PRODUCTS

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. operators

F1000 Self-locking operator with articulated transmission arm.
F1100 Reversible operator with articulated transmission arm.

230V A.C. control boards and ABS casings

ZF1 Basic control board for 2 gate leaves fitted to take Came radio cards.
ZA4 Basic control board for 2 gate leaves fitted to take Came radio cards. (AF30-AF40 excluded).
ZA5 Control board for 1 gate leaf fitted to take Came radio cards. (AF30-AF40 excluded).
ZA3 Plus control board for 2 gate leaves fitted to take Came radio cards.
ZM2 Multifunction control board for 2 gate leaves with safety device self-diagnosis, fitted to take Came radio cards.
S4339 ABS casing with transformer. Dimensions L 197 x D 110 x H 290 mm.
S4340 ABS casing with transformer. Dimensions L 240 x D 145 x H 320 mm.

24V D.C. operator and control panels EN12445 - EN12453 tested

F1024 Self-locking operator with articulated transmission arm.
ZL170N Control panel for one-leaf swing gates with radio decoding.
ZL19N Control panel for two-leaf swing gates with radio decoding.

Accessories

F1001 Straight telescopic transmission arm (max 2 m each wing).
LB18 Card for connecting three 12V – 7Ah emergency batteries, with ABS casing.
LOCK81 Electric lock 12V A.C. - D.C. single cylinder.
LOCK82 Electric lock 12V A.C. - D.C. double cylinder.
H3000 Cord-operated release mechanism (length 5 m) complete with protective casing.

Technical features

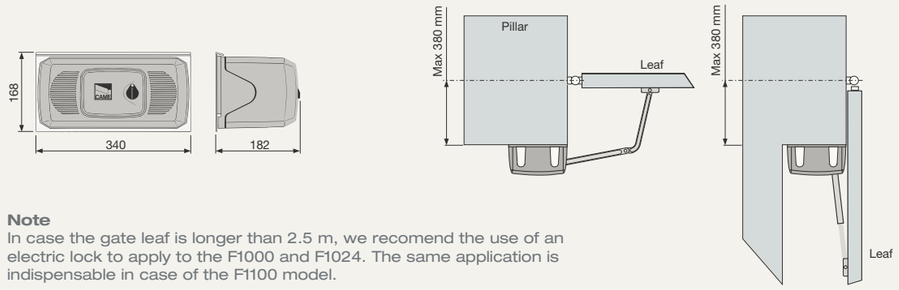
Types	F1000	F1100	F1024
Protection rating	IP54	IP54	IP54
Control panel power supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz
Motor power supply (V)	230 A.C. 50/60 Hz	230 A.C. 50/60 Hz	24 D.C.
Current draw (A)	1,3	1	15 max
Max power (W)	150	110	180
Opening time 90° (s)	18	18	16 ÷ 45
Duty cycle (%)	30	50	intensive use
Max torque (Nm)	320	380	470
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55

230V A.C. 24V D.C.

Limits to use

Types	F1000 - F1100 - F1024		
Max gate leaf width (m)	2	2,5	4
Max gate leaf weight (Kg)	800	600	400

Dimensions



Note
In case the gate leaf is longer than 2.5 m, we recomend the use of an electric lock to apply to the F1000 and F1024. The same application is indispensable in case of the F1100 model.

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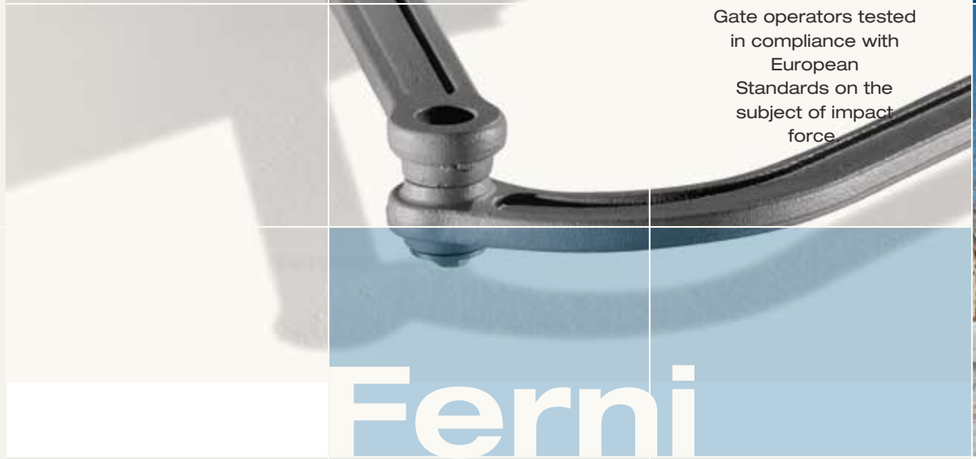
EN TESTED

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



Ferni

External operators for swing gates of up to 4 m per gate leaf

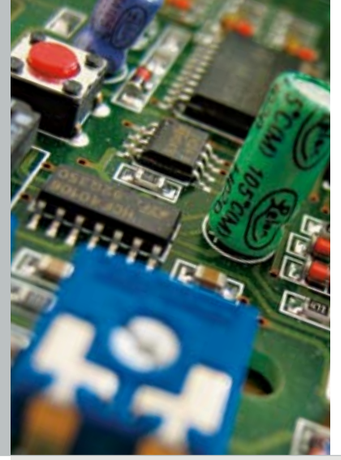
The best in terms of versatility and power

Ferni is the specific solution for swing gates installed on large pillars. Its unique transmission lever, provides a simple and effective solution to the movement issues related to such gates.

