

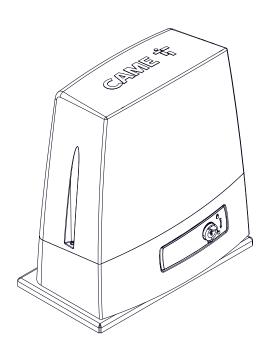
**CAME.COM** 

Sliding-gate operators

FA02256-EN





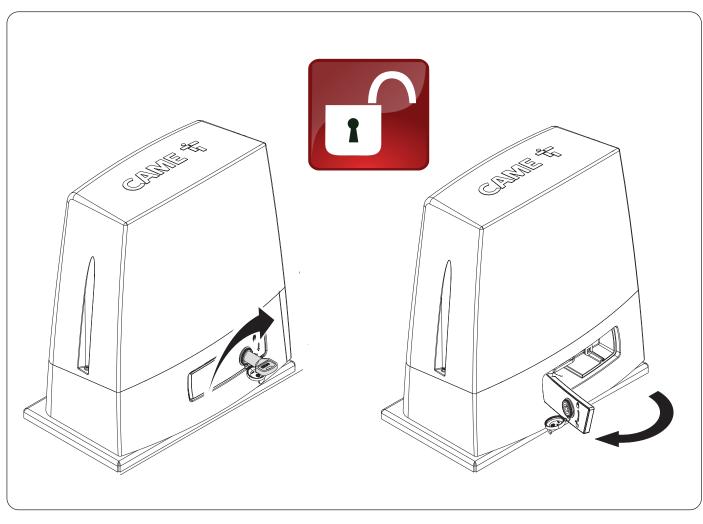


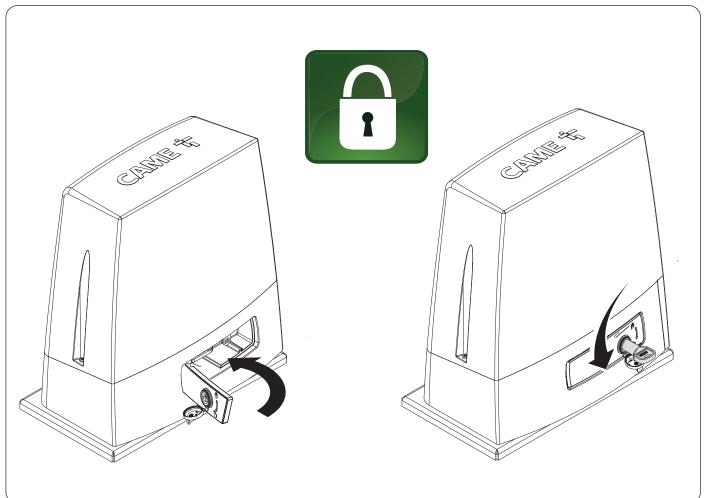
BKX08AGF

**BKX08RGF** 

**INSTALLATION MANUAL** 

English





p. 2 - Manual FA02256-EN - 11/2025 - © CAME S.p.A. - The contents of this manual may be changed at any time and without notice. - Translation of the original instructions

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#### 

△ Please follow all of these instructions. Improper installation may cause serious bodily harm.

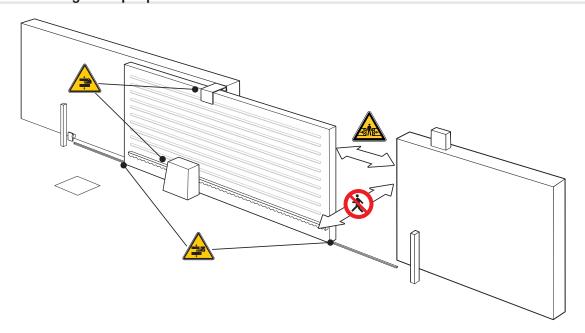
△ Before continuing, please also read the general precautions for users.

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. • 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. • 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. • The electrical cables must not touch any parts that may overheat during use (such as the motor and transformer). • Before installation, check that the guided part is in good mechanical condition, and that it opens and closes correctly. • The product cannot be used to automate any guided part that includes a pedestrian gate, unless it can only be enabled when the pedestrian gate is secured. • Make sure that nobody can become trapped between the guided and fixed parts, when the guided part is set in motion. • Use additional protection to prevent your fingers from being crushed between the pinion and rack. • 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. • Where operated with a hold-to-run control, install a STOP button to disconnect the main power supply to the operator, to block movement of the guided part. • 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. • The product, in its original packaging supplied by the manufacturer, must only be transported in a closed environment (railway carriage, containers, closed vehicles). • If the product malfunctions, stop using it and contact customer services at https://www.came.com/global/en/ contact-us or via the telephone number on the website.

The manufacture date is provided in the production batch printed on the product label. If necessary, contact us at https://www.came.com/global/en/contact-us.

The general conditions of sale are given in the official CAME price lists.

### Main points of danger for people





No transiting while the barrier is moving.



Danger of crushing.



Risk of trapping hands.



Risk of trapping feet.

### **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

#### 801MS-0690

BKX08AGF - Operator 230 V with 24 V brushless motor with speed up to 24 m/min and Adaptive Speed & Torque Technology, featuring a control board with graphic display, CAME Key ready, CXN BUS, B1-B2 output, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 800 kg that are up to 20 m long. RAL7024 grey cover.

#### 801MS-0710

BKX08RGF - Operator 120 V with 24 V brushless motor with speed up to 24 m/min and Adaptive Speed & Torque Technology, featuring a control board with graphic display, CAME Key ready, CXN BUS, B1-B2 output, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 800 kg that are up to 20 m long. RAL7024 grey cover.

#### Intended use

Sliding gate solution for residential buildings and apartment blocks.

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

After the Green Power module has been connected to the operator, the product complies with Regulation (EU) 2023/826 regarding ecodesign requirements for energy consumption in standby and off mode for household and office equipment.

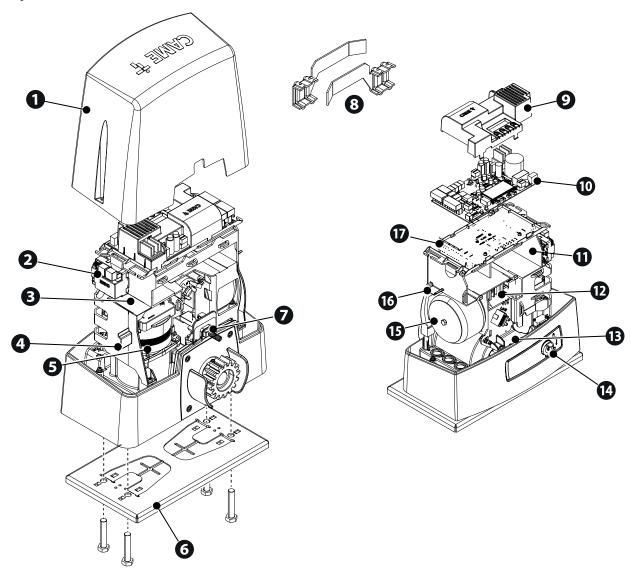
#### Fuse table

MODELS	BKX08AGF	BKX08RGF
Line fuse	3.15A-F	6.3A-F
Control-board fuse	1.6A-T	1.6A-T
Accessories fuse	1.6A-F	1.6A-F
Motor fuse	15A-T	15A-T

# **Operator**

- Cover
- 2 Green Power module (806XG-0160)\*
- Battery compartment
- 4 Housing for SMA or Gateway 4G sensor
- Gearmotor
- Anchoring plate
- Mechanical limit switch
- Mechanical limit-switch tabs
- Board protection cover
- Control board
- (\*) Only for the 801MS-0690 model.

- Housing for two emergency batteries
- Only use emergency batteries 5Ah (88018-0029).
- Housing for thermostat
- Housing for thermostat cartridge
- Release lever
- Transformer
- Housing for the RGSM001/S or RSLV001 module
- Control board holder



#### **Control board ZBB3**

- The functions on the input and output contacts, the time settings and user management are set and viewed on the display.
- All connections are protected by quick fuses.

△ For the system to work properly, before fitting any plug-in card, DISCONNECT THE MAIN POWER SUPPLY and remove any batteries.

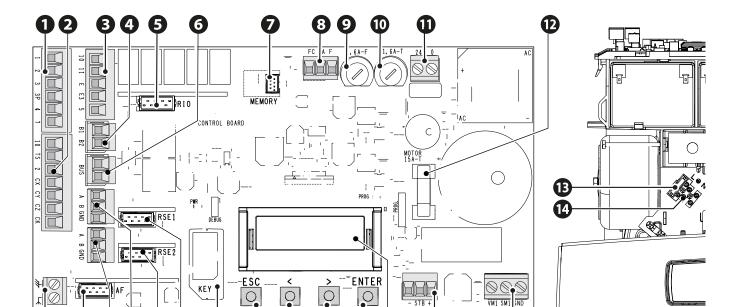
⚠ Before working on the control panel, disconnect the mains power supply and remove the batteries, if any.

