



NEW
FROG-X
SWING GATE
OPERATOR

THE ULTIMATE
UNDERGROUND
MOTOR, REINVENTED

CAME 

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FROG-X: REINVENTING A CLASSIC

OUR NEW DIGITALLY CONTROLLED BRUSHLESS UNDERGROUND OPERATOR

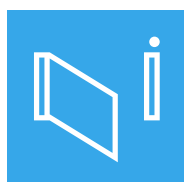
Introducing FROG-X, the revolutionary swing gate operator with a cutting-edge digital brushless motor, setting a new standard in gate automation. Designed to provide unmatched reliability, efficiency, and control, FROG-X combines advanced technology with sleek aesthetics to deliver a gate operator that surpasses all expectations.

Whether you're securing your residential property or managing access to a commercial facility, FROG-X ensures seamless operation, enhanced safety features, and effortless control, making it the ultimate solution for automated swing gate systems.

Experience the future of gate automation with the FROG-X and unlock a world of convenience and security.



FROG-X is the ideal underground motor for automating swing gates in residential and industrial settings. Fast, silent, invisible.



INTRODUCING FROG-X

- FAST AND SILENT**
 24V brushless motor with speed up to 10 seconds for 90° opening
- POWERFUL AND RELIABLE**
 For gate leaves up to 4 meters and 400 kg, with MCBF 250,000 cycles, ideal for both residential and industrial settings.
- STRESS-RESISTANT**
 All-metal frame and gears made of hardened and tempered carbon steel, and high quality steel gate leaf support pin.
- WEATHER RESISTANT**
 Aluminium motor casing with IP67 protection rating.
- ADVANCED ELECTRONICS**
 Control panel with smart configuration through CAME KEY and advanced functions
- COMPATIBLE WITH FOUNDATION BOXES OF PREVIOUS MODELS**
 It can also be installed in conjunction with existing FROG foundation boxes.

A BRUSHLESS MOTOR TESTED TO WITHSTAND THE ELEMENTS

FROG-X was developed with the goal of achieving a universal motor capable of operating under any conditions.

The absence of brushes ensures silent operation and reliability over time because there are no components subject to wear and tear.

In addition, the motor is equipped with the innovative star coupling for connection to the worm screw, specially designed to increase the system's efficiency.

The motor and each of its components have undergone rigorous testing to ensure that all parameters are met: in CAME's Central Laboratory, FROG-X has continuously performed thousands of operations to certify an incredible **MCBF of 250,000 cycles**.



By way of comparison:

The FROG-A24 can operate 27 times a day, every day, for 10 years before failure.

The FROG-X at 250,000 MCBF can operate 68 times every day for 10 years.

That's an incredible 2.5 times better!

FAST & QUIET OPERATION

Thanks to a maximum torque of **300 Nm**, the motor moves gate leaves up to **4 meters in length** and **400 kg** in weight taking only **10 seconds** to open them to 90°.

Frog-X operates almost silently thanks to its brushless motor.



Watch the Frog-X compared to the previous Frog.



Listen to the Frog-X compared to the previous Frog.

Frog-X opens in 10 seconds



Frog opens in 18 seconds

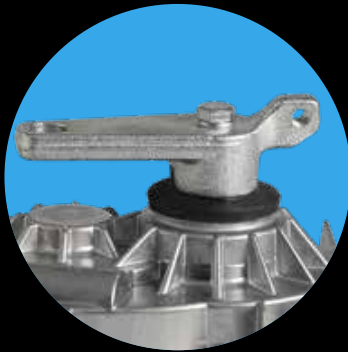
FROG-X

THE OPERATOR



FROG-X represents the evolution of the historic FROG motor while inheriting its inimitable qualities that have made it the underground motor par excellence.

In addition, Brushless technology ensures exceptional reliability and extends the average life of the system significantly, while making FROG-X virtually free from malfunctions.



New motor arm attachment to the shaft for easier disassembly.



New DIN key release with improved mechanics that ensures smoother operation and eliminates the risk of malfunction.



NEW 180° OPENING ACCESSORY

With gear transmission for smoother gate leaf movement.

The pin and gears are specifically designed to withstand high speeds and high loads to open gates up to 3.5 meters in length and 400 kg in weight.

THE NEW FOUNDATION BOX

The FROG-X foundation box been developed to meet the highest weather resistance standards and the most extreme environmental conditions.

Certified with IP67 protection rating against water and dust penetration, it is compatible with all motors in the FROG series, and is also equipped with 4 slots for lateral fastening.

