

119DU25EN

AUTOMATION FOR SWING GATES



INSTALLATION MANUAL

A3024N A5024N



English

ΕN



WARNING! important safety instructions: READ CAREFULLY!



Introduction

Use this product only for the specific purpose for which it is designed. Any
other use is therefore improper and dangerous. CAME Cancelli Automatici
S.p.A. is not liable for any damage due to improper, erroneous and unreasonable use
 Keep these warnings together with the installation and users'
manual for the automation system.

Before installing

(check what's there: if you find something wrong, proceed only after correcting the problem so the equipment is safe to use)

• Check that the part you want to automate is in good mechanical condition, that it is balanced and aligned, and that it opens and closes properly. Make sure you have suitable mechanical stops • If the operator will be installed less than 2.5 m from the floor or from any other access level, check whether you need additional protections and/ or warnings • With pedestrian doors framed into the doors that will be automated, a system must be in place to block their opening during movement • Make sure the opening of the automated door leaf does not cause any trapping situations involving any surrounding fixed parts • Do not install the operator upside down or on any elements that may bend. If necessary, add suitable reinforcements at the fastening points • Do not install on sloping ground (only install on flat ground) • Check that any watering devices cannot wet the gearmotor from the bottom upwards.

Installation

 Properly signal and demarcate the entire site prevent any careless people from entering the works area • Be careful when handling operators that weioh more than 20 kg (see installation manual. If such is the case, make sure you have proper hoisting equipment. All opening commands (buttons, key selectors, magnetic card readers, and so on) must be installed at least 1.85 M from the gate's area of movement, or so that they are unreachable from the outside. Moreover, the direct commands (from buttons, swipe cards, and so on) must be installed 1.5 m high off the ground and must not be reachable by the public • All "hold-to-run" commands must be placed where the operating gate leaves and transit areas are completely visible. . Apply a permanent label that shows the position of the release device . Before turning over the installation to the user, check that the system conforms to standards EN 12453 and EN12445 (impact testing), making sure the device has been properly adjusted and that the safety and protection and release devices function properly • Where necessary apply the Warning Signs so that they are clearly visible (e.g. the gate plate)

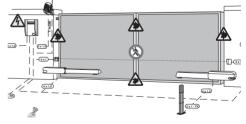
Instructions and special recommendations for users

. Keep the barrier's areas of operations unobstructed. Check that the photocells are free of any vegetation blocking them, and that there are no obstacles to the free movement of the operator. Do not allow children to play with the fixed command devices, or in the barrier's area of operation. Keep transmitters and any other command devices away from children, to prevent the operator from being activated by mistake . Frequently check the system, to scan for any anomalies or wear and tear in the moving structures, the operator's components, all fastening points and devices, the cables and accessible connections. Keep any jointed parts like hinges lubricated and clean of debris and the guide-sleds free of any friction . Perform functional checks to the photocells and sensitive edges every six months. To check that the photocells work properly, wave an object in front of them during closing; if the operator inverts its direction of travel or blocks movement, then the photocells are working properly. This is the only maintenance job that can be done to the gate when it is powered up. Ensure proper cleaning of the glass on the photocells (use a slightly damp cloth); do not use any solvents or other chemical products that may ruin the devices) . Should any repairs or changes to the system settings be needed, release the operator and refrain from using it until safety conditions have been restored . Cut the power off before releasing the operator for manual opening, to avoid any hazardous situations. Check instructions • It is FORBIDDEN for users to perform ANY OPERATIONS THAT ARE NOT EXPRESSLY REQUESTED OF SAID USERS in the manuals. Any repairs. adjustments or extra-ordinary maintenance, EXCLUSIVELY CALL TECHNICAL

 ${\it ASSISTANCE} \bullet {\it Log any service jobs onto the periodic maintenance journal.}$

Special instructions and recommendations for everyone

- Keep away from the hinges and any moving mechanical parts
 Stay out of the operating range of the operator while it is moving
 Do not oppose the movement of the operator as this may result in danger
 Always be careful around the dangerous parts, which must be properly indicated with warning signs and black and yellow stripes
 When using a selector switch or a maintained-action mode command, keep checking that no persons come within the operating range of the moving parts, until the command is released
- The gate may move at any moment without warning. Always cut off the main electric power supply before performing any cleaning or maintenance.





