To the right
--	-------------------	---------------------------------------

CRP address

It assigns a unique identification code (CRP address) to the control board. The function is necessary if there are more operators connected by CRP.

Configuration > RSE communication	CRP address	
--------------------------------------	-------------	--

Set up maintenance

For setting the number of partial maneuvers (in thousands) that the automation can perform, before a signal is generated that warns of the need to perform maintenance. The signal consists of the 3 + 3 times rhythmic flashing of the warning light [Open every hour].

Information	Set up maintenance	Deactivated (Default) from 1 to 1000 (1 = 1000 maneuvers)
-------------	--------------------	--

RSE1 speed

Sets the remote connection system communication speed on the RSE1 port.

Configuration RSE communication	RSE1 speed	4800 bps 9600 bps 14400 bps 19200 bps 38400 bps (Default) 57600 bps 115200 bps
------------------------------------	------------	--

FCA FCC warnings

Configure the method with which the FCA and FCC outputs report the boom status.

Configuration Functions	FCA FCC warnings	Disabled Impulse When the boom reaches the travel end (while opening or closing), the FCA-CM1 or FCC-CM2 contact closes for one second. Fixed When the boom reaches the travel end (while opening or closing), the FCA-CM1 or FCC-CM2 contact closes and remains closed. Custom The FCA-CM1 contact is closed with the boom in the open travel end position and during the opening maneuver. The FCC-CM2 contact is closed with the boom in the closed travel end position and during the closing maneuver.
----------------------------	------------------	---

Opening counter

With the function active, it is possible to send a series of opening commands corresponding to the number of vehicles which have to be authorized to pass through the gate. The function can only be operated by control devices connected to the contact 2-3. The input to which the magnetic contact on which the loop that counts the vehicles in transit is connected must be programmed to operate in C5/C9/C10 mode; at the end of the count the passage is closed.

Configuration Functions	Opening counter	Deactivated (Default) Activated
----------------------------	-----------------	------------------------------------

Boom drop-away detection

It activate the contact for detecting the boom drop-away.

Configuration > Functions	Boom drop-away detection	Deactivated (default) Activated
------------------------------	--------------------------	------------------------------------

Show clock

Enables the clock displaying on the display.

 The function is available only if the 806SA-0120 board is installed.

Timer management	Show clock	Confirm? NO Confirm? YES
------------------	------------	-----------------------------

Set the clock

For setting date and time.

 The function is available only if the 806SA-0120 board is installed.

Timer management	Set the clock	Use the arrows and the Enter button to enter the desired values.
------------------	---------------	--

Automatic DST

Enables the automatic summer time setting.

 The function is available only if the 806SA-0120 board is installed.

Timer management	Automatic DST	Deactivated (Default) Activated
------------------	---------------	------------------------------------

RSE2

Configures the function to be performed by the board connected to the RSE2 connector.

Configuration RSE communication	RSE2	Disabled CRP (Default) I/O module RTU Modbus
------------------------------------	------	---


RSE2 speed

Sets the remote connection system communication speed on the RSE2 port.

Configuration > RSE communication	RSE2 speed	4800 bps 9600 bps 14400 bps 19200 bps 38400 bps (Default) 57600 bps 115200 bps
--------------------------------------	------------	--

Create new timer

For timing one or more types of activations chosen from those available.

 The function is available only if the 806SA-0120 board is installed.

Timer management	Create new timer	1 - Use the arrows to choose the desired function. Opening / Partial opening 2 - Press ENTER to confirm. 3 - Use the arrows to set the start and end time of the function activation. Start time / end time 4 - Press ENTER to confirm. 5 - Use the arrows to set the activation days of the function Select days / Whole week 6 - Press ENTER to confirm.
------------------	------------------	--

Remove timer

Removes one of the saved timings.

 The function is available only if the 806SA-0120 board is installed.

Timer management	Remove timer	Use the arrows to choose the timing to be removed. 0 = [Opening] P = [Partial opening] Press ENTER to confirm.
------------------	--------------	---

Commands

For making the barrier do some commands without the help of control devices.

	Commands	Use the arrows to select the command to be executed. Opening Partial opening Closing Stop Press ENTER to confirm.
--	----------	--

Language

Set the display language.

	Language	Italiano (IT) English (EN) Francais (FR) Deutsch (DE) Espanol (ES) Português (PT) Polski (PL) Русский (RU)
--	----------	---

Errors list

View the last 8 errors detected. The error list can be deleted.

Information	Errors list	Use the arrows to scroll through the list. To cancel the error list select: Delete errors Press ENTER to confirm. Confirm? NO Confirm? YES
-------------	-------------	---

Enable password

For setting a 4-digit password. The password will be requested to anyone who wants to access the main menu.

Password	Enable password	Use the arrows and the Enter button to dial the desired code.
----------	-----------------	---

Change password

For changing the 4-digit password that protects access to the main menu.

