

## Gearmotor for swing gates

FA01337-EN

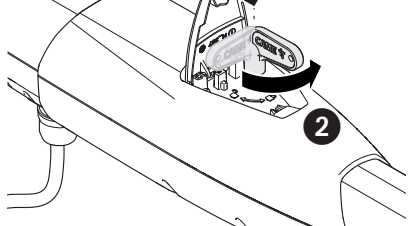
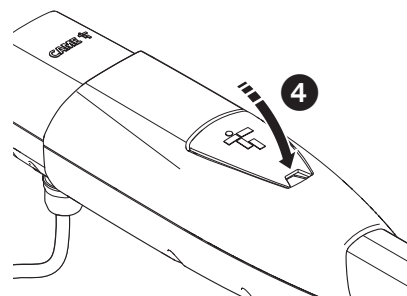
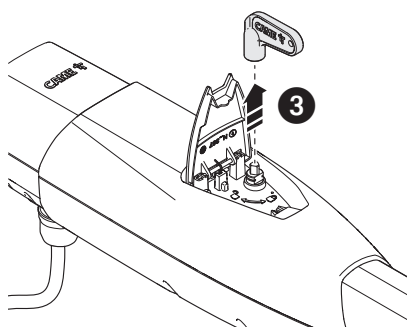
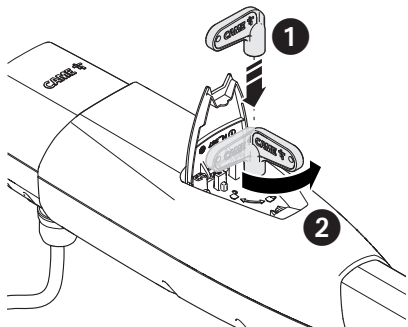
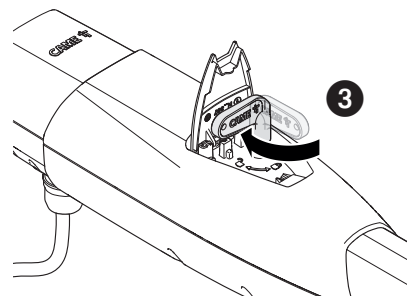
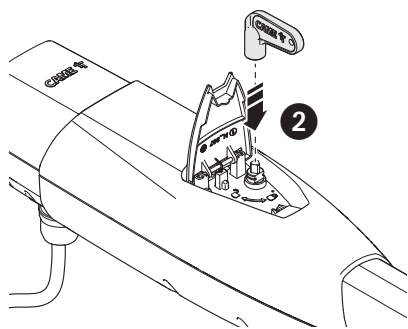
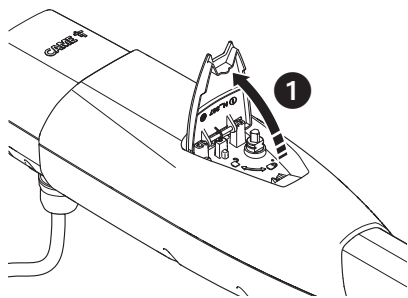


**ATS30AGS**  
**ATS30AGR**

**ATS50AGS**  
**ATS50AGR**

INSTALLATION MANUAL

EN English

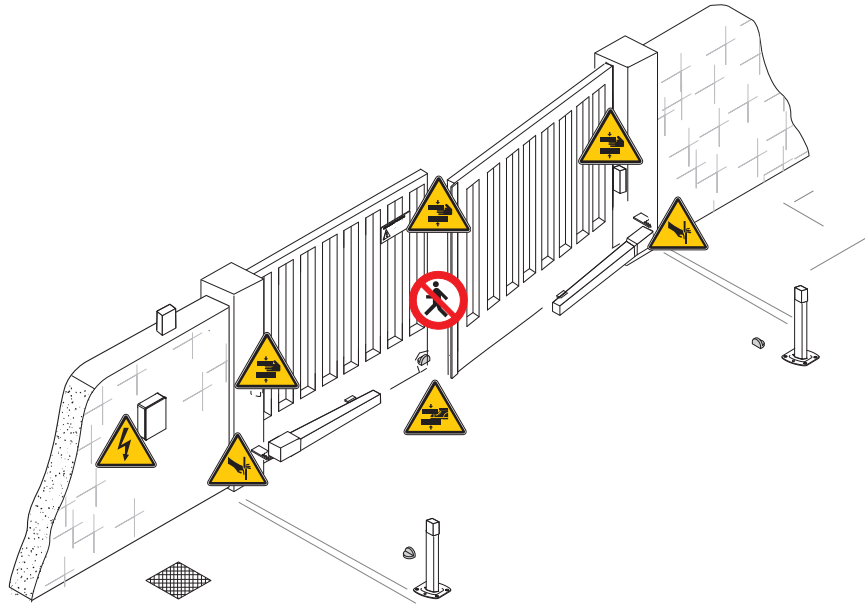


**⚠ Important safety instructions.**


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

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


Only use this product for its intended purpose. Any other use is hazardous. • The manufacturer cannot be held liable for any damage caused by improper, unreasonable or erroneous use. • This product is defined by the Machinery Directive (2006/42/EC) as partly completed machinery. • Partly completed machinery means an assembly which is almost machinery but which cannot in itself perform a specific application. • Partly completed machinery is only intended to be incorporated into or assembled with other machinery or other partly completed machinery or equipment thereby forming machinery to which the Machinery Directive (2006/42/EC) applies. • The final installation must comply with the Machinery Directive (2006/42/EC) and the European reference standards in force. • The manufacturer declines any liability for using non-original products, which would also void the warranty. • All operations indicated in this manual must be carried out exclusively by skilled and qualified personnel and in full compliance with the regulations in force. • The device must be installed, wired, connected and tested according to good professional practice, in compliance with the standards and laws in force. • All the components (e.g. actuators, photocells and sensitive edges) needed for the final installation to comply with the Machinery Directive (2006/42/EC) and with the reference harmonised technical standards are specified in the general CAME product catalogue or on the website [www.came.com](http://www.came.com). • 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 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. • All fixed controls must be clearly visible after installation, in a position that allows the guided part to be directly visible, but far away from moving parts. In the case of a hold-to-run control, this must be installed at a minimum height of 1.5 m from the ground and must not be accessible to the public. • If 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.



 No transiting while the barrier is moving.


 Risk of entrapment.

 Risk of trapping hands.

 Risk of trapping feet.

 Risk of hand cut.

## 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





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-  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.

## PRODUCT DATA AND INFORMATION

### Key

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### Description

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#### 801MP-0050

ATS30AGS - Irreversible telescopic gearmotor 230 V for swing gates with Max. C 200 mm with leaf up to 3 m and 400 kg. Grey RAL7024.

#### 801MP-0060

ATS50AGS - Irreversible telescopic gearmotor 230 V for swing gates with Max. C 200 mm with leaf up to 5 m and 400 kg. Grey RAL7024.

#### 801MP-0090

ATS30AGR - Irreversible telescopic gearmotor 230 V for swing gates with Max. C 200 mm, with remote release, for leaves up to 3 m and 400 kg. Grey RAL7024.


#### 801MP-0100

ATS50AGR - Irreversible telescopic gearmotor 230 V for swing gates with Max. C 200 mm, with remote release, for leaves up to 5 m and 400 kg. Grey RAL7024.

### Intended use

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Solutions for applications in residential buildings and apartment blocks

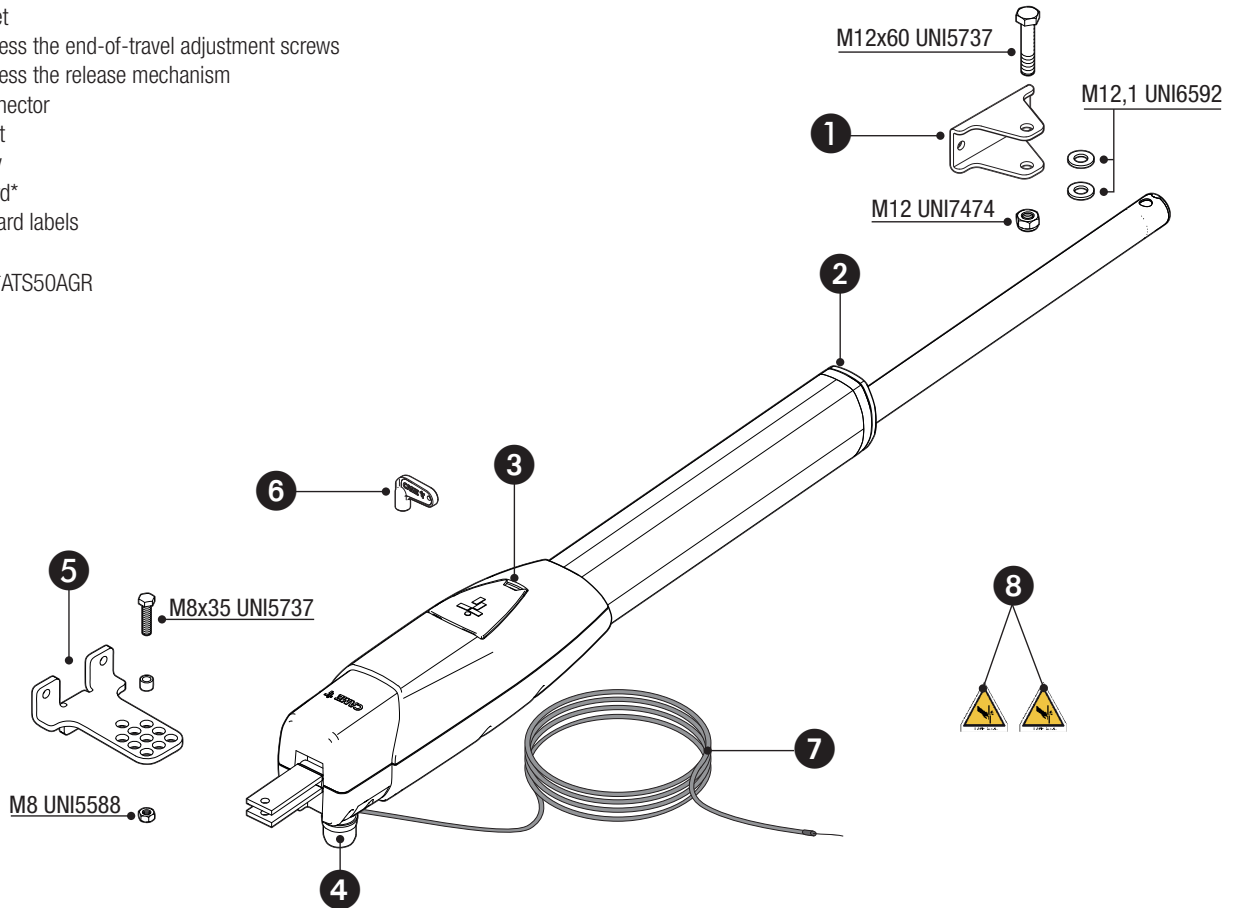
-  Any installation and/or use other than that specified in this manual is forbidden.

