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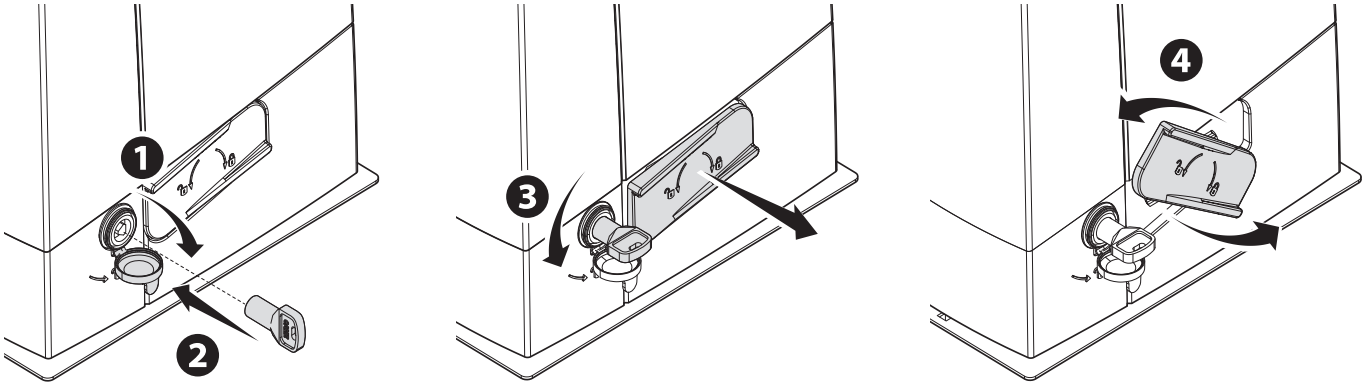
FA01294-EN

Sliding gate operators
BXV

BXV04AGS BXV06AGS BXV08AGS
BXV10AGS BXV04RGS BXV06RGS
BXV08RGS BXV10RGS BXV06AGM
BXV10AGM BXV04ALS BXV06ALS
BXV08ALS BXV10ALS

INSTALLATION MANUAL

EN English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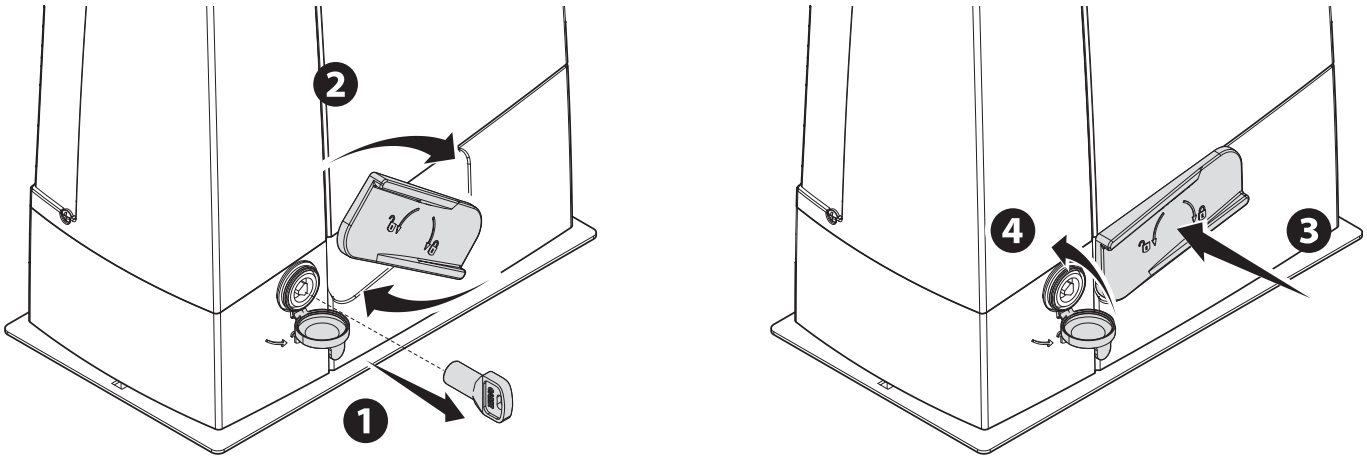
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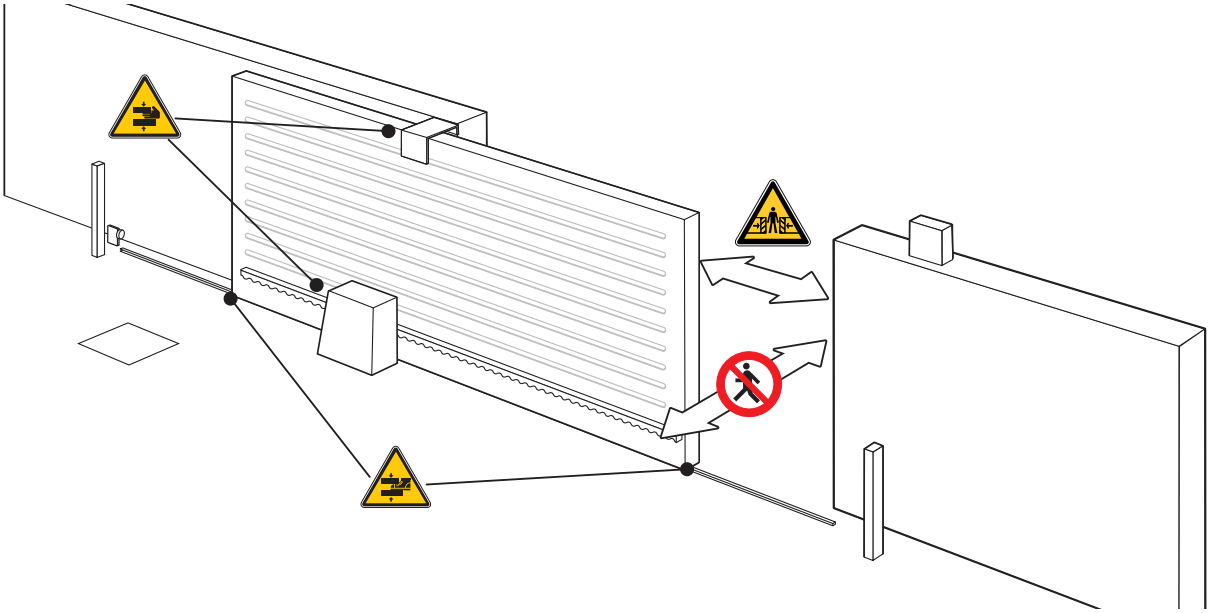
GENERAL PRECAUTIONS FOR INSTALLERS

⚠ Important safety instructions.
⚠ Follow all of these instructions. Improper installation can cause serious bodily harm.
⚠ Before continuing, also read the general precautions for users.

The manufacturer declines any liability for using non-original products; which would result in warranty loss • If the power-supply cable is damaged, it must be immediately replaced by the manufacturer or by an authorized technical assistance center, or in any case, by qualified staff, to prevent any risk. • 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 Machinery Direction 2006/42/CE and current European reference standards. • All procedures mentioned in this manual must be only be performed by skilled, qualified technicians and in full compliance with current regulations. • If not already present, apply a permanent tag, that describes how to use the manual release mechanism, close to the mechanism • Keep this manual inside the technical folder along with the manuals of all the other devices used for your automation system • 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. • 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. • Make sure that the operator has been properly adjusted and that the safety and protection devices, and the manual release, are working properly. • Remember to hand over to the end users all the operating manuals of the products that make up the final machinery. • Use this product only for its specifically intended use. Any other use is hazardous. • 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. • 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. • The electric cables must pass through special pipes, ducts and cable glands in order to guarantee adequate protection against mechanical damage. • Use suitable protections to prevent any mechanical hazards due to persons loitering within the operating range of the operator. • The manufacturer can not be held liable for any damage caused by improper, unreasonable, and erroneous use. • The product cannot automate any guided part that includes a pedestrian gate, unless the latter can be enabled only when the pedestrian gate is secured. • 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. • If the dangerous moving parts of the operator are installed lower than 2.5 from the ground or from any other access level, fit protections and/or signs to prevent hazardous situations. • If necessary, to pass the collision force test use a suitable sensitive safety-edge (as indicated below in this manual). Install it properly and adjust as needed. • Fit cautionary signs, such as the plate, wherever needed and in plain sight. • Make sure that opening and closing limiters are fitted. • Make sure that mechanical stops are already installed. • Make sure that people cannot be entrapped between the guided and fixed parts, when the guided part is set in motion. • Take care not to wet the operator with direct jets of water (sprinklers, water cleaners, etc.). • Demarcate properly the entire site to prevent unauthorized personnel to enter; especially children and minors.

Make sure that the operator is installed onto a sturdy surface that is protected from any collisions • Check that the temperature ranges given and those of the location match. • Before installing the operator, check that the guided part is in good mechanical condition, is balanced and that it opens and closes correctly. If something is missing, do not continue until you have complied with all safety provisions. • If necessary, add suitable reinforcements to the anchoring points. If necessary, add suitable reinforcements to the anchoring points. • Do not install door or gate leaves on tilted surfaces. • Do not install the operator upside down. • The rails of the upper guide must not cause any friction. • The guide rail must be well-fastened to the ground, entirely above the surface and free of any impediments to the gate's movement. • Prevent finger crushing between the rack and pinion. • Make sure that the gate is stable, that it opens and closes correctly and that the castors function properly and are well lubricated. • Make sure that people cannot be entrapped between the guided and fixed parts, when the guided part is set in motion.
This can be achieved if the relative distance exceeds 8 mm.
However, the following distances are considered safe to prevent entrapment of the body parts identified:
fingers, more than 25 mm;
feet, more than 50 mm;
head, more than 300 mm;
for the entire body, more than 500 mm.
If these distances can not be guaranteed, a protection is necessary.

Main points of danger for people




Do not enter.


Danger of entrapment.


Danger of hand entrapment.


Danger of foot entrapment.


Danger of high voltage.

PRODUCT DATA AND INFORMATION

Legend

📖 This symbol shows which parts to read carefully.

⚠ This symbol shows which parts describe safety issues

☛ This symbol shows which parts to tell users about.

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

Description

BXV04AGS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 400 kg that are up to 14-m long. RAL7024-grey cover.
BXV06AGS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 600 kg that are up to 18-m long. RAL7024-grey cover.
BXV08AGS - Operator with 24 V motor, featuring a control board with display, 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.
BXV10AGS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 1000 kg that are up to 20-m long. RAL7024-grey cover.
BXV04RGS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 400 kg that are up to 14-m long. RAL7024-grey cover.
BXV06RGS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 600 kg that are up to 18-m long. RAL7024-grey cover.
BXV08RGS - Operator with 24 V motor, featuring a control board with display, 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.
BXV10RGS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 1000 kg that are up to 20-m long. RAL7024-grey cover.
BXV06AGM - Operator with 24 V motor, featuring a control board with display, equipped with magnetic limit switches, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 600 kg that are up to 18-m long. RAL7024-grey cover.
BXV10AGM - Operator with 24 V motor, featuring a control board with display, equipped with magnetic limit switches, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 1,000 kg that are up to 20-m long. RAL7024-grey cover.
BXV04ALS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 400 kg that are up to 14-m long. RAL 7040 grey cover.
BXV06ALS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 600 kg that are up to 18-m long. RAL7040-grey cover.
BXV08ALS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 800 kg that are up to 20-m long. RAL7040-grey cover.
BXV10ALS - Operator with 24 V motor, featuring a control board with display, on-board radio decoding, movement and obstruction detecting device for gates weighing up to 1000 kg that are up to 20-m long. RAL7040-grey cover.