Password	Change password	Use the arrows and the Enter button to dial the desired code.
----------	-----------------	---

Remove password

Removes the password that protects access to the main menu.

Password	Remove password	Confirm? NO Confirm? YES
----------	-----------------	-----------------------------

Change mode

Change the function assigned to a specific user. This operation can also be carried out by sending a command from the device associated to the user.


Users management	Change mode	1 - Choose the user to whom the assigned function is to be changed. No.: 1 > 250 Alternatively, the control device associated with the user to which the associated function is to be modified can be activated. 2 - Press ENTER to confirm. User mode 3 - Press ENTER to confirm. 4 - Use the arrows to choose the desired function. Step-step Sequential Open Partial opening 5 - Press ENTER to confirm.
------------------	-------------	--

F Menu

It enables the F functions menu view.

Add User

It is used to register a maximum of 250 users and assign a function to each one.

 The operation can be carried out by using a transmitter or other control device. The boards that manage the control devices (AF - R700 - R800) must be plugged into the connectors.

 From the docs.came.com portal, download the LIST OF REGISTERED USERS form, type L20180423.

Users management	Add User	Step-step Sequential Open Partial opening When the barrier is in [combined] mode, the [Partial Opening] command opens the Master barrier. 1 - Choose the function to be assigned to the user. 2 - Press ENTER to confirm. The user code must be entered. 3 - Send the code from the control device. Repeat the procedure for adding other users.
------------------	----------	---

Remove user

It removes one of the registered users.

Users management	Remove user	Use the arrows to choose the number associated with the user to be removed. No.: 1 > 250 Alternatively, the control device associated with the user to be removed can be activated. Confirm? NO Confirm? YES
------------------	-------------	--


Remove all

It removes all registered users.

Users management	Remove all	Confirm? NO Confirm? YES
------------------	------------	-----------------------------

Radio-frequency decoding

For choosing the type of radio coding of the transmitters enabled to control the operator.

 Choosing the type of radio coding of the transmitters [Rolling code] or [TW key block], the transmitters with different type of radio coding previously stored, will be deleted.	Radio-frequency decoding	All decoding (Default) Rolling code TW Key block Confirm? NO Confirm? YES
--	--------------------------	---


Boom length

Sets the boom length.

Configuration > Motor settings	Boom length	Up to 3 m Up to 4 m Jointed boom
-----------------------------------	-------------	--

Motor test

Verification of the correct opening direction of the boom.

 If the keys do not execute the commands correctly, invert the boom opening direction.	Motor test	The button > makes the motor turn in clockwise direction. The button < makes the motor turn in a counter clockwise direction.
---	------------	--

Travel calibration

It starts the travel self-learning.

Configuration > Motor settings	Travel calibration	Confirm? NO Confirm? YES
-----------------------------------	--------------------	-----------------------------

Parameters reset

Restore factory settings except for the functions: [Radio decoding], [Boom type] and the settings related to the travel calibration.

Information	Parameters reset	Confirm? NO Confirm? YES
-------------	------------------	-----------------------------

Maneuvers counter

For viewing the number of maneuvers made by the operator.

Total maneuvers = Maneuvers carried out from the moment of installation.

Partial maneuvers = Maneuvers carried out after the last one [Maintenance reset].

Information	Maneuvers counter	Total maneuvers Partial maneuvers
-------------	-------------------	--------------------------------------

Maintenance reset

Reset the count of the number of [Partial maneuvers].

Information	Maintenance reset	Confirm? NO Confirm? YES
-------------	-------------------	-----------------------------

FW version

It displays the number of the firmware version and GUI installed.

Information	FW version	
-------------	------------	--

Updates the FW from USB

Updated the firmware version of the device.

 The function is displayed only when a USB memory stick is inserted.

 Make sure the USB stick contains the firmware update file.




Information	Updates the FW from USB	Confirm? NO Confirm? YES
-------------	-------------------------	-----------------------------

Temperature control.



It allows temperature control thanks to the activation of a cartridge heater or of a fan.

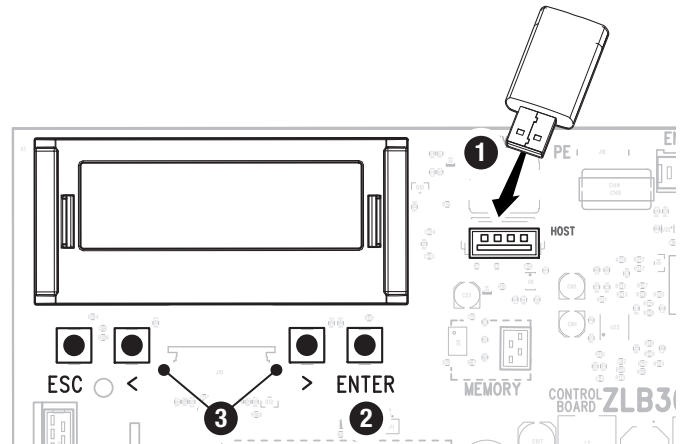
Configuration Functions	Temperature control.	Disabled Heater (Default) Fan
----------------------------	----------------------	-------------------------------------