## Description of parts

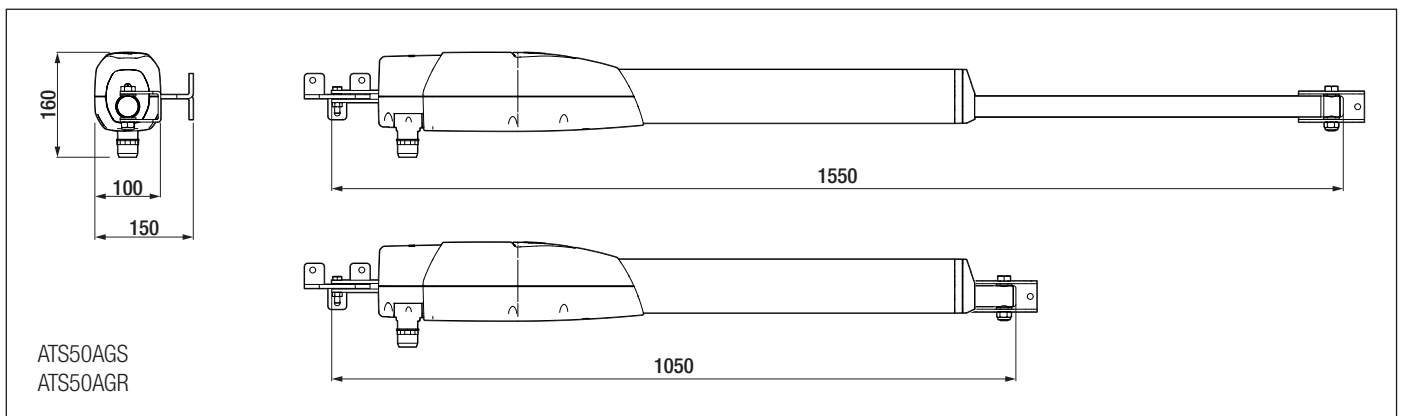
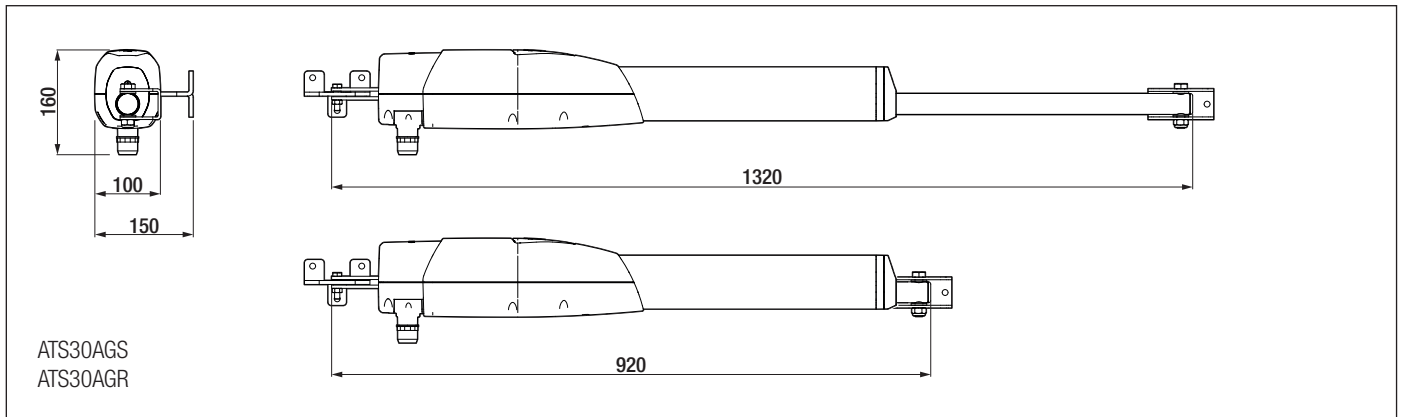
### Gearmotor

- ❶ Gate bracket
- ❷ Door to access the end-of-travel adjustment screws
- ❸ Door to access the release mechanism
- ❹ Sheath connector
- ❺ Post bracket
- ❻ Release key
- ❼ Release cord\*
- ❽ Cutting hazard labels

\*ATS30AGR \*ATS50AGR



### Size



## Usage limitations

MODELS	ATS30AGS					ATS50AGS			
	3	2,5	2	-	5	4	3	2,5	2
Gate-leaf length (m)	3	2,5	2	-	5	4	3	2,5	2
Gate-leaf weight (Kg)	400	600	800	-	400	500	600	800	1000

MODELS	ATS30AGR					ATS50AGR			
	3	2,5	2	-	5	4	3	2,5	2
Gate-leaf length (m)	3	2,5	2	-	5	4	3	2,5	2
Gate-leaf weight (Kg)	400	600	800	-	400	500	600	800	1000

⚠ For leaves longer than 2.5 m, install an electric lock.

## Technical data

MODELS	ATS30AGS	ATS50AGS	ATS30AGR	ATS50AGR
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC
Motor power supply (V)	230 AC	230 AC	230 AC	230 AC
Power (W)	250	250	250	250
Capacitor (µF)	8	8	8	8
Current draw (mA)	1	1	1	1
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Thrust (N)	400 ÷ 3000	400 ÷ 3000	400 ÷ 3000	400 ÷ 3000
Opening time at 90° (s)	20	20	20	20
Motor thermal protection (°C)	150	150	150	150
Sound pressure level (dB A)	≤70	≤70	≤70	≤70
Protection rating (IP)	54	54	54	54
Insulation class	I	I	I	I
Reduction ratio (i)	28	28	28	28
Weight (kg)	8.5	9	8.5	9

## Operating cycles

MODELS	ATS30AGS	ATS50AGS	ATS30AGR	ATS50AGR
Cycles/hour (no.)	20	20	20	20
Consecutive cycles (no.)	10	10	10	10

📖 The cycles calculation applies to gates that are professionally installed, free of any mechanical issues and/or accidental friction points, and measured at 20°C, as stated in EN Standard 60335-2-103.

## 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>
Motor power supply 230 V AC	4G x 1.5 mm <sup>2</sup>	4G x 2.5 mm <sup>2</sup>

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

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

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

## INSTALLATION

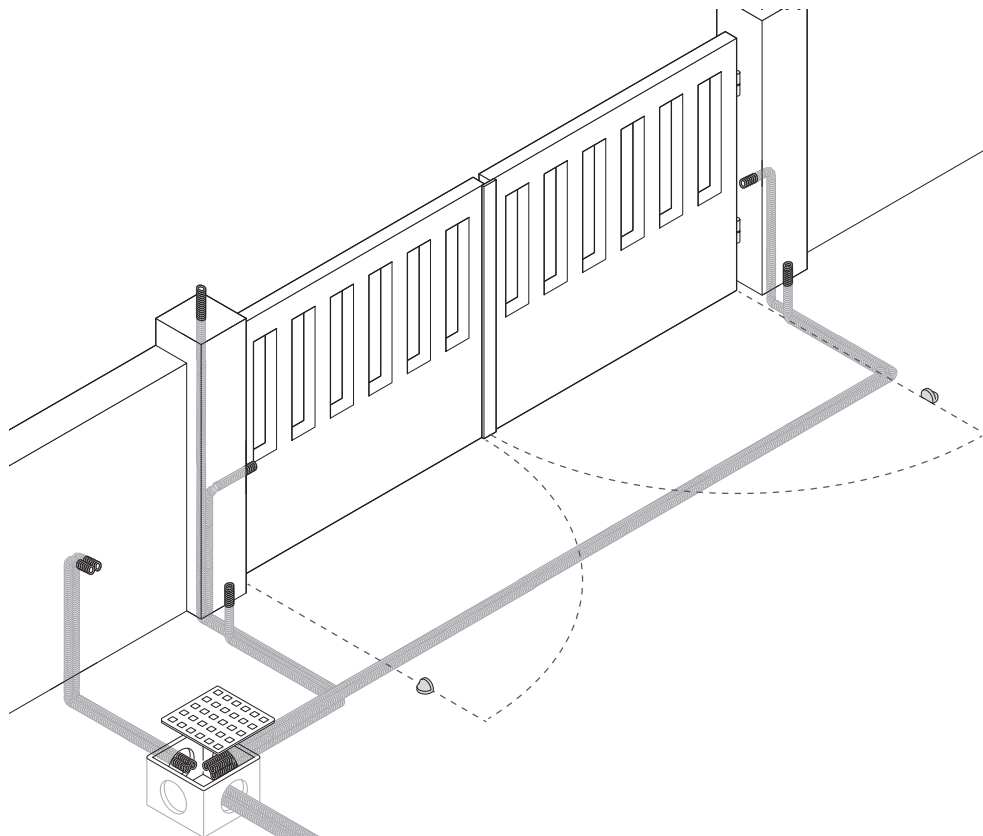
 The following illustrations are examples only. The space available for fitting the operator and accessories varies depending on the area where it is installed. It is up to the installer to find the most suitable solution.

 The drawings refer to a gearmotor installed on the left-hand side.

### Preliminary operations

Prepare the junction boxes and corrugated tubes you need for the connections from the junction pit.

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





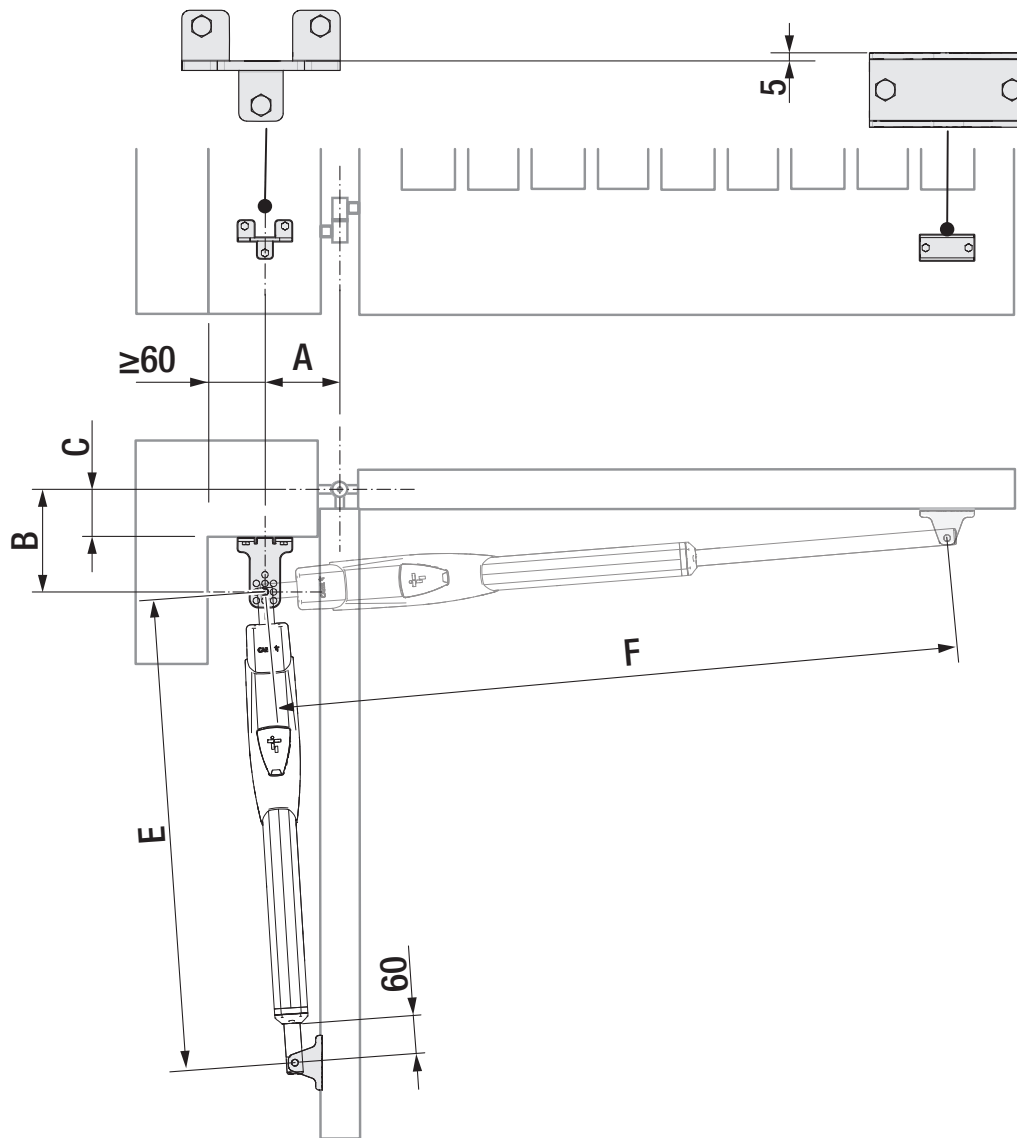
## Establishing the bracket fastening points

⚠ Install with the gate open.