Hand crushing hazard



Danger high voltage



Danger of crushing feet



No transit during operation

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Legend of symbols



This symbol tells you to read the section with particular care.



This symbol tells you that the sections concern safety issues.

This symbol tells you what to say to the end-users.

Intended use and restrictions

Intended use

The ATI 24V N gearmotor is specifically engineered to automate residential and condominium swing gates, even under intensive

Any use, other than that described above or installations performed in ways other than those described herein, are forbidden.

Restrictions

Gate leaf width	Gate leaf weight kg	
m	A3024N	A5024N
2.00	800	1000
2.50	600	800
3.00	400	600
4.00	1	500
5.00	/	400

With swing gates it is always advisable to install and electro-lock. This is to ensure a reliable closing and to protect the gearmotor's inner workings.

But whereas with reversible operators it is merely advisable, with irreversible ones, beyond 4 m, it is obligatory.

Reference Standards

The company: Came Cancelli Automatici is ISO 9001 quality certified; is has also obtained the ISO 14001 environmental safequarding certification. Came engineers and manufactures all of its products in Italy.

This product complies with the following standards: see declaration of compliance.

Description

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Gearmotor

This product is engineered and manufactured by CAME CANCELLI AUTOMATICI S.p.A. and complies with current safety regula-

The gearmotor is composed of two, cast aluminium half shells inside of which rest the gearmotor and endstops - with electro blocking - and an endless screw, epicycloidal gear reduction system.

Technical features

Control board power supply: 230 A.C. 50/60Hz Motor power supply: 24V D.C. 50/60Hz

Max draw.: 10A Power: 120W

Opening time (90°): adjustable

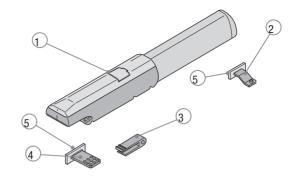
Gear ratio: 1/36 Duty Cycle: Intensive use Protection Rating: IP44 Weight:

A3024N = 10 kgA5024N = 11 kg

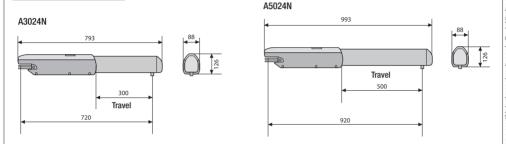


Description of parts

- 1) Gearmotor
- 2) Front bracket
- 3) Back swivel-ioint
- 4) Back bracket
- 5) Anchoring plate



4.4 Overall dimensions

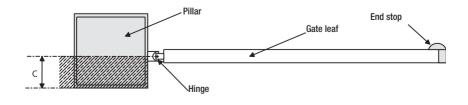


5 Installation

5.1 Preliminary checks

Before installing, do the following:

- · make sure the structure of the gate is sturdy, the hinges work and that there is no friction between moving parts and non-moving
- . measurement C cannot be greater than the value shown in Tab. 3, p. 5. In this case you need to work on the pillar until said measurement is obtained:
- the path of the electrical cables must comply with the command and safety instructions;
- there must be a soundly secured to the ground mechanical stop to prevent the gate leaf/gearmotor from over extending.
- 🖨 Any connections inside the case (that provide continuance to the protective circuit) must be fitted with extra insulation as compared to the other conductive part inside;
- . Make sure you have suitable tubing and conduits for the electrical cables to pass through and be protected against mechanical damage.



