

Underground operator for swing gates of up to 3.5 m / 11.5 ft per gate leaves

Frog

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 230V 24V

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.

EN



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 later date.



The new underground casing. Cataphoresis is a surface painting treatment that gives excellent corrosion resistance.

It is formed of an even layer of black acrylic resin and gives longlasting protection against chemical attack.

Special apertures.

Special operation levers are available and enable gate-leaf rotations of up to 180° providing better management of the space available. EN12445 - EN12453 compliant. The ZL19N and ZL170N control panels constantly control the gate leaves' movement allowing for safe thrust, and is EU standard compliant.

Durability without any compromises.

The solid foundation case is made of rustproof steel. A special stainless steel version is also available, to be installed in severe climates.

Top comfort.

Frog is also available in the 24V motor version, so that the gate can always be opened during power outages.

Designed to withstand anything. In designing Frog, we have chosen the best materials available, carefully studying each detail so as to obtain a 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.



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

> Controlled impact forces

Thanks to laboratory testing carried out on a gate sample, Frog is European standard EN12445 and EN12453 compliant, in terms of impact forces. (FROG-AE, FROG-AE4 and FROG-AE24)

> No more blackouts

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









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.

The range

230V A.C. underground operators

FROG-ASelf-locking operator of up to 3.5 m / 11.5 ft per gate leaf.FROG-AVSelf-locking operator of up to 1.3 m / 4.2 ft per gate leaf.

230V A.C. control panels z

ZA3N	Multifunction control panel with built-in radio decoder.
ZM3E	Multifunction control panel with signalling display, auto-diagnosis
	of safety devices and built-in radio decoder.

Multifunction control panel with signalling display, auto-diagnosis of safety devices and ZM3E built-in radio decoder.

24V D.C. underground operator and control panels

FROG-A24Self-locking operator of up to 3.5 m / 11.5 ft per gate leaf.ZL170NControl panel for one-leaf swing gates with built-in radio decoder. Control panel for two-leaf swing gates with built-in radio decoder. ZL19N

24V D.C. underground operator and control panels

FROG-A24E Self-locking operator with encoder of up to 3.5 m / 11.5 ft per gate leaf. ZLJ24 Control panel for two-leaf swing gates with built-in radio decoder.

Accessories

ACCESSO	
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.
A4472	Transmission lever with adjustable gate-leaf opening stop.
A4370	Transmission lever for opening arcs of up to 140° for gate leaves no wider
	than 2 m / 6.56 ft.
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.
	0,
LOCK82	Electric lock with double-cylinder.

Technical features

Туре	FROG-A	FROG-AV	FROG-AE	FROG-A24 - FROG-A24E	
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)	-20 - +55 / -4 - +131				
Motor's thermo-protection (°C/°F)	150 / 302	150 / 302	150 / 302	-	
120V A.C 60 Hz PRODUCTS, PLEASE C	HECK OUR PRICE LIST			● 230V A.C. ● 24V D.C.	

Limits to use

Model	FROG-AV	FROG-A - FROG-AE - FROG-A24 - FROG-A24E			
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	
				● 230V A.C. ● 24V D.C.	

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

Dimensions



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Came cancelli automatici S.p.A.

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