Manually open the gate leaf to 90° or 120°.

First determine where the gate bracket needs to be positioned, then where the post bracket needs to be positioned.

📖 Respect the values indicated in the table.



### ATS30AGS      ATS30AGR

Gate-leaf opening (°)	A	B	E	F	Max. C
90°	130	130	910	1170	50
90°	150	220	910	1290	150
90°	120	270	890	1300	200
120°	180	130	910	1300	50


### ATS50AGS      ATS50AGR

Gate-leaf opening (°)	A	B	E	F	Max. C
90°	200	200	1030	1430	150
90°	200	270	1030	1510	200
120°	200	140	1030	1460	70

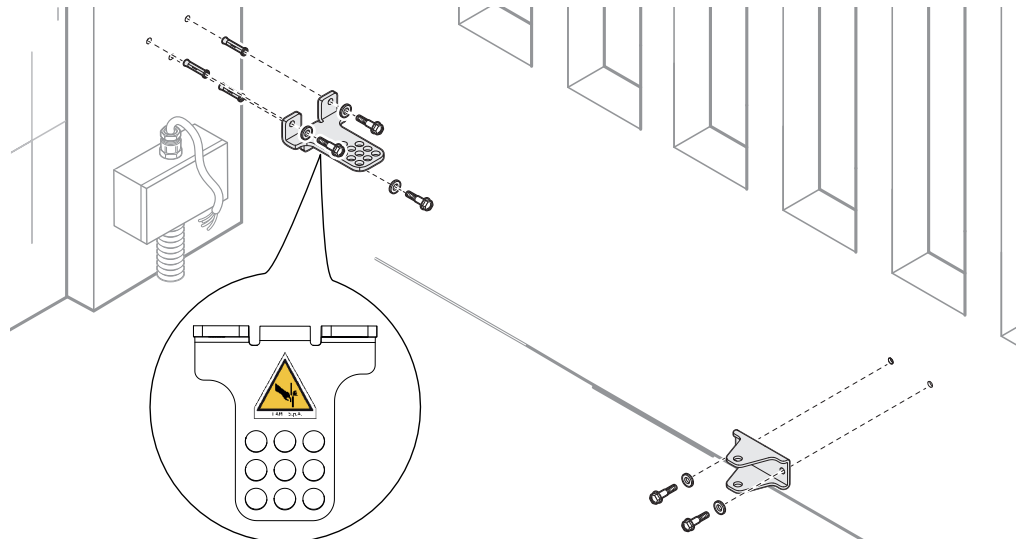
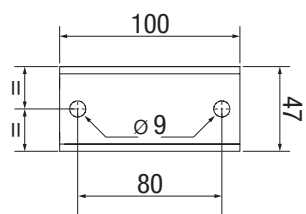
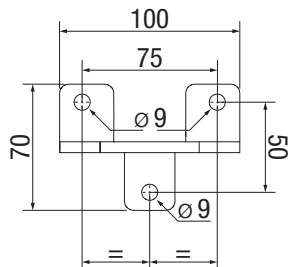
## Fastening the brackets

Secure the post bracket with plugs and screws.


 If the post is made of metal, the post bracket must be welded to it.

 The holes on the bracket fixing plate allow you to vary the opening angle of the gate leaf.

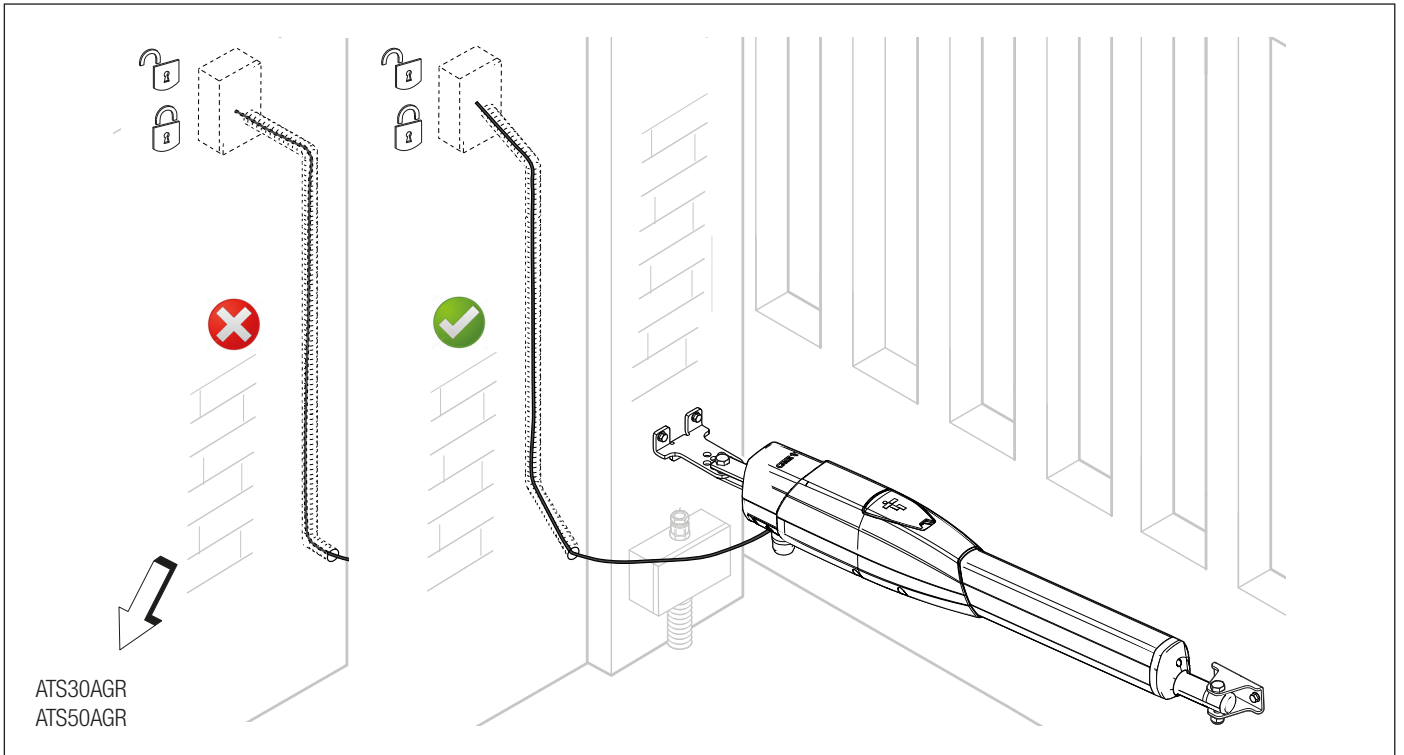
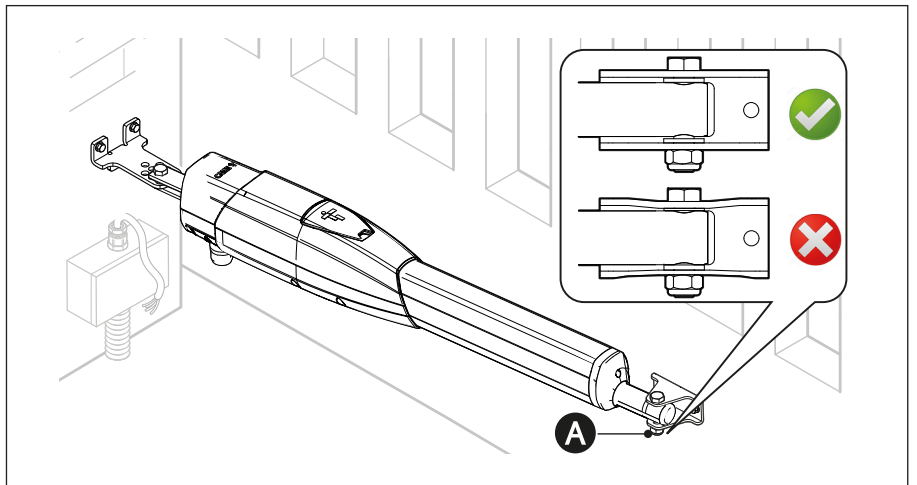
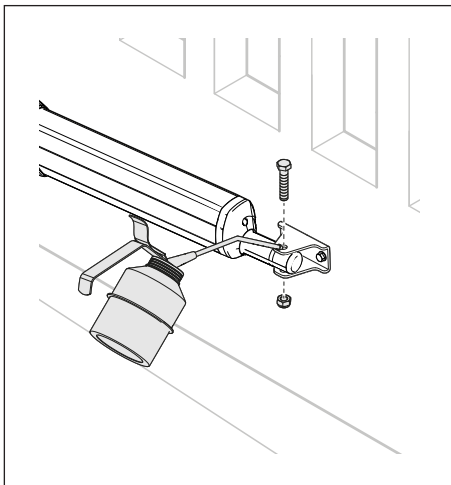
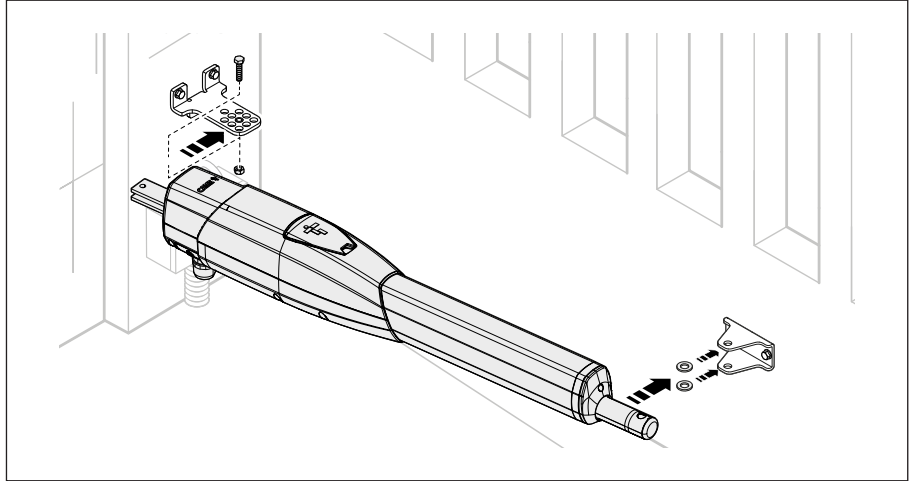
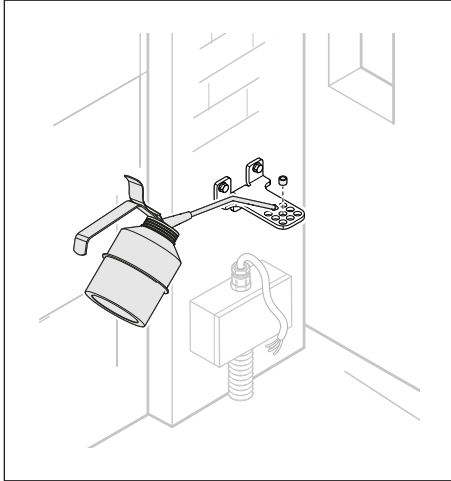
Fasten in place with screws or weld the bracket to the gate.