- Terminal board for connecting control devices
- 2 Terminal board for connecting the safety devices
- 3 Terminal board for connecting the signalling devices
- Terminal board for B1-B2 output
- Sonnector for the RIOCNSWS module
- Terminal board for CXN BUS accessories
- Memory Roll card connector
- Terminal board for connecting the limit switches
- Accessories fuse
- Control board fuse
- Terminal board for power supply to the control board
- Motor fuse
- Line fuse
- Power supply terminal board

(\*) Only for the 801MS-0690 model.

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- Terminal board for connecting the gearmotor
- Terminal board for connecting the LBNX battery charger and Green Power module\*
- Display
- Programming buttons
- Connector for CAME KEY
- RSE\_1 connector for RSE card
- A RSE 2 connector for RSE card
- Terminal block associated with the RSE\_1 connector for paired or CRP connection
- Terminal board associated with the RSE\_2 connector for CRP or MODBUS RTU connection
- Connector for plug-in radio frequency card (AF)
- Terminal board for connecting the antenna



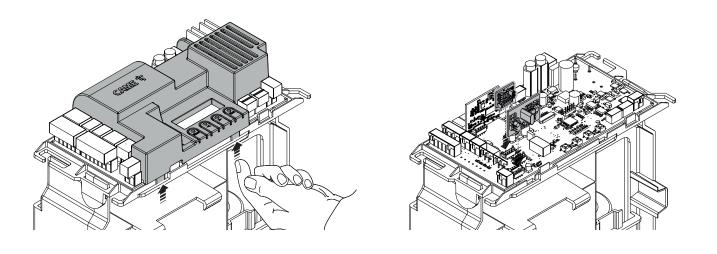
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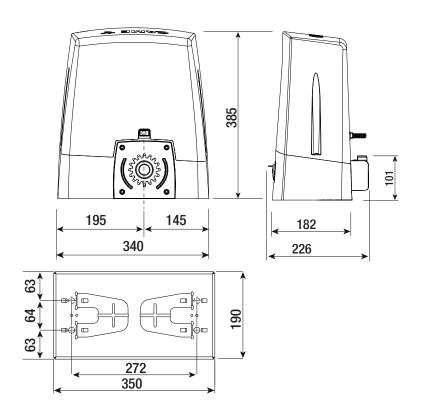
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# Remove the cover

Remove the card cover before inserting the cards into the connectors.



Size



# **Usage limitations**

MODELS	BKX08AGF	BKX08RGF
Maximum gate-leaf length (m)	20	20
Maximum gate-leaf weight (kg)	800	800

# Technical data

MODELS	BKX08AGF	BKX08RGF
Power supply (V - 50/60 Hz)	230 AC	120 AC
Motor power supply (V)	24 DC	
Standby consumption (W)	0,8	5
Power (W)	230	
Operating temperature (°C)	-20 ÷ -	+55
Storage temperature (°C) *	-20 ÷ -	+70
Thrust (N)	800	
Maximum operating speed (m/min)	24	
Cycles/hour	20	
Sound pressure level (dB A)	≤70	
Control board	ZBB3	
Protection rating (IP)	54	
Insulation class		
Type of grease	Synthetic (-50°	C to 160°C)
Quantity of grease (g)	90	
NLGI grade	2	
Colour	RAL 7024	
Weight (kg)	17	
Average life (years)**	15	

<sup>(\*)</sup> Before installing the product, keep it at room temperature where it has previously been stored or transported at a very high or very low temperature.

<sup>(\*\*)</sup> The average product life specified should be understood purely as an indicative estimate. It applies to normal usage conditions and where the product has been installed and maintained in compliance with the instructions provided in the CAME technical manual. The average product life is also affected, including significantly, by other variables such as, but not limited to, climatic and environmental conditions (where present, see the MCBF table). The average product life should not be confused with the product warranty.

### 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 <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
24 V AC/DC flashing beacon	2 x 1 mm <sup>2</sup>	2 x 1 mm <sup>2</sup>
TX Photocells	2 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>
RX photocells	4 x 0.5 mm <sup>2</sup>	4 x 0.5 mm <sup>2</sup>
Command and control devices	*no. x 0.5 mm <sup>2</sup>	*no. x 0.5 mm <sup>2</sup>

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

- 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).
- To connect the antenna, use RG58 cable (up to 5 m).
- For paired connection and CRP, use UTP CAT5 cable (up to 1,000 m).
- 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.

#### INSTALLATION

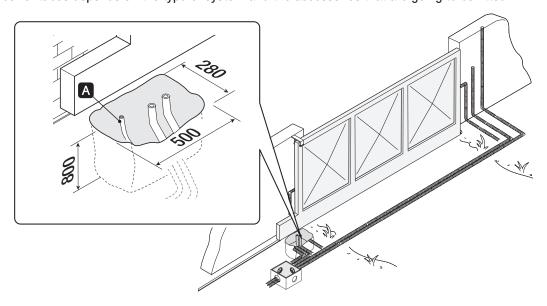
- The following illustrations are examples only. The space available for fitting the operator and accessories varies depending on the area where it is installed. It is up to the installer to find the most suitable solution.
- The drawings show an operator fitted on the left.

### **Preliminary operations**

Dig a hole for the foundation frame.

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

- ☐ Use Ø 40 mm corrugated tubes to connect the gearmotor to the accessories.
- Prepare a Ø 20 mm tube to run the release cord through.
- The number of tubes depends on the type of system and the accessories that are going to be fitted.



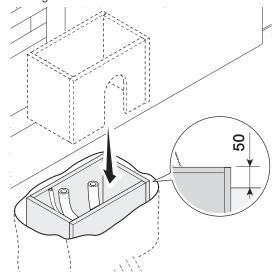
# Laying the anchoring plate

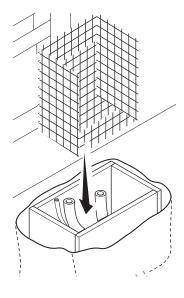
Set up a foundation frame that is larger than the anchoring plate.

Insert the foundation frame into the dug hole.

The foundation frame must protrude by 50 mm, above ground level.

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





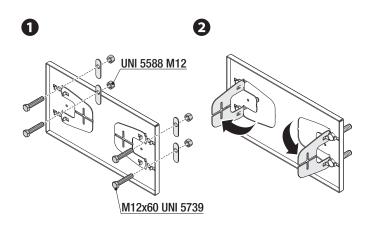
Insert the screws supplied in the anchoring plate.

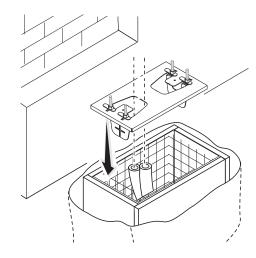
Lock the screws in place with the nuts supplied.

Remove the pre-shaped clamps using a screwdriver.

Fit the anchoring plate in the iron cage.

The tubes must pass through the existing holes.





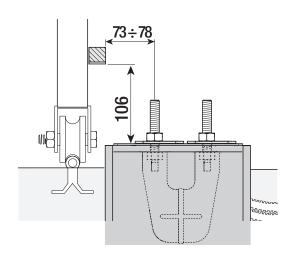
Position the anchoring plate, taking note of the measurements shown in the drawing.

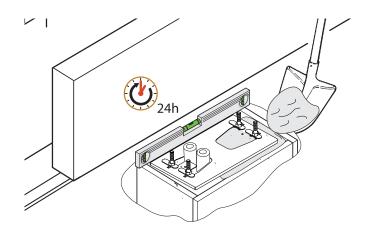
- If the gate does not have a rack, proceed with the installation. See the section FASTENING THE RACK.
- See the section "FASTENING THE RACK".

Cast cement into the foundation frame.

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

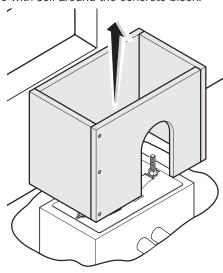
Wait at least 24 hours for the cement to dry.

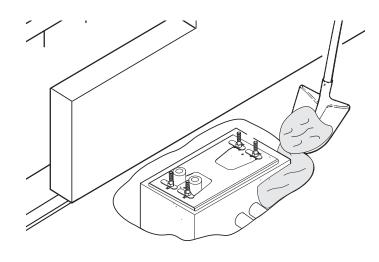




Remove the foundation frame.

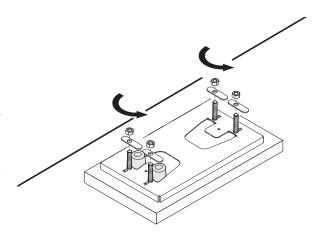
Fill the hole with soil around the concrete block.

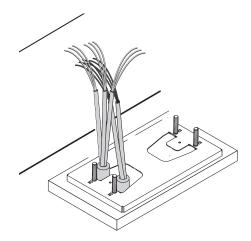




Remove the nuts from the screws.

Insert the electrical cables into the tubes until they protrude by about 600 mm.