A universal solution in three models

Ferni
230V 24V

The sturdy and powerful operator featuring an articulated arm for swing gates with gates leaves of up to 4 m in length.
A system which enables gate automation when the dimensions of a pillar prevent any other operator from being installed.
Ferni is also available in the 24V version for more intensive duty.



The 230V electronics

Ferni's new, 230V A.C. electronics provides specific command and safety features, which are standard in the basic version. However, when cutting-edge technological performance is required in terms of duty and safety, additional control boards are available. Here are some examples:

> **System's active safety-devices test**
prior to each gate operation, whether opening or closing.

> **Pedestrian or partial opening**
So that only one gate leaf will open, or partially open, to allow pedestrian access.

> **Total control of the door from the transmitter**
which also includes the possibility of immediately stopping the gate's movement.

Practical and safe.
The gearmotor release, protected by door and lock enables the manual opening of the gate during a power outage.

True comfort.
The electronics of the 24V version may be fitted with a device that, during a power outage, activates the emergency operating mode by using auxiliary batteries.

EN12445 - EN12453 compliant.
The ZL19N and ZL170N constantly control the gate leaf movement by means of an encoder and allow for a safe thrust in compliance with the European standards.

Precise, sturdy and dependable.
Ferni features micro-switches for adjusting the opening of the gate leaves and is made of long-wearing materials that do not require periodic maintenance.

Large sized Pillars.
Ferni is the optimal solution for gates with leaves of up to 4 m, mounted on pillars where the motor-hinge centre distance can be quite large (up to 38 cm).

Designed to withstand anything.
The high grade of sturdiness of all of the inner and outer components, make Ferni suitable for any application contexts, even the most demanding.

The articulated arm.
It is ideally applied to gates with large sized pillars and when gate leaves are installed on the outer side of the pillar. Also available is the "slide" version, to install where little lateral space is available.

24V Ferni is EN TESTED

When absolute comfort, in terms of performance and safety, is required, Ferni's 24V technology enables the operator to reach its full potential, meaning:

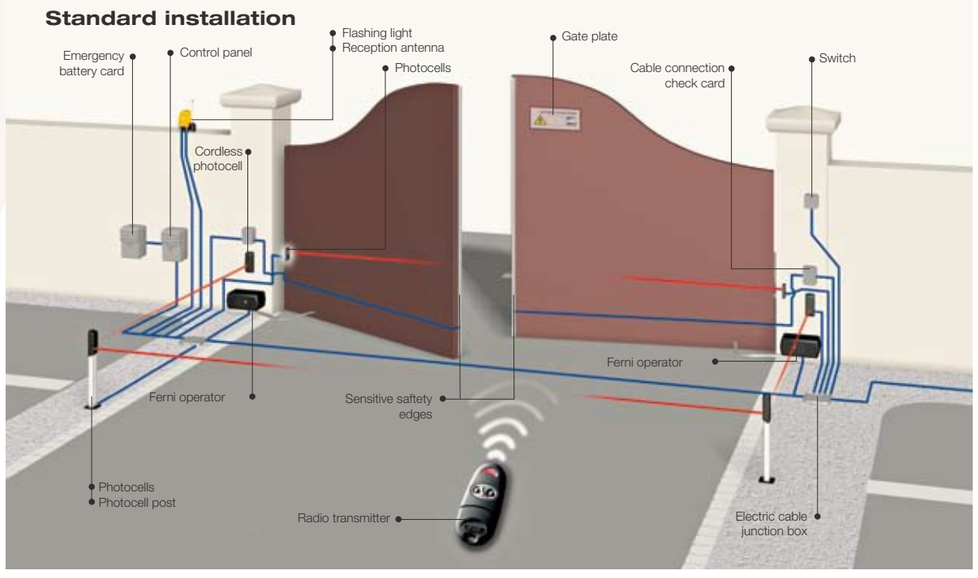
> **Controlled impact forces**
Thanks to laboratory testing carried out on a gate sample, 24V Ferni is European standard EN12445 and EN12453 compliant, in terms of impact forces.

> **Blackouts no more**
Ferni's 24V electronics automatically detects any interruption of power supply and activates the emergency back-up auxiliary batteries, so that the gate will always open and close.

> **Intensive use and frequent passages**
The low-voltage motor guarantees functioning even in the harshest conditions such as apartment blocks or industrial applications. The manoevring speed is adjustable allowing a silent and soft closing of the gate leaves.

> **Obstacle detection**
A special electronic circuit constantly analyses the proper functioning of the gate leaves, and will either stop or invert the mode, if it comes 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 becomes indispensable.
In the event of panel gates, and very windy conditions, we suggest installing the 230V version.

CAME
AUTOMATIC GATES