Getting started

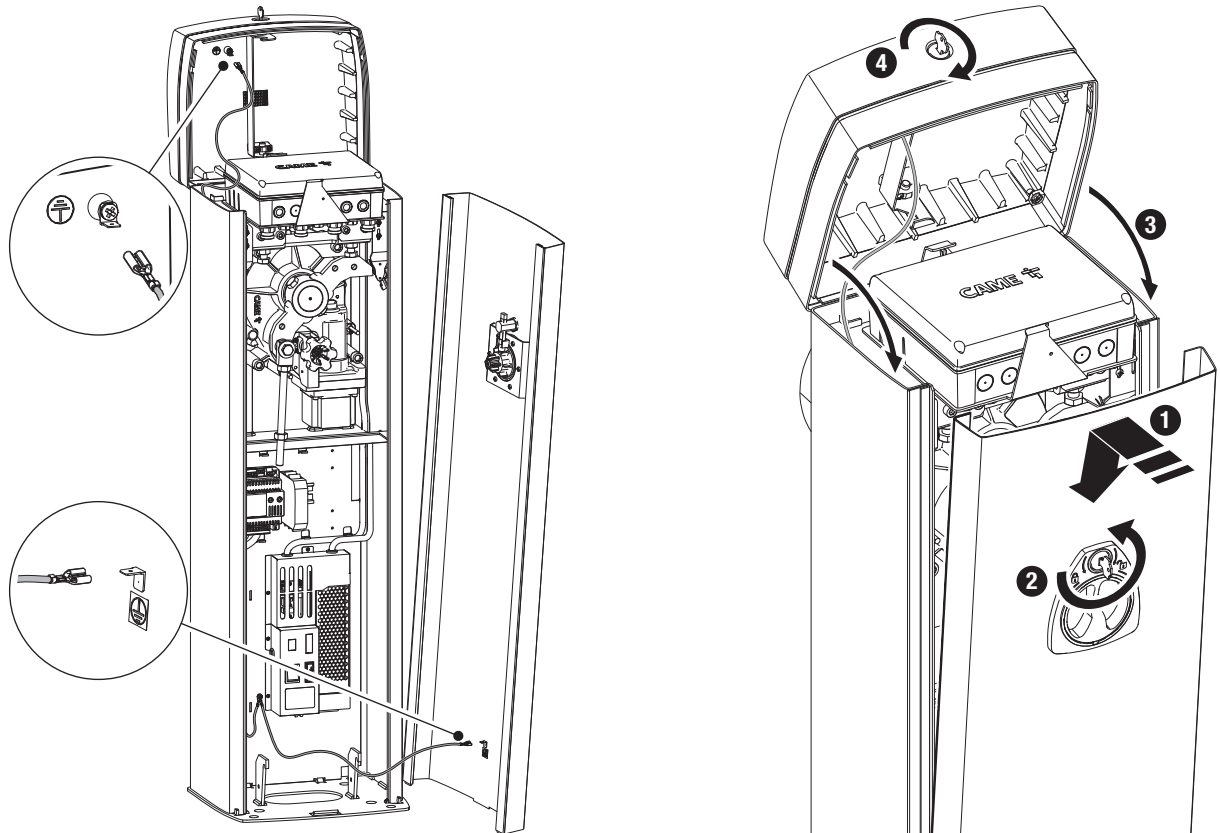
-  Once the electrical connections have been completed, proceed with commissioning. Only skilled and qualified staff may perform this operation. Make sure that the way is clear from any obstacle. Power up the system and follow the wizard that appears on the display.
-  After powering up the system, the first maneuver is always the opening; wait for the maneuver to be completed.
-  Immediately press the STOP button if any suspicious malfunctions, noises or vibrations occur in the system. At the end of commissioning, check the correct operation of the device using the buttons near the display. Check that the accessories also work correctly.

Export / import data

- ❶ Insert a USB flash drive into the USB port
 - ❷ Press the Enter button to access the programming.
Red LED on = USB memory stick recognized.
 - ❸ Use the arrows to choose the desired function.
-  The functions are displayed only when a USB memory stick is inserted.
- Saving data
It saves user data, timings and configurations to the memory device (memory roll or USB key).
 - Data reading
It uploads user data, timings and configurations from the memory device (memory roll or USB key).
 - Updates the FW from USB
Updated the firmware version of the device.
-  Make sure the USB stick contains the firmware update file.



FINAL OPERATIONS



COMBINED OPERATION

Single command of two connected operators.

