

CAME.COM

Automatic road barriers GARD PT Brushless

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FA01354-EN

CE





GPT40AGS GPT40RGS

INSTALLATION MANUAL



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.

X

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.



GENERAL PRECAUTIONS FOR INSTALLERS

△ Important safety instructions.

\triangle Follow all of these instructions. Improper installation can cause serious bodily harm. \triangle 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 gualified 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 adeguate 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 gualified 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.



A Danger of hand entrapment.

🔕 Do not enter.

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!

PRODUCT DATA AND INFORMATION

Legend

 \square This symbol shows which parts to read carefully. \triangle This symbol shows which parts describe safety issues.

This symbol shows which parts to tell users about.

Demonstration The measurements, unless otherwise stated, are in millimeters.

Description

GPT40AGS - Automatic barrier with reversible gearmotor and brushless motor, painted aluminium cabinet. GPT40RGS - Automatic barrier with reversible 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...

Description of parts



5 - Manual FA01354-EN - 07/2019 - CAME S.p.A. - The contents of this manual may change, at any time, and without notice. - Original instructions ġ.

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 for connecting the electric lock
- 9 -Accessories fuse
- 10 -Control board fuse
- 11 -Motor fuse
- 12 -Terminal block 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 block associated with the RSE_2 connector for CRP or CAME KEY connection
- 18 -Terminal block associated with the RSE_1 connector for combined 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
- 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





Limits to use

MODELS	GPT40AGS	GPT40RGS
Maximum clearance width of the passage (m)	3,8	3,8

Technical data

MODELS	CDTADACS	CPTAOPCS
Power supply (V - 50/60 Hz)	230 AC 50/60HZ	120 AC 50/60HZ
Motor power supply (V)	36 DC	36 DC
Stand-by consumption (W)	12	12
Power (W)	350	350
Transformer thermal protection (°C)	120	120
Current draw (mA)	1.5 (230 V AC)	2,8 (120 V AC)
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Torque (Nm)	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
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)
Protection rating (IP)	54	54
Insulation class	I	I
Weight (kg)	37	37

Fuse table

MODELS	GPT40AGS	GPT40RGS
Line fuse	3.15 A F	6,3 A F
Accessories fuse	2 A F	2 A F
Control board fuse	3.15 A F	3.15 A F
Motor fuse	15 A F	15 A 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
24 V AC - DC Flashing light	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 mm²	*n° x 0.5 mm²	*n° x 0.5 mm²
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 H05W-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

Туре	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

Resistance class with reference to the EN 13241 standard.

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

 \square 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

 \square With the cover open, the operator does not work.



Fastening the barrier



Change of the boom opening direction

 $\hfill \square$ The barrier is set up for installing on the left.

- 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.
- Edit the parameter in function [Opening direction].



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Boom installation

Insert the reinforcement inside the boom.



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





- 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.
- S Cut the excess part of the profile, letting it protrude of 7 millimetres.
- 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.
- Fit the anti-shearing protective cover onto the boom-attachment cover and fasten it using the screws supplied.



Boom set up

A 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
Balancing springs	NO	NO	A1 = 1	A1 = 2

D01G02807 fixed rest 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.

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.

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

2 Fasten the mechanical stop with a counter nut.

Lock the gearmotor





Correct the boom's vertical position

Release the gearmotor

Open the inspection hatch.

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

2 Fasten the mechanical stop with a counter nut.

Lock the gearmotor

2







Electric cables passage

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

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

 \square The cables must pass through the ferrite included in the supply. lacksquare



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 the batteries, if any.
Connecting to the electrical network
Accessories power supply output





Output delivers normally 24 V AC.

The output delivers 24 V DC when the batteries start operating, if they are installed.

I 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 DC	40
Additional light	10 - E1	24 AC/DC	20
Flashing light	10 - E1	24 AC/DC	20
Operator status warning light	10 - 5	24 AC/DC	3
Strip LED RGB	-	-	13,5

Description of the connected accessories input must not exceed 40 W.

Signalling devices

Additional light

Increases illumination in the maneuvering area.

Additional flashing light

It flashes during the operator opening and closing phases.

3 Operator status warning light

It warns of the operator status.

A RGB LED strip and/or RGB corona

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.





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.

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.





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.



Function of the programming buttons



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
Stop the obstance

The <> keys are used to perform the operations described below. Navigate through the menu items Increasing or decreasing values Close or open the operator

3 ENTER button

The ENTER key is used to perform the operations described below. Accessing menus Confirm the choice

Temporary stop

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

F1	Temporary stop	OFF (Default) ON

CX input

It associates a function with the CX input.

F2	CX input	 OFF (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 r7 = reopening while closing (Sensitive safety-edges with 8K2 resistor)

CY input

It associates a function with the CY input.

F3	CY input	 OFF (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 r7 = reopening while closing (sensitive safety-edges with 8K2 resistor)
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CZ input

Associate a function with the CZ input.

F4	CZ input	 OFF (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 r7 = reopening while closing (sensitive safety-edges with 8K2 resistor)
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Safety devices test

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

FF	Cofety devices test	
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

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.

F6 Maintained action	OFF (Default) ON
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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.

F9	Obst. with motor stopped	OFF (Default) ON

Open warning light

It warns of the state of the barrier.