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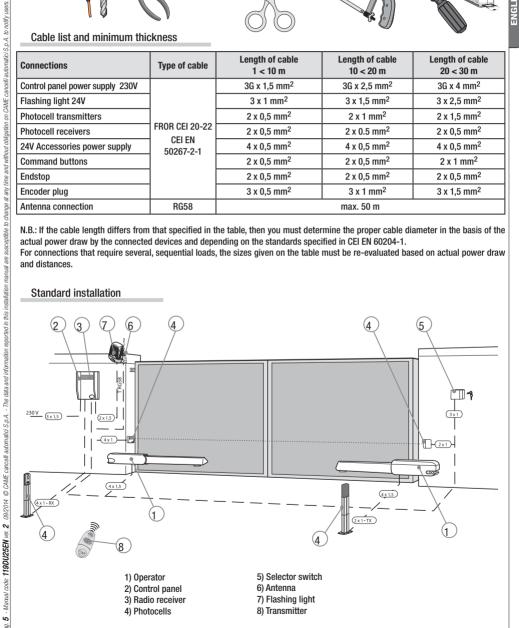
Cable list and minimum thickness

Connections	Type of cable	Length of cable 1 < 10 m	Length of cable 10 < 20 m	Length of cable 20 < 30 m
Control panel power supply 230V		3G x 1,5 mm ²	3G x 2,5 mm ²	3G x 4 mm ²
Flashing light 24V		3 x 1 mm ²	3 x 1,5 mm ²	3 x 2,5 mm ²
Photocell transmitters]	2 x 0,5 mm ²	2 x 1 mm ²	2 x 1,5 mm ²
Photocell receivers	FROR CEI 20-22	2 x 0,5 mm ²	2 x 0.5 mm ²	2 x 0,5 mm ²
24V Accessories power supply	CEI EN 50267-2-1	4 x 0,5 mm ²	4 x 0,5 mm ²	4 x 0,5 mm ²
Command buttons	00207 2 1	2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 1 mm ²
Endstop		2 x 0,5 mm ²	2 x 0,5 mm ²	2 x 0,5 mm ²
Encoder plug		3 x 0,5 mm ²	3 x 1 mm ²	3 x 1,5 mm ²
Antenna connection	RG58		max. 50 m	

N.B.: If the cable length differs from that specified in the table, then you must determine the proper cable diameter in the basis of the actual power draw by the connected devices and depending on the standards specified in CEI EN 60204-1.

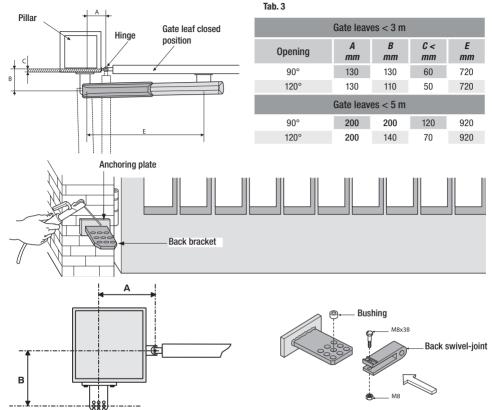
For connections that require several, sequential loads, the sizes given on the table must be re-evaluated based on actual power draw and distances.

Standard installation



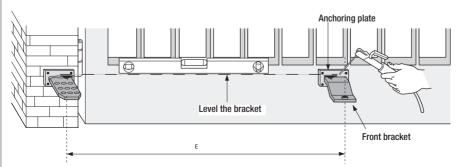
Mounting

The following are just example applications, given that the space for securing the operator and accessories may vary depending on the dimensions. It is thus up to the installer to choose the most suitable solution.



Apply the anchoring plate to the pillar using the back bracket (fig. 1) making sure the A and B measurements are right (Tab. 3) between the hinge axis and central bore hole on the bracket. The back bracket has several other holes for changing the opening angle of the gate.

N.B.: increasing the B measurement decreases the opening angle resulting in slower peripheral speed and greater motor thrust on the gate leaf. Increasing measurement A increases the opening angle resulting in greater peripheral speed and reduced motor thrust on the gate leaf.