Electrical connections

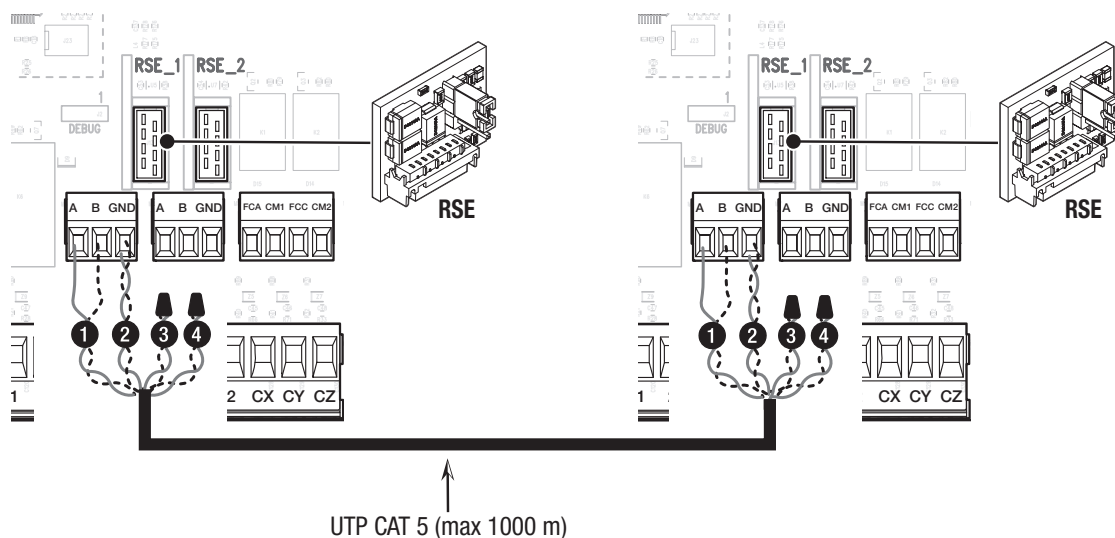
Connect the two electronic boards with a UTP CAT 5 cable.

Fit a RSE card on both control boards, using the RSE_1 connector.

Proceed with the electrical connection of the devices and accessories.

For electrical connections of the devices and accessories, see the ELECTRICAL CONNECTIONS chapter.

The devices and accessories must be connected to the control board which will be set as MASTER.



Programming

All programming operations described below must be performed only on the control board set as MASTER.

Select the [Combined] system type when following the guided procedure, or configure the RSE_1 port to [Combined] mode.

After programming the MASTER automation in [Combined], the second automation automatically becomes SLAVE.

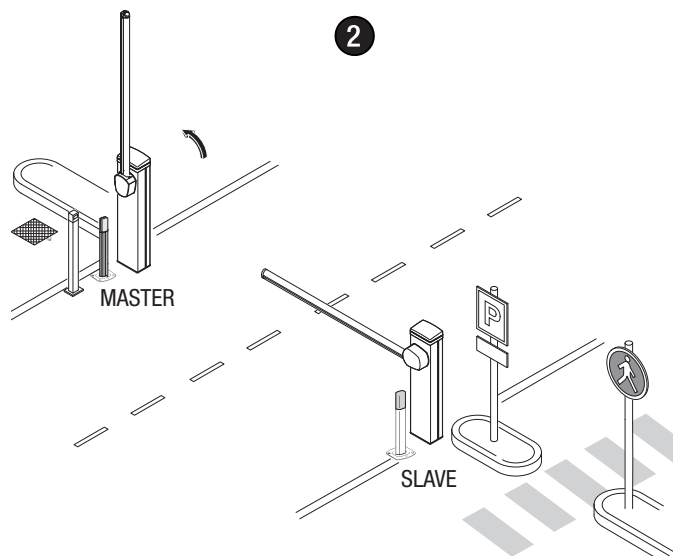
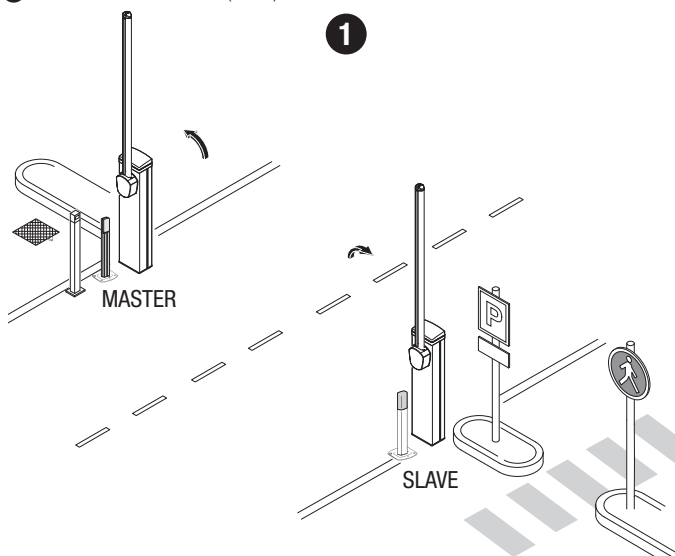
Saving users

All user storage operations must be performed only on the control board set as MASTER.