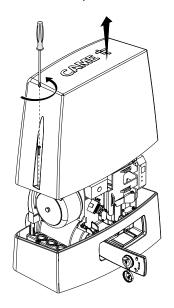


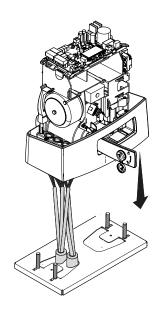
# Setting up the operator

Remove the operator cover.

Place the operator on top of the anchoring plate.

The electrical cables must pass under the operator foundation frame

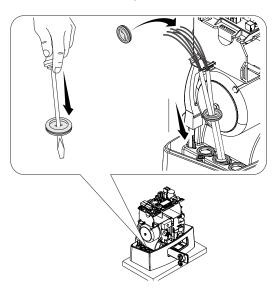


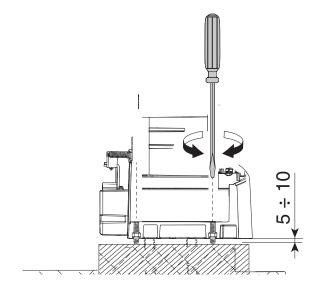


Make a hole in the cable gland.

Thread the cables through the cable gland.

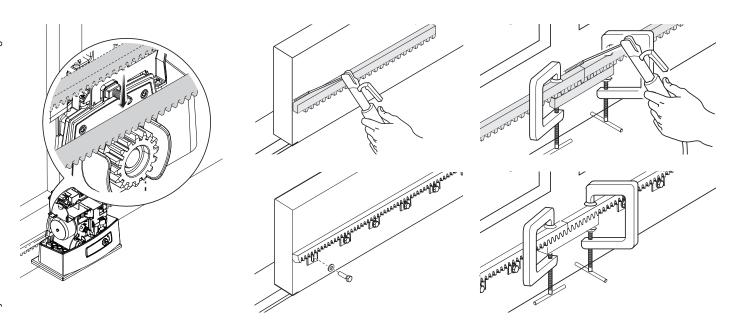
Lift the operator by 5-10 mm from the plate by adjusting the threaded feet, to allow for any adjustments that may need to be made between the rack and pinion.





# Fastening the rack

- Release the operator.
- 2 Rest the rack on the pinion.
- **3** Weld or fasten the rack to the gate along its entire length.
- ☐ To assemble the rack modules, use an extra piece and rest it under the join, then fasten it in place using two clamps.

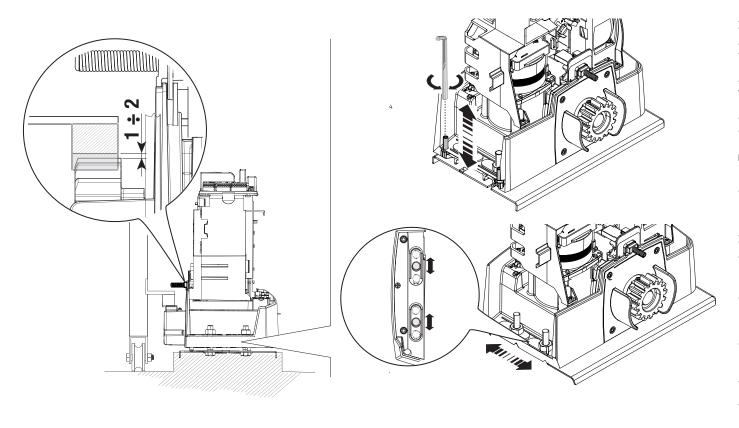


# Adjusting the pinion-rack coupling

Open and close the gate manually.

Adjust the pinion-rack coupling distance using the threaded feet (vertical adjustment) and the holes (horizontal adjustment).

The weight of the gate must not bear down upon the operator.

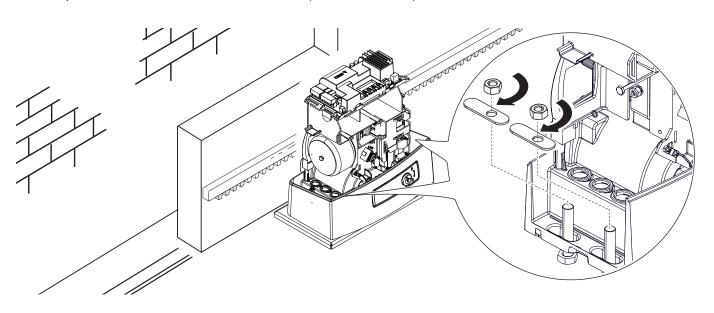


# Fastening the operator in place

Only fasten the operator after adjusting the pinion-rack coupling.

Fasten the operator to the anchoring plate using stoppers and nuts.

The operator can also be fixed with 70 mm nuts (code 88001-0273).

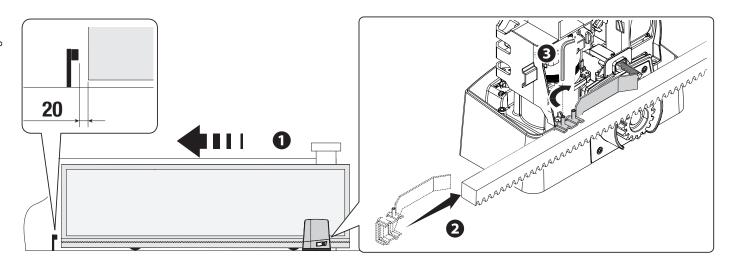


# Determining the travel end points with mechanical limit switches

- Open the gate.
- 2 Insert the opening limit-switch tab in the rack.

The spring must trigger the microswitch.

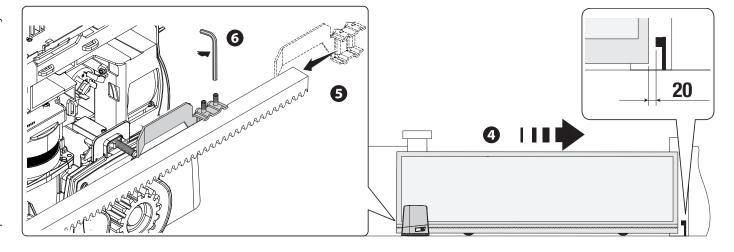
**3** Fasten the opening limit-switch tab using the grub screws supplied.



- Close the gate.
- **3** Insert the closing limit-switch tab in the rack.

The spring must trigger the microswitch.

• Fasten the closing limit-switch tab using the grub screws supplied.



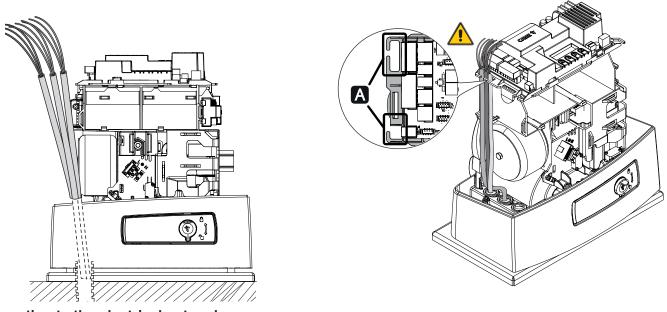
### Passing the electrical cables

Connect all wires and cables in compliance with the law.

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

Use membrane cable glands to connect the devices to the control panel. One cable gland must be intended exclusively for the power supply cable.

⚠ Thread the cables through the holes in the control board holder (♠). The cables need to sit perfectly flush to the side of the operator as shown below to ensure the cover closes. Use cable ties or insulating tape if necessary.



# Connecting to the electrical network

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.

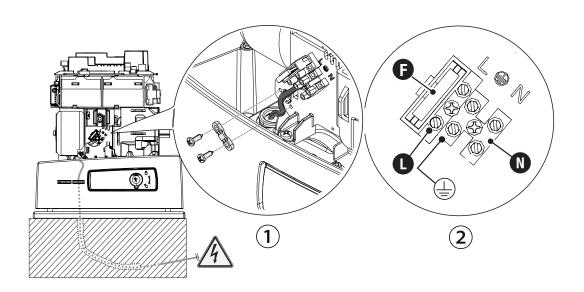
### Power supply 230/120 V AC - 50/60 Hz

**F** - Line fuse

L - Phase

N - Neutral

- Earth



# Power supply output for accessories 24 V

The total power of the outputs listed below must not exceed the maximum output power [Accessories]

Device	Output	Power supply (V)	Maximum power (W)
Accessories	10 - 11	24 AC	40
Flashing beacon	10 - E	24 AC	20
Additional light	10 - E3	24 AC	20
Passage-open warning light	10 - 5	24 AC	3

The outputs deliver 24 V DC when the batteries start operating, if they are installed.

### **CXN BUS connection**

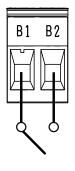
 ⚠ The output is set for CAME CXN BUS accessories only.

Device	Output	Power supply (V)	Maximum power (W)
BUS CXN	BUS	15 DC	15

# **Auxiliary connection output**

☐ See the [Output B1-B2] function.