Intended use

The ideal solutions for sliding gates at private homes and apartment blocks, connected

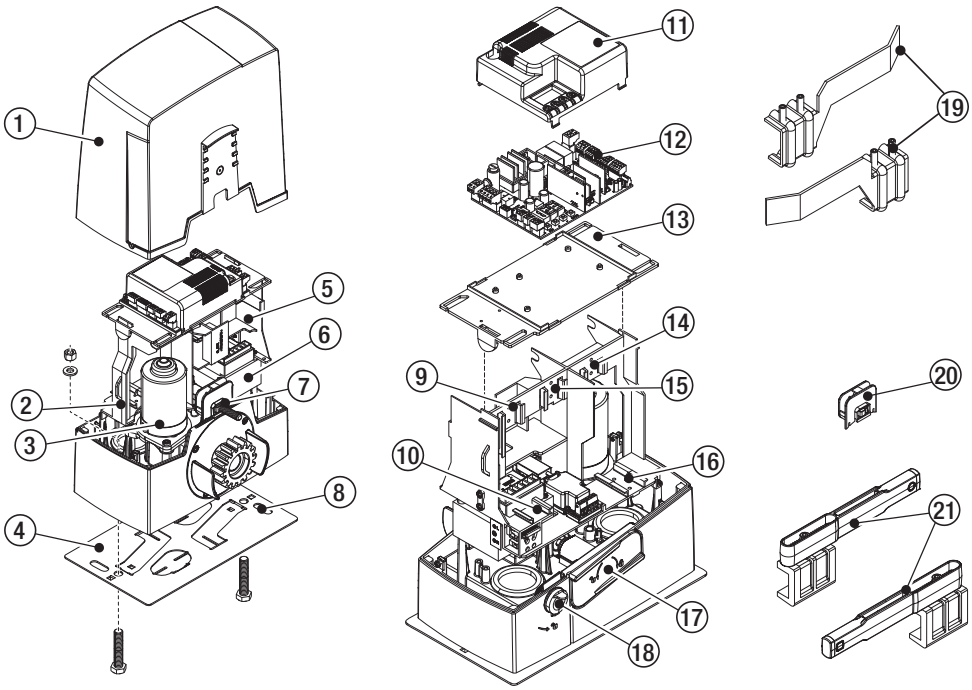
📖 Any installation and/or use other than that specified in this manual is forbidden.

Description of parts

Operator

1 -Cover
2 -Board-fitting support
3 -Gearmotor
4 - Anchoring plate
5 - Housing for two emergency batteries
6 - Transformer
7 - Mechanical limit switch
8 - Hole for the passage of the release cord
9 - Housing for the RGP1 module
10 - Housing for thermostat with cartridge
11 - Board protecting cover
12 - Control board
13 - Control board rack
14 - Housing for the RLB card
15 - Housing for the UR042 module
16 - Housing for SMA or RGSM001 sensor
17 - Release lever
18 - Lock
19 - Mechanical limit switch fins
20 - Magnetic limit switch *
21 - Magnetic limit switch fins *

* Only for BXV06AGM BXV10AGM



Control board

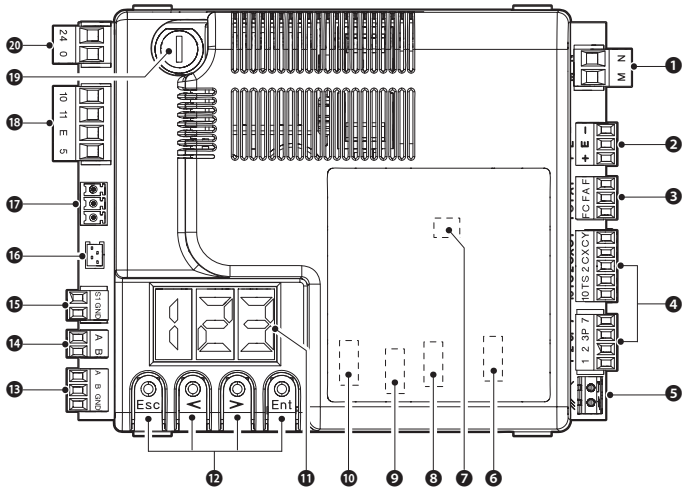
📖 The functions on the input and output contacts, the time settings and user management, are set and viewed on the display.

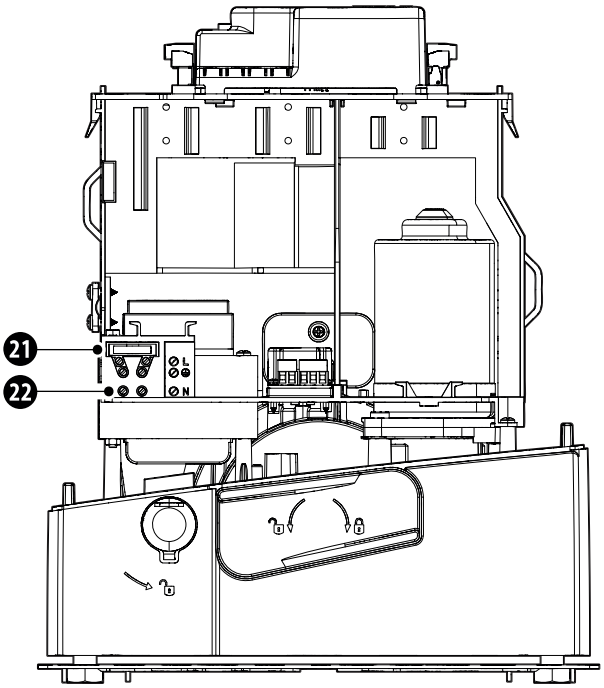
📖 All wiring connections are quick-fuse protected.

⚠ For the system to work properly, before fitting any plug-in card, you MUST CUT OFF THE MAIN POWER SUPPLY and remove any batteries.

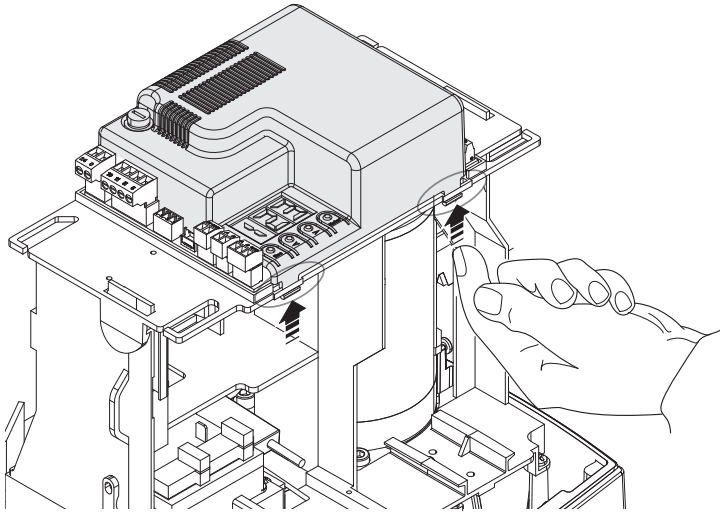
⚠ Before working on the control panel, cut off the mains power supply and remove any batteries.

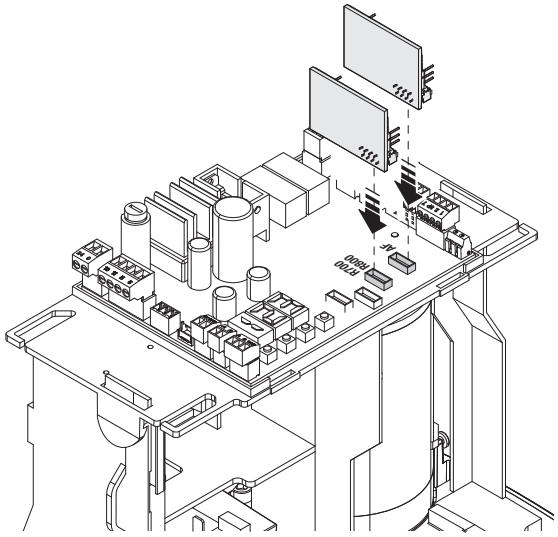
1 - Terminal board for connecting the gearmotor
2 - Terminal board for connecting the Encoder
3 - Terminal board for connecting the limit switches
4 - Terminal board for connecting control and safety devices
5 - Terminal board for connecting the antenna
6 - Snap in connector for radio frequency board (AF)
7 - Memory Roll card connector
8 - Connector for the R700 or R800 decoding card
9 - RSE card connector
10 - RIOCN8WS card connector
11 - Display
12 - Buttons for programming
13 - Terminal board for connecting the combined or CRP function
14 - Terminal board for connecting the selector to the keypad
15 - Terminal board for connecting the transponder selector
16 - Connector for the GSM module
17 - Terminal board for connecting the RGP1 module
18 - Terminal board for connecting the signalling devices
19 - Accessories fuse
20 - Terminal board for power supply to the control board
21 - Line fuse
22 - Power supply terminal board



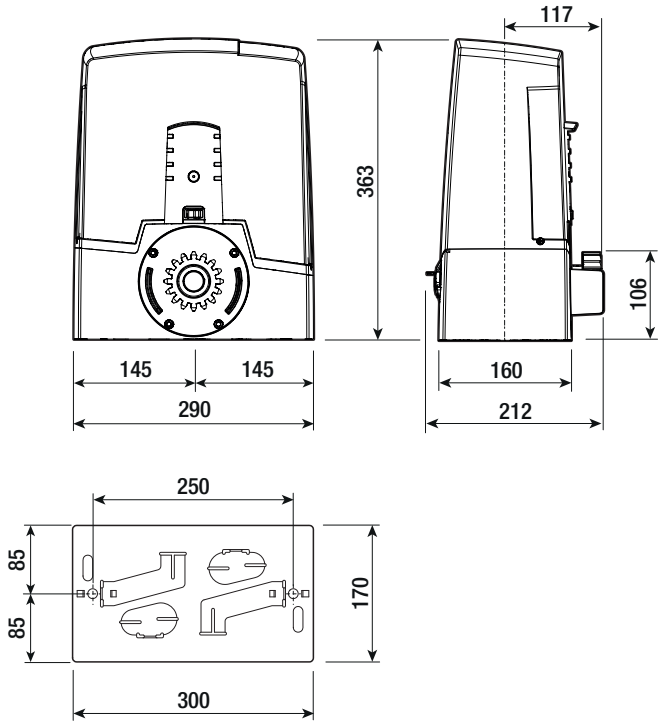


📖 To insert the snap-in boards into the dedicated connectors, remove the board cover.





