



**SAFE & SECURE SYSTEMS LTD**

PROTECTING AND ENHANCING YOUR PROPERTY

External  
operator for swing  
gates of up to  
3 - 4 - 5 - 7 m  
10 - 13 - 16 - 23 ft  
long gate leaves



Gate operators tested  
in compliance with  
European  
Standards on the  
subject of impact  
force.

**Axo**

**When reliability is a matter  
of principle.**

Axo is the new electromechanical operator designed for long life and utmost safety even with very large gates. The impact force developed by the gate movement conforms to current European standards.



  
**CAME**  
AUTOMATIC GATES

# Axo 230V 24V

Came dependability and experience at the touch of your fingertips

The gearmotor has bearing semi-shells in die-cast aluminium of excellent quality and silent running. Axo is equipped with adjustable mechanical stop to memorize the gate run. Available also in the 24V version with the simplified connection system with only one single three-wired cable and with the innovative 230V technology, which gives very efficient and simple control of slowing down movements.



**A design to serve technology.**  
Came innovation has designed an excellent versatile bearing structure. The two stems in the versions up to 3 and 7 m per leaf, engage smoothly into a single semishell structure.



**Encoder management.**  
The slow-down speed of the 230V A.C. gearmotor is also controlled by encoder technology which keeps the generated force under control as well.



**En Tested safety.**  
Axo technology conforms to the current European standards relative to impact force.

#### True comfort.

The electronics of the 24V version can be equipped with a device that, in the event of a black-out, activates the emergency back-up function that uses batteries. In industrial and other intensive use settings, Ati can also be connected to an emergency generator.

#### EN12445 - EN12453 compliant.

The dedicated panels (ZM3E and ZLJ24) constantly control the gate leaves' movement allowing for safe thrust, and is EU standard compliant.



#### Choose among 6 models.

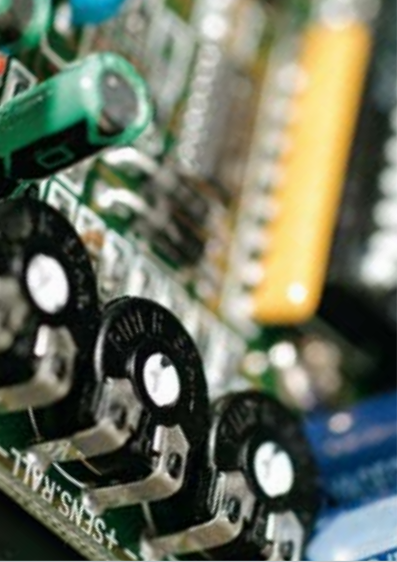
The Axo range features 6 different models each thought up to meet every need in terms of use and application.

#### Electromechanical is better.

Axo is an electromechanical operator in line with Came tradition. It is designed to always work, even in the severest of climatic conditions.

#### New technology inside.

The revolutionary double-threaded worm-screw drastically reduces wear on the axle box.



# The 230V electronics

Besides the usual control and safety functions, Axo's new 230V electronics provide certain details that allow for total control of the operator and optimal working conditions of the same. Here are some examples:

- > **Total control of the gate from the transmitter**  
control including the possibility of immediately stopping the movement of the gate leaves.
- > **Possibility of programming the gate to partially open**  
Ideal for all entrances that don't have a specific pedestrian gate.
- > **System's active safety-devices test**  
performed prior to each gate opening and closing cycle.