For user storage operations, see the [New User] function.

Operating modes

- 1 OPEN-CLOSE command (2-7), OPEN ONLY (2-3) or CLOSE ONLY (2-4)
- 2 OPEN ONLY command (2-3P)



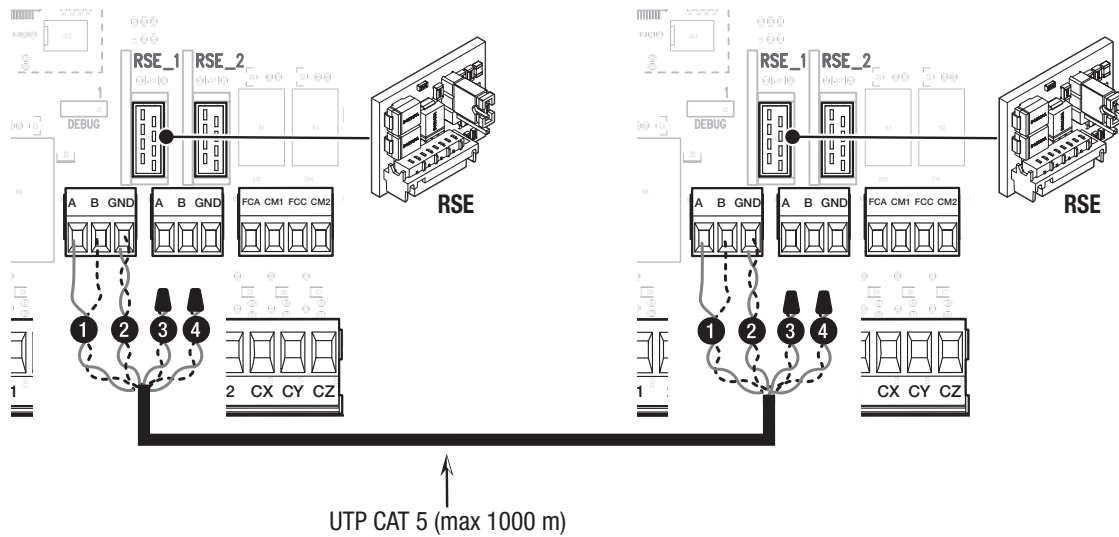
ALTERNATE OPERATION

Opening of the first barrier, passage of the vehicle, closing of the first barrier, opening of the second barrier, passage of the vehicle and closing of the second barrier.

Electrical connections

Connect the two electronic boards with a UTP CAT 5 cable.
Fit a RSE card on both control boards, using the RSE_1 connector.
Proceed with the electrical connection of the devices and accessories.

- For electrical connections of the devices and accessories, see the ELECTRICAL CONNECTIONS chapter.
- The control and safety devices must be connected on both electronic boards.



Programming

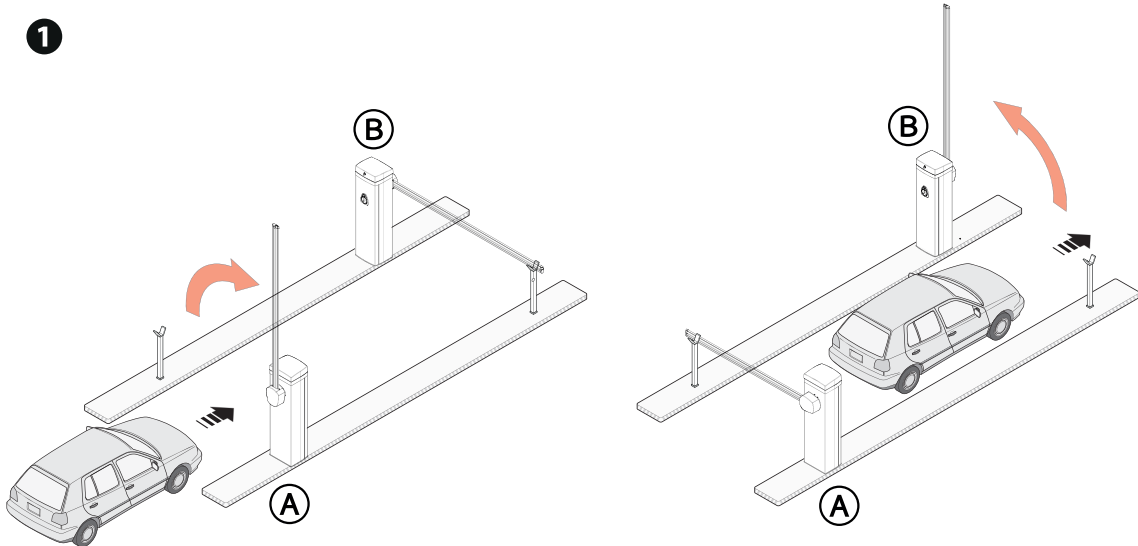
- Choose one of the two operations described below.
On one of the two barriers, select [Alternate] as type of installation, during the guided procedure.
On one of the two barriers, configure the [RSE_1] function in [Alternate].
It activates the function [Automatic cls] on both control boards.