The gate leaf support pin is made entirely of high-quality steel and is secured by special reinforced welding that provides exceptional resistance to stress, torsion and wear.

To ensure a secure and stationary placement while cementing, the casing now features a set of additional mounting points, enabling the box to be securely bolted onto the gate post.



Hardened and tempered carbon steel
slow-moving crown gear

Permanent
grease lubrication

Star coupling for connection
between the motor and the worm gear



Perimeter
seal

Brushless
motor

Steel
gears

IP67 die-cast aluminium
enclosures

IP67 watertight power
connection

ADAPTIVE SPEED & TORQUE

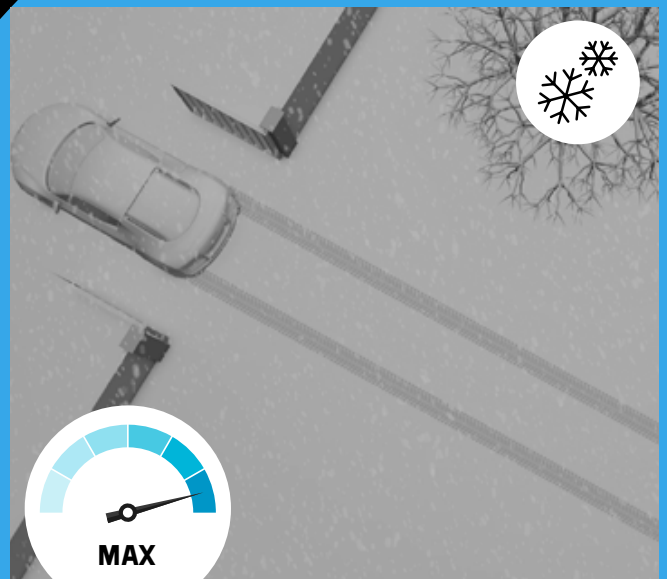
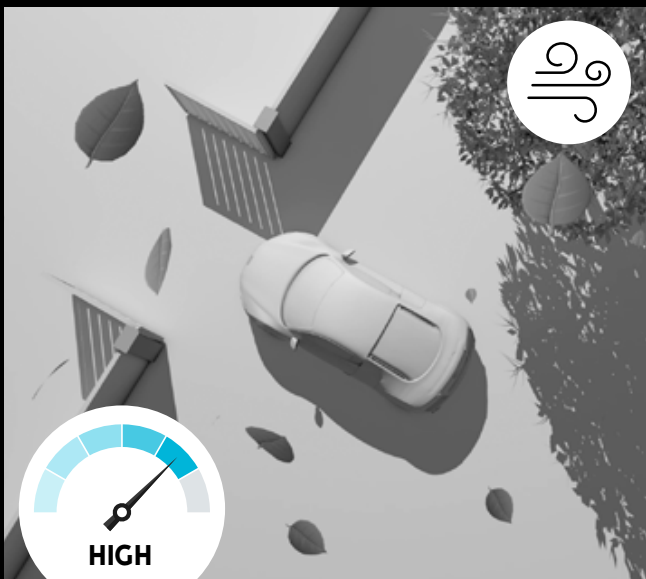
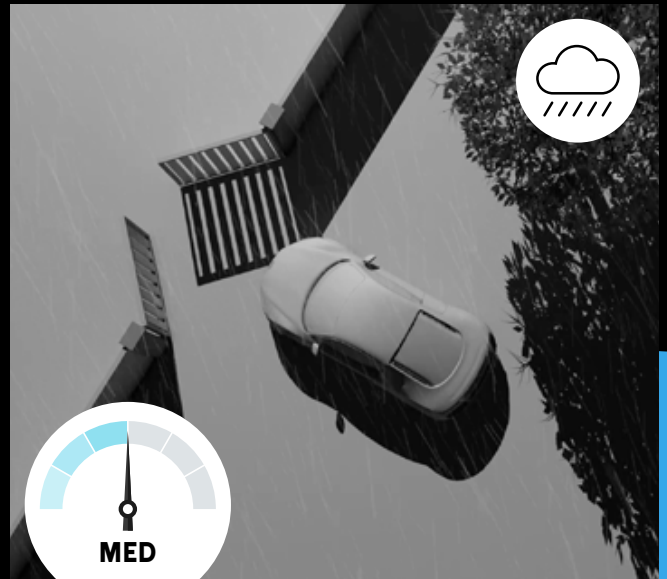
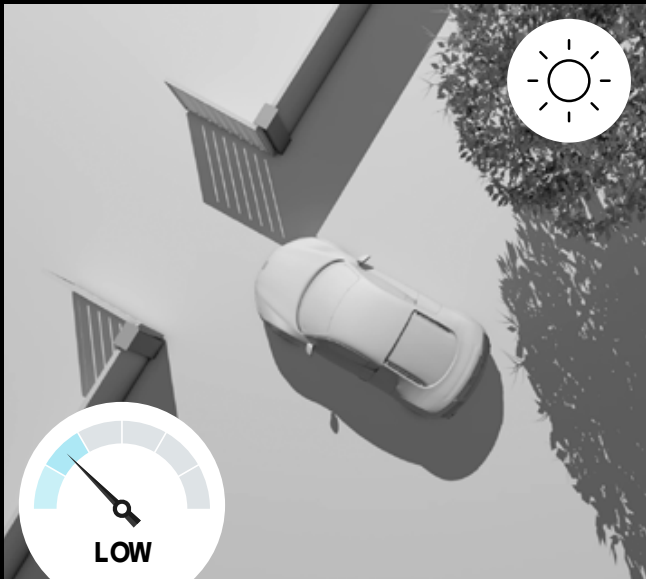
CONSTANT SPEED CONTROL & ADAPTIVE POWER TO MEET CHANGING CONDITIONS