## Axo is EN TESTED

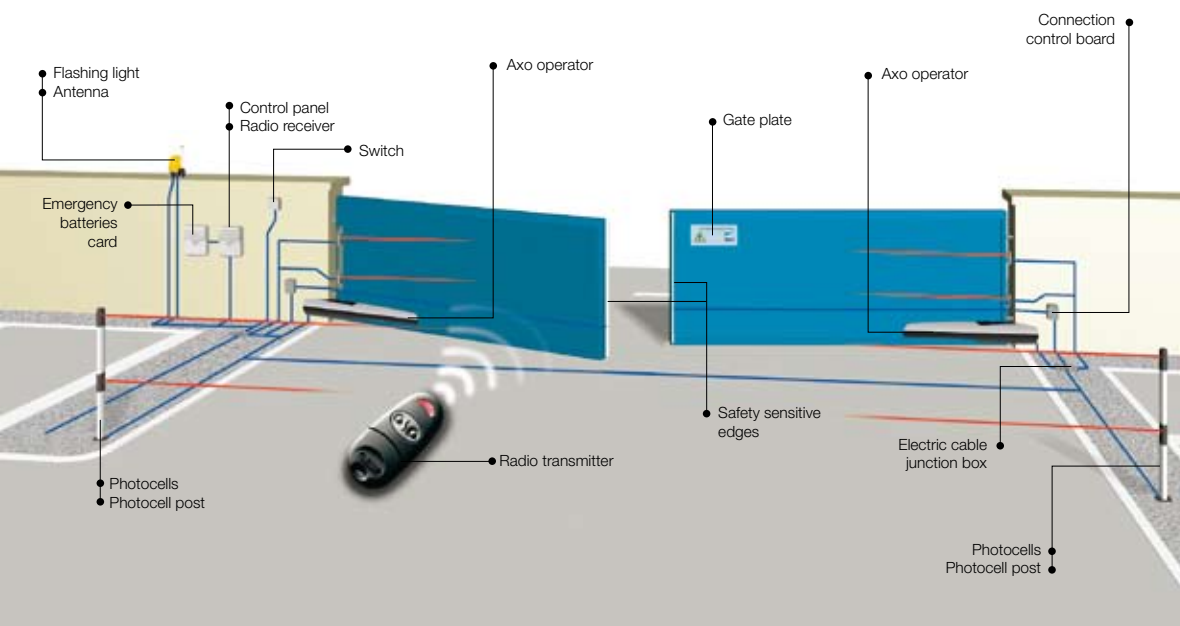


When total comfort, performance and safety are needed, Axo's technology elevates the potential to the highest standards, meaning:

- > **Controlled impact forces**  
Thanks to laboratory testing carried out on a door sample, all versions of Axo are European standard EN12445 and EN12453 compliant, in terms of impact forces.
- > **No more blackouts**  
Axo's 24V electronics automatically detect any absence of power and immediately activate the emergency back-up batteries, to always open and close the gate (optional).
- > **Frequent passages**  
The low-voltage gearmotor guarantees functioning even in the harshest of working conditions, such as in apartment blocks and industrial facilities.
- > **Obstacle detection**  
A special electronic circuit constantly sweeps for any obstacles to the gate leaves, and if needed stops or inverts the direction of motion.



## Standard installation



In the event a careful analysis of the automated gate's risks were to require it, the use of sensitive safety infrared or contact edges becomes indispensable. In the event of panel gates, and very windy conditions, we suggest installing the 230V version.



Made in Italy



For its quality processes management Came Cancelli Automatici is ISO 9001:2000 certified, and for its environmental management it is ISO 14001 certified. Came designs and manufactures entirely in Italy.



**CAME**

Approved  
Installer

PRODUCTO



# The range

## External 230V A.C. operators and control panel

**AX302304**

Self-locking operator for gate leaves up to 3 m / 10 ft. (Opening time 90°: 20s)

**AX402306**

Self-locking operator for gate leaves up to 4 m / 13 ft. (Opening time 90°: 28s)

**AX412306**

Reversible operator for gate leaves up to 4 m / 16 ft. (Opening time 90°: 28s)

**AX71230**

Reversible operator for gate leaves up to 7 m / 23 ft. (Opening time 90°: 40s)

**ZM3E**

Multifunction control panel with signalling display, self-diagnosis of safety devices and built-in radio decoding.