Saving users

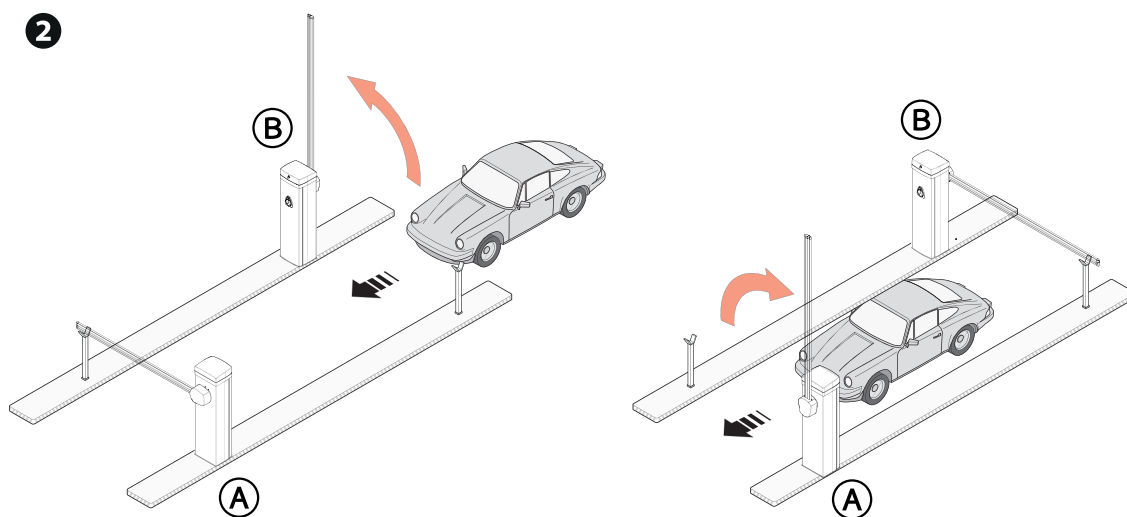
- For user storage operations, see the [New User] function.
- When programming users, do not use the 2-3P OPEN ONLY command.

Operating modes

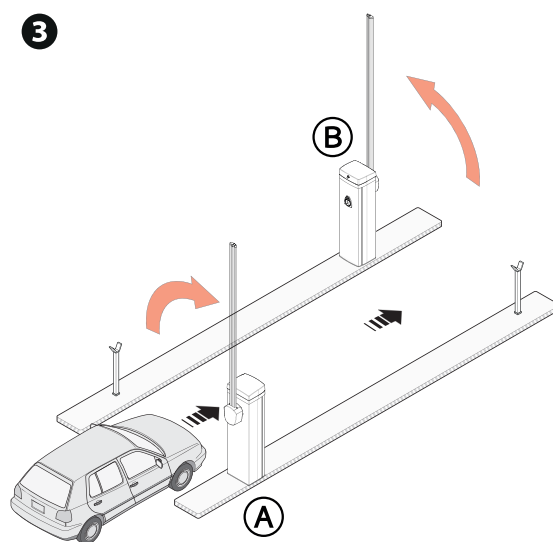
1 - ONLY OPEN command (2-3) on barrier A



2 - ONLY OPEN command (2-3) on barrier B





3 - OPEN-CLOSE command (2-7) on barrier A or B for emergency opening



MCBF		
MODELS	GPX40MGP	GPX40MGS
Boom L = 3.05 m	5000000	5000000
Boom L = 4.05 m	0%	0%
Boom L = 3.05 m with joint	0%	0%
Boom L = 4.05 m with joint	0%	0%

 The percentages indicate how much the number of cycles should be reduced in relation to the type and number of accessories installed.

 The type of intervention and the maintenance frequency are decided by the installer, considering the use, place of installation and number of daily cycles.

 If the barrier is not used for long periods, for example in the case of installations in places with seasonal opening, it is advisable to release the balancing spring and remove the boom.

 For information on correct installation and adjustments, refer to the product installation manual.

 For information about product and accessory choice, browse the products catalog.

 If the barrier with articulated joint is used, check that the movement elements of the joint are in good condition and, if necessary, replace them.

Every 500,000 cycles and in any case every 6 months of operation, the maintenance interventions indicated below are mandatory.