Dimensions



Limits to use

MODELS	BXV04AGS	BXV06AGS	BXV08AGS	BXV10AGS	BXV04RGS	BXV06RGS	BXV08RGS	BXV10RGS
Pinion module	4	4	4	4	4	4	4	4
Maximum gate-leaf length (m)	14	18	20	20	14	18	20	20
Maximum leaf weight (kg)	400	600	800	1000	400	600	800	1000

MODELS	BXV06AGM	BXV10AGM	BXV04ALS	BXV06ALS	BXV08ALS	BXV10ALS
Pinion module	4	4	4	4	4	4
Maximum gate-leaf length (m)	18	20	14	18	20	20
Maximum leaf weight (kg)	600	1000	400	600	800	1000

Technical data

MODELS	BXV04AGS	BXV06AGS	BXV08AGS	BXV10AGS	BXV04RGS	BXV06RGS	BXV08RGS	BXV10RGS
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	110 AC	110 AC	110 AC	110 AC
Motor power supply (V)	24 DC	24 DC	24 DC	24 DC	24 DC	24 DC	24 DC	24 DC
Stand-by consumption (W)	5,5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Power (W)	170	270	400	400	170	270	400	400
Maximum current consumption (A)	7	11	16	16	7	11	16	16
Color	RAL 7024	RAL 7024	RAL 7024	RAL 7024	RAL 7024	RAL 7024	RAL 7024	RAL 7024
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Thrust (N)	350	600	800	1000	350	600	800	1000
Maneuvering speed (m/min)	12	12	11	11	12	12	11	11
Work time (s)	180	180	180	180	180	180	180	180
Duty cycle	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE
Protection rating (IP)	44	44	44	44	44	44	44	44
Insulation class	I	I	I	I	I	I	I	I

MODELS	BXV06AGM	BXV10AGM	BXV04ALS	BXV06ALS	BXV08ALS	BXV10ALS
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC	230 AC
Motor power supply (V)	24 DC	24 DC	24 DC	24 DC	24 DC	24 DC
Stand-by consumption (W)	5.5	5.5	5,5	5.5	5.5	5.5
Power (W)	270	400	170	270	400	400
Maximum current consumption (A)	11	16	7	11	16	16
Color	RAL 7024	RAL 7024	RAL 7040	RAL 7040	RAL 7040	RAL 7040
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Thrust (N)	600	1000	350	600	800	1000
Maneuvering speed (m/min)	12	11	12	12	11	11
Work time (s)	180	180	180	180	180	180
Duty cycle	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE
Protection rating (IP)	44	44	44	44	44	44
Insulation class	I	I	I	I	I	I

Fuse table

MODELS	BXV04AGS	BXV06AGS	BXV08AGS	BXV10AGS	BXV04RGS	BXV06RGS	BXV08RGS	BXV10RGS
Line fuse	1.6 A-F	1.6 A-F	1.6 A-F	1.6 A-F	3.15 A-F	3.15 A-F	3.15 A-F	3.15 A-F
Accessories fuse	2 A-F	2 A-F	2 A-F	2 A-F	2 A-F	2 A-F	2 A-F	2 A-F

MODELS	BXV06AGM	BXV10AGM	BXV04ALS	BXV06ALS	BXV08ALS	BXV10ALS
Line fuse	1.6 A-F	1.6 A-F	1.6 A-F	1.6 A-F	1.6 A-F	1.6 A-F
Accessories fuse	2 A-F	2 A-F	2 A-F	2 A-F	2 A-F	2 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 mm²	3G x 1.5 mm²	3G x 2.5 mm²
230 V AC Flashing light	2 x 1.5 mm²	2 x 1.5 mm²	2 x 1.5 mm²
TX Photocells	2 x 0.5 mm²	2 x 0.5 mm²	2 x 0.5 mm²
RX photocells	4 x 0.5 mm²	4 x 0.5 mm²	4 x 0.5 mm²
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.

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

🕮 To connect the antenna, use the RG58 (we suggest up to 5 m).

🕮 For combined connection and CRP, use a UTP CAT5-type cable (up to 1,000 m long).

🕮 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

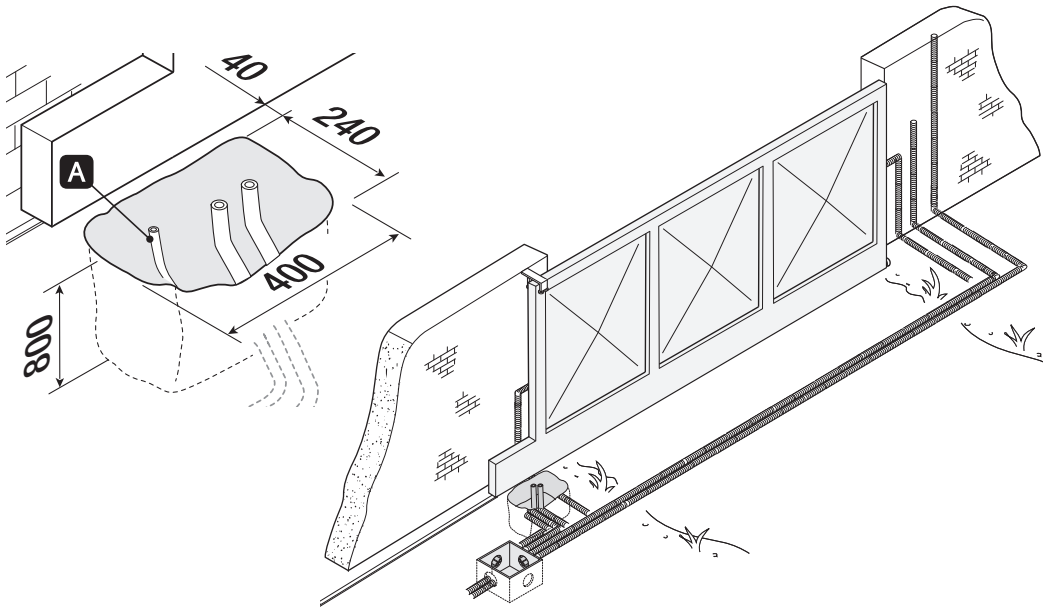
INSTALLATION

📖 The following illustrations are mere examples. Consider that the space available where to fit the barrier and accessories will vary depending on the area where it is installed. It is up to the installer to find the most suitable solution.

📖 The drawing 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.



📖 For connecting the gearmotor we suggest using a Ø 40 mm corrugated tube, whereas for the accessories we suggest Ø 25 mm tubes.

📖 Set up a Ø 20 mm tube for running through the release cord. **a**

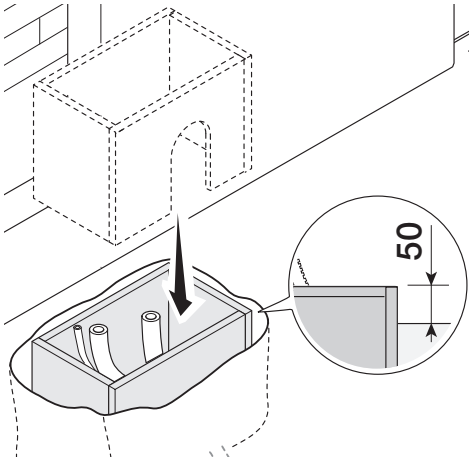
📖 The number of tubes depends on the type of system and the accessories you are going to be fit.

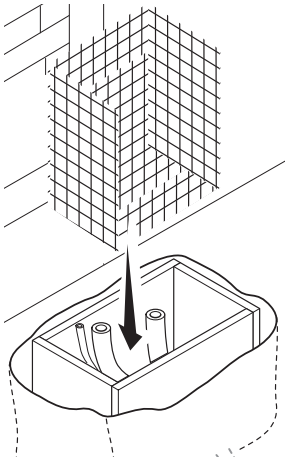
Laying the anchoring plate

Set up a foundation frame that is larger than the anchoring plate.
Fit the foundation frame into the dug hole.

📖 The foundation frame must jut out by 50 mm above ground level.

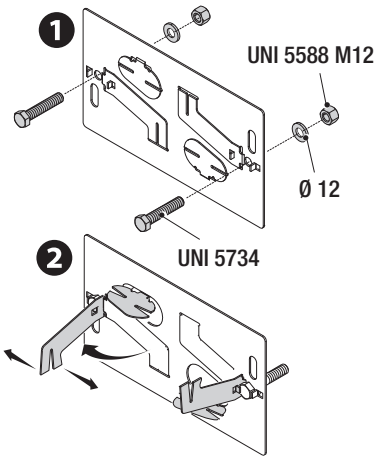
Fit an iron cage into the foundation frame to reinforce the concrete.

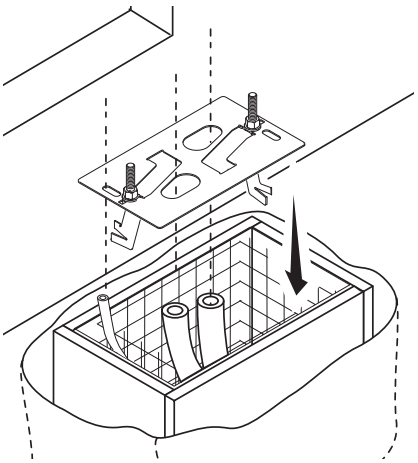




Insert the screws supplied in the anchoring plate.
Lock the screws with the nuts supplied.
Remove the pre-shaped clamps using a screwdriver.
Fit the anchoring plate into the iron cage.

📖 The tubes must run through the existing holes.





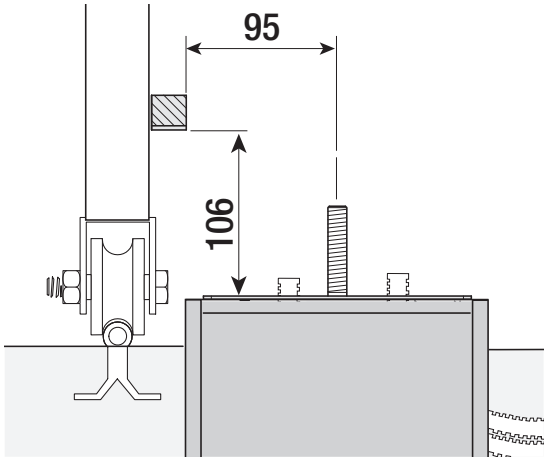
Fasten the rack.

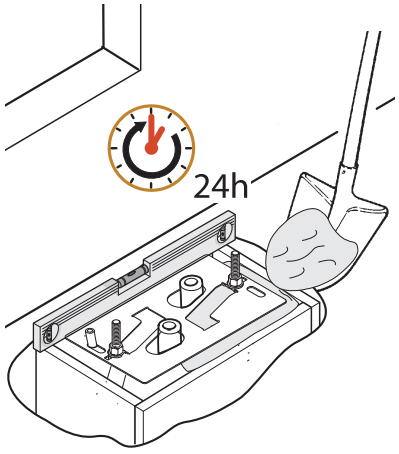
📖 See the FASTENING THE RACK paragraph.

Position the anchoring plate respecting the measures shown on the drawing.
Cast cement into the foundation frame;

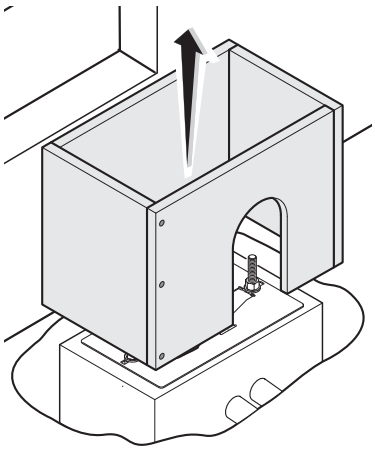
📖 The plate must be perfectly aligned and its bolt threads completely above surface.

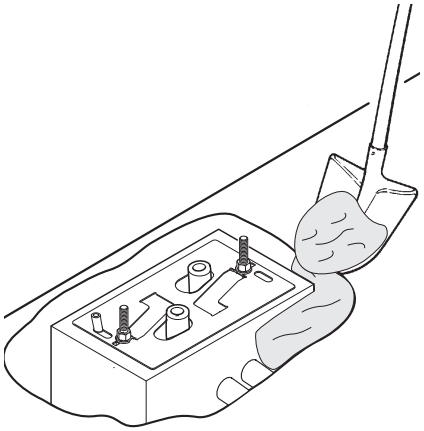
Wait at least 24 hours for the cement to dry.



