



Automatic road barriers GARD PT Brushless

FA01440-EN

**GPT40AGS
GPT40RGS
GPT40AGL**

INSTALLATION MANUAL**EN****English**

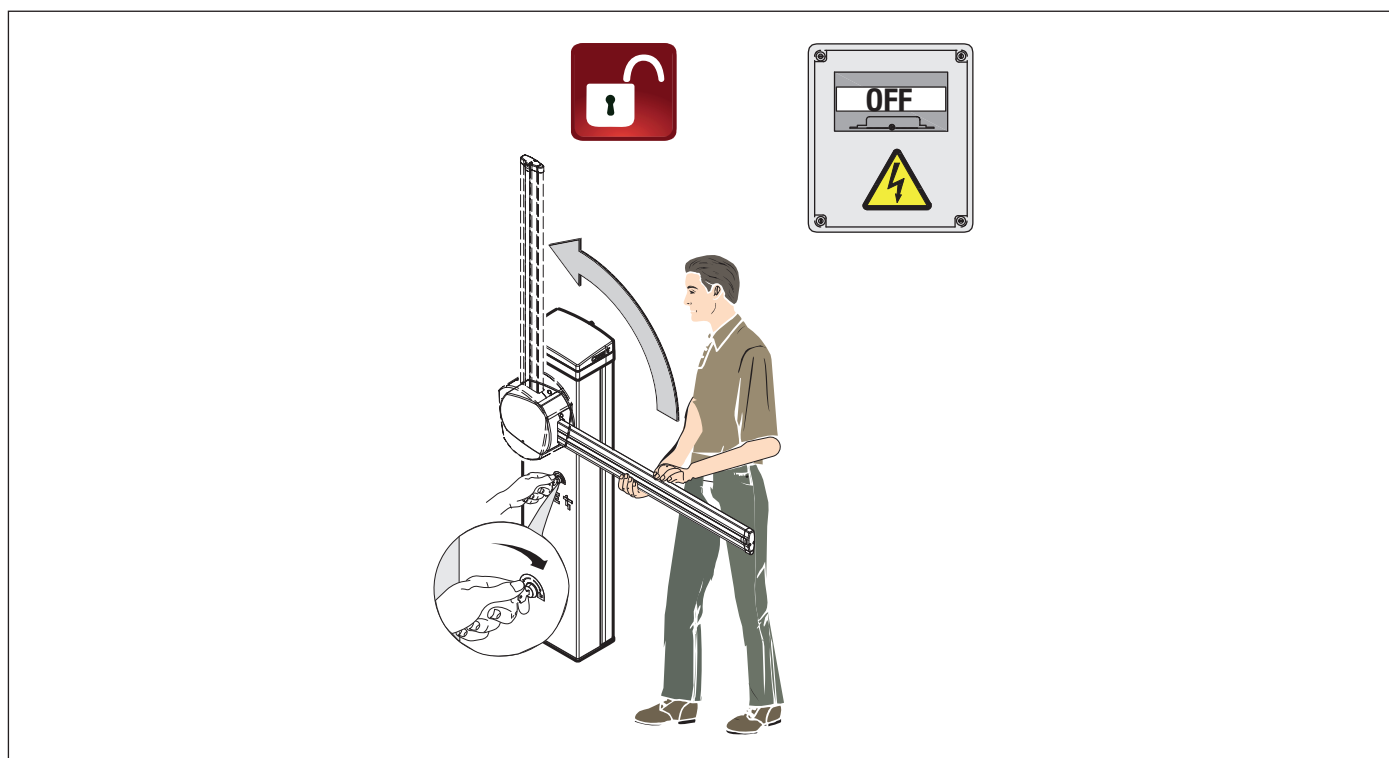


DEVICE MANUAL RELEASE

⚠ Releasing the device may be dangerous for the user, if the boom fastening has been damaged or if the boom is no longer intact, as the result of an accident or installation error.

In these cases, the tensioned springs no longer guarantee that the boom is balanced. The boom may suddenly rotate when being released.

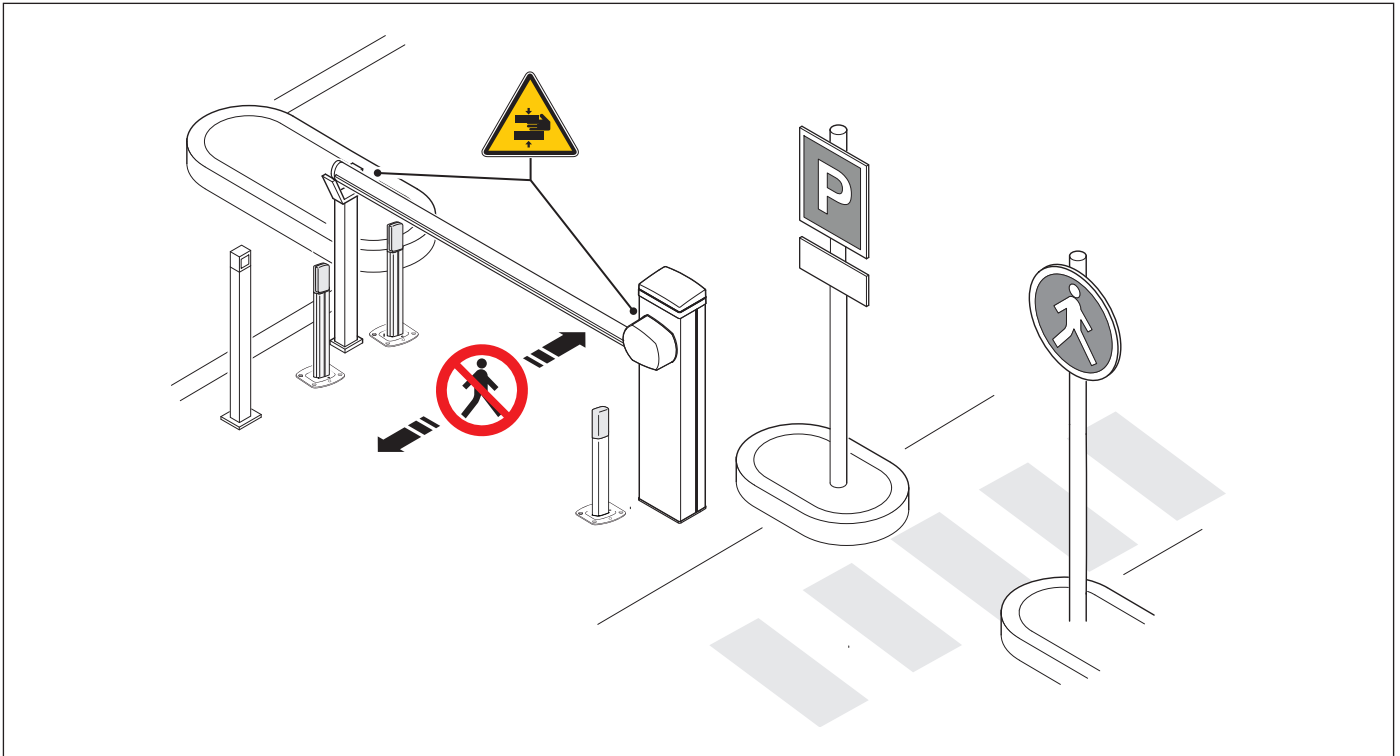
📖 With the gearmotor released, the operator does not work.



△ Important safety instructions.**△ Please follow all of these instructions. Improper installation may cause serious bodily harm.****△ Before continuing, please also read the general precautions for users.**

Only use this product for its intended purpose. Any other use is hazardous. • The manufacturer cannot be held liable for any damage caused by improper, unreasonable or erroneous use. • This product is defined by the Machinery Directive (2006/42/EC) as partly completed machinery. • Partly completed machinery means an assembly which is almost machinery but which cannot in itself perform a specific application. • Partly completed machinery is only intended to be incorporated into or assembled with other machinery or other partly completed machinery or equipment thereby forming machinery to which the Machinery Directive (2006/42/EC) applies. • The final installation must comply with the Machinery Directive (2006/42/EC) and the European reference standards in force. • The manufacturer declines any liability for using non-original products, which would also void the warranty. • All operations indicated in this manual must be carried out exclusively by skilled and qualified personnel and in full compliance with the regulations in force. • The device must be installed, wired, connected and tested according to good professional practice, in compliance with the standards and laws in force. • Make sure the mains power supply is disconnected during all installation procedures. • Check that the temperature ranges given are suitable for the installation site. • Make sure that opening the automatic barrier does not constitute a hazard. • Do not install on slopes i.e. any surfaces that are not perfectly level. • Do not install the operator on surfaces that could yield and bend. If necessary, add suitable reinforcements to the anchoring points. • Make sure that no direct jets of water can wet the product at the installation site (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 the entire site properly to prevent unauthorised personnel from entering, especially minors. • In case of manual handling, have one person for every 20 kg that needs hoisting; for non-manual handling, use proper hoisting equipment in safe conditions. • When the operator is being fixed in place, it may be unstable and overturn. Be careful and do not lean on it until it is fully fastened in place. • Use suitable protection to prevent any mechanical hazards due to persons loitering within the operating range of the operator. • The electrical 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 parts are suitably far away from the wiring. • The electrical cables must not touch any parts that may overheat during use (such as the motor and transformer). • All fixed controls must be clearly visible after installation, in a position that allows the guided part to be directly visible, but far away from moving parts. In the case of a hold-to-run control, this must be installed at a minimum height of 1.5 m from the ground and must not be accessible to the public. • If the passage is wider than 3 m, you must use a fixed support for the boom. • If not already present, apply a permanent tag that describes how to use the manual release mechanism close to it. • Make sure that the operator has been properly adjusted and that the safety and protection devices and the manual release are working properly. • Before handing over to the final user, check that the system complies with the harmonised standards and the essential requirements of the Machinery Directive (2006/42/EC). • Any residual risks must be indicated clearly with proper signage affixed in visible areas, and explained to end users. • Put the machine's ID plate in a visible place when the installation is complete. • If the power supply cable is damaged, it must be immediately replaced by the manufacturer or by an authorised technical assistance centre, 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. • Make sure to hand over to the end user all the operating manuals of the products that make up the final machinery.


Main points of danger for people



 Risk of trapping hands.

 No transiting.

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 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, etc.) can be disposed of easily as solid urban waste, separated for recycling.

Before dismantling and disposing of the product, please always check the local laws in force.

DISPOSE OF THE PRODUCT RESPONSIBLY.

DISPOSING OF THE PRODUCT

Our products are made of various materials. Most of these materials (aluminium, plastic, iron and electrical cables) are classified as solid urban waste. They can be separated for recycling and disposed of at authorised waste treatment plants.

Other components (electronic boards, transmitter batteries, etc.) may contain pollutants.

These must be removed and disposed of by an authorised waste disposal and recycling firm.


It is always advisable to check the specific laws that apply in your area.

DISPOSE OF THE PRODUCT RESPONSIBLY.

PRODUCT DATA AND INFORMATION

Key

 This symbol shows which parts to read carefully.

 This symbol shows which parts describe safety issues.

 This symbol shows what to tell users.

 The measurements, unless otherwise stated, are in millimetres.

Description

803BB-0070

GPT40AGS - Automatic barrier with reversible gearmotor and brushless motor; painted aluminium cabinet.

803BB-0140


GPT40RGS - Automatic barrier powered at 120 V AC with reversible gearmotor and brushless motor; painted aluminium cabinet.

803BB-0330

GPT40AGL - Automatic barrier with irreversible gearmotor and brushless motor; painted aluminium 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..