Device	Output	Rated current (A)	Rated voltage (V)
Auxiliary contact	B1 - B2	1	24 AC/DC

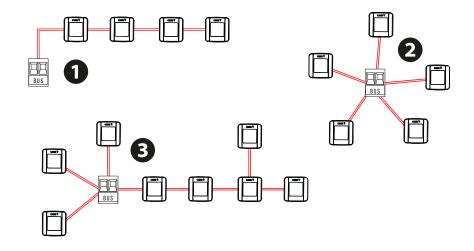


### Connecting accessories with BUS CXN system

The CXN CAME system is a two-wire non-polarised communication BUS which allows you to connect up all compatible CAME devices. Connection to the BUS can be in a chain, star or mixed formation. Once the system has been wired, and after having set the address on each device, the function of each accessory can be configured on the control panel. This method allows you to configure the set-up immediately without having to work directly on the accessories and system wiring later. The CXN BUS can support control devices, interfaces, photocells, safety devices, beacons and gateways at the same time.

### **Cabling**

- Chain connection
- Star connection
- Mixed connection



### Cable types and minimum thicknesses

Branch length	0 to 15 m	15 to 50 m
KRX BUS flashing beacon (max. 1 per branch)	FROR 2 x 0.5 mm <sup>2</sup>	FROR 2 x 1 mm <sup>2</sup>
Branch load below 20 CXN	FROR 2 x 0.5 mm <sup>2</sup>	FROR 2 x 0.5 mm <sup>2</sup>
Branch load above 20 CXN	FROR 2 x 0.5 mm <sup>2</sup>	FROR 2 x 1 mm <sup>2</sup>

Do not use a shielded cable.

⚠ The maximum length of a single branch is 50 metres. The sum of all branches must not exceed 150 metres.

# Maximum number of devices that can be connected, by type

Type of device	Maximum number of devices per type
Selectors	8
Photocell pairs	8
Interfaces	2
Flashing beacons	2

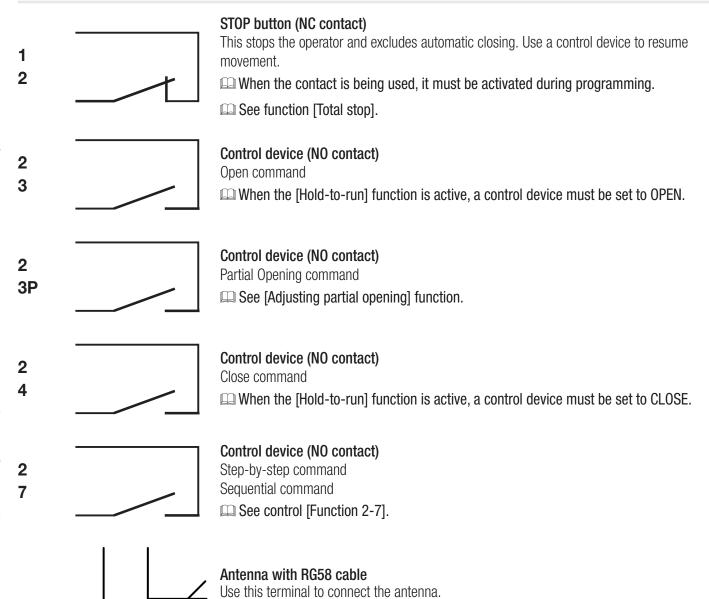
#### **BUS CXN device consumption**

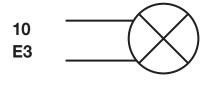


BUS CXN device consumption is calculated in CXN units.

Scan the QR code to access an interactive table showing consumption data, and calculate the maximum number of BUS devices you can connect to the control panel.

LINK

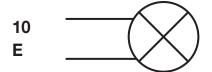




### Additional light

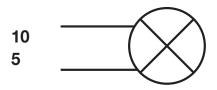
It increases the light in the manoeuvring area.

See [Additional light] function.



#### Flashing beacon

It flashes when the operator opens and closes.



Operator status warning light (Passage-open warning light)

See function [Passage-open warning light].

# Photocells and sensitive edges

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

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

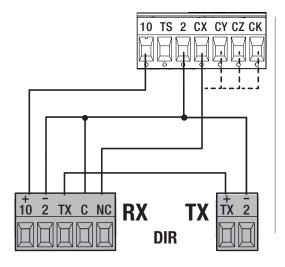
- 💷 If contacts CX, CY, CZ and CK are used, they must be configured during programming.
- For systems with multiple pairs of photocells, please see the manual for the relevant accessory.

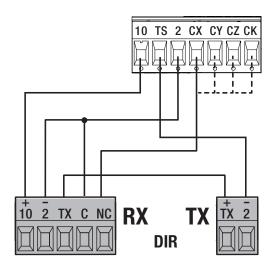
**Standard connection** 

Connection with safety test

☐ See [Safety devices test] function.

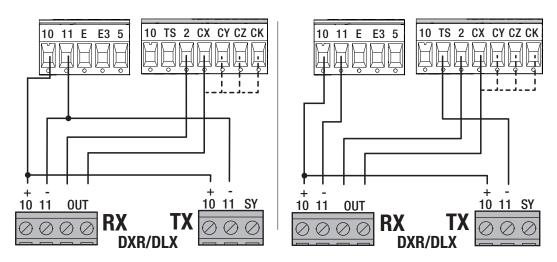
### **DIR photocells**



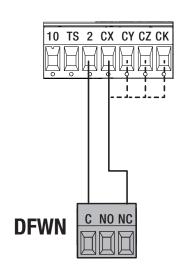


See [Safety devices test] function.

# **DXR / DLX photocells**

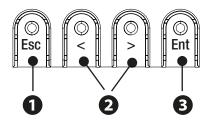


### **DFWN** sensitive edge



### **Programming button functions**





#### 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 the device and follow the instructions on the display.

Start programming following the wizard.

- 📖 If this is not the first time the board is being switched on, go to the menu Configuration > Wizard. Follow the indications shown on the display.
- △ Complete programming and check the warning, safety and protection devices, and the manual release, are working properly.
- 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.

### **FUNCTIONS MENU**

- **△ When using a CAME KEY device, always update the board firmware to the latest version.**
- Some functions may not be available with firmware versions prior to the latest one or without some accessory devices.

### **Configuration**

#### **Motor settings**

Path: CONFIGURATION > MOTOR SETTINGS > Opening direction		
Opening direction	To the left (Default) To the right	The function is used to set the gate opening direction.

Path: CONFIGURATION > N	IOTOR SETTINGS > <b>Motor test</b>	
Talli. CUNFIGURATION > IV		
Motor test	The > button moves the gate to the right  The < button moves the gate to the left	The function is used to check the gate opens in the right direction.  The gate will move at reduced speed.
Path: CONFIGURATION > N	IOTOR SETTINGS > Travel calibration	
Travel calibration	The function is used to start travel self-learning.	
Path: CONFIGURATION > MOTOR SETTINGS > <b>Motor type</b>		
Motor type	BKX08	The function is used to set the type of gearmotor installed.
Path: CONFIGURATION > N	IOTOR SETTINGS > Motor power	
Motor power	30% to 130% (Default 100%)  At 100%, the maximum thrust is the one pre-defined for the type of motor set. Increasing or decreasing the percentage increases or decreases the maximum thrust.	The function allows you to increase or decrease the maximum thrust of the motor during a manoeuvre.  Decreasing the thrust increases the obstacle-detection sensitivity.
travel settings		

#### Gat

Path: CONFIGURATION > GATE TRAVEL SETTINGS > <b>Opening speed</b>		
Opening speed	25% to 100% (Default 70%)	The function is used to set the opening speed. The percentage is calculated based on the maximum travel speed.

Path: CONFIGURATION > GATE TRAVEL SETTINGS > Closing speed		
Closing speed	25% to 100% (Default 70%)	The function is used to set the closing speed. The percentage is calculated based on the maximum travel speed.

# Path: CONFIGURATION > GATE TRAVEL SETTINGS > Travel AST control Deactivated (Default) = Maximum thrust and low obstruction sensitivity. Minimum Average Maximum = Minimum thrust and high obstruction sensitivity. The function adjusts the obstacle detection sensitivity Travel AST control during the gate travel in percentage terms. Customised The personalised values to be used are expressed as a percentage: - from 10% (minimum thrust and high obstruction sensitivity) - to 100% (maximum thrust and low obstruction sensitivity)

Path: CONFIGURATION > GATE TRAVEL SETTINGS > Part. open point		
Adjusting the partial opening	10% to 100% (Default 20%)	The function is used to set the partial opening percentage for the gate.
Path: CONFIGURATION > G	ATE TRAVEL SETTINGS $>$ 0p. slowdown	space
Opening slowdown space	1% to 50% (Default 1%)	The function is used to set the percentage of the total travel to be used for slowdown during gate opening.  During travel calibration, the opening slowdown point is automatically set to allow for a slowing space of 60 cm.
Path: CONFIGURATION > G	ATE TRAVEL SETTINGS $>$ <b>CI. slowdown s</b>	pace
Closing slowdown space	1% to 50% (Default 1%)	The function is used to set the percentage of the total travel to be used for slowdown during gate closing.  During travel calibration, the closing slowdown point is automatically set to allow for a slowing space of 60 cm.
Path: CONFIGURATION > G	ATE TRAVEL SETTINGS > <b>Opening slowd</b>	own speed
Opening slowdown	5% to 50% (Default 40%)	The function is used to set the opening slowdown speed. The percentage is calculated based on the maximum travel speed.  The parameter is only used with the [Opening]
speed		slowdown point] function active.
		If the slowdown speed is incorrectly set to a value higher than the opening speed by mistake, the parameter is corrected.
Path: CONFIGURATION > GATE TRAVEL SETTINGS > Closing slowdown speed		
Closing slowdown speed	5% to 50% (Default 40%)	The function is used to set the closing slowdown speed. The percentage is calculated based on the maximum travel speed.
		The parameter is only used with the [Closing slowdown point] function active.
		If the slowdown speed is incorrectly set to a value higher than the closing speed by mistake, the parameter is corrected.