The ZLB24-SA control panel monitors the motor speed, acceleration and deceleration phases, alongside the absorbed current, to allow automated adjustments to be made.

The adaptive torque system constantly evaluates gate weight and friction to detect obstacles and to keep the speed at the pre-set level.

PERFECT OPERATION THROUGHOUT THE WHOLE YEAR

The continuous torque adaptation allows the motor to always be updating to possible friction variations and to perform consistently in every operation, during changing weather conditions.



Where the conditions are mild, the control board will provide the minimum torque. As conditions become more challenging, the board will detect this and provide more torque to compensate.

COMPATIBLE WITH AMAZON ALEXA

Thanks to the optional Wi-Fi gateway that can be plugged directly onto the ZLB24-SA electronic board, FROG-X can connect to any router to enable remote management.

In addition to the Automation App that enables users to control the automation from a smartphone, it is also possible to use Amazon Alexa voice commands, to open and close the gate, stop it, or know its status.



INTRODUCING KRX BUS

KRX makes traditional flashing lights smarter. No longer a simple warning system, KRX BUS lets you control and monitor your Frog-X automation directly from your smartphone.

KRX is a new range of flashing lights for entrance automation and control systems, consisting of three models – standard, KRX BUS and KRX CONNECT. They are versatile and perfectly suited to any installation type, from private homes to apartment buildings and industrial complexes, with a modern, streamlined design.



By using the Setup App it is possible to customise your KRX BUS or KRX CONNECT with any different RGB colour.

For example, you could have a **Green** flashing light when the Frog-X performs the opening operation, and **Red** during the closing operation.

KRX CONNECT can also be configured in Bluetooth mode, allowing the control of the Frog-X via smartphone for up to 50 different users.



BLUETOOTH SELECTOR & FROG-X

FOR USE WITH THE ENTIRE RANGE OF FROG-X OPERATORS



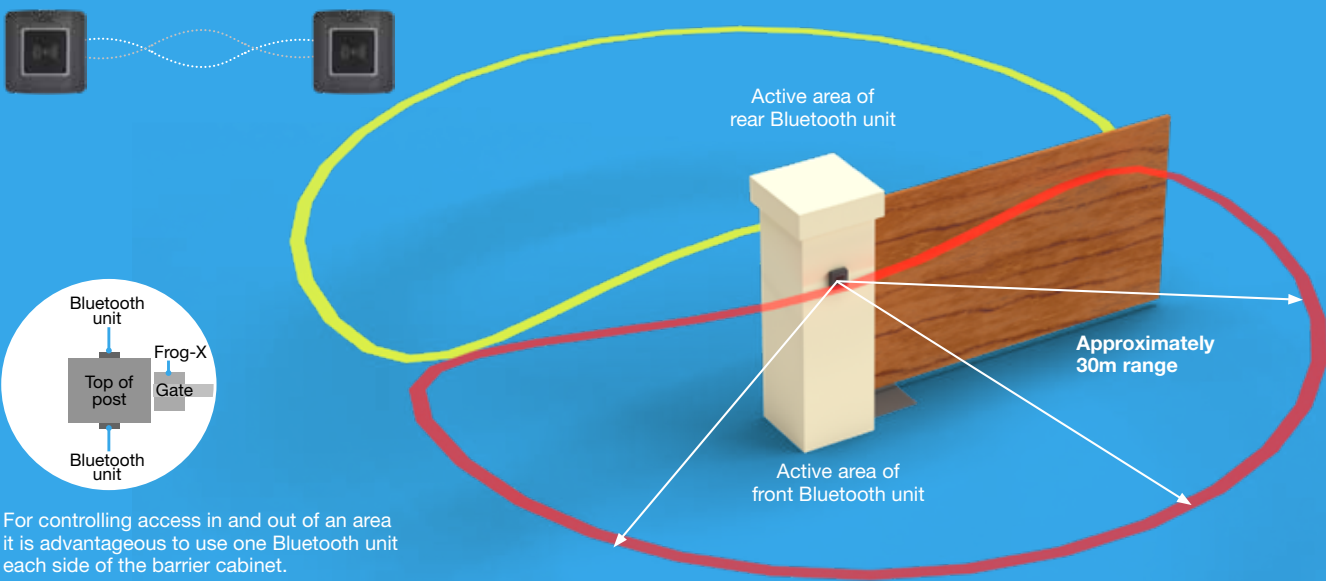
SEL BT uses Bluetooth technology within your smartphone to automatically open your barrier when you arrive within a specified distance of the Bluetooth selector.