Usage limitations

MODELS	GPT40AGS	GPT40RGS	GPT40AGL
Max. net clearance width (m)	3,8	3,8	3,8

Technical data

MODELS	GPT40AGS	GPT40RGS	GPT40AGL
Power supply (V - 50/60 Hz)	230 AC	120 AC	230 AC
Motor power supply (V)	36 DC	36 DC	36 DC
Standby consumption (W)	12	12	12
Power (W)	350	350	350
Transformer thermal protection (°C)	120	120	120
Current draw (mA)	1,5	2,8	1,5
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Torque (Nm)	80 (with no springs) 140 (with springs)	80 (with no springs) 140 (with springs)	80 (with no springs) 140 (with springs)
Opening time at 90° (s)	1,2 ÷ 4	1,2 ÷ 4	1,2 ÷ 4
Duty cycle (%)	CONTINUOUS DUTY (with springs and boom up to 3.8 m) - INTENSIVE DUTY (without springs and with boom up to 2.5 m)	CONTINUOUS DUTY (with springs and boom up to 3.8 m) - INTENSIVE DUTY (without springs and with boom up to 2.5 m)	CONTINUOUS DUTY (with springs and boom up to 3.8 m) - INTENSIVE DUTY (without springs and with boom up to 2.5 m)
Protection rating (IP)	54	54	54
Insulation class	I	I	I
Weight (kg)	37	37	37

Fuse table

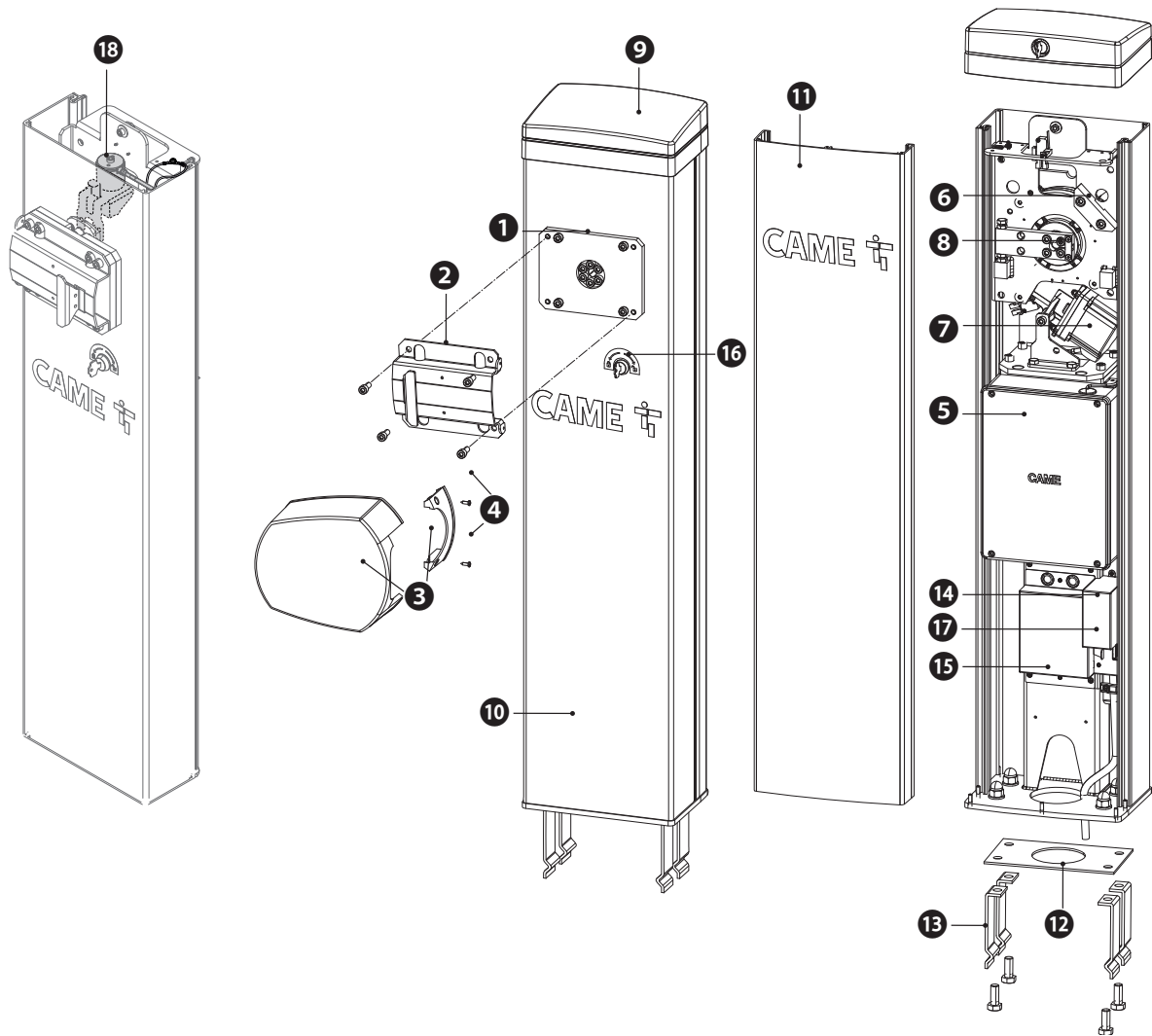
MODELS	GPT40AGS	GPT40RGS	GPT40AGL
Line fuse	3.15 A F	6.3 A F	3.15 A F
Accessory fuse	2 A F	2 A F	2 A F
Control board fuse	3.15 A F	3.15 A F	3.15 A F
Motor fuse	15 A F	15 A F	15 A F

Description of parts

Barrier

- ❶ Boom anchoring plate
- ❷ Fastening flange
- ❸ Anti-shearing cover
- ❹ Protective cover fastening screws
- ❺ Control panel
- ❻ Mechanical stop for the boom adjustment
- ❼ Gear motor with encoder
- ❽ Lever arm
- ❾ Cover
- ❿ Cabinet
- ⓫ Inspection hatch
- ⓬ Anchoring plate
- ⓭ Anchoring bracket
- ⓮ Filter cover
- ⓯ Transformer cover
- ⓰ Lock for release
- ⓱ Line fuse
- ⓲ Electric lock *

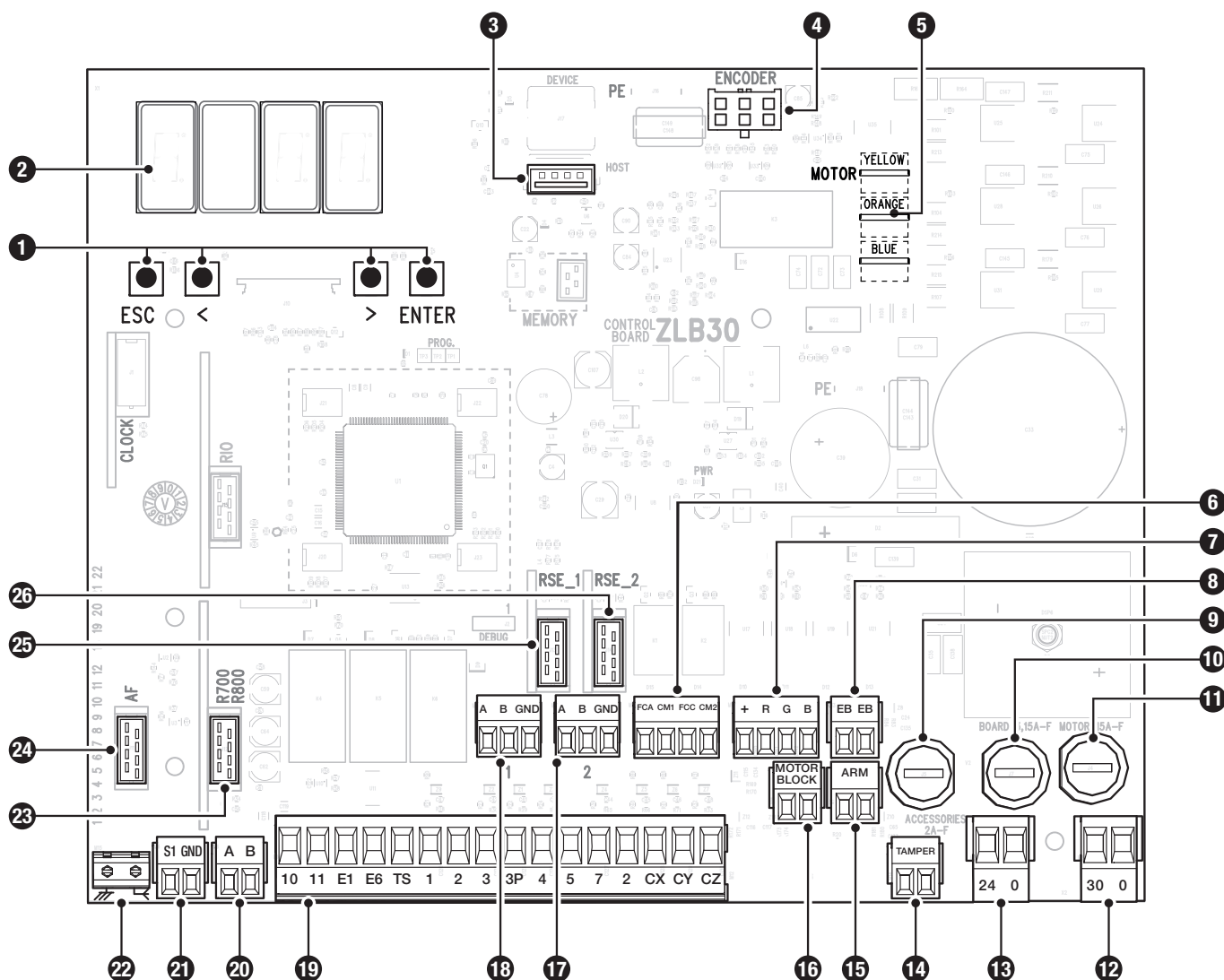
* Only for GPT40AGL.

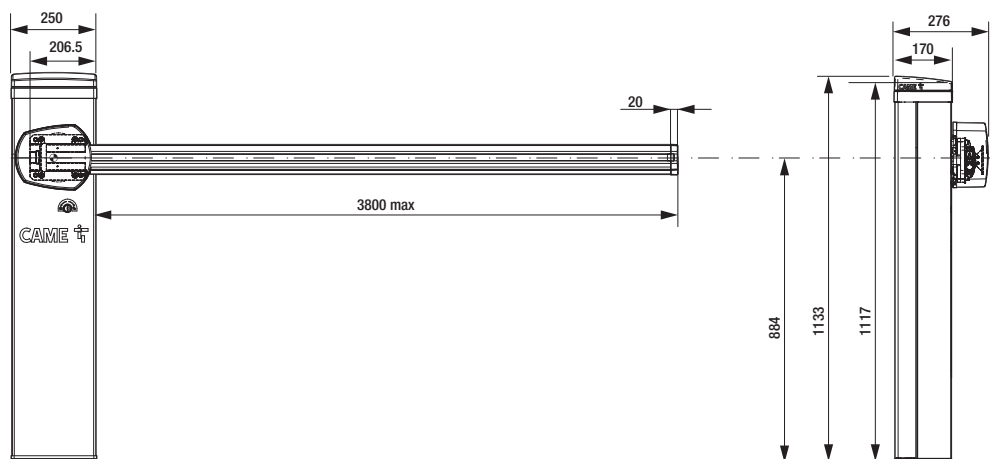


Control board

- 1 -Programming buttons
- 2 -Display
- 3 -USB stick connector
- 4 -Encoder connector
- 5 -Motor connector
- A p.n. ferrite ECQK922091 is applied to the cable
- 6 -Terminal board for barrier status
- 7 -Terminal board for connecting the warning LED strip
- 8 -Terminal board for connecting the electric lock
- 9 -Accessories fuse
- 10 -Control board fuse
- 11 -Motor fuse
- 12 -Terminal board for motor power supply
- 13 -Terminal board for power supply to the control board
- 14 -Terminal board for NC contact for open cover
- 15 -Terminal board for NC contact for boom drop away

- 16 -Terminal board for NC contact for gearmotor release
- 17 -Terminal board associated with the RSE_2 connector for CRP or CAME KEY connection
- 18 -Terminal board associated with the RSE_1 connector for paired or alternate connection
- 19 -Terminal board for connecting control and safety devices
- 20 -Terminal board for connecting the keypad selector
- 21 -Terminal board for connecting the transponder selector switch
- 22 -Terminal board for connecting the antenna
- 23 -Connector for the R700 or R800 decoding card
- 24 -Connector for plug-in radio frequency card (AF)
- 25 -RSE_1 connector for RSE card
- 26 -RSE_2 connector for RSE card





Cable types and minimum thicknesses

Cable length (m)	up to 20	from 20 to 30
Power supply 230 V AC	3G x 1.5 mm ²	3G x 2.5 mm ²
24 V AC/DC flashing beacon	2 x 1 mm ²	2 x 1 mm ²
TX Photocells	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
Command and control devices	* no. x 0.5 mm ²	* no. x 0.5 mm ²

* no. = see product assembly instructions - Warning: the cable cross-section is indicative and varies according to the motor power and cable length.

To connect the antenna, use RG58 cable (up to 5 m).

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

If the cable lengths differ from those specified in the table, define the cable cross-sections according to the actual power draw of the connected devices and in line with regulation CEI EN 60204-1.

For multiple, sequential loads along the same line, recalculate the values in the table according to the actual power draw and distances. For information on connecting products not covered in this manual, please see the documentation accompanying the products themselves.