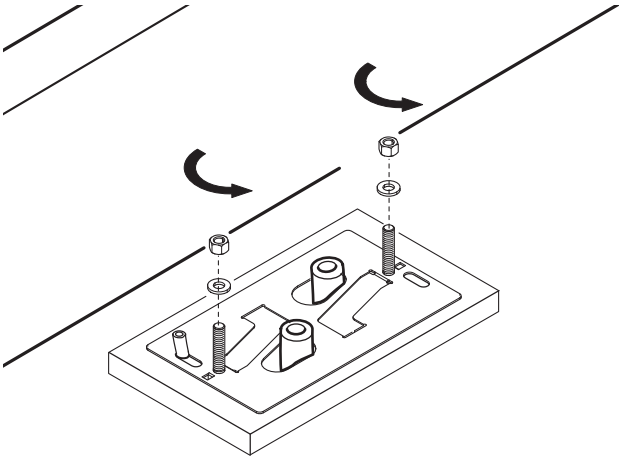


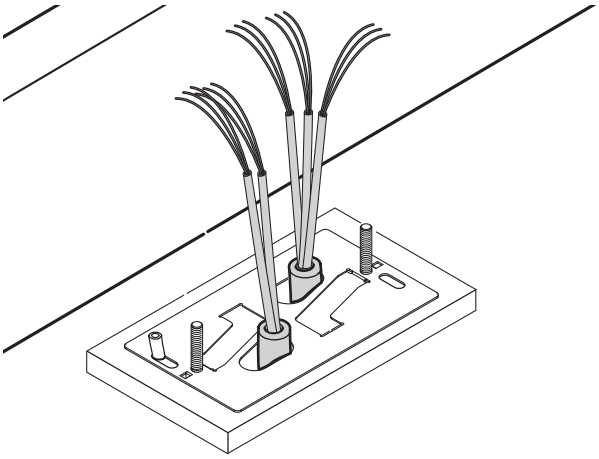
Remove the foundation frame.
Fill the hole with earth around the concrete block.





Remove the nuts from the bolts.
Fit the electric cables into the tubes so that they come out about 1500 mm.

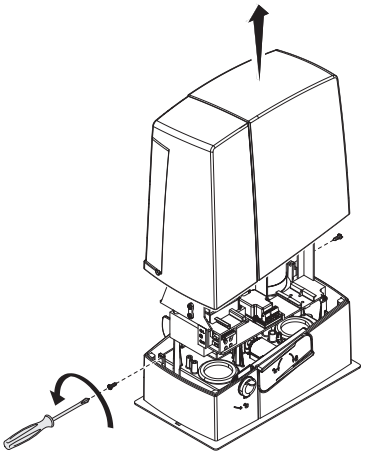


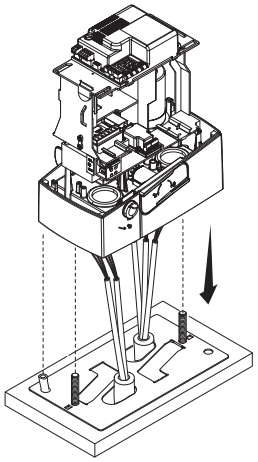


Setting up the operator

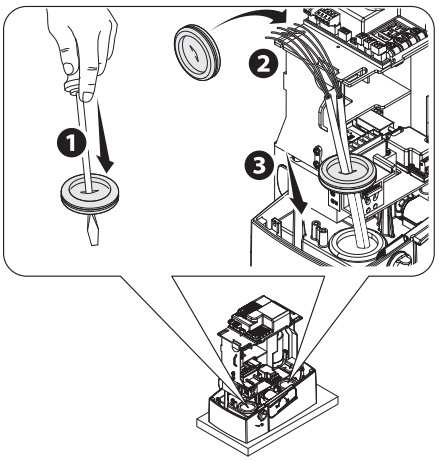
Remove the operator's cover.
Place the operator on top of the anchoring plate.

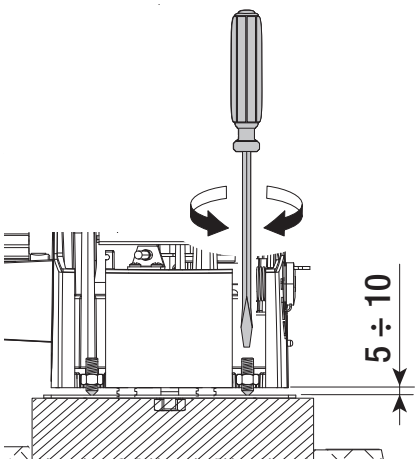
The electric cables must pass under the operator case





Drill the cable gland.
Lift the gearmotor by 5 to 10 mm from the plate by adjusting the threaded steel feet to allow any subsequent adjustments between pinion and rack.

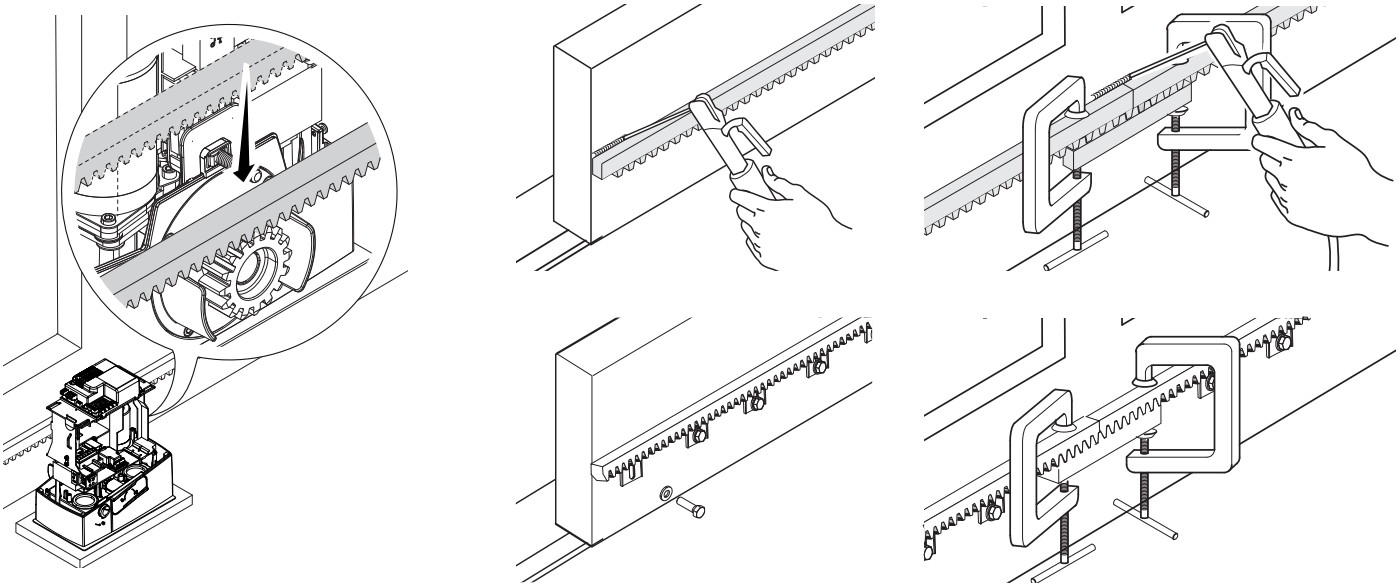




Fastening the rack

Release the operator.
Rest the rack above the gearmotor.
Weld or fasten the rack to the gate along its entire length.

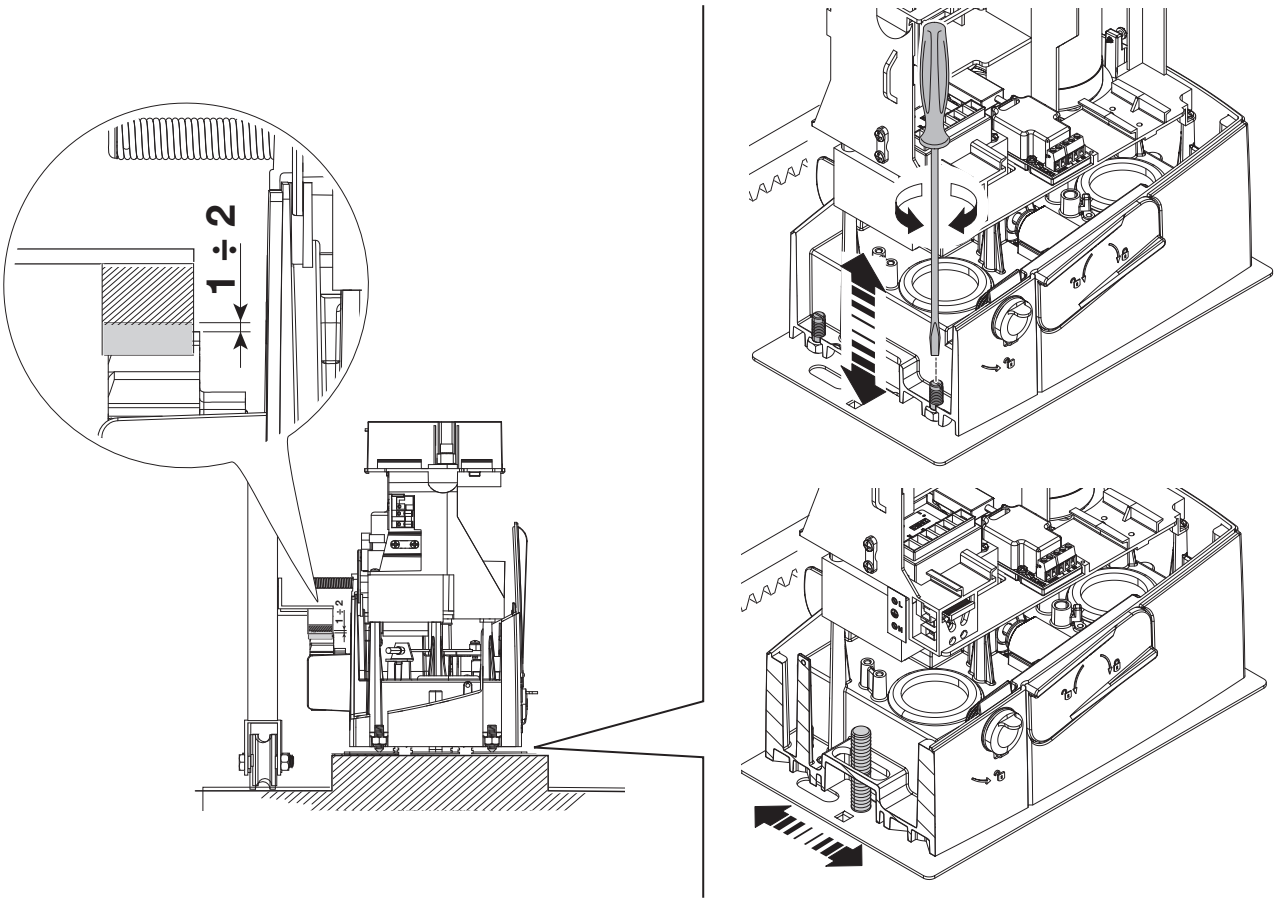
📖 To assemble the rack modules, use an extra piece and rest it under the joint, then fasten it using two clamps.