All you need to do is download the Automation BT App, pair the devices and you'll have instant hands free access to your property.

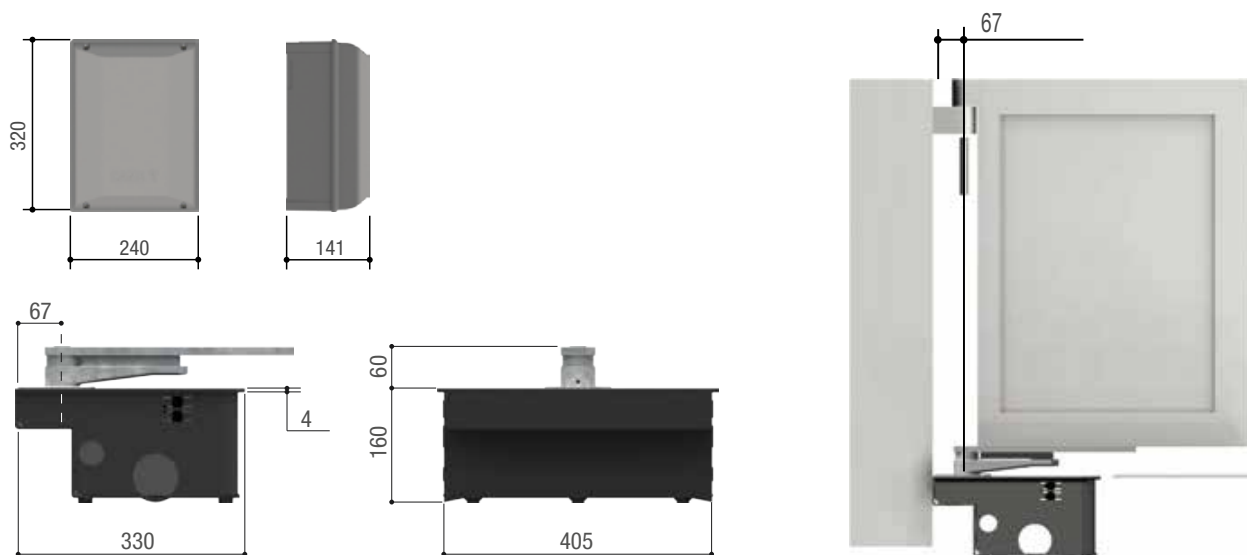
DOWNLOAD THE AUTOMATION BT APP

ANDROID APP ON  Google play Available on the iPhone  App Store 

WHY NOT INSTALL A PAIR? SAVE MONEY, AND INCREASE THE ACTIVATION RANGE...



FROG-X DIMENSIONS



TECHNICAL SPECIFICATIONS

MODEL CODE	801MI-0020				
Max. leaf width (m)	4	3.5	3	2.5	2
Max leaf weight (Kg)	400	500	600	700	800
Protection rating (IP)	67				
Power supply (V - 50/60Hz)	24				
Motor power supply (V DC)	24				
Max current draw (mA)	15				
Power (W)	125				
Torque (Nm)	300				
Opening time at 90° (s)	10 to 18				
Cycles/hour	CONTINUOUS SERVICE				
Operating temperature (°C)	-20 to +55				



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All list prices are IE (€) excluding VAT.



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