For paired connection and CRP, use UTP CAT5 cable (up to 1,000 m).


Wind resistance

The table shows the boom wind-load resistance.

Resistance class with reference to the EN 13241 standard.


Type	Boom 2.25 m	Boom 3.05 m	Boom 4.05 m
Resistance class	5	4	3
Wind pressure [Pa]	1200	1000	800
Maximum wind speed [km/h]	144	132	118

INSTALLATION

 The following illustrations are examples only. The space available for fitting the operator and accessories varies depending on the area where it is installed. It is up to the installer to find the most suitable solution.

In case of manual handling, have one person for every 20 kg that needs hoisting; for non-manual handling, use proper hoisting equipment in safe conditions. When the operator is being fixed in place, it may be unstable and overturn. Be careful and do not lean on it until it is fully fastened in place.

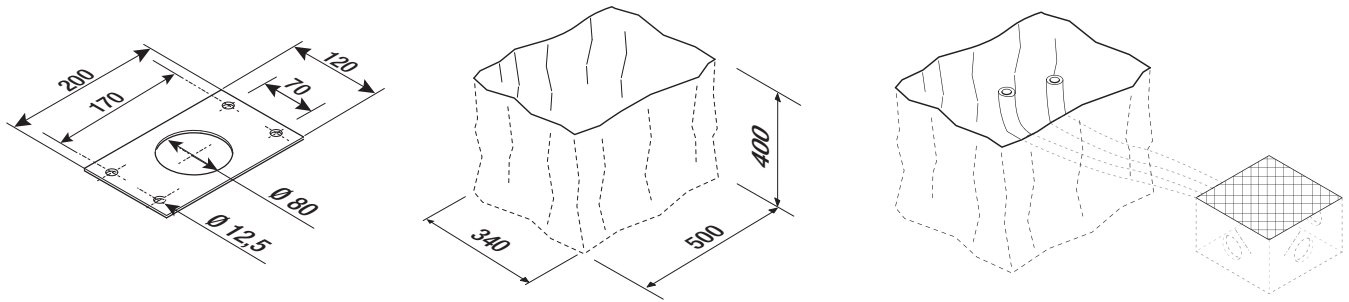
Preliminary operations

 If the flooring does not allow the device to be fastened in a solid and stable way, lay 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 fitted.

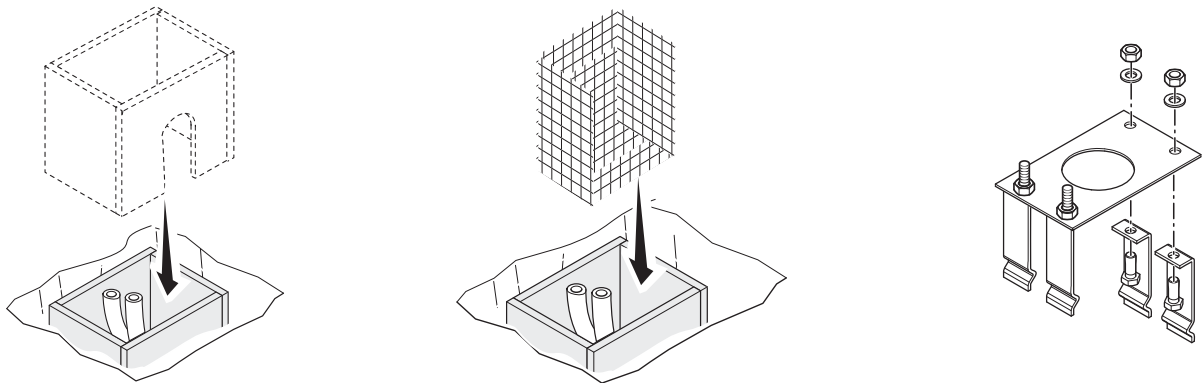


Laying the anchoring plate


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

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

Assemble the anchoring braces to the plate.



Fit the anchoring plate in the iron cage.

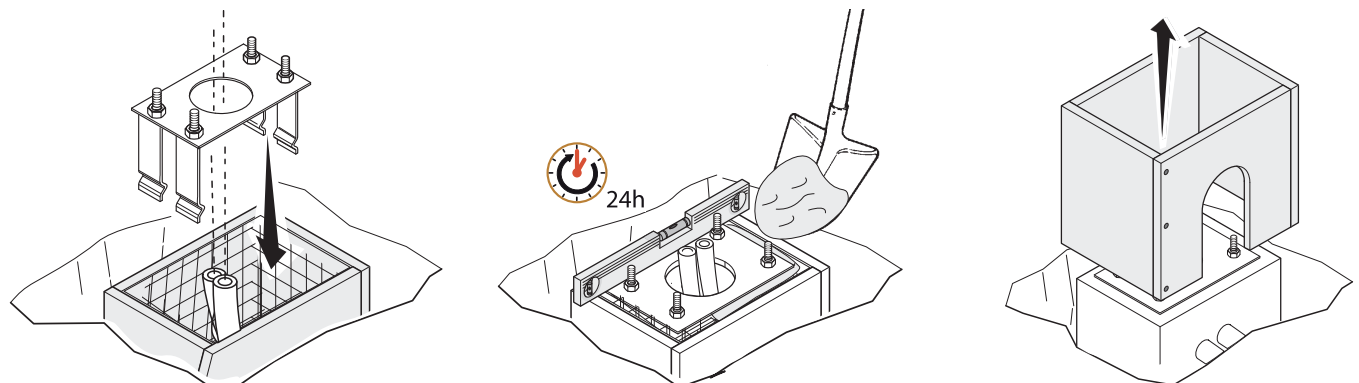
 The tubes must pass through the existing holes.

Cast cement into the foundation frame.

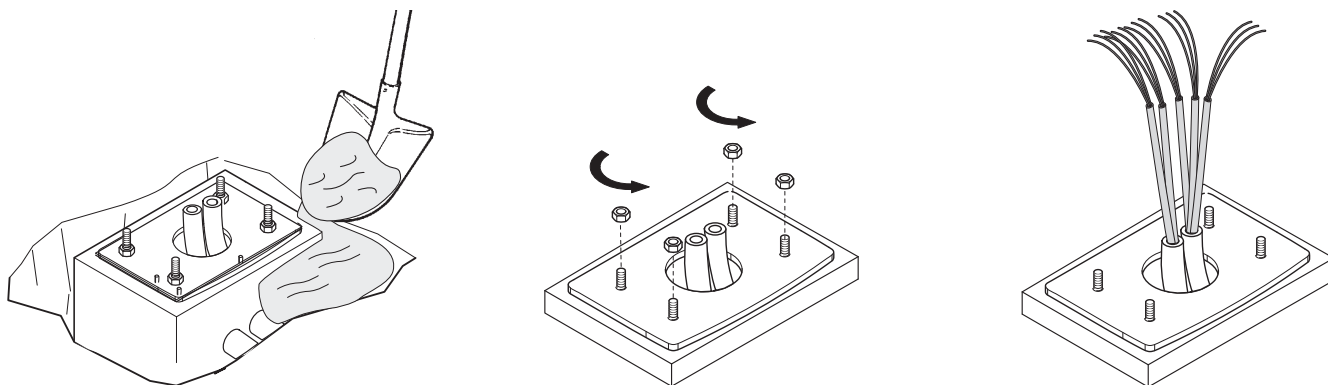
 The plate must be perfectly level and the screw threads completely above surface.

Wait at least 24 hours for the cement to dry.

Remove the foundation frame.

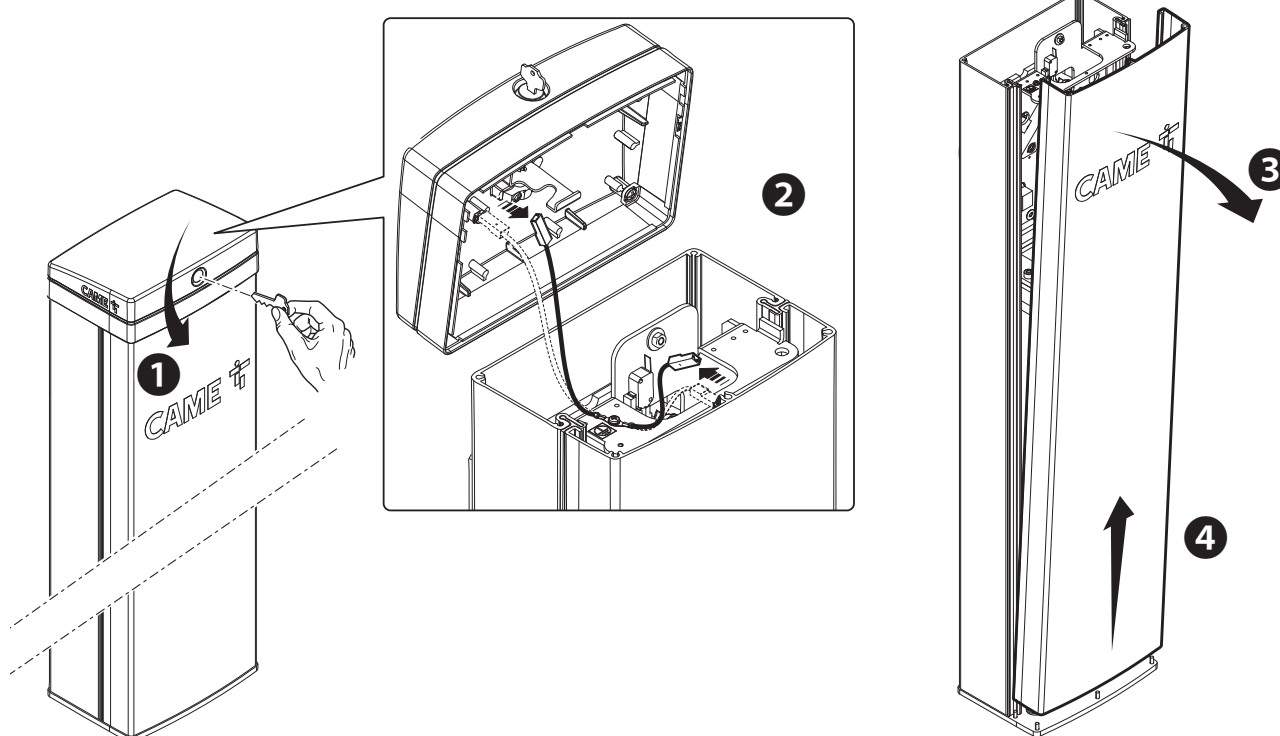


Fill the hole with soil around the concrete block.
 Remove the nuts from the screws.
 Thread the electrical cables into the tubes so that they protrude by about 1500 mm.

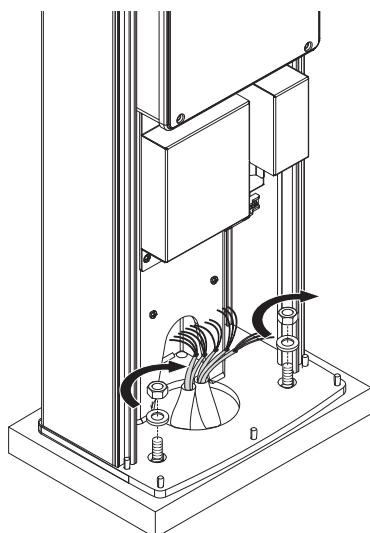


Preparing the barrier

With the cover open, the operator does not work.