Adjusting the pinion-rack coupling

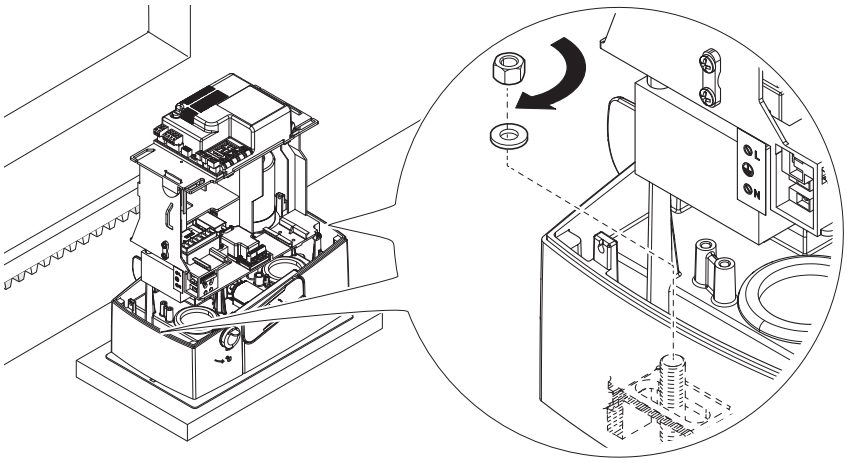
Manually open and close the gate.
Adjust the pinion-rack coupling distance using the threaded feet (vertical adjustment) and the holes (horizontal adjustment).

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



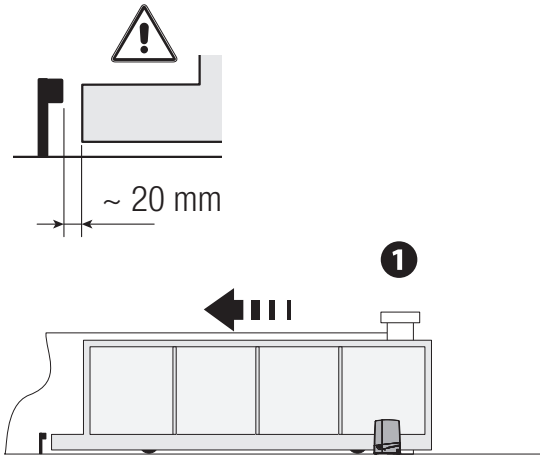
Fastening the operator

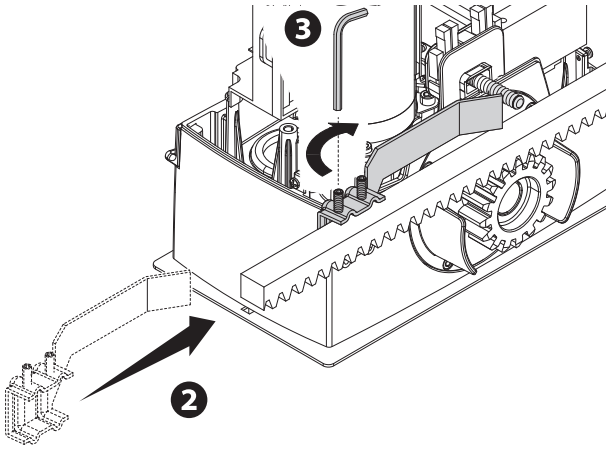
📖 Proceed with the fastening only after adjusting the pinion-rack coupling.
Fasten the operator to the anchoring plate with washers and nuts.



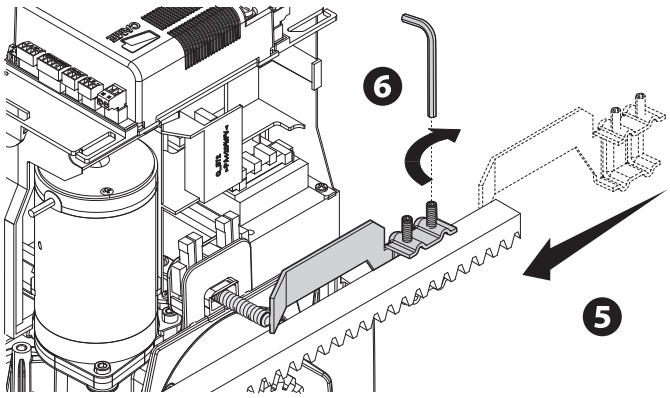
Establishing the limit-switch points with mechanical limit-switches

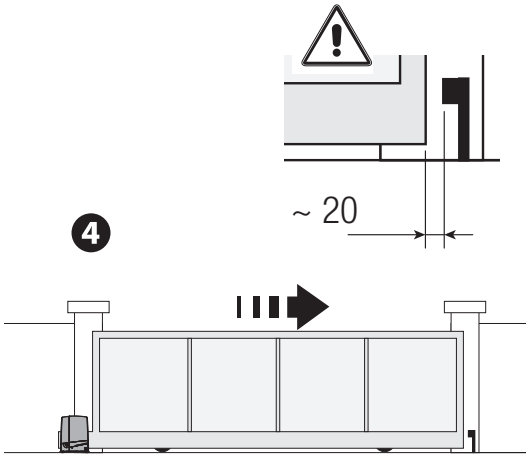
Open the gate.
Insert the opening limit switch fin on the rack.
The spring must trigger the microswitch.
Fasten the opening limit switch fin using the headless screws (supplied).





Close the gate.
Insert the closing limit switch fin on the rack.
The spring must trigger the microswitch.
Fasten the closing limit fin using the headless screws (supplied).





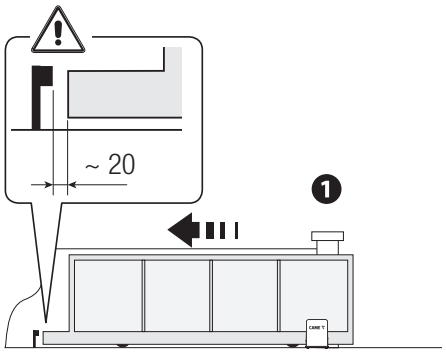
Establishing the limit-switch points with magnetic limit-switches *

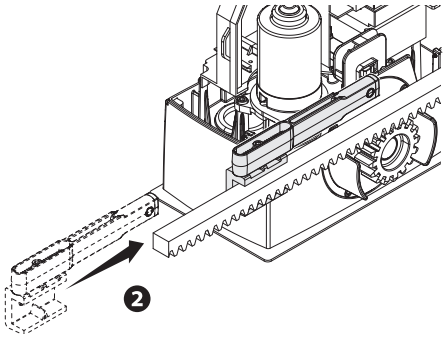
* Only for BXV06AGM BXV10AGM

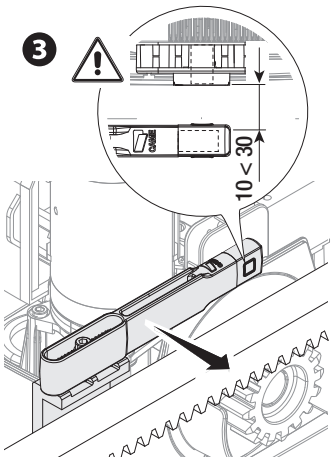
Open the gate.

Insert the magnetic opening limit switch fin on the rack.

The fin magnet must be at a distance between 10 and 30 mm from the magnetic sensor.



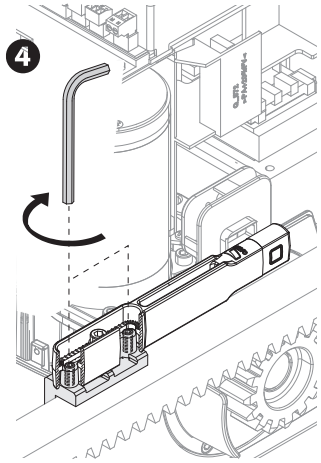


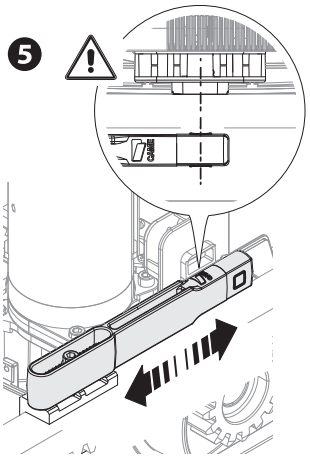


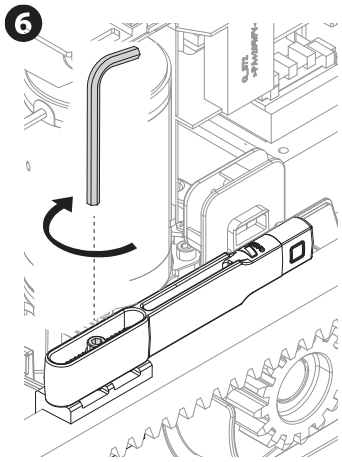
Fasten the support to the rack using the headless screws supplied.

The limit switch magnet must be perpendicular to the magnetic sensor.

Fasten the limit switch fin using the screw (supplied).

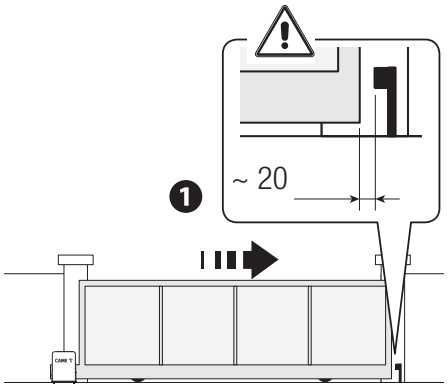


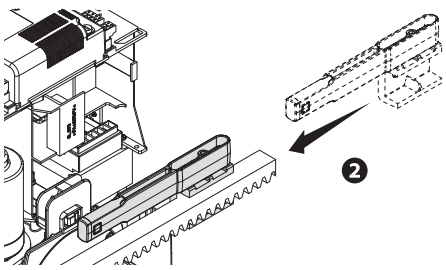


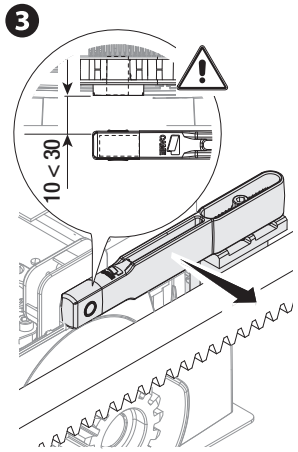


Close the gate.
Insert the magnetic closing limit switch fin on the rack.

The fin magnet must be at a distance between 10 and 30 mm from the magnetic sensor.



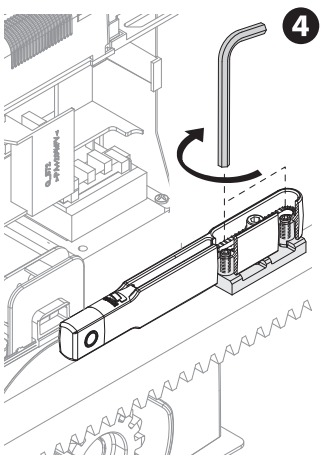


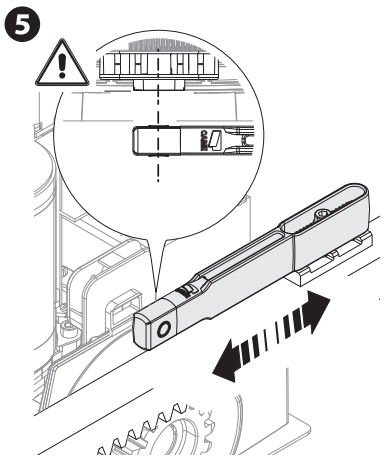


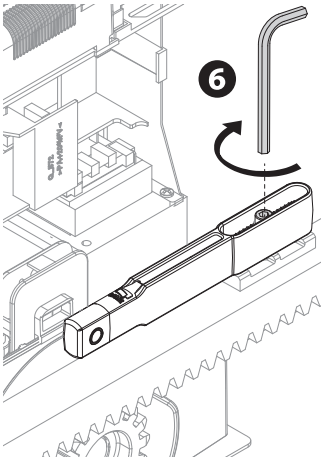
Fasten the support to the rack using the headless screws supplied.