- 1 - Perform a general and complete check on the tightness of the nuts and bolts.
- 2 - Check the 45° boom balance and if necessary tension the balancing spring, adjusting its traction operating on the hooking tie rods.
- 3 - Lubricate the balancing spring with the spring fully extended.
- 4 - Lubricate all moving mechanical parts, for example the articulated parts and joints.
- 5 - Check the proper working state of the indicating and safety devices.
- 6 - Check that the microswitch connected to the cabinet cover is working correctly.
- 7 - Check the correct operation of the microswitch connected to the manual release, and of the microswitch connected to the release accessories (optional).

Every 2,500,000 cycles and in any case every 12 months of operation, the maintenance interventions indicated below are mandatory.

- 1 - Replace the balancing spring.

ERROR MESSAGES	
Calibration error	Interruption of the boom travel calibration due to the presence of an obstruction.
The Encoder does not work	The Encoder is disconnected. The Encoder is broken.
Services test failure error	Presence of an obstruction within the range of the photocells. The photocells are not correctly connected or configured. The photocells are faulty.
Work time expired	Finished the maximum work time set.
Hatch open	The operator is released.
Maximum number of closing obstructions	Exceeded the maximum number of obstacles consecutively detected
Maximum number of opening obstructions	Exceeded the maximum number of obstacles consecutively detected
Maximum number of obstructions	Exceeded the maximum number of obstacles consecutively detected
Serial communication error	Configured on the wrong RSE port.
Incompatible remote control	The transmitter used is not CAME. The coding set is different from that of the transmitter. The transmitters are TWIN and have different KEY BLOCK.
Slave door open	The SLAVE operator is released.
Detached boom	The boom was pushed-open. Incorrect ARM contact wiring. Boom not present detection sensor.
Released motor	The boom has been released by the gearmotor and it can be moved manually. Open gearmotor safety microswitch contact.

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/ Wytwórca / Fabrikant

Came S.p.a.

Indirizzo / address / adresse / adresse / direccìon / endereço / adres / adres

Via Martiri della Libertà 15 - 31030 Dosson di Casier, Treviso - Italy



DICHIARA CHE LA BARRIERA STRADALE / DECLARES THAT THE AUTOMATIC BARRIERS / ERKLÄRT DASS DIE AUTOMATISCHE SCHRANKENSYSTEME / DECLARE QUE LA BARRIÈRE AUTOMATIQUE / DECLARA QUE LA BARRERAS AUTOMÁTICAS / DECLARA QUE A BARRERA AUTOMÁTICA / OSWADCZA ZE SZLABANY AUTOMATYCZNA / VERKLAART DAT DE AUTOMATISCHE SLAGBOOM

GPX40MGS
GPX40MGP
GPX40MGC

E' CONFORME ALLE DISPOSIZIONI DELLE SEGUENTI DIRETTIVE / IT COMPLIES WITH THE PROVISIONS OF THE FOLLOWING DIRECTIVES / DEN VORGABEN DER FOLGENDEN RICHTLINIEN ENTSPRECHEN / IL EST CONFORMES AUX DISPOSITIONS DES DIRECTIVES SUIVANTES / CUMPLEN CON LAS DISPOSICIONES DE LAS SIGUIENTES DIRECTIVAS / ESTÃO DE ACORDO COM AS DISPOSIÇÕES DAS SEGUINTE DIRECTIVAS / SA ZGODNE Z POSTANOWIENIAMI NASTĘPUJĄCYCH DYREKTYW EUROPEJSKICH / VOLDÖEN AAN DE VOORSCHRIFTEN VAN DE VOLGENDE RICHTLIJNEN:

- COMPATIBILITA' ELETTROMAGNETICA / ELECTROMAGNETIC COMPATIBILITY / ELEKTROMAGNETISCHE VERTRÄGLICHKEIT / COMPATIBILITE ELECTROMAGNETIQUE / COMPATIBILIDAD ELECTROMAGNETICA / COMPATIBILIDADE ELETTROMAGNETICA / KOMPATYBILNOŚCI ELEKTROMAGNETYCZNEJ / ELEKTROMAGNETISCHE COMPATIBILITEIT : 2014/30/UE.

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

EN 61000-6-2:2005+EC:2005+HS1:2005

EN 61000-6-4:2007+A1:2011

EN 62233:2008

EN 60335-1:2012+AC:2014+A11:2014

RISPETTA I REQUISITI ESSENZIALI APPLICATI: / MEET THE APPLICABLE ESSENTIAL REQUIREMENTS: / DEN WESENTLIJCHEN AANGEWANDTEN ANFORDERUNGEN ENTSPRECHEN: / RESPECTENT LES CONDITIONS REQUISES NECESSAIRES APPLIQUEES: / CUMPLEN CON LOS REQUISITOS ESSENCIALES APLICADOS: / RESPETAM O REQUISITOS ESSENCIAIS APLICADOS: / SPEŁNIAJA PODSTAWOWE WYMAGANIA WYRUNKI: / VOLDÖEN 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; 1.5.11; 1.5.13; 1.6.1; 1.6.3; 1.6.4; 1.7.1; 1.7.2; 1.7.4