## Fastening the gearmotor

 Lubricate all moving parts on the operator.

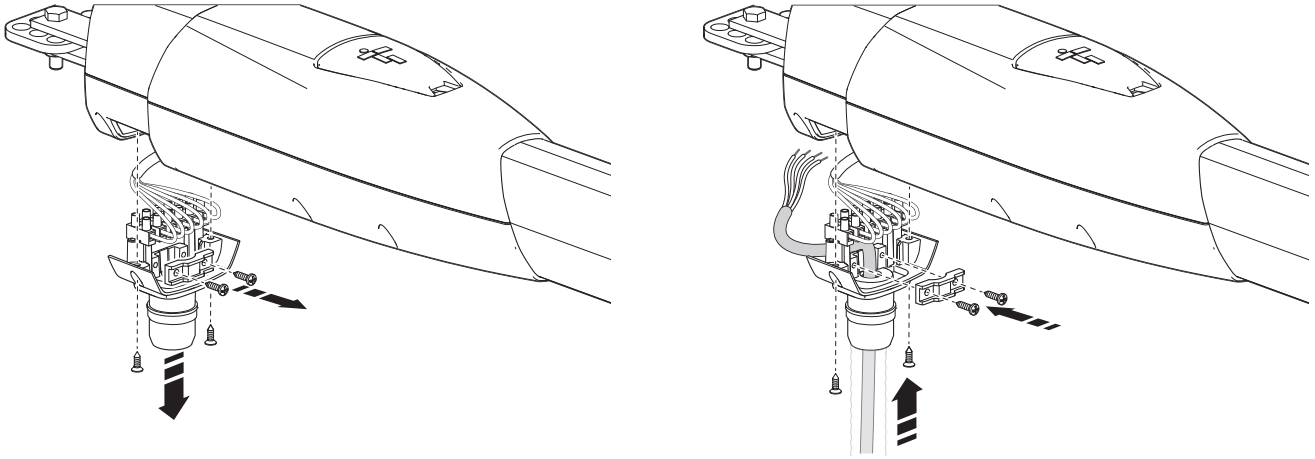
**A** The self-locking nut must be loosely tightened so as not to affect the movement of the telescopic arm with the gate bracket.



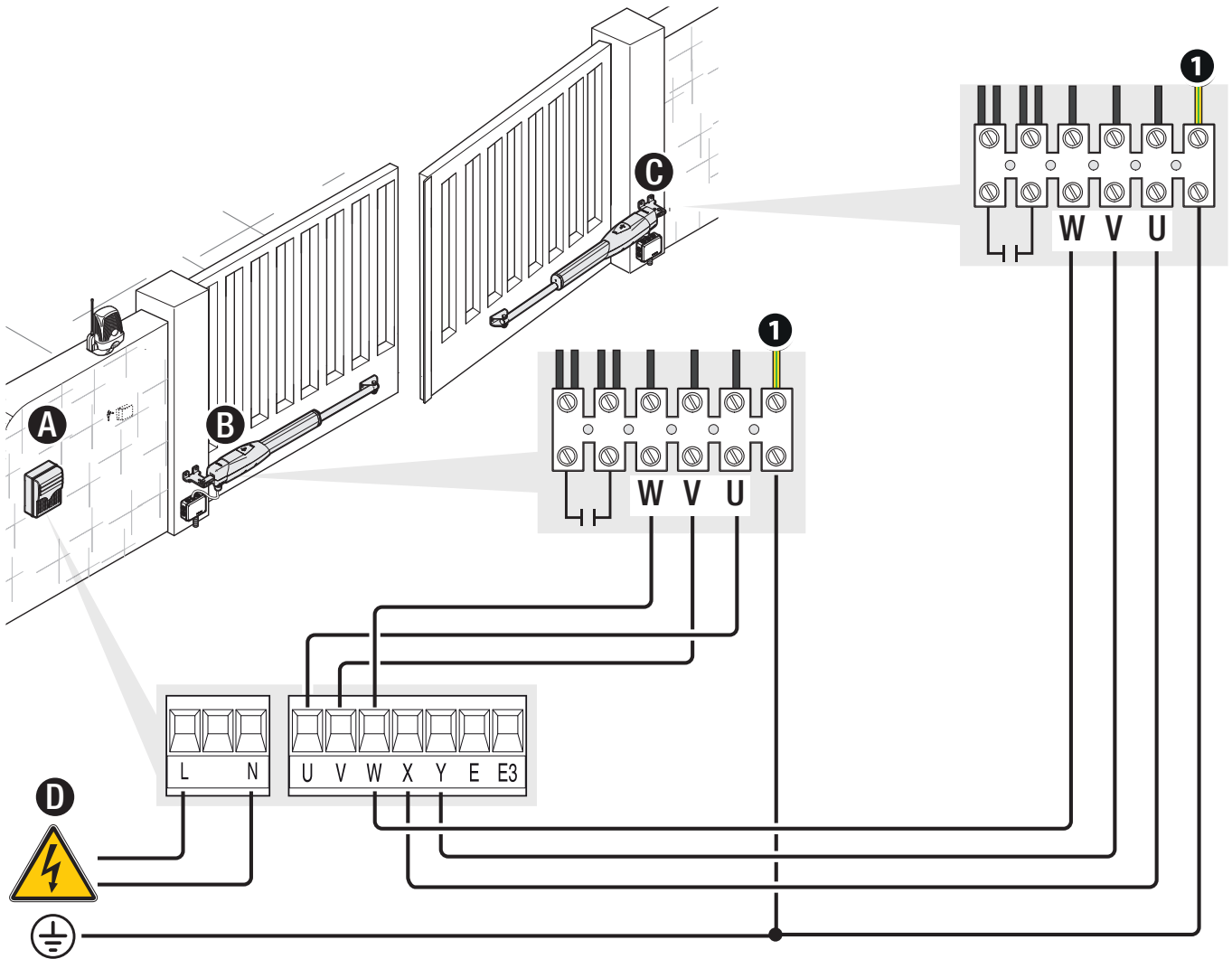
## ELECTRICAL CONNECTIONS

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

📖 Remove the protective cover to access the terminal board.

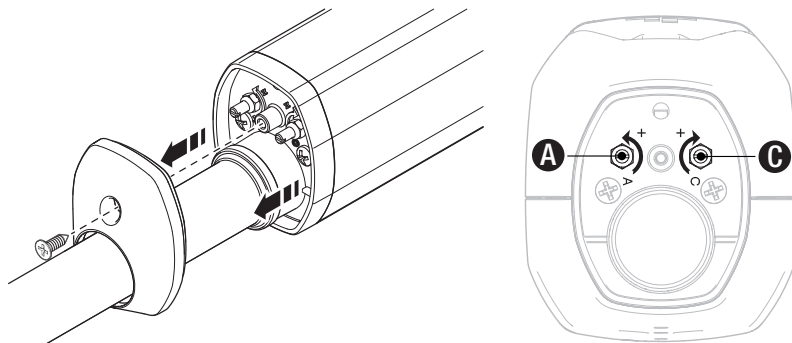


- A** Control panel
- B** Gearmotor delayed while opening
- C** Gearmotor delayed while closing
- D** 230 V AC - 50-60 HZ power supply input
- 1** Yellow/green cable



## Determining the end-of-travel points with micro limit switches

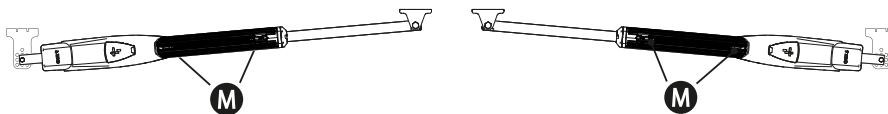
- A** Rod for determining the opening end-of-travel point
- C** Rod for determining the closing end-of-travel point



### **M** Micro limit switches

The micro switches are positioned at the far ends of the travel range.

To move the microswitch 10 mm in either direction, turn the rod 20 times.



## Determining the opening end-of-travel points

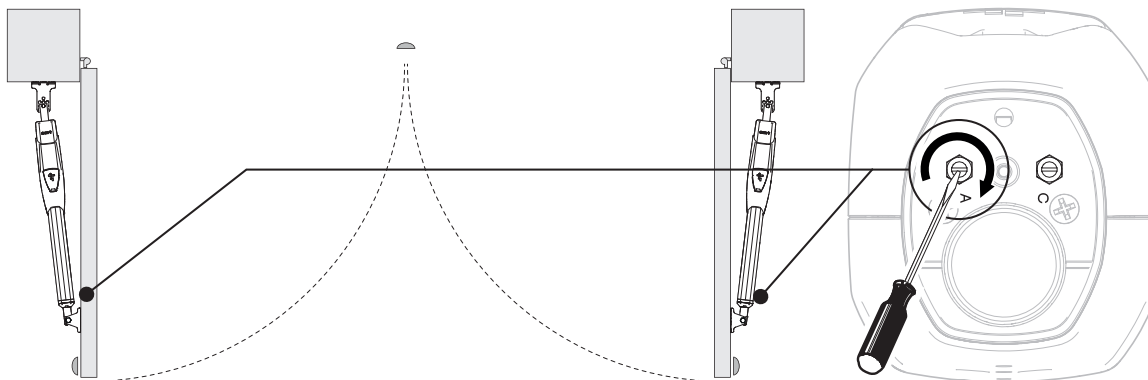
Release the gearmotor.

Open the gate manually.

Send an opening command.

At the same time, turn the rod for determining the opening end-of-travel point **CLOCKWISE** until the gearmotor stops.

Leave the rod nut loose to determine the end-of-travel points.



## Determining the closing end-of-travel points

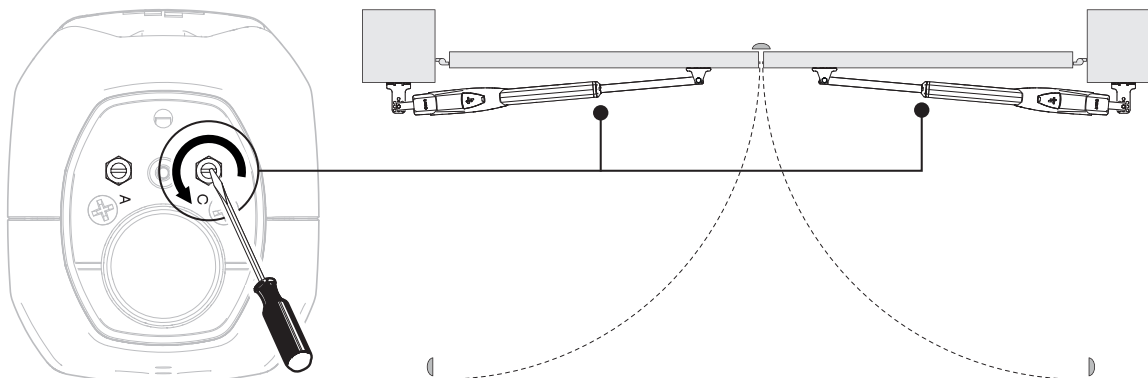
Release the gearmotor.

Close the gate manually.

Send a closing command.

At the same time, turn the rod for determining the closing end-of-travel point **ANTICLOCKWISE** until the gearmotor stops.

Leave the rod nut loose to determine the end-of-travel points.