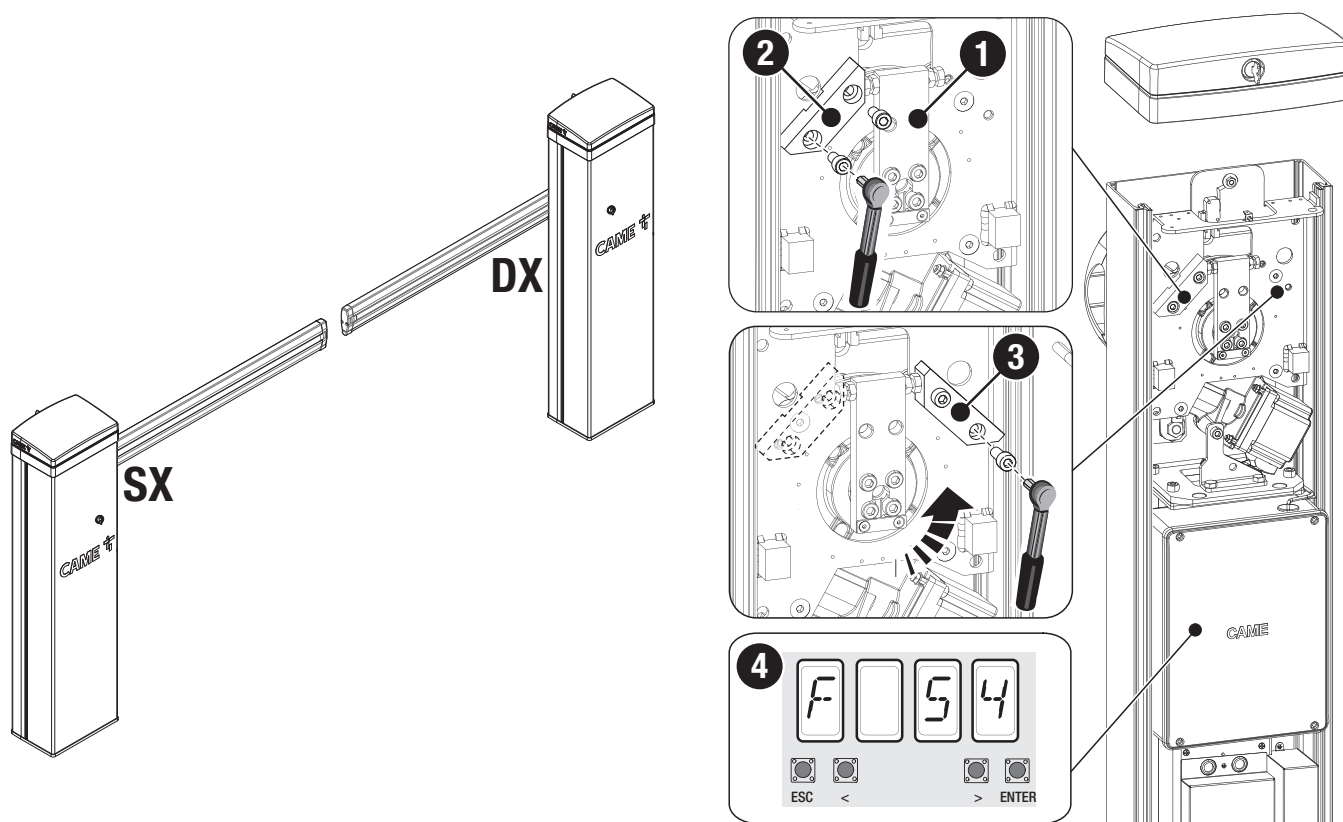
Fastening the barrier



Changing the boom opening direction

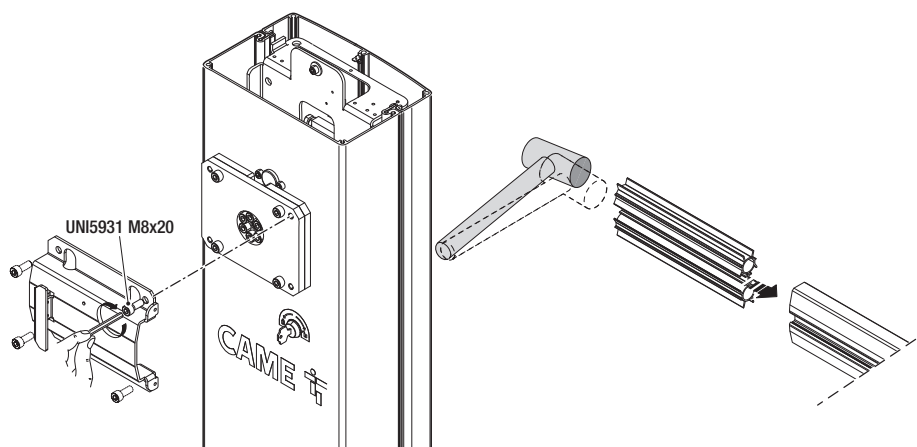
 The barrier is set up for installation on the left.

- 1 Check that the lever arm is positioned vertically.
- 2 Remove the mechanical stop.
- 3 Attach the mechanical stop to the right of the lever arm.
- 4 Edit the parameter for the function [Opening direction].

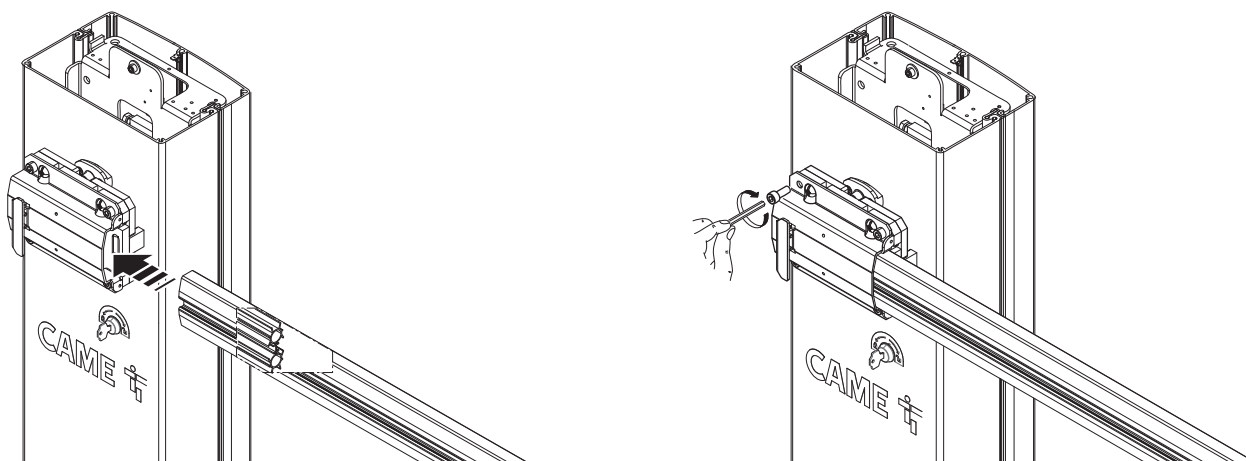


Boom installation

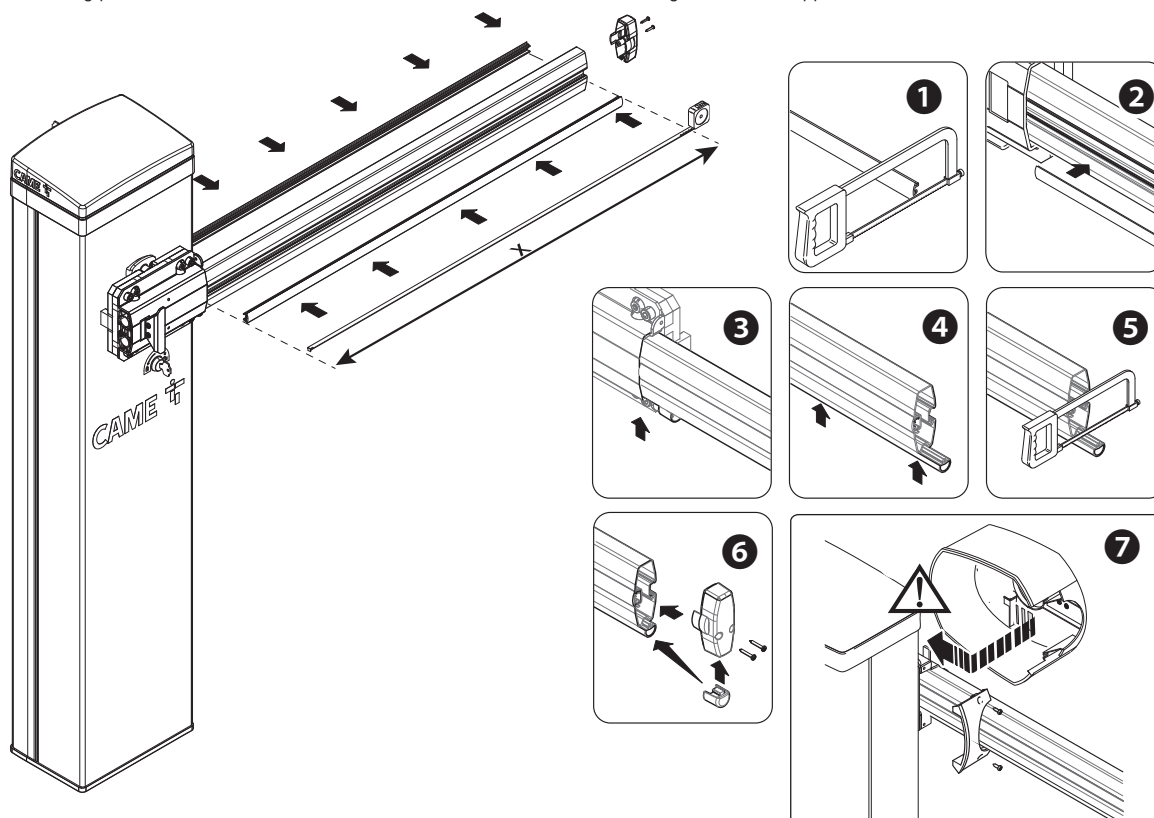
Insert the reinforcement inside the boom.



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



- ❶ Cut the slot-cover profiles to the same size as the boom slot minus 10 millimetres.
- ❷ Insert the slot-cover profiles into the grooves on both sides of the boom.
- ❸ Fit the rubber end cap in position.
- ❹ Insert the anti-impact rubber profile into the groove, aligning it with the end cap.
- ❺ Cut the excess part of the profile, leaving a 7 mm overhang.
- ❻ Insert the rubber profile end cap into the groove in the boom closing cap. Use the screws to fasten the boom end cap.
- ❼ Fit the anti-shearing protective cover onto the boom-attachment cover and fasten it using the screws supplied.



Boom set up

⚠ Before adjusting the boom, check the accessories you want to fit and the passage clearance width.

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

Passage width clearance / Duty-cycle intermittence	< 2.5 m / 80%	< 2.5 m / 100%	2.5 < 2.75 m / 100%	from 2.5 a 3.8 m / 100%
Simple boom	A1 = 1	A1 = 2	A1 = 1	A1 = 2
Boom with LED STRIP	A1 = 1	A1 = 2	A1 = 1	A1 = 2
Balance springs	NO	NO	A1 = 1	A1 = 2

📖 001G02807 fixed support: must be used for passage clearance widths exceeding 3 m.

📖 With A1 = 1, fast profile, the boom opening time varies from 1.2 to 2.5 seconds.

📖 With A1 = 2, slow profile, the boom opening time varies from 2.5 to 4 seconds.

Determining 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.

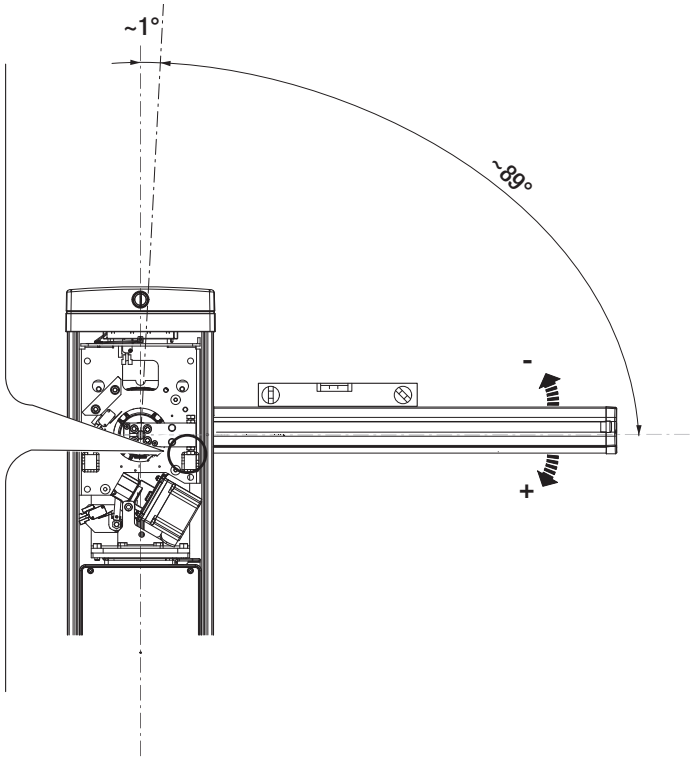
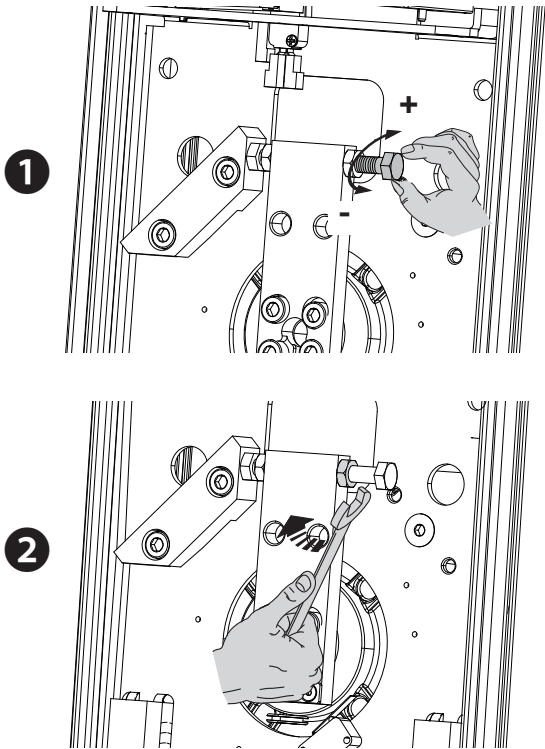
Correct the boom's horizontal position

Release the gearmotor.