With the gate closed apply the anchoring plate to the gate leaf, making sure that the front bracket is lined up horizontally with the back bracket and ensuring that measurement E is met.

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N.B.: we suggest lubricating (using neutral grease) the endless screw and the bushing upon installation.

Release with customised key

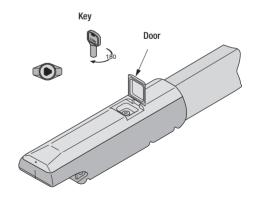
Release only with motor stopped:

1) raise the door;

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- 2) insert and turn key which immediately releases door;
- 3) manually push or pull gate leaf.

To lock gate leaf again into place just insert key again and turn.



Closing-speed brake microswitch Microswitch bar Cable support Stop brake microswitch Spindle Spindle

OPENING PHASE: (stop)

Release the gearmotor and swing the gate-leaf to the fully open position you desire, then, unscrew the securing screws on the opening stop micro-switches assembly.

Slide the micro-switch assembly along the micro-switch bar until it is inserted by contact on the micro-switch activating sled

Secure the micro-switch assembly using the respective screws.

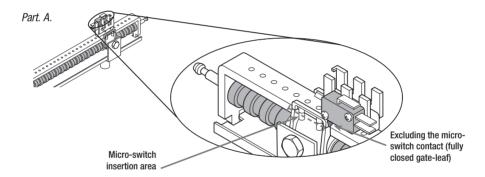
CLOSING PHASE (deceleration)

Swing the gate until fully closed.

Unscrew the securing screws on the closing decelaration micro-switch assembly.

Slide the micro-switch assembly along the micro-switch bar until it is completely passing the contact point on the micro-switch activating sled (as shown in part A.)

Secure the micro-switch assembly using the respective screws.

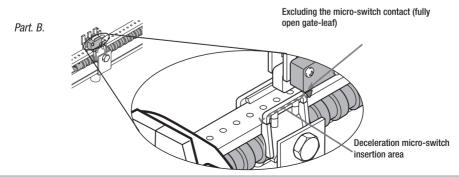


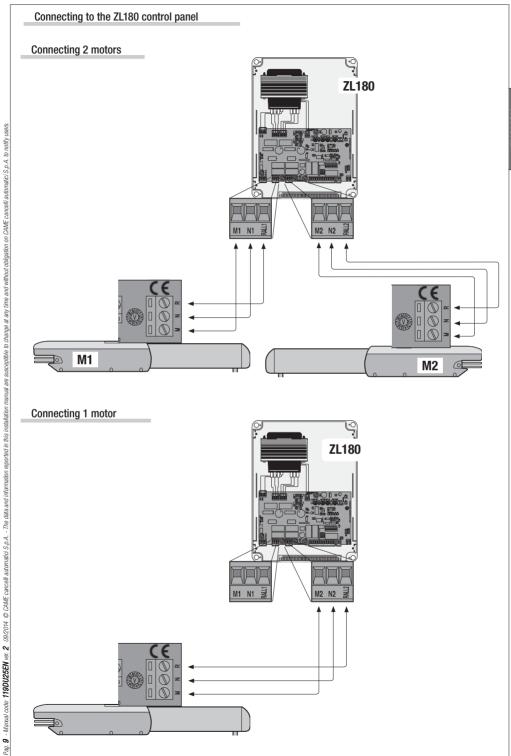
OPENING PHASE (deceleration if set up on the control panel):

Release the gearmotor and swing the gate-leaf to the fully open position you desire, then, unscrew the securing screws on the opening stop micro-switches assembly.

Slide the micro-switch assembly along the micro-switch bar until it is completely passing the contact point on the micro-switch activating sled (as shown in part B.).

Secure the micro-switch assembly using the respective screws.