Path: CONFIGURATION > G	ATE TRAVEL SETTINGS > Slowdown AST	control
	Deactivated (Default) = Maximum thrust and low obstruction sensitivity.	
0	Minimum Average Maximum = Minimum thrust and high obstruction sensitivity.	The function adjusts the obstacle detection sensitive during slowdown in percentage terms.  The parameter is only used if the opening or closing slowdown point is active.
Slowdown AST control	Customised The personalised values to be used are expressed as a percentage: - from 10% (minimum thrust and high obstruction sensitivity) - to 100% (maximum thrust and low obstruction sensitivity)	
Path: CONFIGURATION > G	ATE TRAVEL SETTINGS > Impact test	
Impact test	Activate test mode Deactivate test mode Leaf weight Select the gate weight value closest to the real weight: 200 kg to 800 kg (default 800 kg). Preset not available for greater weights. Apply pre-set value	The functions activates or deactivates test mode for impact test checks. With the function on, the operator does not signal errors connected to obstacle detection after more than one consecutive impact. The function is also used to pre-set the travel parameters, according to the gate leaf weight and length. The preset values are used for impact test checks.
	Apply pie-set value	Test mode is deactivated automatically after 1

# Wired safety devices

Path: Configuration > wired safety devices > <b>Total stop</b>		
Total stop	Deactivated (Default) On	The function is used to manage operator stops and exclusion of all other commands. When the function is activated, the 2-1 input is used as a normally closed contact.  By activating a device (normally closed) connected to input 2-1, the operator stops and all commands are excluded, including any automatic closing.  Use a control device to resume movement.

hour.

icon.

Configure the travel parameters according to the set leaf weight.

the [Travel calibration] function.

The parameter is only displayed after travel has been calibrated. See

☐ Test mode is deactivated automatically after 1

 $\square$  With the function on, the display shows the  $\triangle$ 

# Path: Configuration > wired safety devices > CX input / CY input / CZ input / CK input Deactivated (Default) C1 = Reopen while closing (photocells) C2 = Reclose while opening (photocells) C3 = Partial stop Only with [Automatic close] activated. C4 = Obstacle standby (photocells) C7 = Reopen while closing (sensitive edges) C8 = Reclose while opening (sensitive **CX** input edges) C13 = Reopen while closing, with CY input The function allows you to configure the CX, CY, CZ immediate closure once the obstruction and CK inputs. **CZ** input has been removed, even if the gate is **CK** input not in motion r7 = Reopen while closing (sensitive edges with 8K2 resistor) r8 = Reclose while opening (sensitive edges with 8K2 resistor) r7 (two sensitive edges) = Reopen while closing (pair of sensitive edges with 8K2 resistor) r8 (two sensitive edges) = Reclose while opening (pair of sensitive edges with 8K2 resistor)

Path: CONFIGURATION > WIRED SAFETY DEVICES > Safety devices test		
Safety devices test	Deactivated (Default)  CX CY CX CY CZ _ CX _ CZ CY CZ CY CZ CX CY CZ CK  CX _ CK _ CY _ CK _ CY _ CK _ CY _ CK _ CZ _ CK CX _ CZ _ CK _ CY _ CZ _ CK	The function is used to check that the photocells connected to the selected inputs are operating correctly, after each opening and closing command.  Run the test by connecting the photocells to the TS terminal [see paragraph Photocells and sensitive edges].

Path: Configuration > Rio Safety Devices > RIO ED T1 / RIO ED T2		
RIO ED T1 RIO ED T2	Deactivated (Default) P0 = It stops the gate and excludes automatic closing. Use a control device to resume movement. P7 = Reopen while closing. P8 = Reclose while opening.	The function is used to configure a wireless safety device.  The function only appears if the RIO CONN interface board is present.

#### Path: Configuration > Rio Safety Devices > RIO PH T1 / RIO PH T2 Deactivated (Default) P1 = Reopen while closing. P2 = Reclose while opening. P3 = Partial stop. Only with [Automatic The function is used to configure a wireless safety RIO PH T1 close] activated. device. The function only appears if the RIO CONN RIO PH T2 P4 = Obstacle standby.interface board is present. P13 = Reopening during closure with immediate stop once the obstacle has been removed, even with the gate not in motion.

#### **BUS Devices**

### BUS (b1-b8) photocell functions

Path: CONFIGURATION > BUS DEVICES > BUS (1 - 8) photocell*		
BUS Photocell 1 Photocell BUS 2 Photocell BUS 3 Photocell BUS 4 Photocell BUS 5 Photocell BUS 6 Photocell BUS 7 Photocell BUS 8	Deactivated (Default) C1 = Reopen while closing (photocells) C2 = Reclose while opening (photocells) C3 = Partial stop Only with [Automatic close] activated. C4 = Obstacle standby (photocells) C13 = Reopen while closing, with immediate closure once the obstruction has been removed, even if the gate is not in motion Open Close	The function is used to configure the BUS photocell input.  The function only appears if there is a BUS photocell connected.

<sup>(\*)</sup> As set on the device DIP switch.

#### BUS (b21-b28) key selector switch functions

Path: CONFIGURATION $>$ BUS DEVICES $>$ BUS (1 - 8) key selector switch *			
BUS 1 key selector BUS 2 key selector BUS 3 key selector BUS 4 key selector BUS 5 key selector BUS 6 key selector BUS 7 key selector BUS 8 key selector SUS 8 key selector	Open Close Partial opening Stop B1-B2 output BUS 1 module relay - Activate output 2 (relay output) on BUS 1 I/O module BUS 2 module relay - Activate output 2 (relay output) on BUS 2 I/O module Step-by-step - The first command is to open and the second to close. Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.	Associate a function with the BUS key selector input.  Different functions can be set according to the key turning direction.  - Key to the right  - Key to the left  The function only appears if there is a BUS key selector connected.	

(\*) As set on the device DIP switch.

# I/O BUS 1 (b11) module / I/O BUS 2 (b12) module functions\*

(\*) As set on the device DIP switch.

Path: CONFIGURATION > BUS DEVICES > I/O MODULE BUS 1 > Input I1 / Input I2 Path: CONFIGURATION > BUS DEVICES > I/O MODULE BUS 2 > Input I1 / Input I2		
input I1 input I2	Deactivated (Default) Stop = Stop the gate and exclude automatic closing. Use a control device to resume movement.  If it is activated, the input is used as a normally closed contact.  r7 = Reopen while closing (sensitive edge with 8K2 resistor).  r8 = Reclose while opening (sensitive edge with 8K2 resistor).  Partial opening Open Close Step-by-step - The first command is to open and the second to close.  Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.	The function allows you to configure the inputs on the I/O modules.  The function only appears if there is a BUS I/O module connected.

Path: CONFIGURATION > BUS DEVICES > I/O MODULE BUS 1 > Light output  Path: CONFIGURATION > BUS DEVICES > I/O MODULE BUS 2 > Light output			
Light output	Passage-open warning light - It notifies the user of the operator status.  See function [Passage-open warning light].  Cycle lamp - The lamp stays on during the manoeuvre.  Courtesy light - The light switches on when a manoeuvre starts and remains on once the manoeuvre has finished, for the time set under the [Courtesy time] function.	This function allows you to configure output 1 on the I/O modules.  The function only appears if there is a BUS I/O module connected.	
Path: CONFIGURATION > BUS DEVICES > I/O MODULE BUS 1 > Relay output Path: CONFIGURATION > BUS DEVICES > I/O MODULE BUS 2 > Relay output			
Relay output	User command (Default): the output is managed by user commands or timers  AMF (Access Management Function)  — The output is used to indicate the fully open passage position in AMF mode.  The output remains open when the gate is fully open and remains closed in all other cases.	Associate a function with I/O module output 2.  The function only appears if there is a BUS I/O module connected.	
Path: CONFIGURATION $>$ BUS DEVICES $>$ I/O MODULE BUS 1 $>$ Relay output time Path: CONFIGURATION $>$ BUS DEVICES $>$ I/O MODULE BUS 2 $>$ Relay output time			
Relay output time	Bistable ON - 1 to 180 seconds (Default 1)	The function allows you to associate a time with output 2 on the I/O modules.  The function only appears if there is a BUS I/O module connected.	
ing heacon			

# BUS flashing beacon

Path: CONFIGURATION > BUS DEVICES > BUS FLASHING BEACON > <b>Opening colour</b>		
Opening colour	White Yellow Orange Red (Default) Purple Blue Light blue Green	This function allows you to set the colour of the BUS flashing beacon during operator opening.  The function only appears if there is a BUS flashing beacon connected.