Open the inspection hatch.

- 1 Turn the mechanical stop until you reach the desired boom position.
- 2 Fasten the mechanical stop with a locknut.

Lock the gearmotor



Correct the boom's vertical position

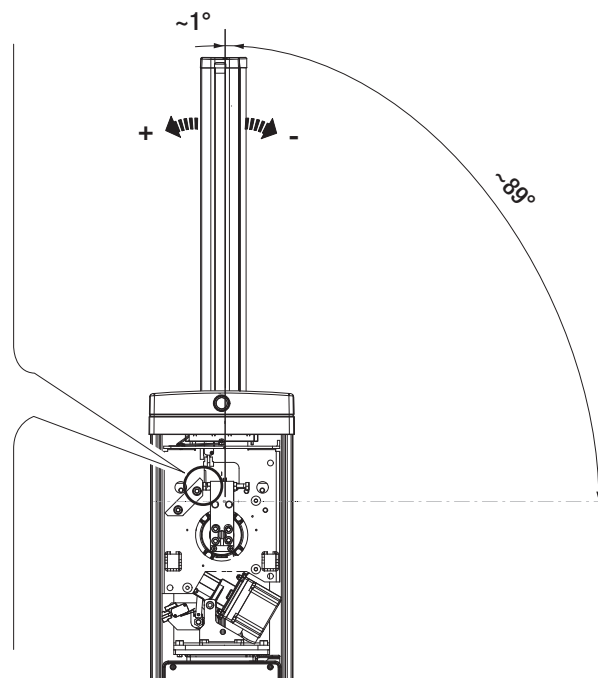
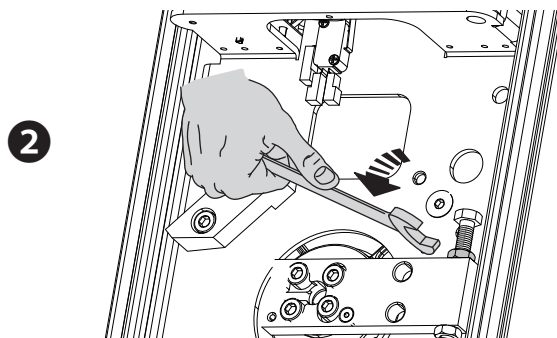
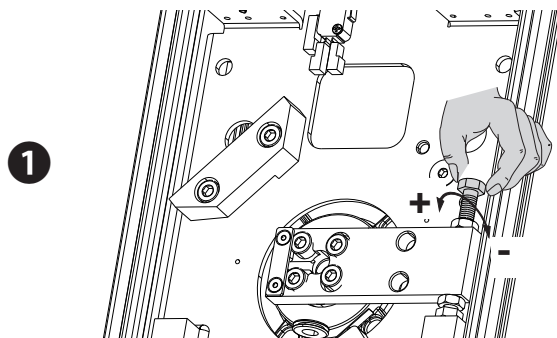
Release the gearmotor.

Open the inspection hatch.

❶ Turn the mechanical stop until you reach the desired boom position.


❷ Fasten the mechanical stop with a locknut.

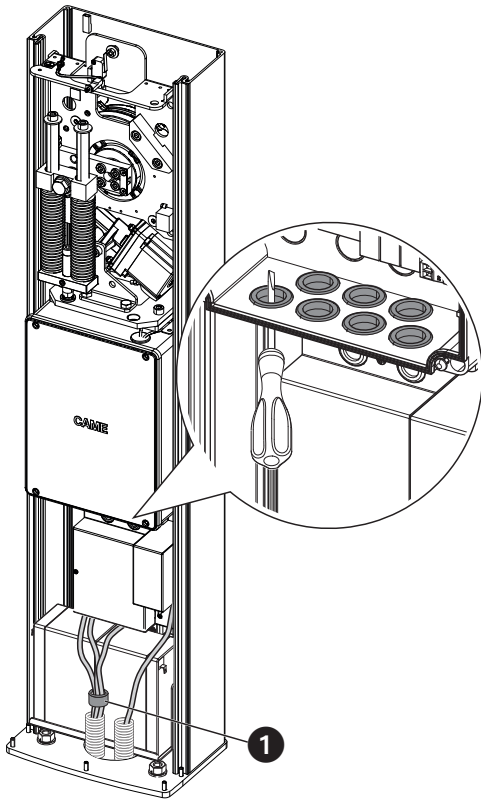
Lock the gearmotor




ELECTRICAL CONNECTIONS

Passing the electrical cables

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 parts are suitably far away from the wiring.
 The cables must pass through the ferrite included in the supply. ❶

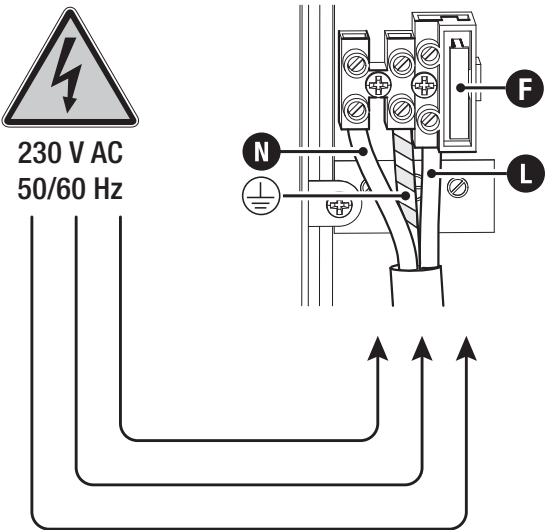


Power supply


Make sure the mains power supply is disconnected during all installation procedures.
 Before working on the control panel, disconnect the mains power supply and remove the batteries, if any.

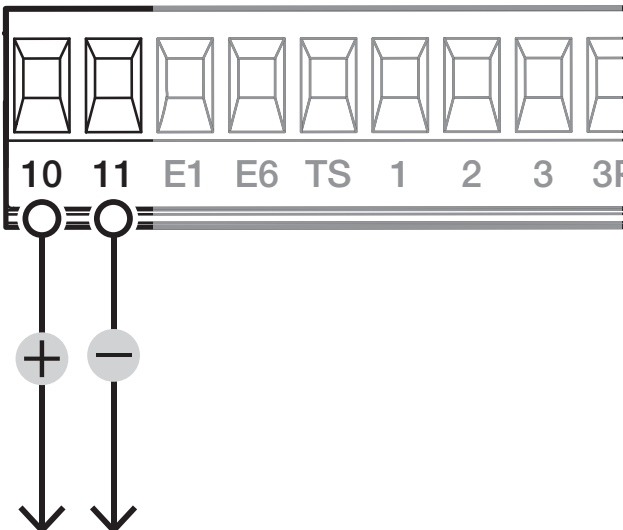
Connecting to the electrical mains

- ❶ Neutral
- ❷ Phase
- ⊕ Earth
- ❸ Line fuse



Power supply output for accessories

The output normally delivers 24 V AC.
The output delivers 24 V DC when the batteries start operating, if they are installed.
 The sum of the connected accessories input must not exceed 40 W.



Maximum capacity of contacts

Device	Output	Power supply (V)	Power (W)
Accessories	10 - 11	24 AC	40
Additional light	10 - E1	24 AC	20
Flashing beacon	10 - E1	24 AC	20
Operator status warning light	10 - 5	24 AC	3
RGB LED strip	-	-	13,5

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

Command and control devices

1 Antenna with RG58 cable

2 Card reader

3 Transponder selector switch

4 Keypad selector

5 TEMPORARY STOP button (NO contact)

It stops the boom and excludes the automatic closing; after 15 seconds the barrier opens slowly.

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

6 Control device (NO contact)

OPEN ONLY function

When the [HOLD-TO-RUN] function is active, the control device must be connected during OPENING.

7 Control device (NO contact)

PARTIAL OPENING function

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

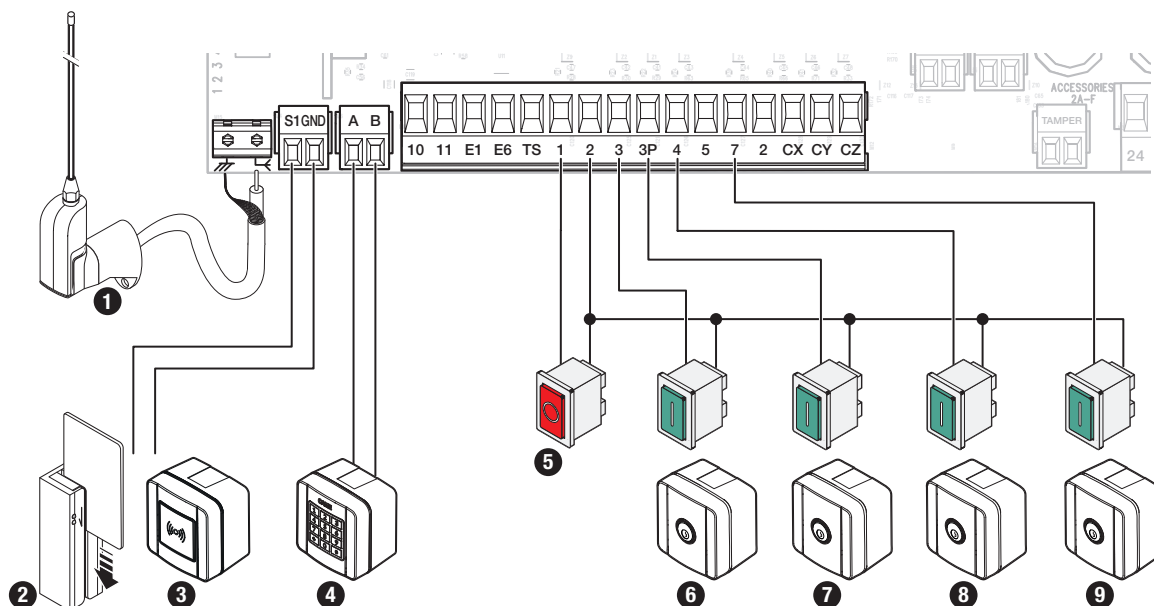
8 Control device (NO contact)

CLOSE ONLY function

When the [HOLD-TO-RUN] function is active, the control device must be connected during CLOSING.

9 Control device (NO contact)

OPEN-CLOSE function



Signalling devices

1 Additional light

It increases the light in the manoeuvring area.

2 Additional flashing beacon

It flashes when the operator opens and closes.

3 Operator status warning light

It notifies the user of the operator status.

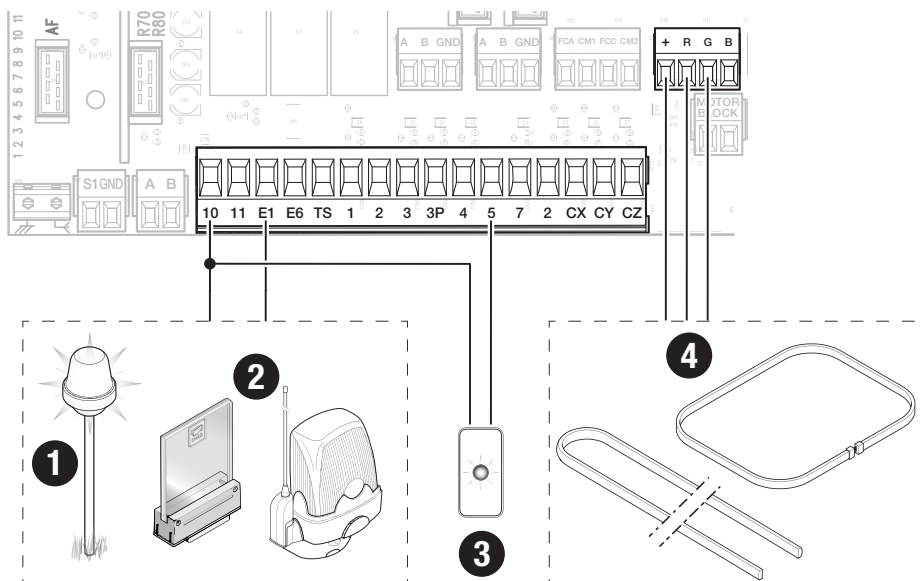
4 RGB LED strip and/or RGB crown

If the red LEDs are flashing, the operator is moving.