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La documentazione tecnica pertinente è stata compilata in conformità all'allegato VIII. / The pertinent technical documentation has been drawn up in compliance with attached document VIII. / Die relevante technische Dokumentation wurde entsprechend der Anlage VIII ausgestellt. / La documentation technique spécifique a été remplie conformément à l'annexe IIB / La documentación técnica pertinente ha sido rellenada en cumplimiento con el anexo VIII. / A documentação técnica pertinente foi preenchida de acordo com o anexo VIII. / Odnosna dokumentacja techniczna została zredagowana zgodnie z załącznikiem VIII. / De technische documentatie terzake is opgesteld in overeenstemming met de bijlage VIII.

CAME S.p.a. si impegna a trasmettere, in risposta a una richiesta adeguatamente motivata delle autorità nazionali, informazioni pertinenti sulle quasi macchine, e / Came S.p.A., following a duly motivated request from the national authorities, undertakes to provide information related to the quasi machines, and / Die Firma Came S.p.A. verpflichtet sich auf eine angemessen motivierte Anfrage der staatlichen Behörden Informationen über die unvollständigen Maschinen, zu übermitteln, und / Came S.p.A. s'engage à transmettre, en réponse à une demande bien fondée de la part des autorités nationales, les renseignements relatifs aux quasi machines / Came S.p.A. se compromete a transmitir, como respuesta a una solicitud adecuadamente fundada por parte de las autoridades nacionales, informaciones relacionadas con las cuasimáquinas / Came S.p.A. compromete-se em transmitir, em resposta a uma solicitação motivada apropriadamente pelas autoridades nacionais, informações pertinentes às partes que compoñam máquinas / Came S.p.A. zobowiązuje się do udzielenia informacji dotyczących maszyn nieukończonych na odpowiednio umotywowaną prośbę, złożoną przez kompetentne organy państwowe / Came S.p.A. verbindt zich ertoe om op niet redenen omkleed verzoek van de nationale autoriteiten de relevante informatie voor de niet voltooid machine te verstrekken.

VIETA / FORBIDS / VERBIETET / INTERDIT / PROHIBE / PROIBE / ZABRANIA SIE / VERBIEDT

la messa in servizio finché la macchina finale in cui deve essere incorporata non è stata dichiarata conforme, se del caso alla 2006/42/CE, / 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 / die Inbetriebnahme bevor die „Endmaschine“ in die die unvollständige Maschine eingebaut wird, als konform erklärt wurde, gegebenenfalls gemäß der Richtlinie 2006/42/EU. / la mise en service tant que la machine finale dans laquelle elle doit être incorporée n'a pas été déclarée conforme, le cas échéant, à la norme 2006/42/CE. / la puesta en servicio hasta que la máquina final en la que será incorporada no haya sido declarada de conformidad de acuerdo a la 2006/42/CE / a colocação em funcionamento, até que a máquina final, onde devem ser incorporadas, não for declarada em conformidade, se de acordo com a 2006/42/CE. / Uruchomienie urządzenia do czasu, kiedy maszyna, do której ma być wbudowany, nie zostanie oceniona jako zgodna z wymogami dyrektywy 2006/42/WE, jeśli taka procedura była konieczna. / deze in werking te stellen zolang de eindmachine waarin de niet voltooid machine moet worden ingebouwd in overeenstemming is verklaard, indien toepasselijk met de richtlijn 2006/42/EG.

Dosson di Casier (TV)
8 Marzo / March / März / Mars /
Marzo / Março / Marzec / Maart 2019

Legale Rappresentante / Legal Representative /
Gesetzlicher Vertreter / Représentant légal /
Representanta legal / Representante legal /
Przedstawiciel prawny / Wettelijke vertegenwoordiger

Andrea Menozzo

Fascicolo tecnico a supporto / Supporting technical dossier / Unterstützung technische Dossier / Soutenir dossier technique / Apoyo expediente técnico / Apolar dossier técnico / Wspieranie dokumentacji technicznej / Ondersteunende technische dossier: 803BB-0120


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DICHIARAZIONE DI INCORPORAZIONE allegato / DECLARATION OF INCORPORATION annex / ERKLÄRUNG FÜR DEN EINBAU anhang / DECLARATION D'INCORPORATION annexe / DECLARACION DE INCORPORACIÓN anexo / DECLARAÇÃO DE INCORPORAÇÃO anexo / DEKLARACJA WBUDOWANIA załącznik / INBOUWERKLARING bijlage IIB - 2006/42/CE

DISMANTLING AND DISPOSAL

 CAME S.p.A. employs an Environmental Management System at its premises. This system is certified and compliant with the UNI EN ISO 14001 regulation standard to ensure that the environment is respected and 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!

DISPOSING OF THE PRODUCT

Our products are made of various materials. Most of these (aluminium, 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!



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