

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 Italv.

The range

230V A.C. underground operators

FROG-A Self-locking operator of up to 3.5 m / 11,5 ft per gate leaf.
FROG-AV Self-locking operator of up to 1.3 m / 4,2 ft per gate leaf.

230V A.C. control panels

ZM3E

Multifunction control panel with built-in radior decoder.

Multifunction control panel with signalling display, auto-diagnosis of safety devices and built-in radio decoder. 230V A.C. underground operators and control panel

FROG-AE Self-locking operator with encoder for gate leaves of up to 3.5 m / 11,5 ft per gate leaf. ZM3E Multifunction control panel with signalling display, auto-diagnosis of safety devices and

built-in radio decoder.

24V D.C. underground operator and control panels

FROG-A24 Self-locking operator of up to 3.5 m / 11,5 ft per gate leaf.

ZL170N Control panel for one-leaf swing gates with built-in radio decoder. Control panel for two-leaf swing gates with built-in radio decoder.

Accessories

LB18 Casing with emergency card, fitted to house three 12V - 7 Ah batteries

(for ZL170N and ZL19N control panels). FROG-B Galvanized steel foundation case.

FROG-BI Inox AISI 304 steel foundation case. A4364 Lever key release. A4365 Triangular key relelase.

A4366 Customized key release and EURO-DIN cylinder.

Transmission lever with adjustable gate-leaf opening stop. A4472 A4370

Transmission lever for opening arcs of up to 140° for gate leaves no wider

FL-180 Chain driven transmission lever for opening arcs of up to 180° for gate leaves

no wider than 2 m / 6,56 ft (excluding FROG-A24).

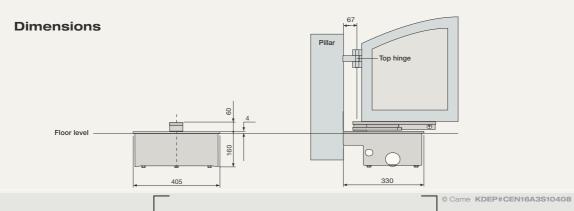
LOCK81 Electric lock with single-cylinder.

LOCK82 Electric lock with double-cylinder

Technical features				
Туре	FROG-A	FROG-AV	FROG-AE	FROG-A24
Protection rating	IP67	IP67	IP67	IP67
Power supply (V) (50/60Hz)	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.
Current draw (A)	1,9	2,5	1,9	15 Max
Power (W)	200	300	200	180
90° opening time (s)	18	9	18	16 ÷ 45
Duty cylce (%)	30	30	30	Intensive use
Thrust (N)	320	240	320	320
Operating temperature (°C/°F)				
Motor's thermo-protection (°C/°F)	150/302	150/302	150/302	-
	● 230V A C ■ 24V D C			

Limits to use				
Model	FROG-AV	FROG-A - FRO	G-AE - FROG-A24	
Max width of gate leaf (m / ft)	1,3 / 4,2	*3,5 / 11,5	*2,5 / 8,2	2 / 6,6
Max weight of gate leaf (Kg / lb)	300 / 661	400 / 880	600 / 1,320	800 / 1,770
				201/ 4 0 • 041/ 5 0

NOTES: * We suggest to provide an electric lock to be mounted on the gate/door leaf



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Underground operator for swing gates of up to 3.5 m / 11,5 ft per gate leaves



Froc

The totally hidden operator that emphasises your entrance

Frog represents the synthesis of Came's design philosophy and creativity applied to swing gates. An extremely sturdy and "practically invisible" product which in no way detracts from the aesthetics of your entrance way.



Frog

The operator that makes the difference

Frog is Came's highly efficient operator that defies time thanks to the materials used in the foundation case and the gearmotor. A smooth, safe movement guaranteed in all working conditions, even the harshest, but which, above all needs no periodic maintenance.



Total water-tightness

Frog's high quality standards and its IP67 protection standards from external agents keeps it always in perfect working order.



Better before.

Installing Frog is easy and setting up the foundation case enables the gate to be automated at a



Easy, PATENTED release.

In the event of a blackout Frog's release mechanism is immediate It comes in three versions for each specific need, from the practical lever to the customized key.



Top comfort.

outages.

Frog is also available in the 24V

motor version, so that the gate can

always be opened in during power

no-compromise result.

The 230V electronics

Frog's new 230V electronics provides specific control and safety functions, which are standard even in the basic version. There are, however, other control boards available, for cutting-edge performance features, in terms of service and safety.

- > Test of the active safety features activated before each gate operation, whether in opening or closing.
- > Pedestrian or partial opening to allow opening of one gate leaf or limited opening for pedestrian access.
- > Total control of the gate from the transmitter including the possibility of immediately stopping movement of the gate leaves.

24V Frog is EN TESTED





When top comfort, performance and safety are required, the Frog 24V technology enables the potential of the operator to reach the highest levels, particularly:

> Controlled impact forces

Thanks to laboratory testing carried out on a door sample, 24V Frog is European standard EN12445 and EN12453 compliant, in terms of impact forces.

> Blackouts no more

The Frog 24V electronics immediately act in the event of a power outage by activating the emergency function through the auxiliary batteries, to always open and close the gate (optional).

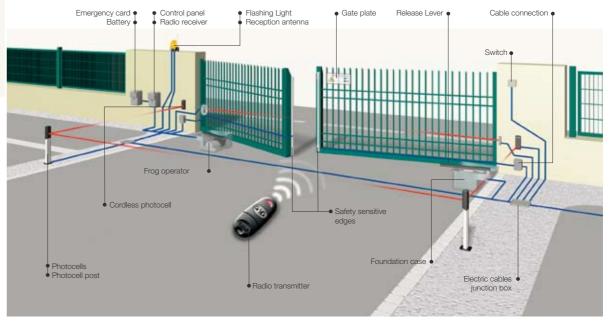
> Frequent passing

The low voltage gearmotor guarantees functioning even under the most severe working conditions such as apartment blocks or industrial applications.

> Obstacle detection

A special electronic circuit constantly analyses the proper functioning of the gate leaves, allowing for their total stop, or inversion of movement, when coming into contact with any obstacles.

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