If the green LEDs are on, the operator is open.

If the red LEDs are on, the operator is closed.

If the red LEDs are flashing quickly, the inspection hatch is open, the gearmotor is released or the boom has fallen.



Safety devices

Connect the safety devices to the CX, CY and/or CZ inputs (NC contacts).

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.

DELTA photocells

Standard connection

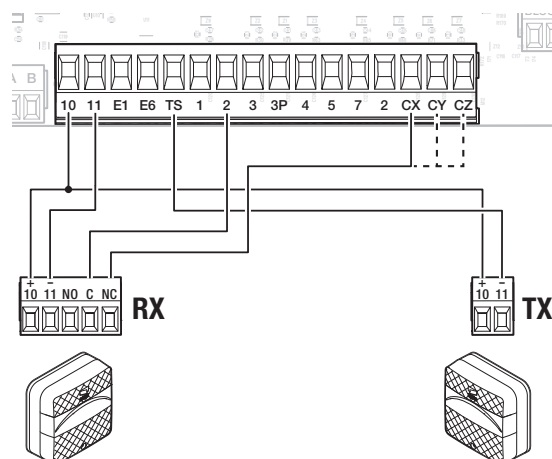
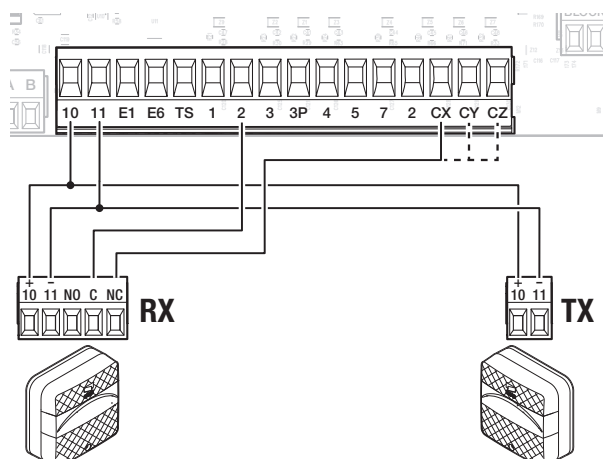
Multiple photocell pairs can be connected.

DELTA photocells

Connection with safety test

Multiple photocell pairs can be connected.

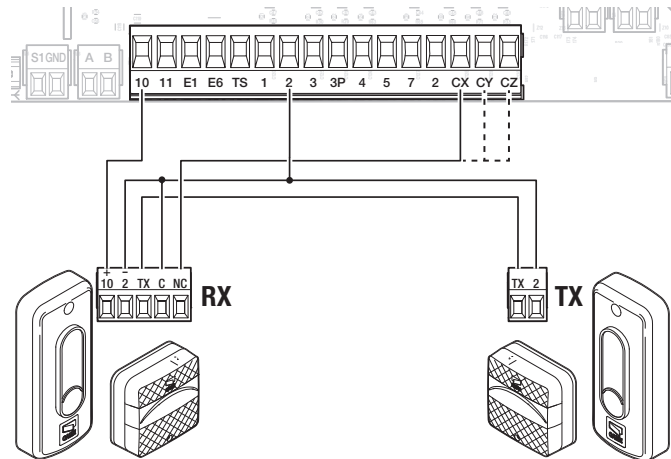
See function [F5] Safety devices test.



DIR / DELTA-S photocells

Standard connection

Multiple photocell pairs can be connected.

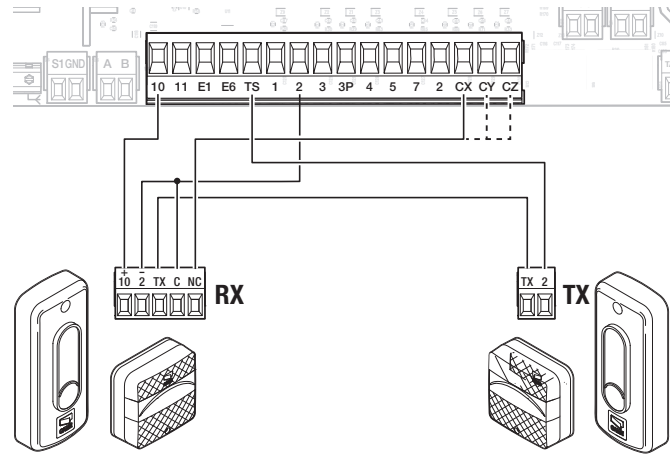


DIR / DELTA-S photocells

Connection with safety test

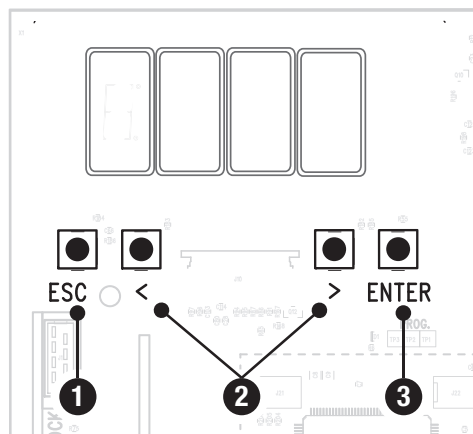
Multiple photocell pairs can be connected.

See function [F5] Safety devices test.



PROGRAMMING

Programming button functions



1 ESC button

The ESC button is used to perform the operations described below.
Exit the menu
Delete the changes
Go back to the previous screen
Stop the operator

2 <> buttons

The <> buttons are used to perform the operations described below.
Navigate the menu
Increase or decrease values
Open or close the operator

3 ENTER button

The ENTER button is used to perform the operations described below.
Access menus
Confirm a choice

Getting started

Once the electrical connections have been made, proceed with commissioning. Only skilled and qualified staff may perform this operation.
Make sure that there are no obstacles in the way.
Power up and proceed with the operations indicated below.

- F1 Temporary stop
- A1 Boom length
- A2 Motor test
- A3 Travel calibration

After powering up the system, the first manoeuvre is always to open the gate. Wait for the manoeuvre to be completed.
Press the ESC button or STOP button immediately in the event of any faults, malfunctions, strange noises or vibrations, or unexpected behaviour in the system.
If the display indicator LED flashes, this means that the electronic board has not yet been calibrated.
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.

Functions menu

Temporary stop

It stops the boom and excludes the automatic closing; after 15 seconds the barrier opens slowly.

F1	Temporary stop	OFF (Default) ON
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CX input

Associate a function with the CX input.

F2	CX input	OFF (Default) C1 = Reopen while closing (photocells) C4 = Obstacle standby (photocells) C5 = Immediate closure at the travel end during opening C7 = Reopen while closing (sensitive edges) C9 = Immediate closure at the travel end during opening with obstacle standby during closure C10 = Immediate closure during opening with obstacle standby during closure (NO contact) r7 = Reopen while closing (sensitive edges with 8K2 resistor)
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CY input

Associate a function with the CY input.

F3	CY input	OFF (Default) C1 = Reopen while closing (photocells) C4 = Obstacle standby (photocells) C5 = Immediate closure at the travel end during opening C7 = Reopen while closing (sensitive edges) C9 = Immediate closure at the travel end during opening with obstacle standby during closure C10 = Immediate closure during opening with obstacle standby during closure (NO contact) r7 = Reopen while closing (sensitive edges with 8K2 resistor)
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CZ input

Associate a function with the CZ input.

F4	CZ input	OFF (Default) C1 = Reopen while closing (photocells) C4 = Obstacle standby (photocells) C5 = Immediate closure at the travel end during opening C7 = Reopen while closing (sensitive edges) C9 = Immediate closure at the travel end during opening with obstacle standby during closure C10 = Immediate closure during opening with obstacle standby during closure (NO contact) r7 = Reopen while closing (sensitive edges with 8K2 resistor)
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Safety devices test

Check that the photocells connected to the inputs are operating correctly, after each opening and closing command.

F5	Safety devices test	OFF (Default) 1 = CX 2 = CY 3 = CZ 4 = CX+CY 5 = CX+CZ 6 = CY+CZ 7 = CX+CY+CZ
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Hold-to-run

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

 When the function is active, it excludes all other control devices.

F6	Hold-to-run	OFF (Default) ON
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Obstacle with motor stopped

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

F9	Obst. with motor stopped	OFF (Default) ON
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Open warning light
Barrier status warning.

F10	Open warning light	0 = Warning light on (default) - The light stays on when the boom is moving or open. 1 = Warning light flashing - The warning light flashes every half a second when the boom is opening and remains on when the boom is open. The light flashes every second when the boom is closing, and remains off when the boom is closed.
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Sensor type
Set the type of control device.


F14	Sensor type	0 = Transponder 1 = Keypad (Default)
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Electric lock
Choose the electric lock activation mode during boom manoeuvring.

 Only for GPT40AGL, the default parameter is [3].

F17	Electric lock	OFF (Default) 1 = The electric lock is deactivated during barrier opening and remains deactivated until the barrier is closed again. 3 = The electric lock is deactivated during boom opening or closing, but it is active when the barrier is open or closed.
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Light E1
Choose the type of device connected to the output.

F18	Light E1	0 =Flashing beacon (Default) 1 = Cycle light  The light remains off if an automatic closing time is not set.
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Automatic closure
Set the time before automatic closure is activated, once the opening travel end point has been reached.

 The function does not work if any of the safety devices are triggered when an obstacle is detected, or after a complete stop, or during a power outage.

F19	Automatic close	OFF (Default) From 1 to 180 seconds
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Pre-flashing time
Set the time for which the beacon is activated before each manoeuvre.

F21	Pre-flashing time	OFF (Default) 1 to 10 seconds
-----	-------------------	----------------------------------

Opening speed
Set the opening speed (percentage of maximum speed).

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

F28	Opening speed	from 60% to 100% (Default 70%)
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Closing speed

Set the closing speed (percentage of maximum speed).

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

F29	Closing speed	from 60% to 100% (Default 50%)
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Travel sensitivity

Adjust the obstruction detection sensitivity during boom travel.

F34	Travel sensitivity	10% to 100% (Default 100%) - 10% = maximum sensitivity - 100% = minimum sensitivity
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RSE1

Configure the function to be performed by the card inserted in the RSE1 connector.

F49	RSE1	OFF (Default) 1 = Paired 4 = Alternate
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Save data

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

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

F50	Save data	OFF (Default) ON
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Read data

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

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

F51	Read data	OFF (Default) ON
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Transferring MASTER-SLAVE parameters

Enable the sharing of parameters programmed on the Master barrier with the Slave barrier.

 This only appears if the F49 function is set to Paired or Alternate.

F52	Transferring MASTER-SLAVE parameters	OFF (Default) ON
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Opening direction

Set the boom opening direction.

F54	Opening direction	0 = To the left (default) 1 = To the right
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CRP address

Assign a unique identification code (CRP address) to the control board. It is used where there are multiple operators connected via CRP.

F56	CRP address	from 1 to 255
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RSE speed

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

F63	RSE speed	0 = 1200 bps 1 = 2400 bps 2 = 4800 bps 3 = 9600 bps 4 = 14400 bps 5 = 19200 bps 6 = 38400 bps (default) 7 = 57600 bps 8 = 115200 bps
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FCA FCC warnings

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

F70	FCA FCC warnings	OFF (Default) 1 = Impulse When the boom reaches the travel end point (while opening or closing), the FCA-CM1 or FCC-CM2 contact closes for one second. 2 = Steady When the boom reaches the travel end point (while opening or closing), the FCA-CM1 or FCC-CM2 contact closes and remains closed. 3 = Custom The FCA-CM1 contact is closed with the boom in the open travel end position and during the opening manoeuvre. The FCC-CM2 contact is closed with the boom in the closed travel end position and during the closing manoeuvre.
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Opening counter

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

F75	Opening counter	OFF (Default) ON
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Boom drop-away detection

Activate the contact on the ARM terminal board for detecting the boom drop-away.

F78	Boom drop-away detection	OFF (default) ON
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New user

Register up to a maximum of 250 users and assign a function to each one.