The limit switch magnet must be perpendicular to the magnetic sensor.

Fasten the limit switch fin using the screw (supplied).





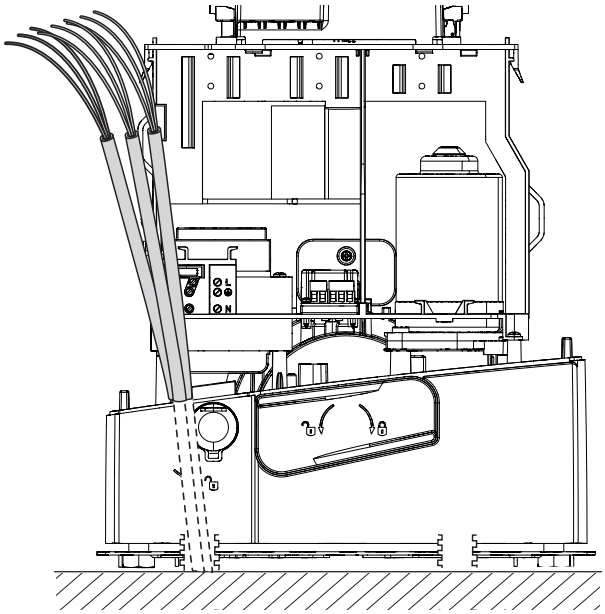


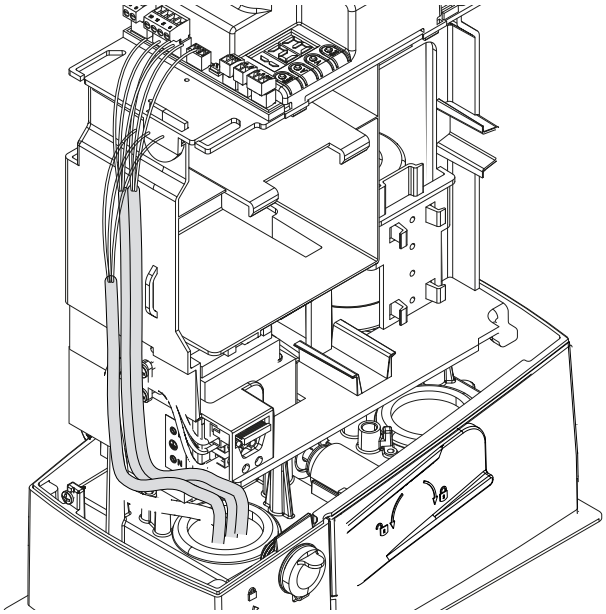
ELECTRICAL WIRING

Electric cables passage

📖 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).



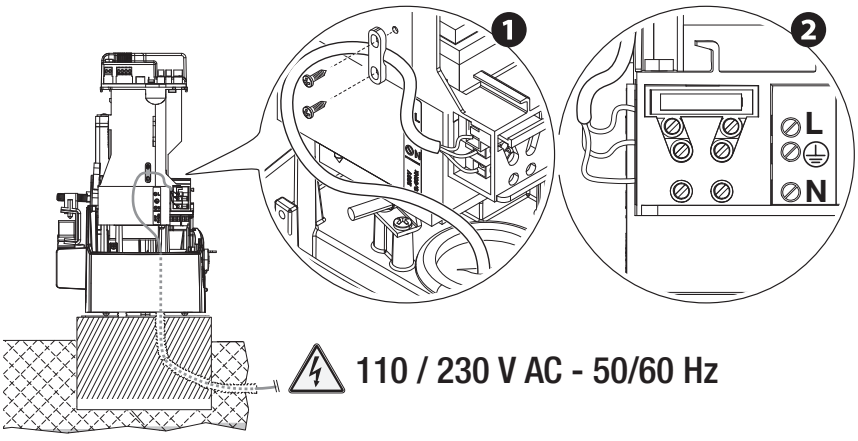


Input voltage

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

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

Connection to the power grid (120/230 V AC - 50/60 Hz)

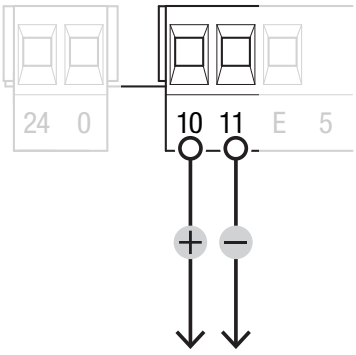


Accessories power supply output

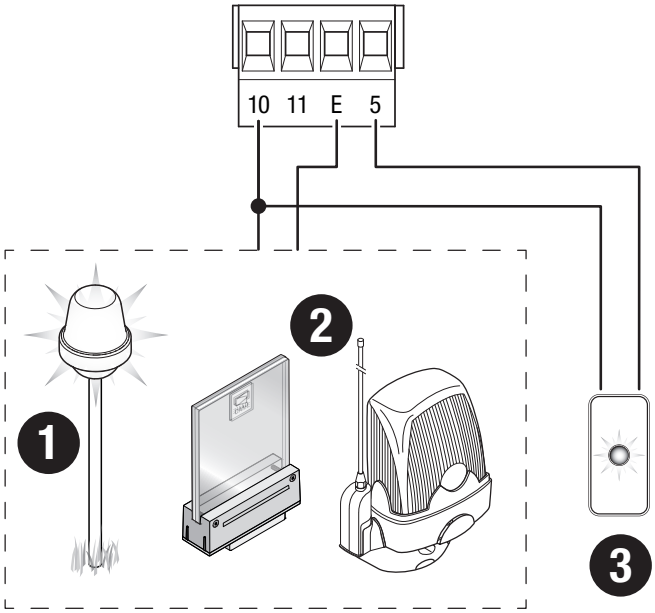
Output delivers normally 24 V AC.

The output delivers 24 V DC when the batteries start operating.

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



Signalling devices



⚠ Maximum contact capacity 10 - 5 24 V AC/DC - 3W

⚠ Maximum contact capacity 10 - E 24 V AC/DC - 25 W

1 - Additional light

Increases the lighting in the manoeuvring area.

2 - Additional flashing light

It flashes during the operator opening and closing phases.

3 - Operator status warning light

It warns of the operator status.

Command and control devices

1 - Antenna with RG58 cable

2 - STOP button (NC contact)

It stops the gate and excludes the automatic closing. Use a control device to resume movement.

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

3 - Control device

OPEN ONLY or PARTIAL OPENING function

It allows complete or partial opening of the gate.

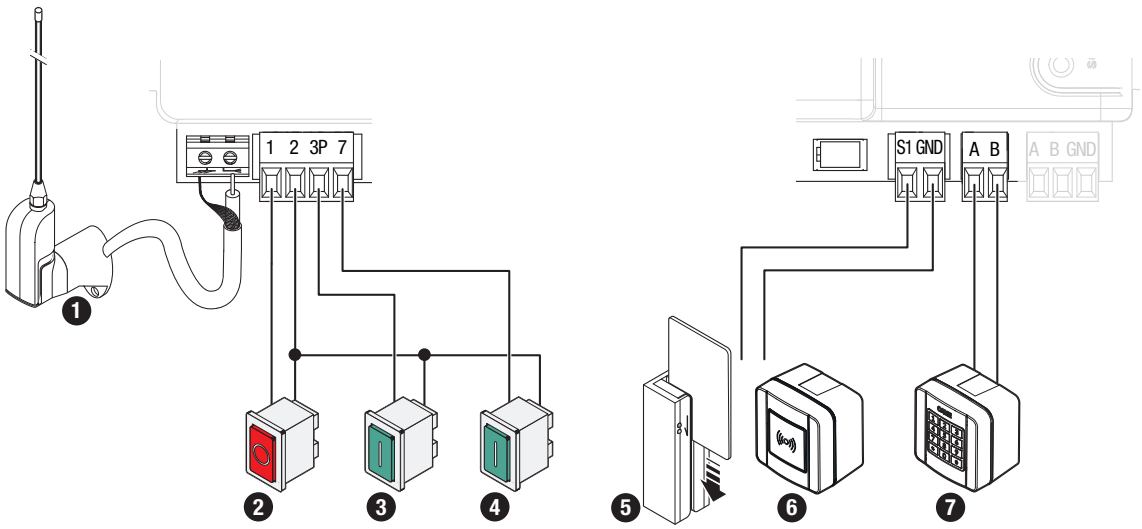
4 - Control device

OPEN-CLOSE (step-step) or OPEN-STOP-CLOSE-STOP (sequential) function

5 - Card reader

6 - Transponder selector switch

7 - Keypad selector



Safety devices

During programming, configure the type of action that must be performed by the device connected to the input.
Connect the safety devices to the CX and/or CY inputs.

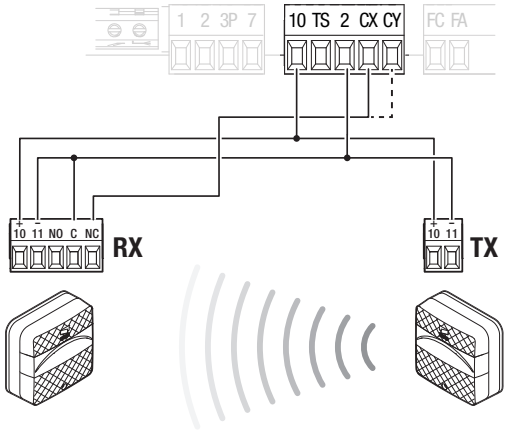
🕮 If contacts CX and CY are not used they must be deactivated during programming.

Photocells

Standard connection

DELTA photocells

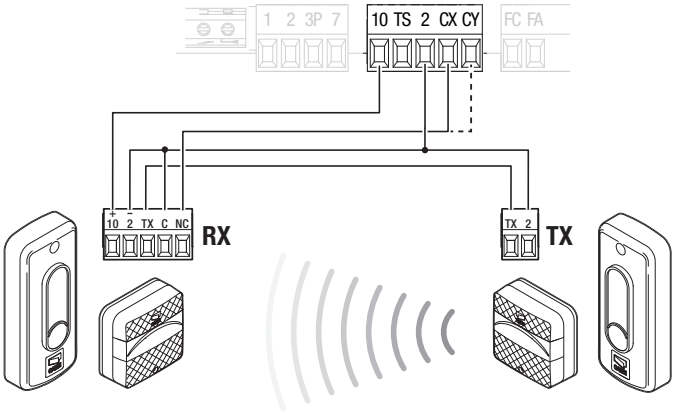
🕮 Only one pair of photocells can be connected.



Standard connection

DIR / DELTA-S photocells

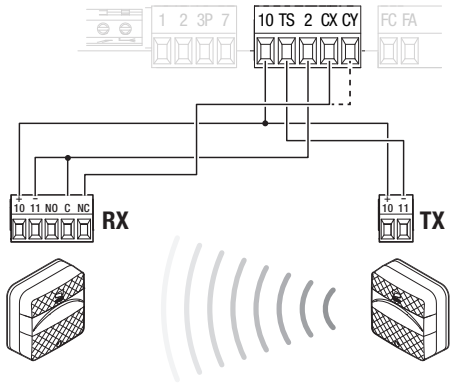
🕮 Multiple photocell pairs can be connected.