## OUTWARDS OPENING

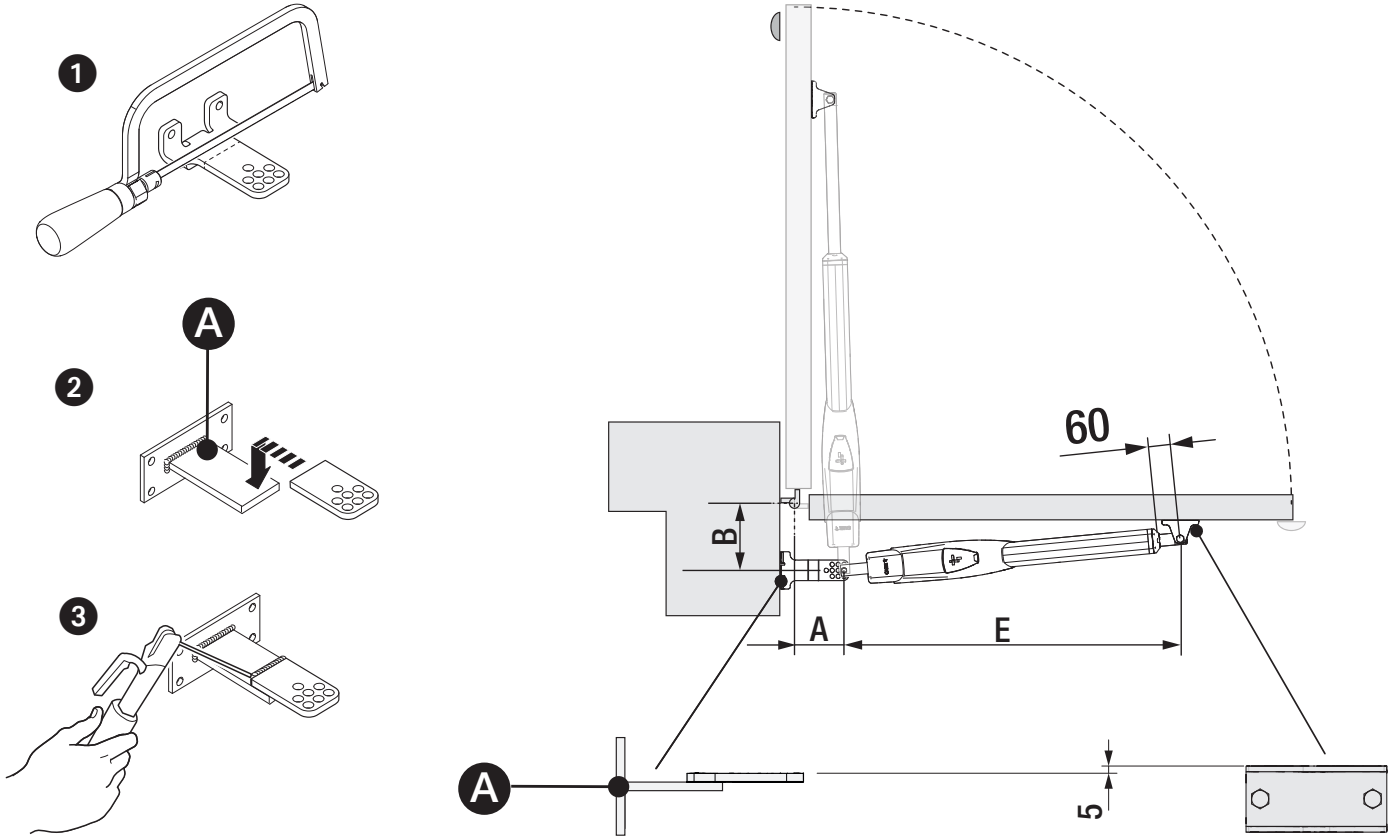
### Establishing the bracket fastening points

Close the gate manually.

First determine where the gate bracket needs to be positioned, then where the post bracket needs to be positioned.

 Respect the values indicated in the table.

**A** Additional bracket (not included)



**ATS30AGS**      **ATS30AGR**

Gate-leaf opening (°)	A	B	E
90°	150	150	910

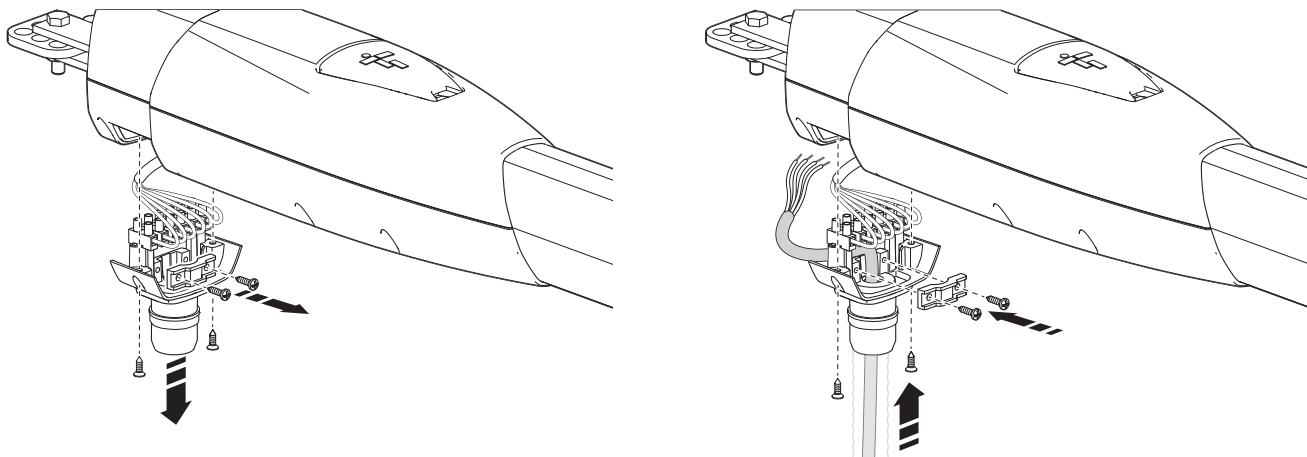
**ATS50AGS**      **ATS50AGR**

Gate-leaf opening (°)	A	B	E
90°	200	200	1030

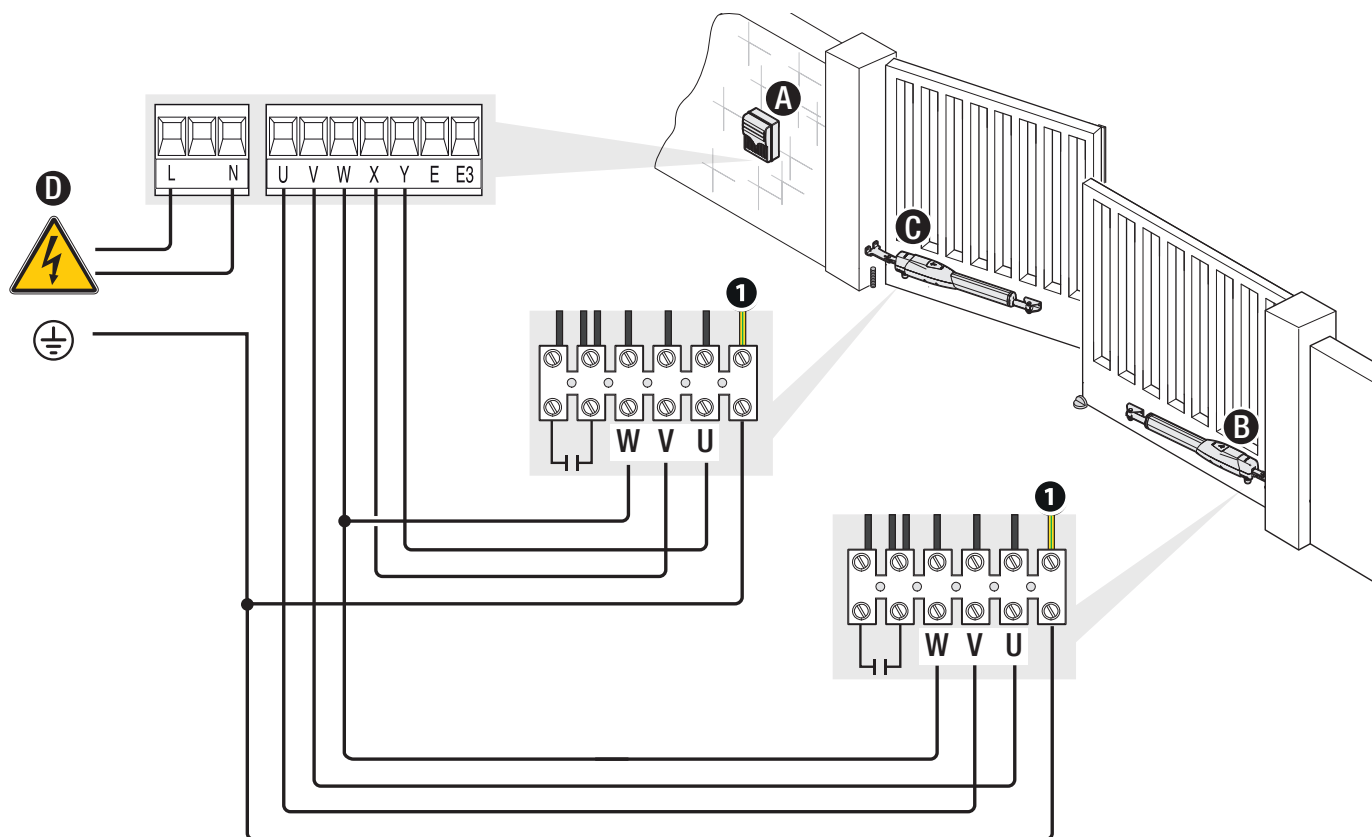
## Electrical connections

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

📖 Remove the protective cover to access the terminal board.

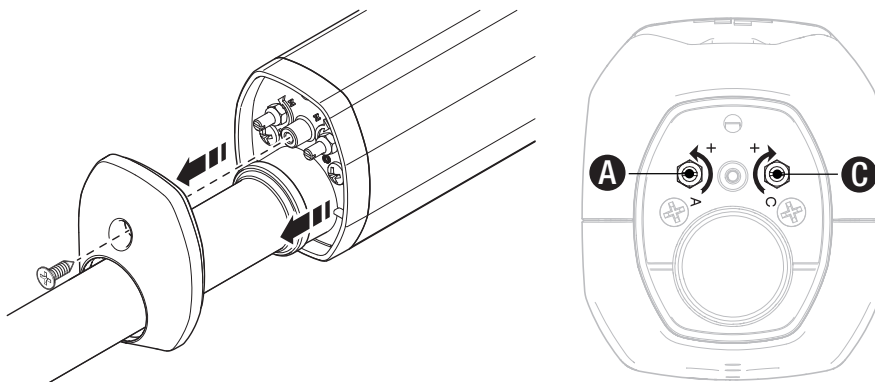


- A** Control panel
- B** Gearmotor delayed while opening
- C** Gearmotor delayed while closing
- D** 230 V AC - 50-60 HZ power supply input
- 1** Yellow/green cable



## Determining the end-of-travel points with micro limit switches

- A** Rod for determining the closing end-of-travel point
- C** Rod for determining the opening end-of-travel point



### Determining the opening end-of-travel points

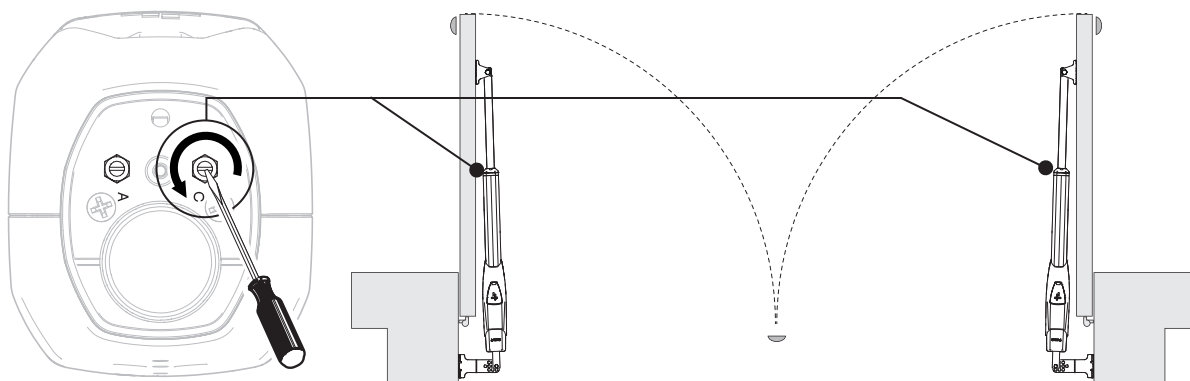
Release the gearmotor.