F10 Ope	n 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 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.
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Sensor type

It sets the type of control device.

F14	Sensor type	0 = Transponder 1 = Keypad (Default)

Electric lock

It allows to choose the electric lock activation mode during the boom maneuvering phases.

F17	Electric lock	OFF (Default) 1 = The electric lock is deactivated during the boom opening and remains deactivated
		until the boom is closed again. 3 = The electric lock is deactivated during the boom opening or closing operations, but it is active when the barrier is open or closed.

Light E1

For choosing the type of device connected to the output.

F18	Light E1	 0 =Flashing light (Default) 1 = Cycle light 1 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 obstacle is detected, or after a total stop, or during a power outage.

F19	Automatic cls	OFF (Default)
		From 1 to 180 seconds

Pre-flashing time

It sets the early activation time before each maneuvers.

F21	Pre-flashing time	OFF (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].

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

Closing speed

Sets the closing speed (percentage of maximum speed).

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

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

Travel sensitivity

Adjusting the obstruction detection sensitivity during boom travel.

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

RSE1

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

F49	RSE1	OFF (Default)
		1 = Combined
		4 = Compass

Saving data

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

III 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.

F50	Saving data	OFF (Default)
		ON

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.

F51	Data reading	OFF (Default)
		ON

Transferring MASTER-SLAVE parameters

It enables to share the parameters programmed on the Master barrier with the Slave barrier.

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

F52	Transferring MASTER-SLAVE	OFF (Default)
	narameters	ON
	paramotoro	

Opening direction

Set the boom opening direction.

F54	Opening direction	0 = To the left (Default)
		1 = 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.

F56	CRP address	from 1 to 255

RSE speed

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

F63 RSE speed 0 = 12 1 = 24 2 = 48 3 = 96 4 = 14 5 = 19 6 = 38 7 = 57 8 = 11	00 bps 00 bps 00 bps 00 bps 400 bps 200 bps 400 bps (Default) 600 bps 5200 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 (while opening or closing), the FCA-CM1 or FCC-CM2 contact closes for one second. 2 = Steady When the boom reaches the travel end (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 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.

F75	Opening counter	OFF (Default) ON

Boom drop-away detection

It activate the contact on the ARM terminal block for detecting the boom drop-away.

F78	Boom drop-away detection	OFF (default) ON

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.

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

U1	Add User	 1 = Step-step 3 = Open 4 = Partial opening When the barrier is in [combined] mode, the [Partial Opening] command opens the Master barrier. When the barrier is in the [Alternate] mode, the [Partial Opening] command opens the Slave 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.

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

Remove all

It removes all registered users.

U3	Remove all	OFF (Default)
		ON

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.

U4	Radio-frequency decoding	1 = All (Default) 2 = Rolling code 3 = TW Key Block

Boom length

Sets the boom length.

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

Motor test

Verification of the correct opening direction of the boom.

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

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

It starts the travel self-learning.

A3	Travel calibration	ON = To start calibration

Parameters reset

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

A4	Parameters reset	OFF (Default) ON

Maneuvers counter

For viewing the number of maneuvers done by the operator (1 = 1000 maneuvers).

A5	Maneuvers counter	

FW version

It displays the number of the firmware version and $\ensuremath{\mathsf{GUI}}$ installed.

H1	FW version	

Updated the firmware version of the device.

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

A Make sure the USB stick contains the firmware update file.

H2	Updates the FW from USB	OFF (Default)
		ON

Getting started

Conce 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 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 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.

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.

Export / import data

1 Insert a USB flash drive into the USB port

2 Press the Enter button to access the programming.

Red LED on= USB memory stick recognized.

3 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.

Ake 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.

Given 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.

Configure the RSE_1 port in [Combined].

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

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.

Given the storage operations, see the [New User] function.

Operating modes

- 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.

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

Departure of the control and safety devices must be connected on both electronic boards.



UTP CAT 5 (max 1000 m)

Programming

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

Derived 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



ġ.

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



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



MCBF	
Models	803BB-0070
Std boom L = 3.05 m	2 M
Boom L = 4.05 m	-0 %
Boom $L = 3.05$ m with joint	-0 %
Boom $L = 4.05$ m with joint	-0 %

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

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

- Perform a general and complete check on the the tightness of the nuts and bolts.

- Lubricate the spring when it is fully extended.
- Lubricate all moving mechanical parts, for example the articulated parts and joints.
- Check the proper working state of the indicating and safety devices.

- Check that the microswitch connected to the cabinet cover is working correctly.

- Check the correct operation of the microswitch connected to the manual release, and of the microswitch connected to the release accessories (optional).

Every 1,000,000 cycles and in any case every 12 months of operation, the maintenance interventions indicated below are mandatory.

- Replace the spring.

ERROR MESS	AGES
E2	Adjustment error
E3	Encoder failure error
E4	Services test failure error
E7	Operating time error
E8	Open release-hatch error
E9	Obstacle detected during closing
E10	Obstacle detected during opening
E11	Exceeded the maximum number of obstacles consecutively detected
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
CO	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.

p. 31 - Manual FA01354-EN - 07/2019 - CAME S.p.A. - The contents of this manual may change, at any time, and without notice. - Original instructions

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GPT40AGS GPT40RGS

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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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