## 24V D.C. external operators and control panel

**AX3024**

Self-locking operator for gate leaves up to 3 m / 10 ft. (Opening time 90°: adjustable)

**AX5024**

Self-locking operator for gate leaves up to 5 m / 16 ft. (Opening time 90°: adjustable)

**ZLJ24**

Control panel for two-leaf swing gates with built-in radio decoder.



## Accessories

**LB180**

Card for connecting two 12V - 1.2Ah emergency batteries with rack for ZL180 control panel.

**LOCK81**

Electric lock with single cylinder.

**LOCK82**

Electric lock with double cylinder.



## Technical features

Type	AX302304	AX402306-AX412306	AX71230	AX3024	AX5024
Protection rating	IP44	IP44	IP44	IP44	IP44
Power supply (V) (50/60Hz)	230 A.C.	230 A.C.	230 A.C.	230 A.C.	230 A.C.
Motor power supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	24 D.C.	24 D.C.
Current draw (A)	1,5	1,5	1,5	10 Max	10 Max
Power (W)	175	175	175	120	120
90° opening time (s)	20	28	40	ADJUSTABLE	ADJUSTABLE
Duty cycle (%)	50	30	30	INTENSIVE USE	INTENSIVE USE
Thrust (N)	500 ÷ 4500	500 ÷ 4500	500 ÷ 4500	500 ÷ 4500	500 ÷ 4500
Operating temperature (°C/°F)				-20 - +55 / -4 - +131	
Motor's thermo-protection (°C/°F)	150 / 302	150 / 302	150 / 302	-	-
120V A.C.- 60 Hz PRODUCTS, PLEASE CHECK OUR PRICE LIST				230V A.C. ● 24V D.C.	

## Limits to use

Model	AX302304 - AX3024				
Max width of gate leaf (m/ft)	2/6.56	2.5/ 8.20	3/10		
Max weight of gate leaf (Kg/lb)	800/1.770	600/1.330	500/1.102		
Model	AX402306 - AX412306				
Max width of gate leaf (m/ft)	2/6.56	2.5/ 8.20	3/10	4*/13.12	
Max weight of gate leaf (Kg/lb)	800/1.770	600/1.330	500/1.100	300/661	
Model	AX5024				
Max width of gate leaf (m/ft)	2/6.56	2.5/ 8.20	3/10	4*/13.12	5*/16.40
Max weight of gate leaf (Kg/lb)	1000/2.204	800/1.770	700/1.543	500/1.100	400/882
Model	AX71230				
Max width of gate leaf (m/ft)	2/6.56	2.5/ 8.20	3/10	4*/13.12	5*/16.40
Max weight of gate leaf (Kg/lb)	1000/2.204	800/1.770	700/1.543	500/1.100	400/882
					6° ° /19.68
					7° °/22.96
					350/772
					300/661
					● 230V A.C. ● 24V D.C.

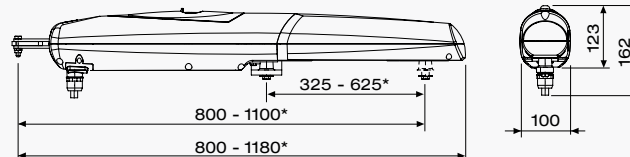
Note:

\* If it is larger than 3 meters, the blocking electric lock must be installed on the leaf.

° If it is larger than 5 meters, panels must not be fitted.

Attention must be paid when there is strong wind with the reversible versions if the gate is open as it could slam shut.

## Dimensions



\* AX71230 - AX5024



**SAFE & SECURE SYSTEMS LTD**

PROTECTING AND ENHANCING YOUR PROPERTY

Safe & Secure Systems  
Unit 6B, Shefford Mill  
Stanford Road  
Shefford  
Bedfordshire  
SG17 5NR

Telephone:

**01462 816571**

Mobile:

**07748 365912**

[www.safesecuresystems.com](http://www.safesecuresystems.com)