Open the gate manually.

Send an opening command.

At the same time, turn the rod for determining the opening end-of-travel point ANTICLOCKWISE until the gearmotor stops.

 Leave the rod nut loose to determine the end-of-travel points.



### Determining the closing end-of-travel points

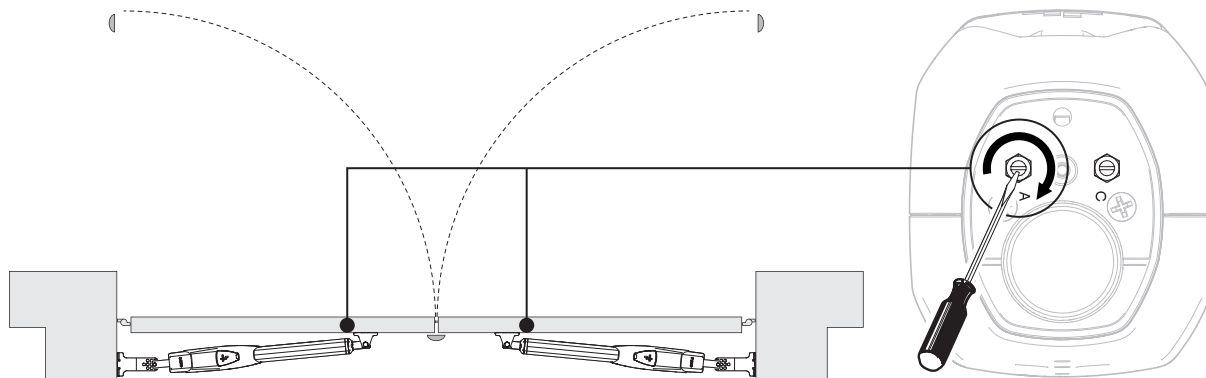
Release the gearmotor.

Close the gate manually.

Send a closing command.

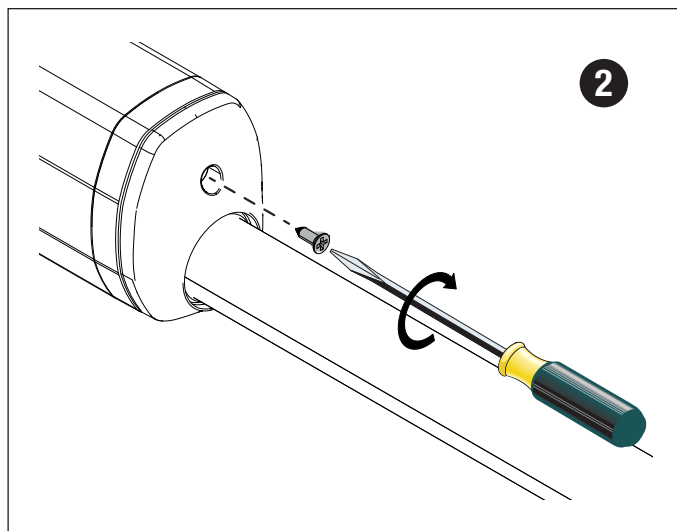
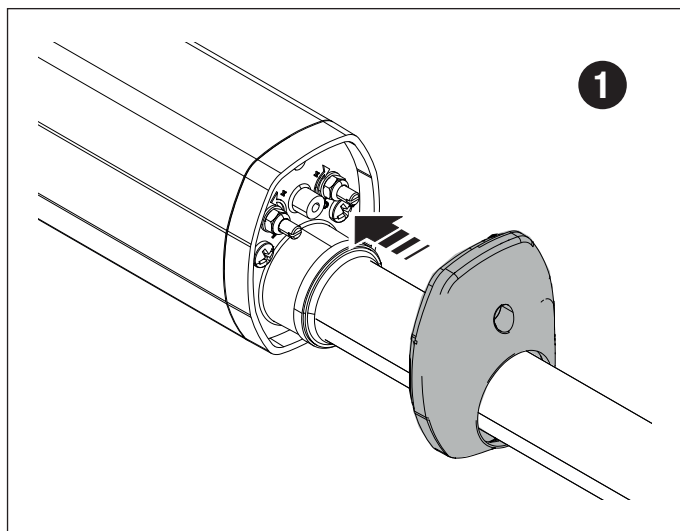
At the same time, turn the rod for determining the closing end-of-travel point CLOCKWISE until the gearmotor stops.

 Leave the rod nut loose to determine the end-of-travel points.





## FINAL OPERATIONS




## MCBF


Models	ATS30AGS-ATS30AGR	ATS50AGS-ATS50AGR
2 m - 800 kg	120000	-
2.5 m - 600 kg	110000	-
3 m - 400 kg	100000	-
2 m - 1000 kg	-	120000
2.5 m - 800 kg	-	110000
3 m - 600 kg	-	100000
4 m - 500 kg	-	85000
5 m - 400 kg	-	70000
Full leaf	-15%	-15%
Installation in windy area	-15%	-15%
Full leaf installed in windy area	-30%	-30%


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

 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.

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

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

**Every 20,000 cycles – or at least every 6 months of use – the following maintenance must be performed.**

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

Grease all of the moving mechanical parts.

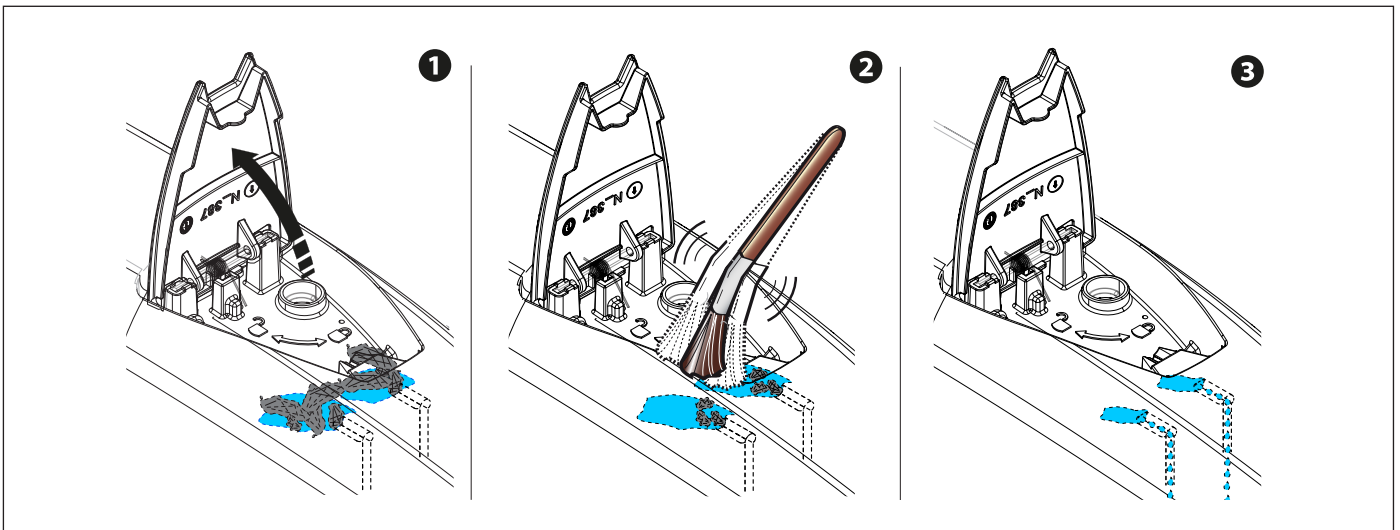
Check the warning and safety devices are working properly.

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.

Open the release hatch and clean any dirt.





**CONTROL PANEL  
FOR 120 V OR 230 V GEARMOTORS**

FA00679-EN






**ZF1N110 / ZF1N**

**INSTALLATION MANUAL**

**IMPORTANT SAFETY INSTRUCTIONS WHEN INSTALLING**  
**WARNING: INCORRECT INSTALLATION MAY RESULT IN SERIOUS HARM, FOLLOW THE INSTALLATION INSTRUCTIONS.**  
**THIS MANUAL IS EXCLUSIVELY INTENDED FOR PROFESSIONAL, SKILLED STAFF**

## KEY

-  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.

## DESCRIPTION

Control panel for two-leaved swing gates. Set functions by using DIP-switches and adjust them by using the trimmers.


All connections and links are rapid-fuse protected.

### Intended use

The ZF1N110 / ZF1N control panel is designed to control CAME gearmotors for swing gates in private homes and apartment buildings.

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

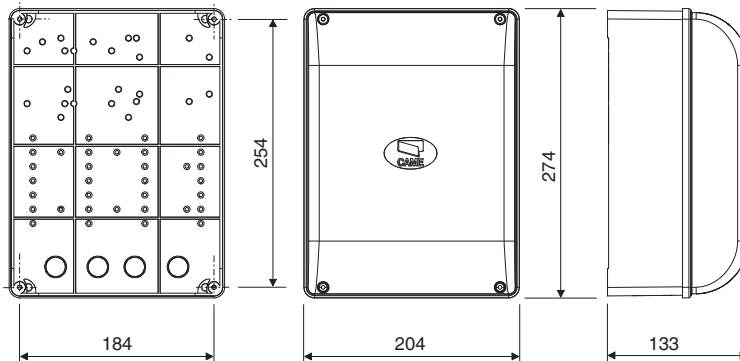
### Technical data

Type	ZF1N	ZF1N110
Protection rating (IP)		54
Power supply (V - 50/60 Hz)	230 AC	120 AC
Input voltage motor (V)	230 AC	120 AC
Consumption in stand-by mode (mA)		40
Maximum power (W)		320
Casing material		ABS
Operating temperature (°C)		-20 to +55
Apparatus class		
Weight (Kg)		-

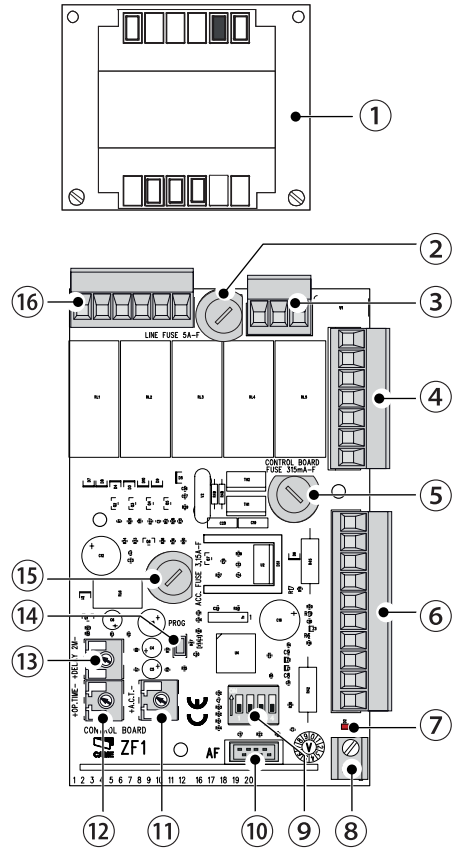
Fuses	ZF1N	ZF1N110
LINE FUSE - Line	5 A	8 A
C.BOARD - Card		315mA
ACCESSORIES - Accessories		3.15 A

### Dimensions (mm)



## Description of parts

- ① Transformer
- ② Line fuse
- ③ Power supply terminals
- ④ Transformer terminal boards
- ⑤ Control-board fuse
- ⑥ Terminals for control and safety devices
- ⑦ Alert LED
- ⑧ Antenna terminal
- ⑨ DIP-SWITCH
- ⑩ AF card connector
- ⑪ Automatic closing trimmer
- ⑫ Operating time trimmer
- ⑬ Motor 2 delay trimmer
- ⑭ Programming key
- ⑮ Accessories fuse
- ⑯ Terminal board for microswitches



## GENERAL INSTALLATION INDICATIONS

△ Only skilled, qualified staff must install this product.