-  The operation can be carried out by using a transmitter or another control device. The boards that manage the control devices (AF - R700 - R800) must be inserted into the connectors.
-  Download the LIST OF REGISTERED USERS form from the docs.came.com portal by typing in L20180423.

U1	New user	1 = Step-by-step 3 = Open 4 = Partial opening When the barrier is in [Paired] mode, the [Partial Opening] command opens the Master barrier. 1 -Choose the function to be assigned to the user. 2 -Press ENTER to confirm. You will be asked to enter your user code. 3 -Send the code from the control device. Repeat the procedure to add other users.
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Remove user

Remove one of the registered users.

U2	Remove user	OFF (Default) ON No. 1 > 250 Use the arrows to choose the number associated with the user you want to remove. Alternatively, the control device associated with the user you want to remove can be activated. Press ENTER to confirm.
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Remove all

Remove all registered users.

U3	Remove all	OFF (Default) ON
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Radio decoding

Choose the type of radio coding for the transmitters enabled to control the operator.

 If you choose the type of radio coding for the transmitters [Rolling code] or [TW key block], any transmitters with a different type of radio coding saved previously will be deleted.

U4	Radio decoding	1 = All (Default) 2 = Rolling code 3 = TW key block
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Boom length

Set the boom length.

A1	Boom length	1 = up to 2.5 m (Default) 2 = from 2.5 to 3.8 m
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Motor test

Check the boom opens in the correct direction.

 If the keys do not execute the commands correctly, invert the boom opening direction.

A2	Motor test	ON = to activate the TEST. The button > makes the motor turn in clockwise direction. The button < makes the motor turn in an anticlockwise direction.
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Travel calibration

Start the travel self-learning.

A3	Travel calibration	ON = To start calibration
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Parameter reset

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

A4	Parameter reset	OFF (Default) ON
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Manoeuvre counter

View the number of manoeuvres performed by the operator (1 = 1000 manoeuvres).

A5	Manoeuvre counter	
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FW version

Display the firmware version number and the GUI installed.

H1	FW version	
----	------------	--

Update the FW from USB

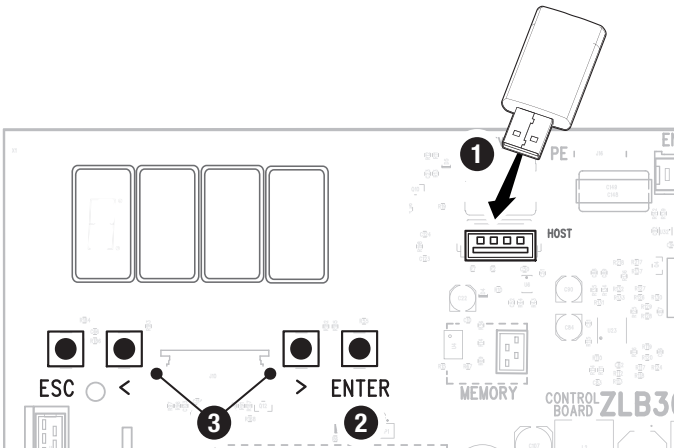
Update the firmware version of the device.

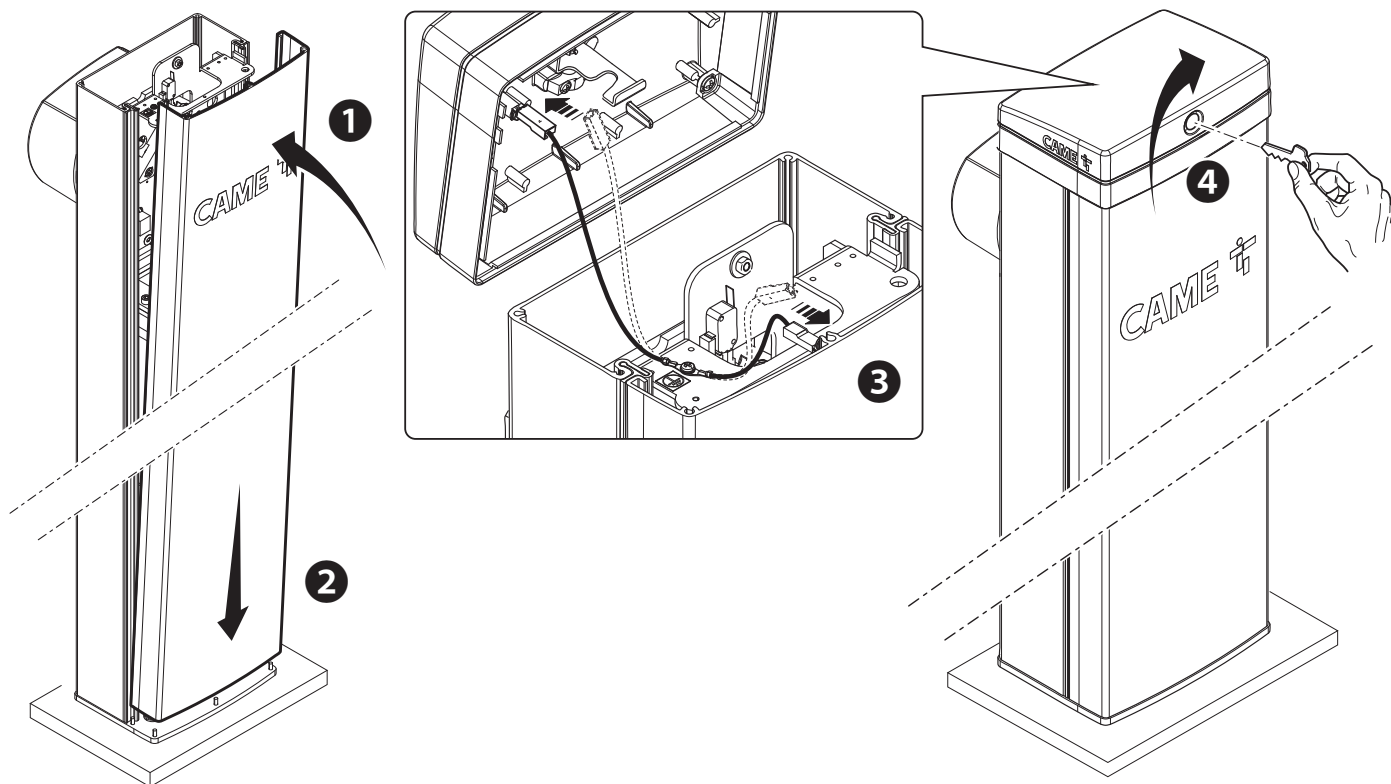
- The function is displayed only when a USB memory stick is inserted.
- Make sure the USB stick contains the firmware update file.

H2	Update the FW from USB	OFF (Default) ON
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Import/export data

- 1** Insert a USB flash drive into the USB port.
 - 2** Press the “Enter” button to access programming.
 - 3** Use the arrows to choose the desired function.
- The functions are displayed only when a USB memory stick is inserted.
- Save data
Save user data, timings and configurations to the memory device (memory roll or USB key).
 - Read data
Upload user data, timings and configurations from the memory device (memory roll or USB key).
 - Update the FW from USB
Update the firmware version of the device.
- Make sure the USB stick contains the firmware update file.





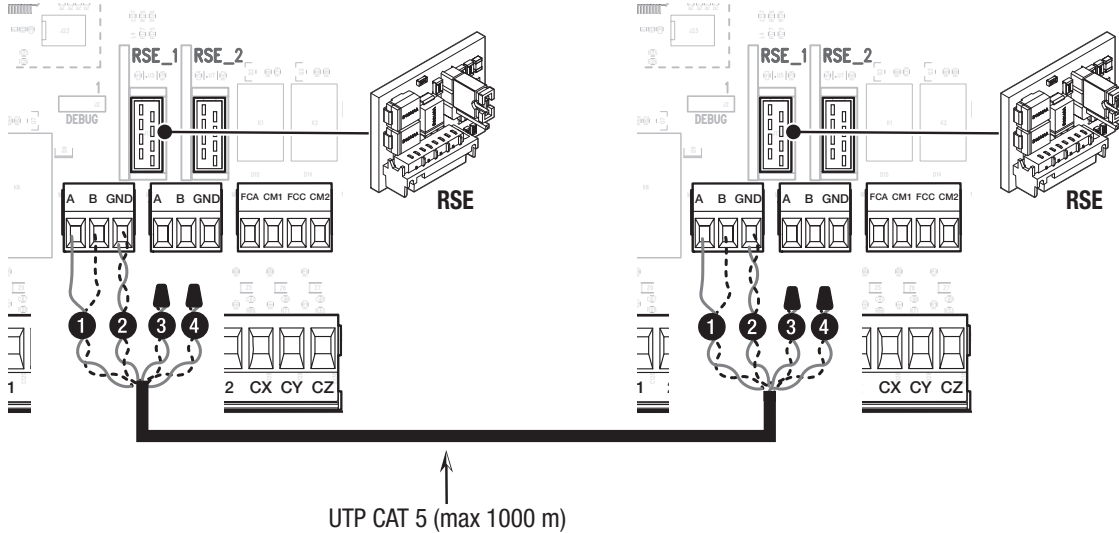
PAIRED OPERATION

Two connected operators are controlled with one command.

Electrical connections

Connect the two electronic boards with a UTP CAT 5 cable.
Fit an RSE card on both control boards, using the RSE_1 connector.
Connect up the electrics for the devices and accessories.

- For information on connecting the electrics for the devices and accessories, please see the “ELECTRICAL CONNECTIONS” section.
- The devices and accessories must be connected to the control board which will be set as the MASTER.



Programming

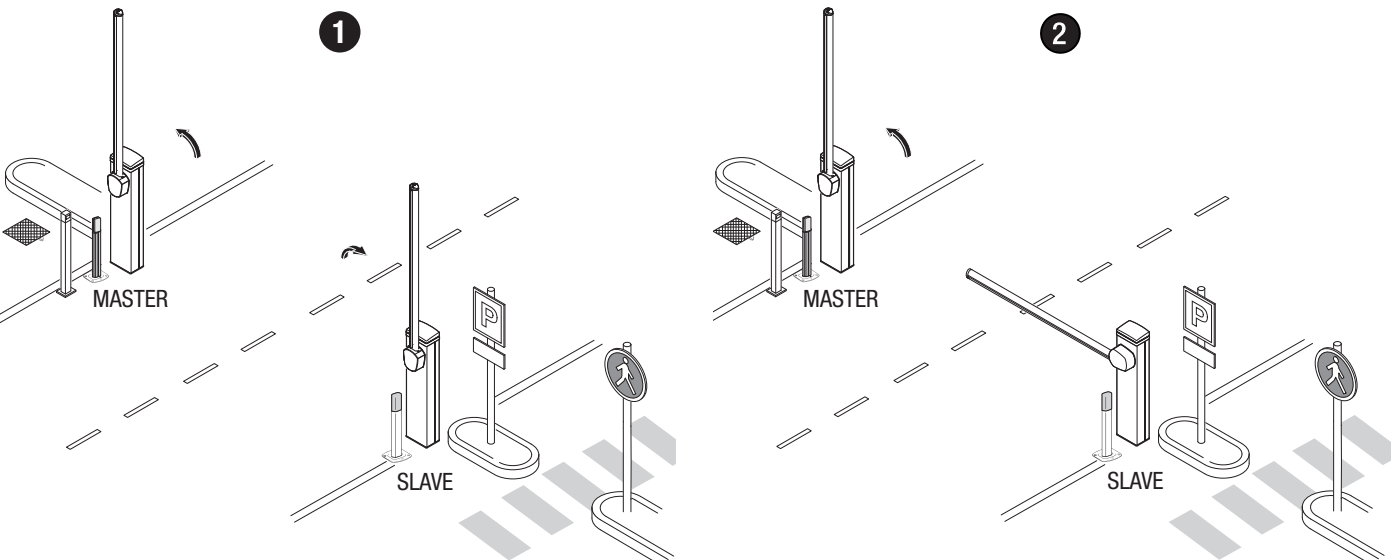
- All programming operations described below must be performed only on the control board set as the MASTER.
Configure the RSE_1 port in [Paired].
Enable the sharing of parameters programmed on the Master barrier with the Slave barrier.
- After programming the MASTER operator in [Paired], the second operator automatically becomes SLAVE.

Saving users

- All save user operations must be performed only on the control board set as the 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 PARTIAL OPENING command (2-3P)



ALTERNATE OPERATION

The first barrier opens, the vehicle passes, the first barrier closes, the second barrier opens, the vehicle passes and the second barrier closes.

