

# Super Frog



BELOW-GROUND  
OPERATOR FOR SWING  
GATES UP TO  
8 M (26 FT)  
PER GATE LEAF



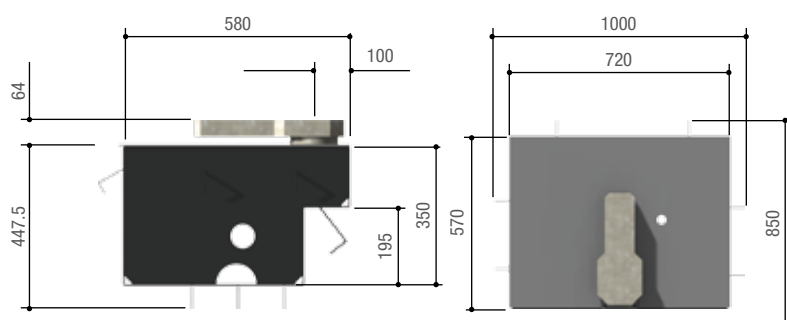
**CAME**

# Super Frog, for super gates!

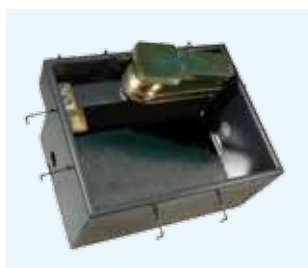
Super Frog is the concealed operator for large swing gates measuring up to 8 m (26 ft) in length and 1,500 kg (3,300 lb) in weight, per gate leaf.



## Dimensions (mm)



# Benefits become solutions.



## IT WITHSTANDS ANYTHING!

The special materials and high (IP 67) protection rating against weathering, make Super Frog durable over time with no need for frequent periodic maintenance. The foundation box is made of very thick rust-proof treated stainless steel.

## THE REASONS FOR CHOOSING SUPER FROG

- Self-learning opening and closing limit-switches.
- New generation electronic to ensure cutting-edge functionalities for controlling the operator and keeping users safe.

## 230 V AC ELECTRONICS

- Safety is ensured even when the gate is idle: every command is canceled if the safety devices detect any obstruction.
- You can stop the gate directly from the radio transmitter, so the gate's control is always at hand.



## The Triphase benefits!

Greater thrust during operation.  
The 230-400V triphase electronics provide much greater thrust during the initial gate movement, to overcome any critical issues due to the gate's weight.

Frequent passages.  
The triphase gearmotor ensures operation even under the most severe conditions of use such as with industrial applications.

Inertia control.  
With large industrial doors, their weight is often an issue to solve in terms of safety and proper operation of the system. Passive inertia, in terms of the gate travel, may lead to malfunctions as well as user hazards.

## Read up at [came.com](http://came.com) about the full range of Came products!

Came is a market leading home, industrial, and special technological projects automation manufacturing company.

A full range of household solutions: from operators for gates and garage doors, to shutter and awning winding motors, and even home automation control, to burglar proof and video entry systems. Technology and reliability to serve your business, thanks to solutions designed for powering large industrial doors, automatic doors, street barriers, turnstiles, access control systems and parking facilities.





## CUSTOMIZED ELECTRONICS FOR YOUR NEEDS!

Super Frog is available in the 230 V AC version and at 230 - 400 V AC triphase.

The table show the main characteristics of the control panel, matched to the gearmotors.



GARANZIA QUALITÀ ORIGINALE

Came products  
are entirely designed  
and made in **ITALY**



Came S.p.A.  
is Quality  
and Environmentally certified by  
**UNI EN ISO 9001**  
**UNI EN ISO 14001**

### CONTROL PANEL

ZM3ES

#### SAFETY FEATURES

SELF-DIAGNOSING safety devices	●
PREFLASHING while opening or closing	●
REOPEN while closing	●
RECLOSE while opening	●
WAIT obstruction	●
TOTAL STOP	●
PARTIAL STOP	●
OBSTRUCTION DETECTED in front of photocells	●

#### CONTROL FEATURES

PEDESTRIAN OPENING one gate leaf	●
PARTIAL OPENING one gate leaf	●
OPEN ONLY from transmitter and/or button	●
OPEN ONLY or CLOSE ONLY button connection	●
OPEN-STOP-CLOSE-STOP from transmitter and/or from button	●
OPEN-CLOSE-INVERSION from transmitter and/or from button	●
MAINTAINED ACTION	●
1ST GATE LEAF OPENING DELAY	●
2ND GATE LEAF OPENING DELAY	●

#### CHARACTERISTICS AND ADJUSTMENTS

FLASHING LIGHT connection	●
CYCLE LAMP connection	●
COURTESY LAMP connection	●
Antenna	●
GATE OPEN FLASHING LIGHT connection	●
Contact output for 2nd RADIO CHANNEL	●
OPERATING TIME adjustment	●
SELF-LEARNING of the transmitter's RADIO CODE	●
ELECTROLOCK/ELECTROBLOCK and/or ANTI RAMMING connection	●
Adjustable AUTOMATIC RECLOSING TIME	●
Warning DISPLAY	●

● 230-400 V AC Triphase

### MODEL

FROG-MD • FROG-MS

Protection rating (IP)	67
Power supply (V - 50/60 Hz)	230-400 AC Triphase
Power supply to motor (V - 50/60 Hz)	230-400 AC Triphase
Draw (A)	2.5 Max.
Power (W)	600
Opening time at 95° (s)	45
Duty cycle (%)	50
Torque (Nm)	1000
Operating temperature (°C / °F)	-20 ÷ +55 / -4 ÷ +131
Motor's heat protection (°C / °F)	-

● 230-400 V AC Triphase

### LIMITS TO USE (MAXIMUM PASSAGE WIDTH)

<4 m <13 ft	<b>FROG-MD</b> 1,500 Kg 3,300 lb	<b>FROG-MS</b> 1,500 Kg 3,300 lb	6 m 20 ft	<b>FROG-MD</b> 800 Kg 1,770 lb	<b>FROG-MS</b> 800 Kg 1,770 lb
4 m 13 ft	<b>FROG-MD</b> 1,200 Kg 2,640 lb	<b>FROG-MS</b> 1,200 Kg 2,640 lb	7 m 23 ft	<b>FROG-MD</b> 700 Kg 1,550 lb	<b>FROG-MS</b> 700 Kg 1,550 lb
5 m 16 ft	<b>FROG-MD</b> 1,000 Kg 2,200 lb	<b>FROG-MS</b> 1,000 Kg 2,200 lb	8 m 26 ft	<b>FROG-MD</b> 600 Kg 1,330 lb	<b>FROG-MS</b> 600 Kg 1,330 lb

● 230-400 V AC Triphase

SOME VERSION MAY NOT BE AVAILABLE IN YOUR COUNTRY. FOR MORE INFORMATION PLEASE CHECK WITH YOUR LOCAL AUTHORIZED DEALER.

Official Partner



MILANO 2015  
FEEDING THE PLANET  
ENERGY FOR LIFE

© CAME SPA - KDEP#CEN26A3S114 - JAN 2014 - EN

Even partial reproduction is prohibited • Came reserves the right to make any changes to this document at any time



Came S.p.A.

Via Martiri della Libertà, 15  
Dossón di Casier  
Treviso - Italy

www.came.com

Came is a company of  
**CAMEGROUP**