△Warning! Before working on the control panel, cut off the main power supply and, if present, remove any batteries.

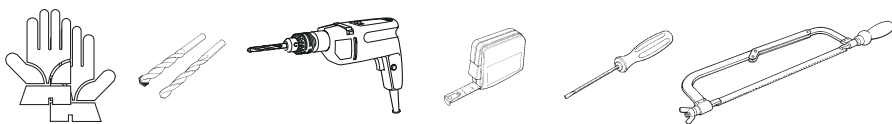
### Preliminary checks

△ Before installing the control panel, do the following:

- make sure the fastening points and the anchoring surface are solid and protected from impacts. Only use suitable nuts, bolts, dowels, and so on;
- 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;
- ⊕ make sure that any connections inside the container (ones that ensure continuity to the protection circuit) are fitted with additional insulation with respect to those of other electrical parts inside;
- set up suitable tubes and conduits for the electric cables to pass through, making sure they are protected from any mechanical damage.

## Tools and materials

Make sure you have all the tools and materials you will need for installing in total safety and in compliance with applicable regulations. The figure shows some of the equipment installers will need.



## Cable types and minimum thicknesses

Connection	cable length	
	< 20 m	20 < 30 m
Control panel 120 / 230 V AC (1P+N+PE)	3G x 1.5 mm <sup>2</sup>	3G x 2.5 mm <sup>2</sup>
Gearmotor 120 / 230 V AC	4G x 1.5 mm <sup>2</sup>	4G x 2.5 mm <sup>2</sup>
TX Photocells	2 x 0.5 mm <sup>2</sup>	
RX photocells	4 x 0.5 mm <sup>2</sup>	
Flashing light	2 x 0.5 mm <sup>2</sup>	
Command and control devices	2 x 0.5 mm <sup>2</sup>	
Safety devices	2 x 0.5 mm <sup>2</sup>	

📖 When powered at 120 V or 230 V and used outdoors, use H05RN-F-type cables that comply with 60245 IEC 57 (IEC); whereas indoors, use H05VV-F-type cables that are 60227 IEC 53 (IEC) compliant.

Use RG58 cable up to 10 m long to connect the antenna.

📖 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

### Fastening the control panel

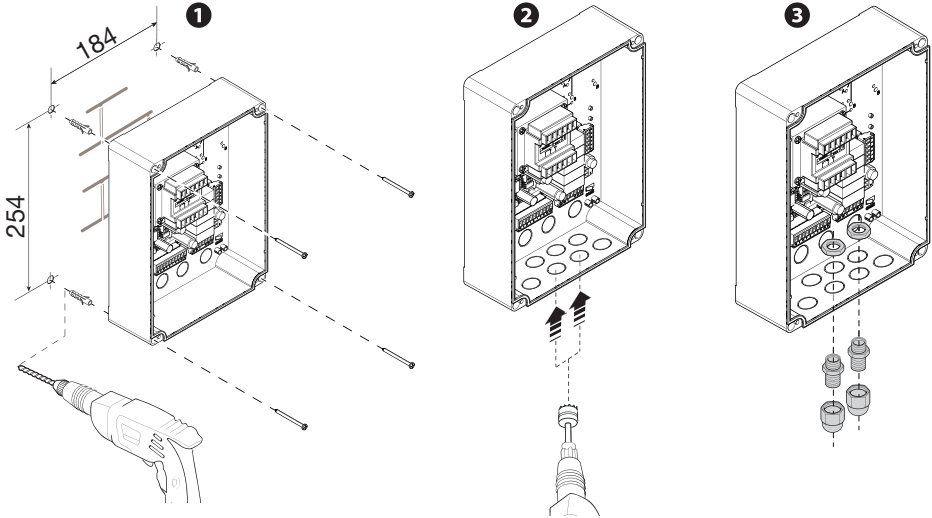
Fasten the control panel in a protected area using suitable screws and dowels **1**.

 Only use 6 x 70 mm cylinder-head screws.

Drill through the pre-drilled holes (18 and 20 mm) under the control panel's base **2**.

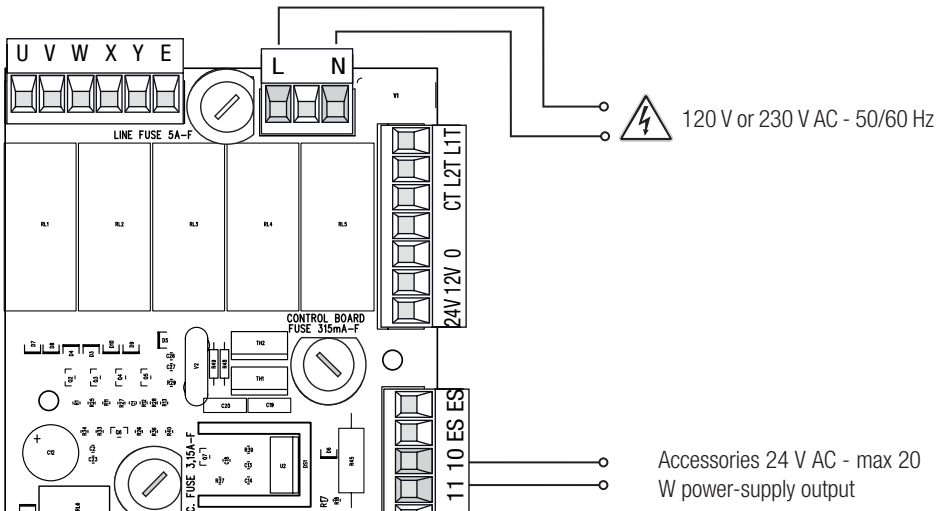
 Be careful not to damage the control board.

Enter the cable gland with the corrugated tubes for threading the electrical cables **3**.



## ELECTRICAL CONNECTIONS

### Input voltage

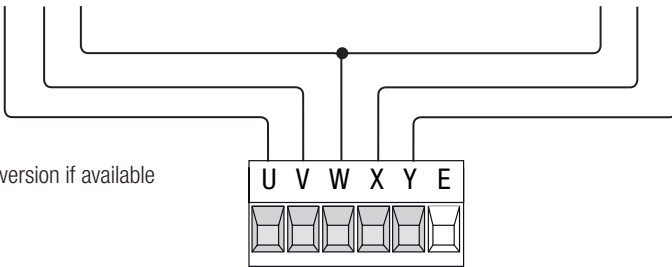


## Connecting the gearmotors

Gearmotor (M1) 120 V AC\* or 230 V AC, delayed when opening.



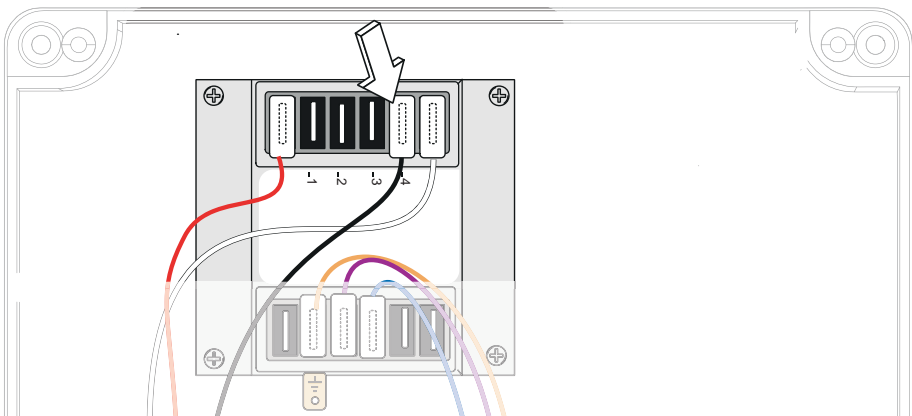
Gearmotor (M2) 120 V AC\* or 230 V AC, delayed when closing.



\* 120 V AC version if available

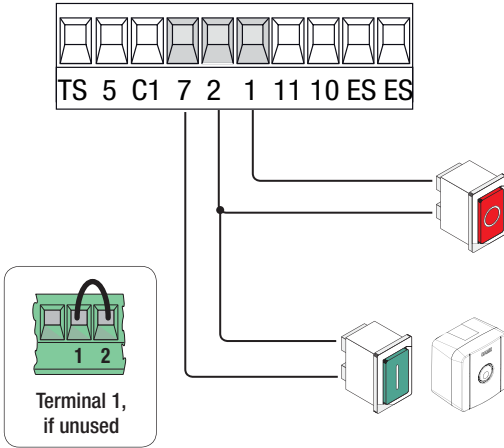
## Motor's torque limiter

To vary the motor torque, move the faston as shown to one of the four positions: 1 min ÷ 4 max.





## Command and control devices

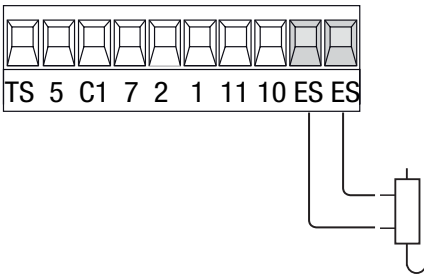


STOP button (NC contact). For stopping the gate while excluding automatic closing. To resume movement press the control button or use another control device.

If unused, short-circuit the contact.

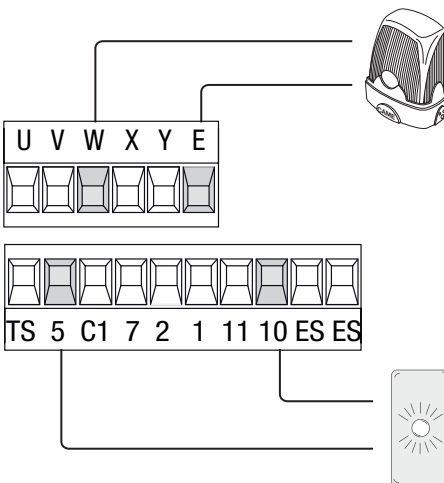
OPEN-CLOSE-INVERT function (step-step) from control device (NO contact). Alternatively, by setting DIP-switch 2 to ON, you can activate the OPEN-STOP-CLOSE-STOP sequential command.

## Electric lock



Electrolock connection at 12 V - Maximum power: 15 W

## Signaling devices



Output for connecting the flashing signal light. (Contact rated for: 120 V or 230 V AC - 25 W max.).