Connection with safety test

DELTA photocells

🕮 Only one pair of photocells can be connected.

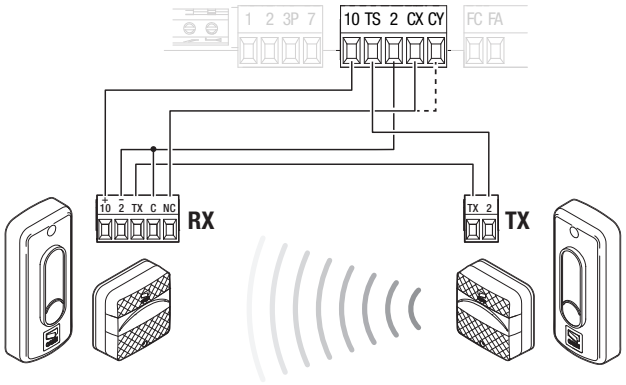


🕮 See function F5, safety devices test.

Connection with safety test

DIR / DELTA-S photocells

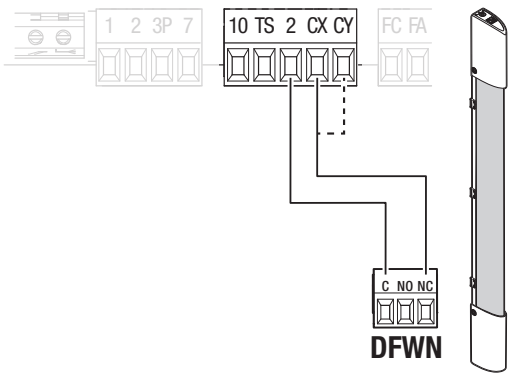
🕮 Multiple photocell pairs can be connected.



🕮 See function F5, safety devices test.

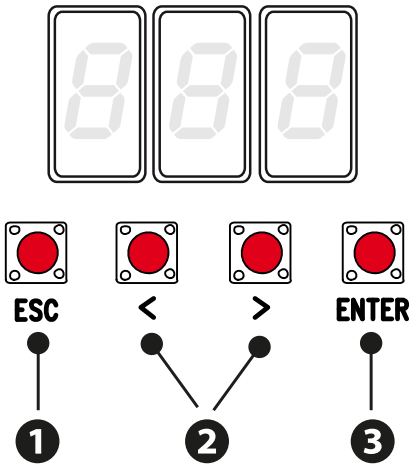
Sensitive safety-edge

Standard connection



PROGRAMMING

Function of the programming buttons



1 - ESC button

It is used to:
Exiting the menu
Delete the changes
Return to the previous screen
Stop the operator, when the operator is in operation mode

2 - < > buttons

For:
Navigate through the menu items
Increasing or decreasing values
Close or open the operator, when the operator is in operation mode

3 - ENTER button

It is used to:
Accessing menus
Confirm the choice

Total stop
It stops the gate and excludes the automatic closing. Use a control device to resume movement.

F1	**Total stop**	OFF (Default) ON

CX input
Associate a function with the CX input.

F2	**CX input**	OFF (Default) C1 = Reopening while closing (Photocells) C2 - Reclosing while opening C3 = Partial stop C4 = Obstruction wait (Photocells) C7 = Reopening while closing (Sensitive safety-edges) C8 = Reclosing while opening (Sensitive safety-edges)

CY input
Associate a function with the CY input.

F3	**CY input**	OFF (Default) C1 = Reopening while closing (Photocells) C2 - Reclosing while opening C3 = Partial stop Only with [Automatic closing] activated. C4 = Obstruction wait (Photocells) C7 = Reopening while closing (sensitive safety-edges) C8 = Reclosing while opening (Sensitive safety-edges)

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

F5	**Safety devices test**	0 =Deactivated (Default) 1 = CX 2 = CY 4 = CX+CY

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	0 =Deactivated (Default) 1 = Activated

Command 2-7
For the association of a command to the connected device on 2-7.

F7	Command 2-7	0 = Step-step (Default) 1 = Sequential 2 = Open 3 = Close

Command 2-3P
It associates a command to the connected device on 2-3P.

F8	Command 2-3P	1 = Partial opening 📖 The partial opening time is set from the function [Partial opening time]. 2 = Open

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

F9	Obstruction with motor stopped	OFF (Default) ON

Open warning light
It signals the gate status.

F10	Open warning light	0 = Warning light on (Default) - The warning light stays on when the gate is moving or open. 1 = Warning light flashing - The warning light flashes every half second when the gate is opening and stays on when the gate is open. The light flashes every second when the gate is closing and is off when the gate is closed.

Encoder
It manages operator slowdowns, obstacles detection and sensitivity.

F11	Encoder	ON (Default) OFF

Soft start
To set a slowdown of a few seconds after each opening and closing command.

F12	Soft start	OFF (Default) ON

Sensor type
Sets the type of control device.

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

Additional light
It allows to choose the operating mode of the lighting device connected to the output.

F18	Additional light	0 = Flashing light (Default) 1 = Cycle light 📖 The light remains off if an automatic closing time is not set.

Cls. Automatic
Sets the time that must pass before the automatic closing is activated, once the opening travel end has been reached.

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

F19	Cls. Automatic	OFF (Default) From 1 to 180 seconds

Automatic closing time after partial opening
Sets the time that must pass before the automatic closing is activated, after a partial opening command has been performed.

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

📖 Do not deactivate the function [Automatic closing].

F20	Automatic closing time after partial opening	OFF From 1 to 180 seconds (10 seconds Default)

Pre-flashing time
Sets the early activation time before each manoeuvre.

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

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

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

Slow-down speed
Sets the slowing down speed during opening and closing (percentage of maximum speed).

📖 This function appears only is the Encoder function is active.

F30	Slow-down speed	From 10% to 50% (Default)

Travel sensitivity
It adjusts the obstruction detection sensitivity during the gate travel.

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

Slow-down sensitivity
Adjusts the obstacles detection sensitivity level during the slowdown phase.

F35	Slow-down sensitivity	from 10% to 100% (Default) - 10% = maximum sensitivity - 100% = minimum sensitivity

Partial open point
Adjusts the operator partial opening (percentage of total travel).

📖 This function appears only is the Encoder function is active.

F36	Partial open point	From 10% (Default) to 80%

Opening slow-down point
Sets the opening slow down start point (percentage of the total travel).

📖 This function appears only is the [Encoder] function is active.

F37	**Opening slow-down point**	From 10% to 60% (25% Default)

Closing slow-down point
Sets the closing slow down start point (percentage of the total travel).

📖 This function appears only is the [Encoder] function is active.

F38	**Closing slow-down point**	From 10% to 60% (25% Default)

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

F49	**RSE**	0 =Deactivated (Default) 1 = Paired 3 = CRP

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

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

F50	**Saving data**	0 =Deactivated (Default) 1 = Activated

Data reading
Loads 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**	0 =Deactivated (Default) 1 = Activated

Transferring MASTER-SLAVE parameters
It enables to share the parameters programmed on the Master gate with the Slave gate.

📖 This function appears only is the [RSE] function is active in combination.

F52	**Transferring MASTER-SLAVE parameters**	OFF (Default) ON

Opening direction
It sets the gate opening direction.

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

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

F56	**CRP address**	from 1 to 255

RSE speed
It is used to set the remote connection system communication speed on the RSE port.

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

RIO ED T1
It is used to associate a function among those available to a wireless safety device.

The function appears only if there is an interface board for wireless devices.

F65	**RIO ED T1**	OFF (Default) P0 P7 P8

RIO PH T1
It is used to associate a function among those available to a wireless safety device.

The function appears only if there is an interface board for wireless devices.

F67	**RIO PH T1**	OFF (Default) P0 P7 P8

RIO PH T1
It is used to associate a function among those available to a wireless safety device.

The function appears only if there is an interface board for wireless devices.

F67	**RIO PH T1**	OFF P1 (Default) P2 P3 P4

RIO PH T2
It is used to associate a function among those available to a wireless safety device.

The function appears only if there is an interface board for wireless devices.

F68	**RIO PH T2**	OFF P1 (Default) P2 P3 P4

Partial opening time
It is used to adjust the gate opening time.

This function only appears if the [Encoder] function is deactivated.

F71	**Partial opening time**	From 5 to 40 seconds

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

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

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

U1	**Add User**	1 = Step-step 2 = Sequential 3 = Open 4 = Partial opening 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
Removes one of the registered users.

U2	**Remove user**	OFF ON 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. The Clr wording will appear to confirm the deletion.

Remove all
Removes all registered users.

U3	**Remove all**	0 =Deactivated (Default) 1 = Deletion

Radio-frequency decoding
For choosing the type of radio coding of the transmitters enabled to control the automation.

📖 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 = TWIN

Motor type
It is used to set the type of gearmotor installed.

A1	**Motor type**	1 = 400 kg 2 = 600 kg 3 = 800 kg 4 = 1000 kg

Travel calibration
Starts the travel self-learning.

A3	**Travel calibration**	OFF ON

Parameters reset
The default settings are restored and the travel calibration is deleted.

A4	**Parameters reset**	OFF (Default) ON

Manoeuvres counter
For viewing the number of maneuvers made by the operator.

A5	**Manoeuvres counter**	001 = 100 maneuvers 010 = 1000 maneuvers 100 = 10000 maneuvers 999 = 99900 maneuvers CSI = maintenance job

Adjusting the motor torque
Adjust the motor torque.

A6	**Adjusting the motor torque**	From 1 (minimum) to 5 (maximum)

FW version
Displays the number of the firmware version and GUI installed.

H1	**FW version**	

Getting started

📖 Once the electrical connections have been completed, proceed with commissioning. Only skilled and qualified staff may perform this operation.
Make sure that the way is clear from any obstruction.
Power up and begin programming.
Start programming with the following functions: F54 (Opening direction) and F1 (Total Stop).
📖 After powering up the system, the first maneuver is always the opening; wait for the maneuver to be completed.
📖 Immediately press the STOP button if any suspicious malfunctions, noises or vibrations occur in the system.
At the end of commissioning, check the correct operation of the device using the buttons near the display. Check that the accessories also work correctly.

Export / import data

It is possible to save user data and system configuration in a MEMORY ROLL card.
The stored data can be reused in another electronic board to configure another system in the same way.

⚠ Before fitting and removing the MEMORY ROLL card, you MUST CUT OFF THE MAINS POWER SUPPLY.

1 - Fit the MEMORY ROLL card into the corresponding connector on the control board.
2 - Press the Enter button to access the programming.
3 - Use the arrows to choose the desired function.

🕮 The functions are displayed only when a MEMORY ROLL card is inserted.