Electrical connections

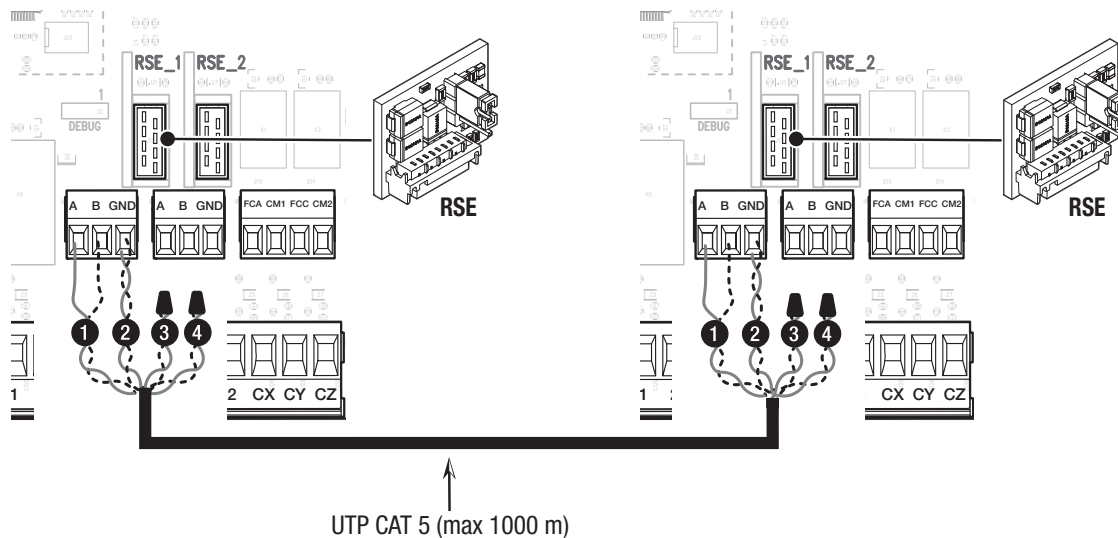
Connect the two electronic boards with a UTP CAT 5 cable.

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

Connect up the electrics for the devices and accessories.

 For information on connecting the electrics for the devices and accessories, please see the “ELECTRICAL CONNECTIONS” section.

 The control and safety devices must be connected on both electronic boards.



Programming

On one of the two barriers, configure the [RSE_1] function in [Alternate].

It activates the function [Automatic close] on both control boards.

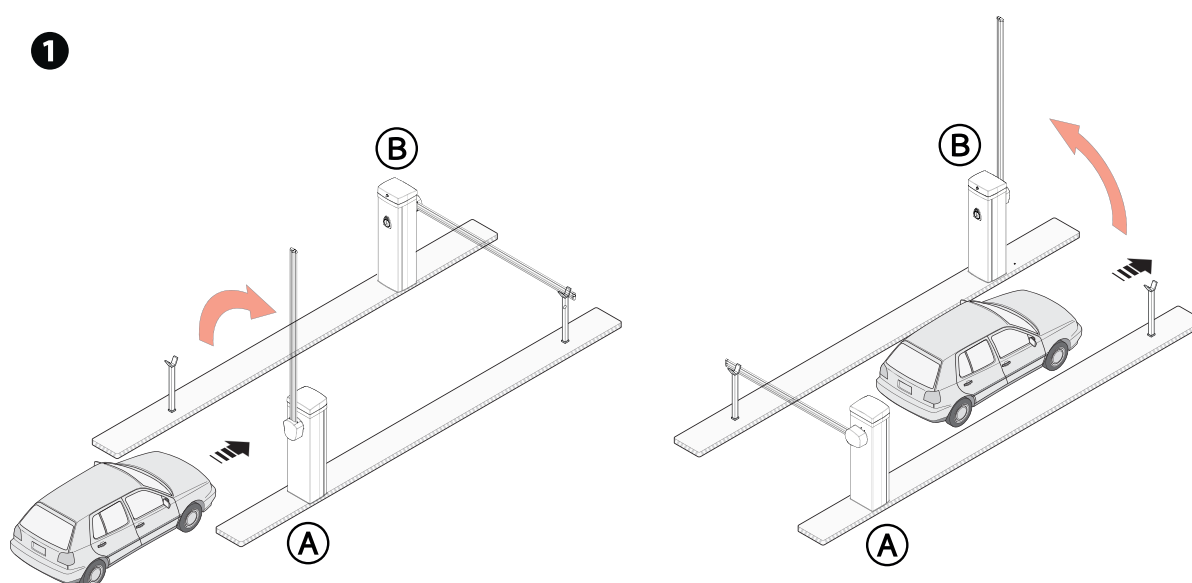
Saving users

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

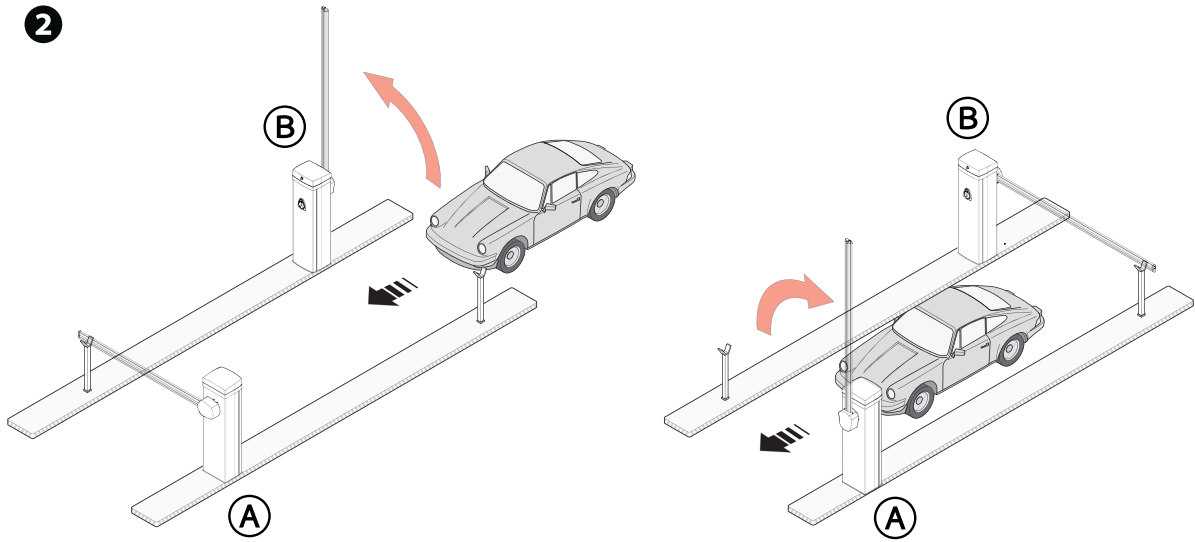
 When programming users, do not use the PARTIAL OPENING 2-3P command.

Operating modes

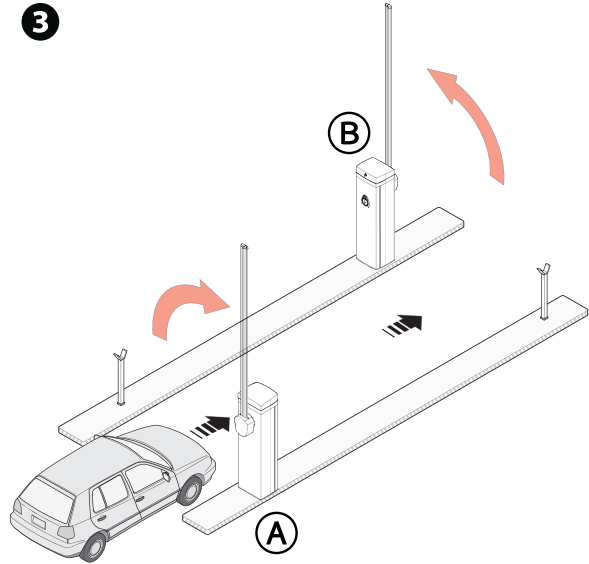
1 ONLY OPEN command (2-3) on barrier A



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


GPT40

Std boom L = 3.05 m	4.000.000
Boom L = 4.05 m	-0 %
Boom L = 3.05 m with joint	-0 %
Boom L = 4.05 m with joint	-0 %

 The GARD PT barrier has been designed to perform up to 4 million cycles. Thanks to its ultra-efficient brushless motor, it is extremely reliable and requires very little maintenance.


 The MCBF value relates to the barrier only and does not refer to any applicable accessories.

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

 The installer is responsible for deciding on the type of intervention and the maintenance frequency, considering the use, installation site and number of daily cycles.

 If the barrier is not used for long periods of time, e.g. for installations at sites with seasonal closures, release the spring and remove the boom.

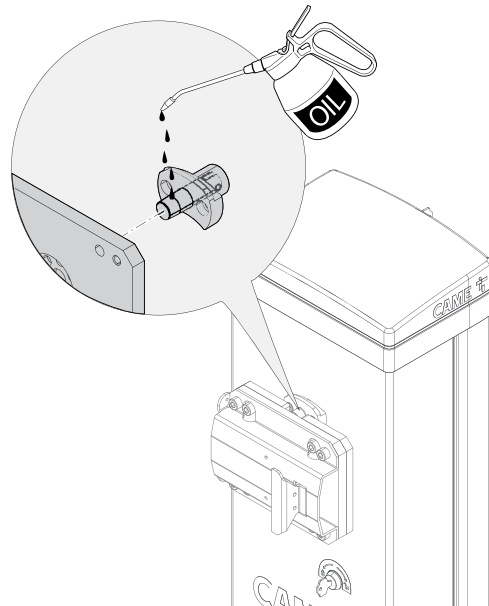
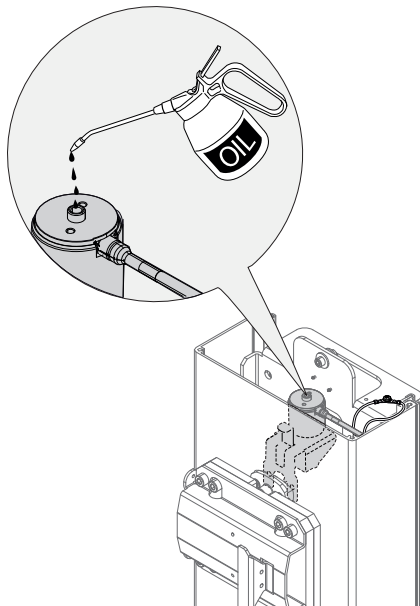
 For information on correct installation and adjustments, please see the product installation manual.

 For information on choosing products and accessories, please see our product catalogue.

 If the barrier with an articulated joint is used, check that the moving parts of the joint are in good condition. Replace them if necessary.

Every 500,000 cycles and, in any case, every 6 months of operation, you must perform the maintenance work indicated below.

- Perform a general and complete check of the tightness of the nuts and bolts.
- Check the warning and safety devices are working properly.
- Check that the microswitch connected to the cabinet cover is working correctly.
- Check the microswitch connected to the manual release is working properly, and the microswitch connected to the release accessories (optional).
- Lubricate the spring when it is fully extended.
- Grease all of the moving mechanical parts.
- Grease the electric lock and the pin.



Every 1,000,000 cycles and, in any case, every 12 months of operation, you must perform the maintenance work indicated below.

- Replace the spring.

ERROR MESSAGES	
E2	Adjustment error
E3	Encoder failure error
E4	Service test failure error
E7	Operating time error
E8	Open release-hatch error
E9	Obstacle detected during closing
E10	Obstacle detected during opening
E11	The maximum number of obstacles detected consecutively has been exceeded
E14	Serial communication error
E15	Incompatible transmitter error
E16	Open SLAVE-motor hatch error
E20	Arm/boom drop-down error on ARM connector
E22	USB device error
E23	Arm/boom drop-down error on MOTOR BLOCK connector
C0	Contact 1-2 (NC) is open.
C1	The (NC) contacts are open.
C4	The (NC) contacts are open.
C5	The (NC) contacts are open.
C7	The (NC) contacts are open.
r7	The (NC) contacts are open.
C9	The (NC) contacts are open.
C10	The (NO) contact is closed.

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GPT40AGS
GPT40RGS
GPT40AGL

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EN 61000-6-2:2005+EC:2005+IS1:2005
EN 61000-6-3:2007+A1:2011
EN 62233:2008
EN 60335-1:2012+AC:2014+A11:2014

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Dosson di Casier (TV)
25 Novembre / November / November /
Novembre / Noviembre / Novembro /
Listopad / November / November 2019

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Antonio Milici

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