



Underground operator for swing gates of up to 1.8 m / 5,9 ft per gate leaf



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

# Frog-J

**The underground operator, unique and exclusive, requiring no prior fitting**

Today the underground operator can be installed even without prior fittings or masonry work. All you need are 85 mm / 3.34 in to position this revolutionary system which blends aesthetic value into Came's technological edge.

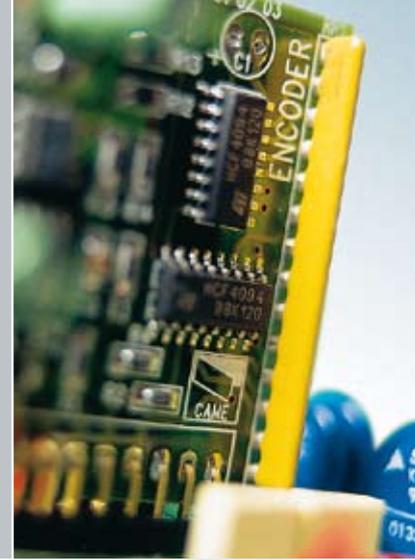


# Frog-J

Just 85 mm of underground automation!

Came's latest solution for installing an underground operator even when gates are not previously fitted to do so. In fact, Frog-J needs very little space.

Requiring little, if any masonry work, it adds the value of an underground system to that of one with no extra costs. It's a Came solution!



**EN12445 - EN12453 compliant.**  
Through the encoder, the dedicated panel constantly controls the gate leaves' movement allowing for safe thrust, and is EU standard compliant.

**Innovative and exclusive integrated release system with custom key.**  
It is comfortable, safe, waterproof, and protected by its water sealed door. Which makes it easy to reach whether you are outside and inside the gate.

**Blackouts no more!**  
Frog-J's 24V electronics will automatically read any power outages and turn on the emergency mode which runs on batteries added to the unit (accessories).

## The electronics

Besides the normal command and safety functions, Frog-J's electronics provides certain new additions which give you total control of the operator and an optimal service level, these being:

**> Movement monitoring through ENCODER:**

to control the gate's run, it's thrust and slow downs, while being totally safe for the user.

**> Dedicated control panel:**

which takes emergency batteries and recharge card to deal with blackout situations.

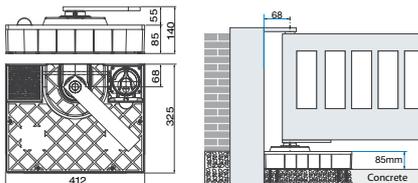
**> Easier to install:**

using just one tri-polar cable to handle the power supply and slow downs.

## The range

- FROG-J** Operator with encoder.
- FROG-JC** Foundation case
- ZL90** Control panel for two-leaf swing gates with built-in radio decoder.
- LB90** Card for connecting up two 12V - 1.2Ah emergency batteries with rack.
- A4617** Release group with customized key.

## Dimensions



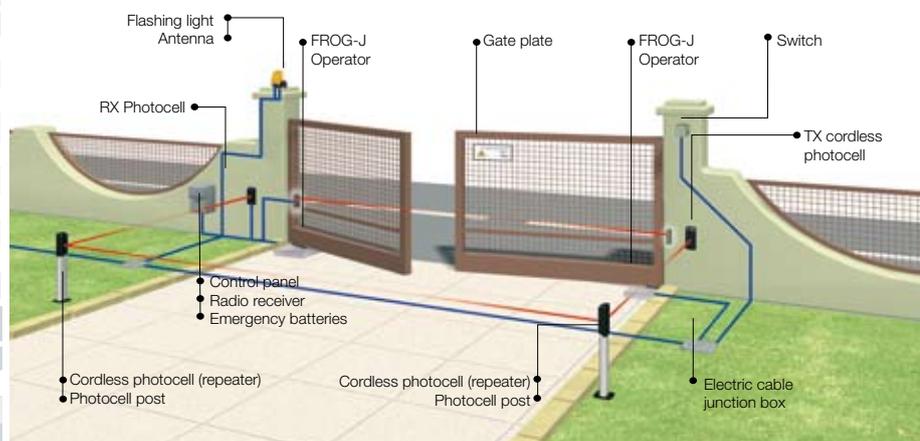
## Technical features

Type	FROG-J
Protection rating	IP67
Power supply (V) (50/60 Hz)	230 A.C.
Motor power supply (V)	24 D.C.
Current draw (A)	10 max
Power (W)	240
90° opening time (s)	ADJUSTABLE
Duty cycle (%)	INTENSIVE USE
Spinta (Nm)	260
Operating temperature (°C/°F)	-20 - +55 / -4 - +131

## Limits to use

Type	Max opening of gate leaf (°)	FROG-J
Gate leaf width (m/ft)	105°	1.8/5.9
Gate leaf weight (Kg/lb)	105°	200/441

## Standard installation



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