Path: CONFIGURATION > BUS DEVICES > BUS FLASHING BEACON > Closing colour		
Closing colour	White Yellow Orange Red (Default) Purple Blue Light blue Green	This function allows you to set the colour of the BUS flashing beacon during operator closing.  The function only appears if there is a BUS flashing beacon connected.
Path: CONFIGURATION > E	BUS DEVICES > BUS FLASHING BEACON	> Auto. cl. colour
Automatic closing time colour	Off White Yellow Orange Red Purple Blue Light blue Green (Default)	The function allows you to set the BUS flashing beacon colour during the automatic closing time.  The function only appears if there is a BUS flashing beacon connected.
Path: CONFIGURATION > E	BUS DEVICES > BUS FLASHING BEACON >	> Pre-flashing colour
Pre-flashing colour	White (Default) Yellow Orange Red Purple Blue Light blue Green	The function allows you to set the flash colour for before opening and closing manoeuvres (pre-flash).  The function only appears if there is a BUS flashing beacon connected.
Path: CONFIGURATION > BUS DEVICES > BUS FLASHING BEACON > Signal error		
Signal error	Deactivated (Default) White Yellow Orange Red Purple Blue Light blue Green	The function allows you to set the colour of the BUS flashing beacon in the event of an error signal.  The warning light is activated after sending a command for movement.  The function only appears if there is a BUS flashing beacon connected.

Path: CONFIGURATION > BUS DEVICES > BUS DEVICE LIGHTS > Signal maintenance		
Signal maintenance	Deactivated (Default) White Yellow Orange Red Purple Blue Light blue Green	The function allows you to set the colour of the flash on enabled BUS devices (flashing beacons and selectors) when maintenance is necessary. With the function activated, these devices will signal that maintenance needs to be carried out at the start of each manoeuvre.  Configure maintenance and set the number of manoeuvres. See function [Configure maintenance].  The function only appears if there is a BUS flashing beacon or a BUS selector connected.

# **Command inputs**

Path: CONFIGURATION > COMMAND INPUTS > Command 2-7		
Command 2-7	Step-by-step (Default) - The first command is to open and the second to close.  Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.	The function associates a command to the device connected on 2-7.

# **Functions**

Path: CONFIGURATION > FUNCTIONS > Removing obstacles		
Removing obstacles	Deactivated (Default) - When an obstacle is detected, the operator inverts the direction of travel until the limit switch is reached.  Activated - When an obstacle is	The function allows you to activate the Remove
	detected, the operator inverts the direction of travel to create enough space to clear the obstacle and then comes to a stop.	obstruction mode where an obstacle is detected.

Path: CONFIGURATION > FUNCTIONS > <b>B1-B2 output function</b>		
	User command (Default): the output is managed by user commands or timers	
B1-B2 output function	AMF: passage open - Access Management Function. The output is used to indicate the fully open passage position in AMF mode.	The function configures the contact B1-B2.
	The output remains open when the gate is fully open and remains closed in all other cases.	

Path: CONFIGURATION > FUNCTIONS > Hold-to-run		
Hold-to-run	Deactivated (Default) On	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.
Path: CONFIGURATION > FUNCTIONS > <b>Obst. with motor stopped</b>		
Obstacle with motor stopped	Disabled (Default) On	With the function active and the operator stopped, an open or close command is not performed if the safety devices detect an obstacle. The function is active when the passage is closed or open, or after a complete stop.

#### Path: CONFIGURATION > FUNCTIONS > Standby mode Off From closed - Low consumption active in standby mode with gate closed The function activates after 3 minutes The function is used to start operator standby mode. of operator inactivity with the gate In standby mode, operator consumption is reduced closed. as per Regulation (EU) 2023/826. In standby mode and with the function active, the If there is a courtesy light, standby power supply to the accessories (output 10-11) is mode activates 3 minutes after the Low consumption in deactivated. If the control devices need to remain light switches off. standby mode active at all times, deactivate the function. From stationary (Default) - Low When the control panel is in standby mode, the consumption always active in standby display shows [STANDBY]. mode The function is only available with the Green The function activates after 3 minutes Power module installed (806XG-0160). of gate inactivity. If there is a courtesy light, standby mode activates 3 minutes after the light switches off.

#### **Devices connected with BUS CXN**

With at least one device connected to the CXN bus, the control panel enters [Networked standby] mode as required by Regulation (EU) 2023/826.

The display message [STANDBY NOT POSSIBLE] indicates that the control panel is unable to switch to standby mode because the Green Power module cannot support the consumption of all connected accessories. Turn standby mode off or reduce the number of connected accessories.

# How to check the number of accessories that can be managed with the Green Power module in standby mode

Scan the QR code below or click the link and follow the instructions to check the overall consumption of the connected accessories.



#### **Times**

Path: CONFIGURATION > TI	MES > Automatic close	
Automatic closure	Deactivated (Default) From 1 to 180 seconds	The function is used to set the time before automatic closure, once the opening travel end point has been reached or once the photocells have caused a partial stop [C3].  The function does not work if any of the safety devices are triggered when an obstacle is detected, after a complete stop, during a power outage or if there is an error.

Path: CONFIGURATION > TIMES > Automatic partial close		
Automatic closing after partial opening	Off 1 to 180 seconds (Default 10)	The function is used to set the time before automatic closure after a partial opening command has been performed or after the photocells have caused a partial stop [C3].  The function does not work if any of the safety devices are triggered when an obstacle is detected, after a complete stop, during a power outage or if there is an error.

#### Apartment building mode

With the Partial Opening command (2-3P), the leaf M2 opens.

If an Open command (2-3) is then sent, both leaves open.

With the [Automatic closing] function set, leaf M1 closes after the selected automatic closing time, while leaf M2 moves to the partial opening point set under [Partial opening adjustment].

If the partial opening command is given from input (2-3P), the [Automatic closing after either partial or pedestrian opening] function must be deactivated.

☐ To return to normal gate operation, send a closing command.

If the partial opening command is sent via a timer, after the set time the operator returns to normal operation and the leaves close. See function [Create timer].

Path: CONFIGURATION > TI	MES > <b>B1-B2 output time</b>	
B1-B2 output time	Bistable Monostable: on from 1 to 180 seconds (Default 1)	The function is used to set the B1-B2 output as bistable or monostable. Where the output is monostable, the contact closing time can be chosen.

#### Manage lights

Path: CONFIGURATION > MANAGE LIGHTS > Passage-open warning light		
	Warning light on (Default) - The light stays on when the operator is moving or the passage is open.	
Passage-open warning light	Warning light flashing - The warning light flashes every half a second when the passage is opening and stays on when the passage is open. The light flashes every second when the passage is closing, and remains off when the passage is closed.	The function is used to set the type of warning for the open passage light.

Talli. CUNFIGURATION > 1	MANAGE LIGHTS > <b>Light E3</b>	
Additional light	Disabled (Default) Cycle lamp - The lamp stays on during the manoeuvre.  An automatic closing time must be set under [Automatic closing] to ensure correct operation.  Courtesy light - The light switches on when a manoeuvre starts and remains on once the manoeuvre has finished, for the time set under the [Courtesy time] function.	This function allows you to choose the operating mode of the lighting device connected to the output E3.
Path: CONFIGURATION > I	MANAGE LIGHTS > Courtesy time	
Courtesy light time	60 to 180 seconds (Default 60)	The function allows you to set the seconds the additional light (set up as courtesy light) stays on after an opening or closing manoeuvre.
Path: CONFIGURATION > I	MANAGE LIGHTS > Pre-flashing time	
Pre-flashing time	Deactivated (Default) 1 to 10 seconds	The function adjusts the time for which the beacor activated before each manoeuvre.
communication		
Path: CONFIGURATION > F	RSE COMMUNICATION > RSE1	
RSE communication - RSE1	CRP (Default) Paired	The function is used to configure the card inserted the RSE1 connector.
Path: CONFIGURATION > F	RSE COMMUNICATION > RSE2	
RSE communication - RSE2	CRP (Default) RTU MODBUS	The function is used to configure the card inserted the RSE2 connector.
Path: CONFIGURATION > F	RSE COMMUNICATION > CRP address	
CRP address	1 to 254 (Default 1)	The function assigns a unique identification code (CRP address) to the control board.  The function is used where there are multiple operators connected to the same communication BUS using the CRP protocol.

#### 

## **External memory**

Path: CONFIGURATION > EXTERNAL MEMORY > Save data	
Save data	The function activates saving user data, timings and configurations to the memory device (memory roll).