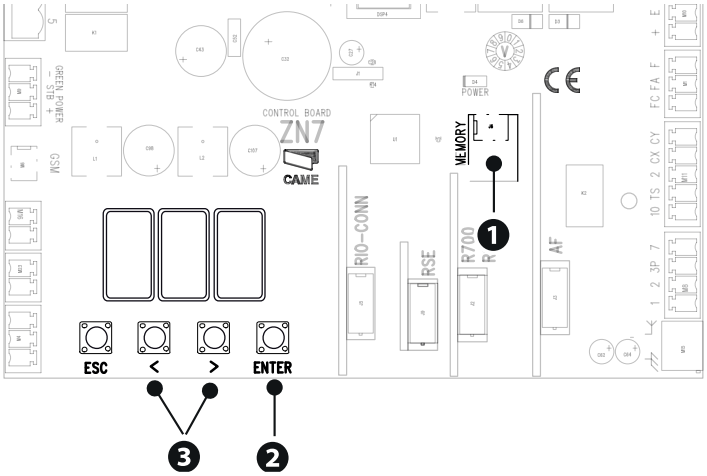
- Saving data

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

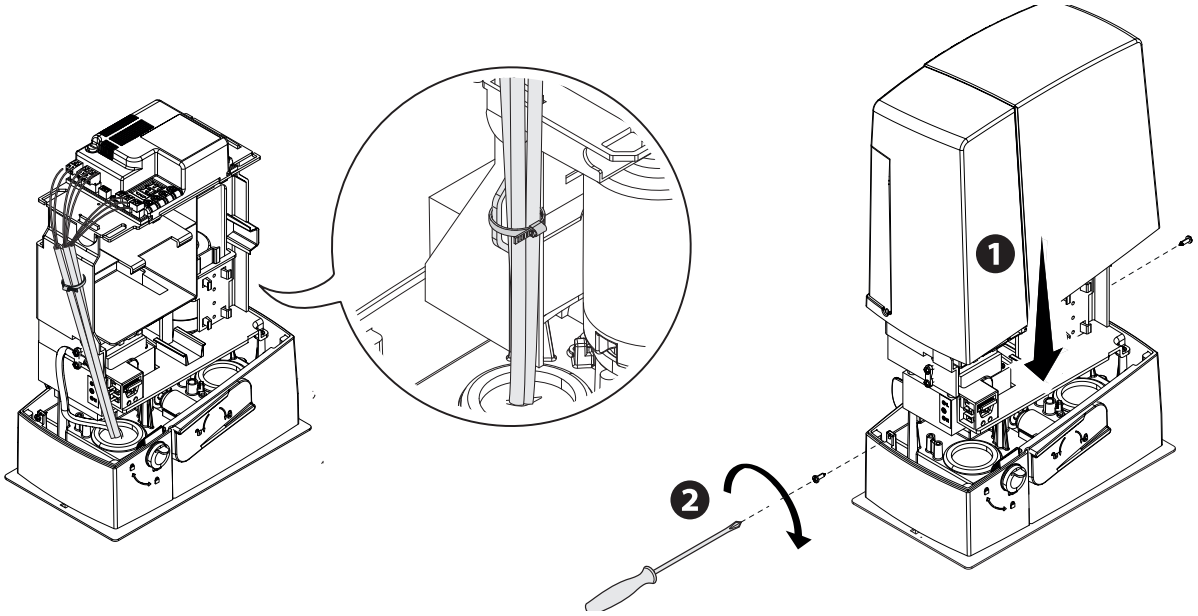
- Data reading

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

🕮 When the data saving and loading operations have been completed, remove the MEMORY ROLL card.



FINAL OPERATIONS



ERROR MESSAGES

E1	Calibration error
E2	Adjustment error
E3	Encoder failure error
E4	Services test failure error
E7	Operating time error
E9	Obstacle detected during closing
E10	Obstacle detected during opening
E11	Exceeded the maximum number of obstructions consecutively detected
E13	The limit switches are both open
E14	Serial communication error
E15	Incompatible transmitter error
E17	Wireless system not communication error
E18	Wireless system not configured error

PAIRED OPERATION

Single command of two connected operators.

Electrical wiring

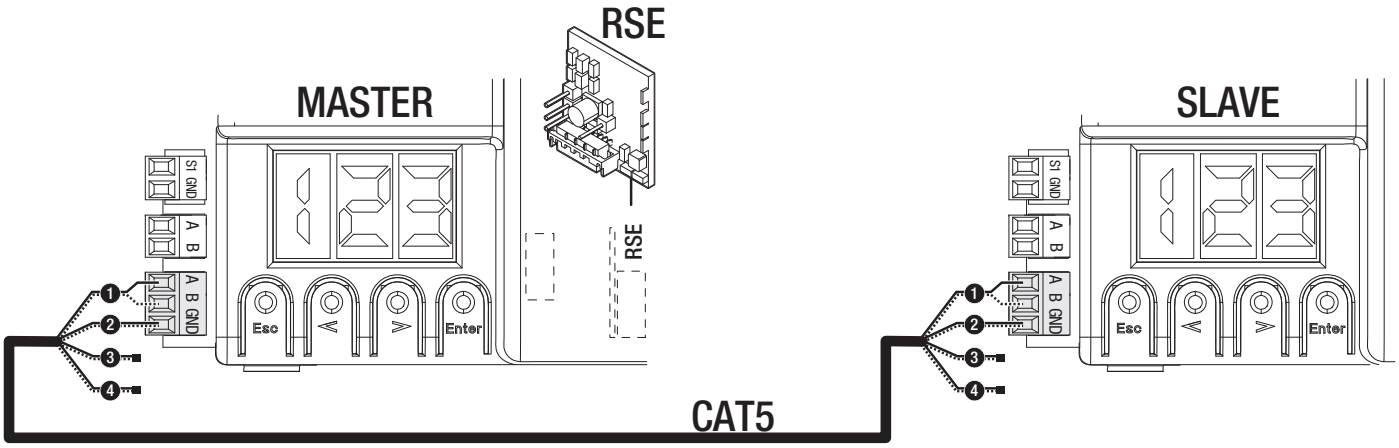
Connect the two electronic boards with a CAT 5 cable.

Fit a RSE card into both control boards.

Proceed with the electrical connection of the devices and accessories.

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

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



Programming

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

Start programming with the following functions:

F49 RSE

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

F54 Opening direction

It sets the gate opening direction.

F52 Transferring MASTER-SLAVE parameters

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

Saving users

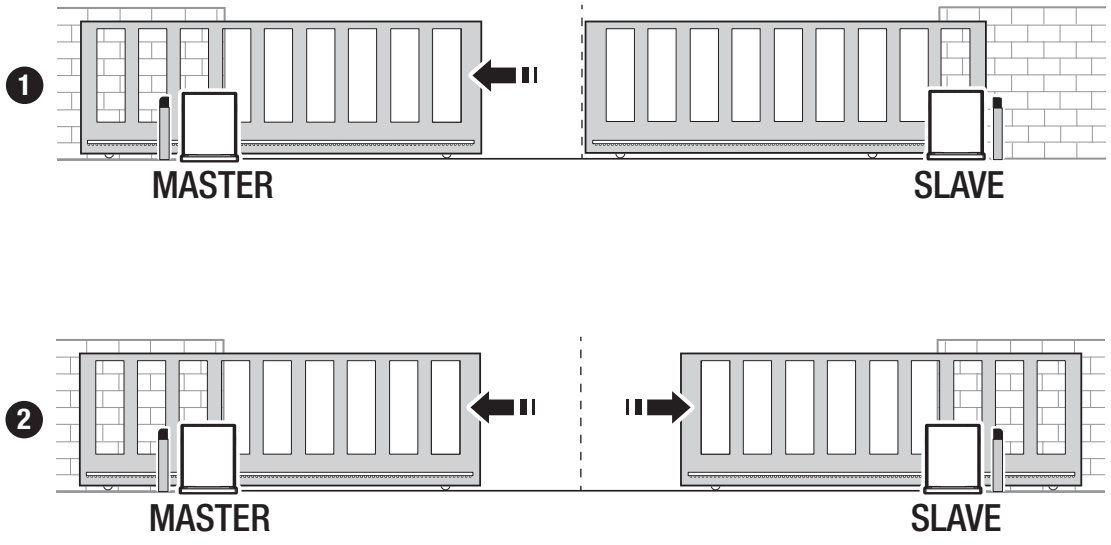
📖 All user storage operations must be performed only on the control board set as MASTER.

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

Operating modes

1 - PARTIAL OPENING command

2 - STEP-STEP command



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BXV04AGS ; BXV06AGS ; BXV08AGS
BXV10AGS ; BXV04RGS ; BXV06RGS
BXV08RGS ; BXV10RGS ; BXV04AGM
BXV06AGM ; BXV10AGM ; BXV04ALS
BXV06ALS ; BXV08ALS ; BXV10ALS

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EN 61000-6-2:2005
EN 61000-6-3:2007+A1:2011
EN 62233:2008
EN 60335-1:2012+A11:2014
EN 60335-2-103:2015

RISPETTANO I REQUISITI ESSENZIALI APPLICATI: / MEET THE APPLICABLE ESSENTIAL REQUIREMENTS: / DEN WESENTLICHEN ANGEWANDTEN ANFORDERUNGEN ENTSPRECHEN: / RESPECTENT LES CONDITIONS REQUISES NECESSAIRES APPLIQUEES: / CUMPLEN CON LOS REQUISITOS ESENCIALES APLICADOS: / RESPEITAM O REQUISITOS ESSENCIAIS APLICADOS: / SPEŁNIAJA PODSTAWOWE WYMAGANE WYRUNKI: / VOLDOEN AAN DE TOEPASBARE MINIMUM EISEN:

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

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la messa in servizio finchè la macchina finale in cui deve essere incorporata non è stata dichiarata conforme, se del caso alla 2006/42/CE. / commissioning of the above mentioned until such moment when the final machine into which they must be incorporated, has been declared compliant, if pertinent, to 2006/42/CE / die Inbetriebnahme bevor die „Endmaschine" in die die unvollständige Maschine eingebaut wird, als konform erklärt wurde, gegebenenfalls gemäß der Richtlinie 2006/42/EU. / la mise en service tant que la machine finale dans laquelle elle doit être incorporée n'a pas été déclarée conforme, le cas échéant, à la norme 2006/42/CE. / la puesta en servicio hasta que la máquina final en la que será incorporada no haya sido declarada de conformidad de acuerdo a la 2006/42/CE / a colocação em funcionamento, até que a máquina final, onde devem ser incorporadas, não for declarada em conformidade, se de acordo com a 2006/42/CE. / Uruchomienia urzadzenia do czasu, kiedy maszyna, do której ma byc wbudowany, nie zostanie oceniona jako zgodna z wymogami dyrektywy 2006/42/WE, jesli taka procedura byla konieczna. / deze in werking te stellen zolang de eindmachine waarin de niet voltoolde machine moet worden ingebouwd in overeenstemming is verklaard, indien toepasselijk met de richtlijn 2006/42/EG.

Dosson di Casier (TV)
21 Novembre / November / November / Novembre / Noviembre / Novembro / Listopad / November 2018

Amministratore Delegato / Managing Director / General Direktor / Directeur Général / Director General / Administrador Delegado / Dyrektor Zarzadzajacy / Algemeen Directeur

Andrea Menuzzo

Fascicolo tecnico a supporto / Supporting technical dossier / Unterstützung technische Dossier / soutenir dossier technique / apoyo expediente técnico / apoiar dossier técnico / wspieranie dokumentacji technicznej / ondersteunende technische dossier: 801MS-0150

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DISPOSING OF THE PACKAGING

The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling.
Always make sure you comply with local laws before dismantling and disposing of the product.
DISPOSE OF RESPONSIBLY!

DISPOSING OF THE PRODUCT

Our products are made of various materials. Most of these (aluminium, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants.
Whereas other components (control boards, batteries, transmitters, and so on) may contain hazardous pollutants.
These must therefore be disposed of by authorized, certified professional services.
Before disposing, it is always advisable to check with the specific laws that apply in your area.
DISPOSE OF RESPONSIBLY!

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