Gate-open signal output (contact rated for: 24 V AC - 3 W max).

To signal that the gate is open. It switches off when the gate is closed.

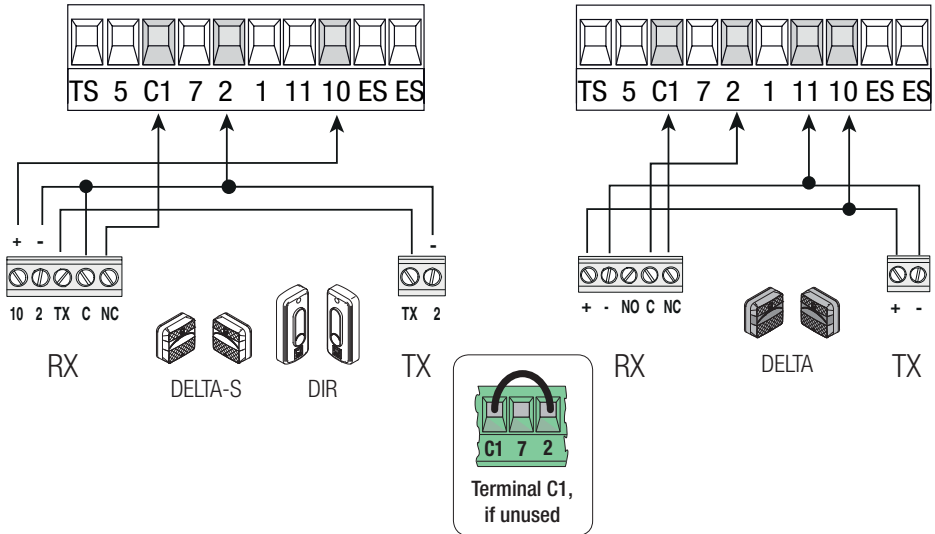
## Safety devices

### Photocells

Input for safety devices such as photocells.

Reopening during closing. When the gate is closing, opening the contact triggers the inversion of movement until the gate is fully open again;

 If the photocells are left unused, short-circuit contact 2-C1.

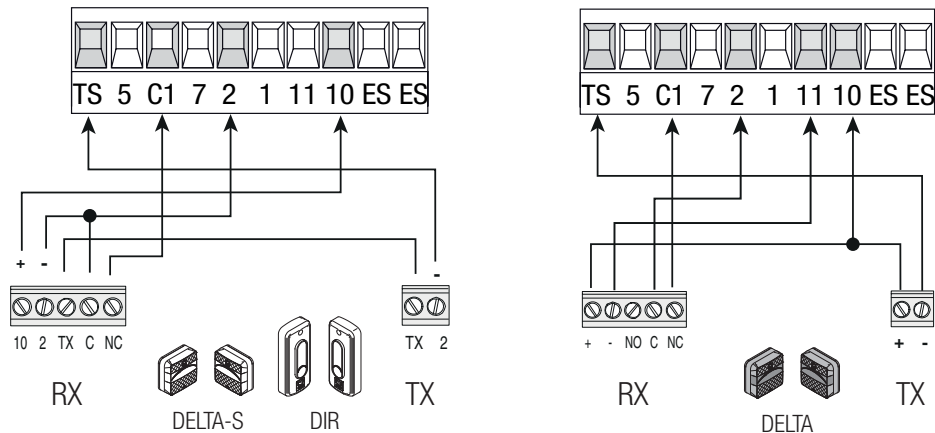


### Connecting the safety devices (i.e. the safety test)

At each opening and closing command, the control board checks the efficacy of the safety devices (such as, photocells).

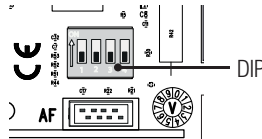
Any anomalies will inhibit all commands.

For this type of connection, enable the function by setting DIP-switch 3 to ON.



## FUNCTIONS AND SETTINGS

### Functions



ON



### DIP-SWITCH Description of functions



#### AUTOMATIC CLOSING

Automatic closing active (1 OFF - Deactivated)



#### OPEN-STOP-CLOSE-STOP

OPEN-STOP-CLOSE-STOP (sequential) function from control device (NO contact) and from radio transmitter fitted with AF card.



#### OPEN-CLOSE-INVERT

OPEN-CLOSE-INVERT (step-step) function from control device (NO contact) and from radio transmitter fitted with AF card.



#### SAFETY TEST

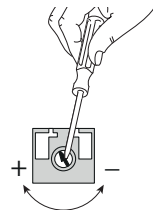
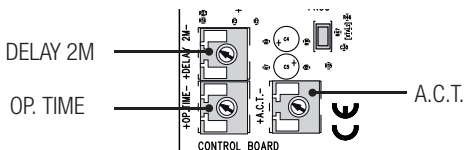
At each opening or closing command, the card checks whether the photocells are working properly (3 OFF - Deactivated)



#### DELETING USERS

Deleting one or more users (4 OFF - Deactivated)

### Settings



### Trimmer Description of functions

#### AUTOMATIC CLOSING TIME

It sets the open gate's waiting time. Once this time elapses, a closing maneuver is automatically performed.

#### A.C.T.

The waiting time can be adjusted to between 1 and 120 seconds.

⚠ The automatic closing does not activate if the safety devices are triggered due to obstacle detection, after a total Stop or if the current is missing.

#### OPERATING TIME

This sets the gearmotors' operating time.

#### OP. TIME

The operating time can be adjusted to between 15 and 120 seconds.

📖 Setting the time to the minimum enables the maintained action function and disables the radio-based controls.

#### MOTOR M2 CLOSING DELAY TIME

#### DELAY 2M

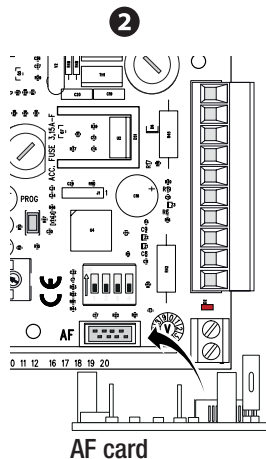
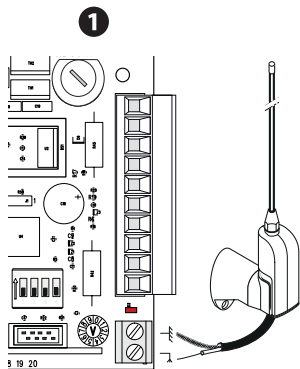
After a closing command or after an automatic closing, the leaf of gearmotor (M2) starts with a delay compared to gearmotor (M1) for an adjustable time of between 3 and 10 seconds.

**Preliminary operations**

Connect the RG58 cable antenna cable to the corresponding terminals **1**.

Fit the AF card into the control board connector **3**.

 Before fitting the AF card, you **MUST CUT OFF THE MAIN POWER SUPPLY** and, remove any emergency batteries.

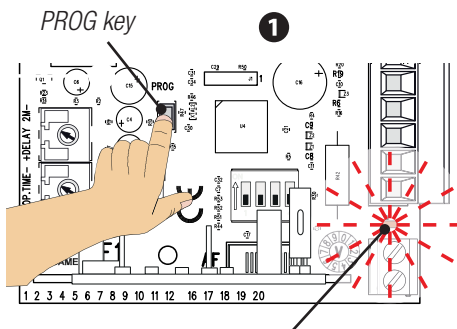


**Adding a user**

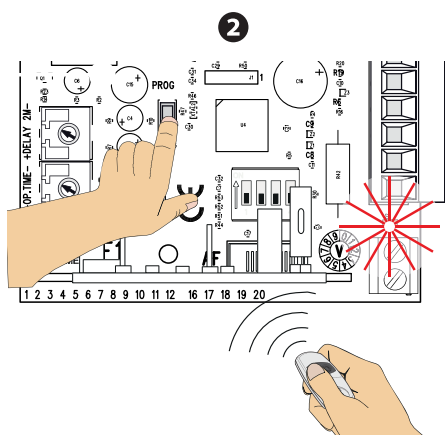
 You can register up to 50 users.

Keep pressed the PROG programming button on the control board. The programming LEDflashing **1**.

Press any key on the transmitter you want to memorize. The LED stays on to indicate that memorization has been successful **2**.



Programming LED



## Deleting a single user

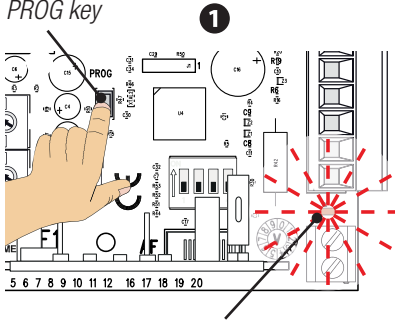
Set DIP-switch 4 to ON.

Keep pressed the PROG button on the control board. The programming LED flashes ❶.

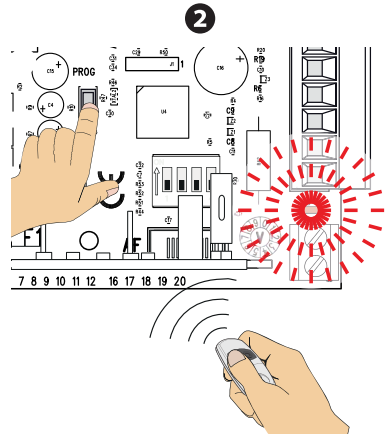
Within five seconds, press the button on the transmitter of the user you wish to delete. The LED will flash quickly for one second to signal that the user has been deleted, and then it will switch off ❷.

Reset DIP-switch 4 to OFF.

PROG key



5"  
max



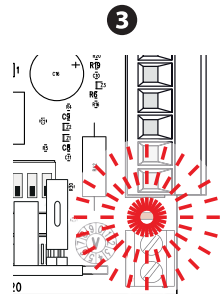
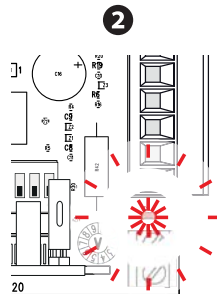
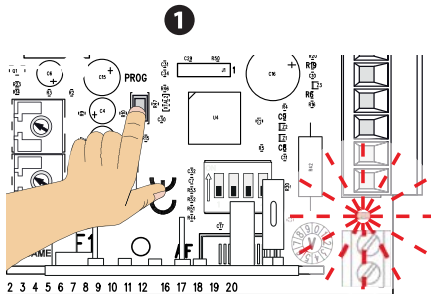
Programming LED

## Deleting all users

Set DIP-switch 4 to ON.

Keep pressed for about 10 seconds the PROG button on the control board. The programming LED will perform a series of average length flashes (about 5 seconds) and quick flashes (about 2 seconds) until it switches off.

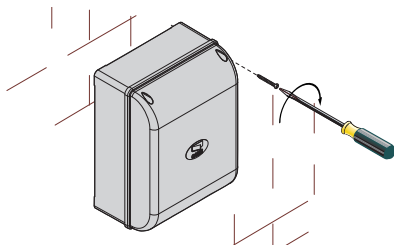
Reset DIP-switch 4 to OFF.



## FINAL OPERATIONS

### Fastening the cover

Once finished with the electrical connections and powering up, fit the cover and secure it using the supplied screws.



## DISMANTLING AND DISPOSAL

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

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.

**DISPOSE OF RESPONSIBLY!**

## REFERENCE REGULATIONS

CAME SpA declares that this product complies with the current directives at the time it is manufactured.

**CAME** 

[CAME.COM](http://CAME.COM)

**CAME S.P.A.**

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