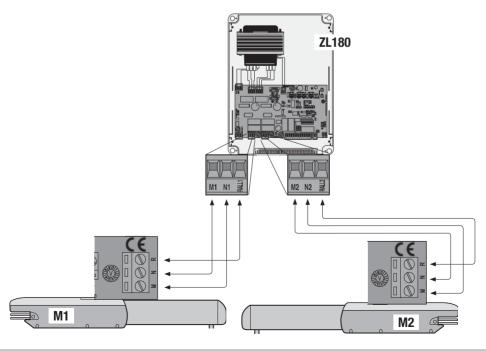




Tab. 4

				A mm
1			A3024N	130
			A5024N	200
E	Extra bracket	A	Outward	:22)

- Measure values A and B (Tab. 4)
- Secure the tail bracket to an extra bracket and apply to post.
- Open gate (max 90°), measure value E (Tab. 4) and secure head bracket to gate leaf.
- Perform electrical connections;
- Reposition and adjust openin stop microswitch.



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Ε

mm

720

920

mm

130

200

7 Maintenance

Periodic maintenance

@ Before doing any maintenance, cut off the power supply, to prevent any hazardous situations caused by accidentally activating the operator.

Periodic maintenance log kept by users (every six months)

Date	Notes	Signature
Extraordinary mainte	nance	
	for logging any extraordinary maintenance jobs, repairs and improvements performed by	specialized contractors.
Any extraordinary m	aintenance jobs must be done only by specialized technicians.	
Extraordinary maint	enance log	
•	· ·	
Installer's stamp	Name of operator	
	Job performed on (date)	
	Technician's signature	
	Requester's signature	
Job performed		
	To a second	
Installer's stamp	Name of operator	
	Job performed on (date)	
	Technician's signature	
	Requester's signature	
Job performed		

Extraordinary maintenance

Extraordinary maintenance log

Installer's stamp	Name of operator	
.	Job performed on (date)	
	Technician's signature	
	Requester's signature	
Job performed		

Installer's stamp	Name of operator	
	Job performed on (date)	
	Technician's signature	
	Requester's signature	
Job performed		

MALFUNCTIONS	POSSIBLE CAUSES	CHECK AND REMEDIES
The gate will not open nor close	There is no power The gearmotor is released The transmitter's batteries are run down The transmitter is broken The stop button is either stuck or broken The opening/closing button or the keyswitch are stuck	Check that the power is up Lock gearmotor (Chapt. 5.6) Replace batteries Call assistance Call assistance Call assistance Call assistance
The gate opens but will not close	The photocells are engaged	Check that photocells are cle- an and in good working order Call assistance
The flashing light does not work	• The bulb is burnt	Call assistance

Phasing out and disposal

CAME CANCELLI AUTOMATICI S.p.A. employs a UNI EN ISO 14001 certified and compliant environmental protection system at its plants, to ensure that environmental safeguarding.

We ask you to keep protecting the environment, as CAME deems it to be one of the fundamental points of its market operations strategies, by simply following these brief guidelines when disposing:

DISPOSING THE PACKING MATERIALS

The packing components (cardboard, plastic, etc.) are solid urban waste and may be disposed of without any particular difficulty, by simply separating them so that they can be recycled.

Before actions it is always advisable to check the pertinent legislation where installation will take place.

DO NOT DISPOSE OF IN NATURE!

DISPOSING OF THE PRODUCT

Our products are made using different types of materials. The majority of them (aluminium, plastic, iron, electric cables) can be considered to be solid urban waste. They may be recycled at authorised firms.

Other components (electrical circuit board, remote control batteries etc.) may contain hazardous waste.

They must, thus, be removed and turned in to licensed firms for their disposal.

Before acting always check the local laws on the matter.

DO NOT DISPOSE OF IN NATURE!

DECLARATION OF CONFORMITY

Declaration C € Came Cancelli Automatici S.p.A. declares that this device conforms to the essential, pertinent requirements provided by directives 2006/42/ CE, 2014/30/UE

An original copy of the declaration of conformity is available on request.





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