Path: CONFIGURATION > EXTERNAL MEMORY > Read data	
Read data	The function activates uploading user data, timings and configurations on the memory device (memory roll). Any configurations already on the electronic board are overwritten.

#### Parameter reset

Path: CONFIGURATION > Parameter reset		
Parameter reset	Confirm? NO Confirm? YES	The function restores the factory configurations except for:[users], [password], [motor type], [CRP address], [RSE speed], [language], and the travel calibration settings.

## **Guided procedure (Wizard)**

Path: CONFIGURATION > Guided procedure (Wizard)		
Guided procedure (Wizard)	The function is used to launch the system configuration wizard.	

## **User management**

#### **New user**

Path: USER MANAGEMENT > New user		
	The function is used to register up to a maximum of 1000 users and assign a function to each one.	
New user	The operation can be carried out using a transmitter or a BUS selector device (e.g. a keypad or transponder reader). The board that manages the transmitters (AF) must be inserted into the connector.	
	See the [Saving a new user] section for information on the save procedure.	

#### Remove user

Path: USER MANAGEMENT	> Remove user
Remove user	The function is used to remove one of the registered users.  See the [Remove registered users] section for information on how to remove them.

#### Remove all

Path: USER MANAGEMENT	> Remove all
Remove all	The function is used to remove all registered users.

## **Radio decoding**

Path: USER MANAGEMENT > Radio decoding			
Radio decoding	All decoding (Default) Rolling code TW Key block	The function is used to choose the type of radio coding for the transmitters enabled to control the operator.  If you choose [Rolling code] or [TW key block], any transmitters with a different type of radio coding saved previously will be deleted.	

## **Self-Learning Rolling**

Path: USER MANAGEMENT > Self-Learning Rolling		
Self-Learning Rolling	Deactivated (Default) On	The function is used to save a new rolling code transmitter by activating acquisition from a rolling code transmitter that has already been stored. The saving and acquisition procedures are explained in the transmitter manual.

## Change mode

Path: USER MANAGEMENT > Change mode	
Change mode	Change the function assigned to a specific user.  For more information about the procedure, see the [Change a command assigned to a user] section.

## Information

## **FW** version

Path: INFORMATION > FW version		
FW version	Use the < > arrows to show: FW x.x.xx (firmware) GUI x.x (graphics) MOT x.x.xx (motor)	The function is used to display the firmware version and the GUI installed.

## **BUS** device status

Path: INFORMATION > BUS device status		
BUS device status	BUS 1-8 photocell BUS 1-8 selector switch BUS 1 / 2 flashing beacon I/O BUS 1 / 2 module	The function shows the status of all devices that can be connected to the BUS and managed by the firmware in use.  Available device statuses:  - OK  - Not communicating  - Safety device active  - BUS address conflict

Path: INFORMATION > Manoeuvre counter			
Manoeuvre counter	Total manoeuvres - Manoeuvres performed since the operator was installed.  Partial manoeuvres - Manoeuvres carried out after the last maintenance.	The function allows you to view the number of total or partial operator manoeuvres (after maintenance).	

## **Configure maintenance**

Path: INFORMATION > Maintenance conf.		
Configure maintenance	Deactivated (Default) from 1 x100 to 500 x100	The function allows you to set the number of manoeuvres the operator can perform before a maintenance warning signal is generated.  The warning is displayed as a [Maintenance required] message and signalled by 3 + 3 flashes every hour on the device [Passage-open warning light].

#### **Maintenance reset**

Path: INFORMATION > Maintenance reset	
Maintenance reset	The function allows you to reset the number of partial manoeuvres.

#### **Errors list**

Path: INFORMATION > Errors list		
Errors list	The function allows you to view the last 8 errors detected. The error list can be deleted.  Use the arrows to scroll through the list.  To cancel the error list, select [Delete errors]  Press ENTER to confirm.	

## **Timer management**

#### **Show clock**

Path: TIMER MANAGEMENT > Show clock	
Show clock	The function is used to enable the clock on the display.

#### Set the clock

Path: TIMER MANAGEMENT > Set the clock	
Set the clock	The function is used to set the date and time. Use the arrows and the Enter button to enter the desired values.

Path: TIMER MANAGEMENT > Automatic DST		
Automatic DST	Deactivated (Default) On Summer changeover: +1 hour on the last Sunday in March (change to daylight saving time). Winter changeover: -1 hour on the last Sunday in October (change to standard time).	The function allows you to enable automatic daylight saving time setting.   Valid in Central Europe only UTC+1.

#### Time format

Path: TIMER MANAGEMENT > Time format		
Time format	24-hour 12-hour	The function allows you to choose the clock display format.

#### **Create new timer**

Path: TIMER MANAGEMENT > Create new timer		
Create new timer	The function allows you to time one or more types of activation chosen from those available.  For more information about the procedure, see the [Creating a new timer] section.	

#### **Remove timer**

Path: TIMER MANAGEMENT > Remove timer			
Remove timer	Use the arrows to choose the timing to be removed.  0 = [Opening] P = [Partial opening] B = [Output B1-B2] R = [BUS module relay] Press ENTER to confirm.	The function allows you to remove one of the saved timings.	

## Language

Path: LANGUAGE		
Language	Italiano (IT) English (EN) (Default) Français (FR) Deutsch (DE) Español (ES) Português (PT) Pусский (RU) Polski (PL) Românesc (RO) Magyar (HU) Hrvatski (HR) Yкраїнський (UA) Nederlands (NL) Slovenský (SK)	The function allows you to set the display language.

#### **Password**

#### **Enable password**

Path: PASSWORD > Enable password		
Enable password	The function allows you to set a 4-digit password. The password will be requested to anyone who wants to access the main menu.  This option only shows if a password has NOT been enabled.	
	Use the arrows and the Enter button to dial the desired code.  Enter the password again using the arrows and the Enter button to confirm.	

#### **Remove password**

Path: PASSWORD > Remove password	
Remove password	The function allows you to remove the password that protects access to the main menu.  This option only shows if a password has been enabled.

#### **Change password**

Path: PASSWORD > Change password		
Change password	The function allows you to change the password that protects access to the main menu.  This option only shows if a password has been enabled.  Use the arrows and the Enter button to dial the desired code.  Enter the password again using the arrows and the Enter button to confirm.	

## Forgotten password

If you lose the password, you will need to reset the board to its factory settings. See [Factory reset].

## **Factory reset**

To restore the electronic board data to factory settings:

Disconnect the control board from the power supply and wait for it to switch off.

Press and hold the < and > buttons, then reconnect the control board to the power supply.

Continue to press and hold the < > buttons until [Factory reset] is displayed.

Select [Confirm? YES]

Press **ENTER** to confirm.

When you reset the control board, all saved users, set times, manoeuvre configurations and calibration operations are deleted.

#### Saving a new user

Press **ENTER** to enter programming.

Access: [USER MANAGEMENT] > New user

Press **ENTER** to confirm.

Choose the function to be assigned to the user:

Step-by-step - The first command is to open and the second to close.

Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.

Open

Partial opening

B1-B2 output

BUS 1 module relay - Activate output 2 (relay output) on BUS 1 I/O module

BUS 2 module relay - Activate output 2 (relay output) on BUS 2 I/O module

You will be asked to enter your user code. Send the code from the control device within 10 seconds.

The operation can be carried out by using a transmitter or a BUS selector device (e.g. a keypad or transponder reader).

The board that manages the control devices (AF) must be inserted into the connector.

Repeat the procedure to add other users.

## Removing a registered user

Press **ENTER** to enter programming.

Access: [USER MANAGEMENT] > Remove user

Press **ENTER** to confirm.

Use the arrows to choose the number associated with the user you want to remove and press **ENTER** to confirm.

Alternatively, the control device associated with the user you want to remove can be activated.

A confirmation request appears on the display:

Confirm? NO

Confirm? YES

Select [Yes] using the arrows and press **ENTER** to confirm deletion.

Repeat the procedure to remove other users.

#### Change a command assigned to a user

Press **ENTER** to enter programming.

Access: [USER MANAGEMENT] > Change mode

Press **ENTER** to confirm.

Use the arrows to choose the number associated with the user you want to edit. Press **ENTER** to confirm.

Alternatively, the control device associated with the user you want to remove can be activated.

Choose the new command to associate with the user:

Step-by-step - The first command is to open and the second to close.

Sequential - The first command is to open, the second to STOP, the third to close and the fourth to STOP.

Open

Partial opening

B1-B2 output

BUS 1 module relay - Activate output 2 (relay output) on BUS 1 I/O module

BUS 2 module relay - Activate output 2 (relay output) on BUS 2 I/O module

Confirm? NO

Confirm? YES

Press **ENTER** to confirm.

A confirmation request appears on the display:

Confirm? NO

Confirm? YES

Select [Yes] using the arrows and press **ENTER** to confirm your choice.

Repeat the procedure to edit other users.

## Creating a new timer

You can create up to 8 timers and 16 special days. Special days are exceptions to the weekly schedule. They refer to a specific day (e.g. a bank holiday). Special days can only be set from the CAME app [CONNECT SetUp].

Wired commands always take priority over commands set on the timer. Commands set on the timer take priority over commands forwarded by registered users (selectors and transmitters).

#### Example:

- The wired command connected to terminal 2-4 closes the operator even if the timer is set to [Opening].
- A closing command sent from the transmitter of a registered user is not performed by the gate if the timer is set to [Opening].

Press **ENTER** to enter programming.

#### Path: TIMER MANAGEMENT > Create new timer

Use the arrows to choose the command to associate with the timer:

Open

Partial opening

B1-B2 output

BUS 1 module relay - Activate output 2 (relay output) on BUS 1 I/O module

BUS 2 module relay - Activate output 2 (relay output) on BUS 2 I/O module

#### Press **ENTER** to confirm.

Start time

Use the arrows to set the command activation time. Press **ENTER** to confirm.

End time

Use the arrows to set the command deactivation time. Press **ENTER** to confirm.

Select days

All week

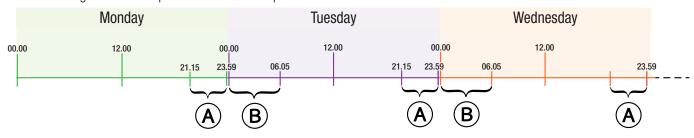
- Press [Select days] to choose one or more days of the week individually.
- Press [All week] to select the whole week.

#### Press **ENTER** to confirm.

Repeat the procedure to set other timers.

#### How to add a timer over two days

Create two single timers as specified in the above procedure.



A = First timer

 $\mathbf{B} =$ Second timer

## Import/export data

Save user data and system configuration data on a MEMORY ROLL card.

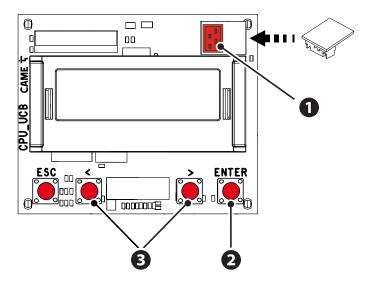
The stored data can be reused for another control board of the same type to carry across the same configuration.

△ Before inserting and removing the MEMORY ROLL card, DISCONNECT THE MAINS POWER SUPPLY TO THE LINE.

- Insert the MEMORY ROLL card into the corresponding connector on the control board.
- 2 Press the "Enter" button to access programming.
- 3 Use the arrows to choose the desired function.
- The functions are displayed only when a MEMORY ROLL card is inserted.

Path: CONFIGURATION > EXTERNAL MEMORY > Save data		
Save data Save user data, timings and configurations to the memory device (memory roll).		
Path: CONFIGURATION > EXTERNAL MEMORY > Read data		
Read data	Upload user data, timings and configurations to the memory device (memory roll).	

Once the data have been saved and loaded, remove the MEMORY ROLL card.



#### PAIRED OPERATION

Two connected operators are controlled with one command.

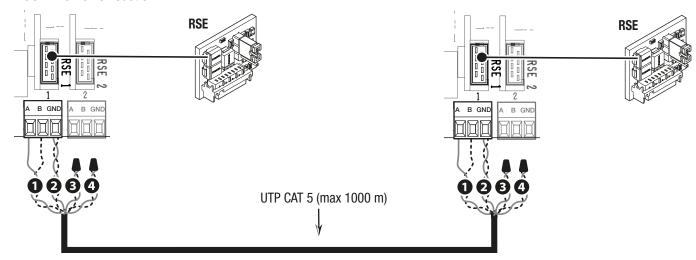
#### **Electrical connections**

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

Insert an RSE card into both control boards.

Connect up the electrics for the devices and accessories.

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



### **Programming**

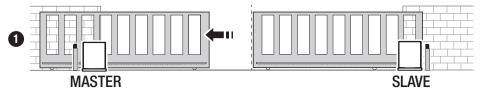
- All programming operations described below must be performed only on the control board set as the MASTER. Select the [Paired] system type when following the guided procedure, or configure the RSE\_1 port to [Paired] mode.
- After programming the MASTER operator in [Paired], the second operator automatically becomes SLAVE.

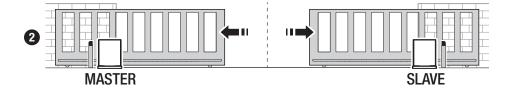
#### Saving users

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

#### **Operating modes**

- PARTIAL OPENING command
- STEP-BY-STEP command





DISPLAY V	VARNINGS KEY
À	The [Impact test] function is on.
$\rightarrow$	The operator detected an obstruction when the gate was moving to the right.
<b> </b> ←	The operator detected an obstruction when the gate was moving to the left.
<b>→ 2</b>	The operator detected two obstructions when the gate was moving to the right.  The number on the display varies according to the number of obstructions detected.  When the maximum number of detected obstructions has been reached, the operator stops and an error message shows on the display.
2 ←	The operator detected two obstructions when the gate was moving to the left.  The number on the display varies according to the number of obstructions detected.  When the maximum number of detected obstructions has been reached, the operator stops and an error message shows on the display.
Q	There is at least one programmed timer.
$\mathbb{Z}$	A programmed timer is running.  With the timer programmed for opening or partial opening, any given radio command will always allow opening. The wired commands continue to operate normally.
C0	Total stop active
i3	2-3 command input active
i3p	2-3P command input active
i4	2-4 command input active
C <n></n>	Wired safety device active  The <n> value is associated with the selected parameter for the functions [CX input] [CY input] [CZ input] [CK input].</n>
i7	2-7 command input active
r7	R7 safety device (sensitive edge) active
r8	R8 safety device (sensitive edge) active
2r7	R7 safety device (pair of sensitive edges) active
2r8	R8 safety device (pair of sensitive edges) active
c <n></n>	BUS photocell safety device active  The <n> value is associated with the selected parameter for the [BUS photocell] functions.</n>
c23	Open command active for BUS photocells
c24	Close command active for BUS photocells
P <n></n>	RIO safety device active  The <n> value is associated with the selected parameter for the functions [RIO ED T1 - RIO ED T2] and [RIO PH T1 - RIO PH T2]</n>

OP	Passage fully open	
CL	Passage fully closed	
BUS addres	ID conflict detected on BUS devices.	
Check BUS device	No BUS device with a safety function configured.	
RIO not configured	The RIO Conn board is not configured or has no safety configuration.	
Calibration needed	Travel calibration required.	
Guided procedure (Wizard)	Follow the on-screen wizard.	
Maintenand required	Maintenance required (manoeuvres exceeded for maintenance).	

## **ERROR MESSAGES E2** Calibration error **E4** Motor failure error **E6** Motor not working Operating time error **E7** Open release-hatch error **E8 E9** Obstacle detected during closing E10 Obstacle detected during opening The maximum number of obstacles detected consecutively has been exceeded E11 E12 Motor supply voltage missing or insufficient **E13** Limit switch input error or both limit switches open E14 Serial communication error in paired mode E15 Incompatible transmitter error **E17** Wireless system (RIO) communication error

**E18** 

**E24** 

**E25** 

**E27** 

Wireless system (RIO) not configured error

Address settings error on BUS devices

Communication error with motor

Communication error or malfunction of a BUS safety device

#### **MCBF**

Models	BKX08AGF	BKX08RGF
Length - Weight	20 m - 800 kg	20 m - 800 kg
Cycles	250000	250000
Full leaf door installed in windy area (%)	-30 %	-30 %

- The percentages indicate how much the number of cycles should be reduced in relation to the type of installation.
- ⚠ Before carrying out any cleaning or maintenance, or replacing any parts, disconnect the device from the power supply.
- ⚠ This document informs the installer of the checks that must be carried out during maintenance.
- ⚠ If the system is not used for long periods of time, e.g. for installations at sites with seasonal closures, disconnect the power supply. When the power supply is reconnected, check the system is working correctly.
- Environmentation on correct installation and adjustments, please see the product installation manual.
- For information on choosing products and accessories, please see our product catalogue.
- Every 10,000 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.

Grease all of the moving mechanical parts.

Check the warning and safety devices are working properly.

Check for any wear on the moving mechanical parts and check that they are working properly.

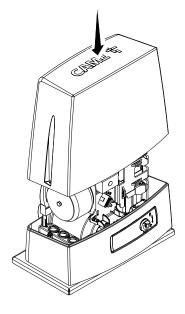
Check the release mechanism is working efficiently by performing a manoeuvre with the leaf free. The gate leaf must not be obstructed.

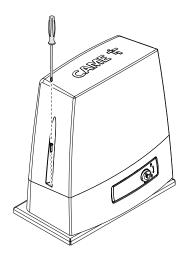
Check the cables are intact and connected correctly.

Check and clean the track guide and rack.

#### FINAL OPERATIONS

Before closing up the casing, check that the cable inlets are sealed to stop insects getting in and to prevent damp.





AFFIX THE PRODUCT LABEL FROM THE BOX HERE



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