



FERNI

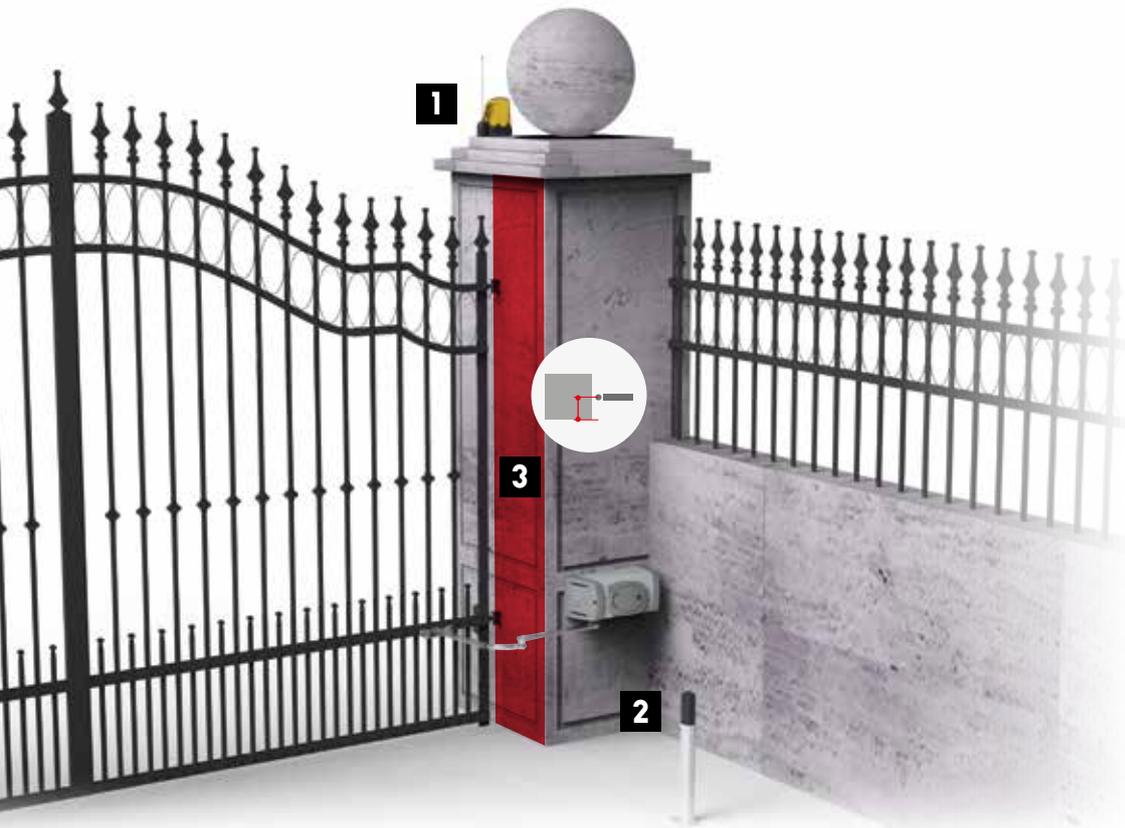
**IDEAL FOR
FITTING ONTO
LARGE GATE
POSTS.**

Gate leaves
of up to 4 m

CAME

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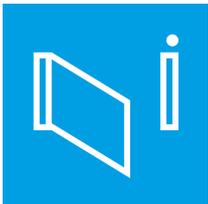
1
LED flashing light
low consumption

2
Inside photocell

3
C Max. Distance
between the post's
inside surface
and the gate's
rotating axis

VERSATILE ON LARGE GATE POSTS.

FERNI it is easy to apply to single gate leaves measuring up to 4 m (13 ft), onto large gate posts, where the centre distance between the front of the post and the gate's hinge may be considerable, even up to 30 cm (1.5 in).



THE ADVANTAGES OF CAME'S **FERNI**

- Innovative design for a product engineered and built to meet market needs.
- Sleek, solid, modern, anodized aluminum casing.
- The standard, folding drive arm can be replaced by the straight drive arm when lack of space is an issue.
- Easy to reach release hatch.
- Highly resistant to weathering.
- Made to be easily installed and connected it also features versatile limit-switches.
- A version with 18 seconds of maneuvering time is also available.

24 VOLT VERSION

- Both the **24 V DC** and the **230 V AC** models are EN tested and have encoder controlled electronics.



THE "DOUBLE FACE" OPERATOR

Exclusive limit-switch "double face" system to make installation and settings even more practical and user-friendly. Depending on where the gearmotor is fitted (onto the right or left post), the grouping of micro-switches can then be fitted in the most suitable position.

SIMPLY PRACTICAL

No masonry work or removal of gate leaf needed when mounting; it perfectly adapts to installation needs. A jointed arm is standard issue, but a special straight arm is also available for installing when walls or fences are very close to the gate.

TOTAL CONTROL

- Safe control of the gate leaf movement and of the slow-down phases with encoder technology that precisely detects any obstruction in the gate leaf's path.
- Self-diagnosis of the safety devices, such as the photocells, before the gate even moves.

SIMPLIFIED INSTALLATION

The utter versatility and special characteristics of this operator make each phase of professional installers much easier, user-friendly, accurate, especially when retrofitting.

- One single four-conductor cable to manage the power supply and slow-downs.
- Memorizes transmitters with different codes (up to 250 users).
- The control panel features a feature programming display, where foresee.

FERNI TECHNOLOGY



GUARANTEED 24 VOLTS

The 24 V DC gearmotors are designed for intensive duty and are guaranteed to work even during power outages. This icon also means that a product is powered by low voltage.



EN TESTED SAFETY

This operator is tested in conformity with European Standards on impact forces.



CAME CONNECT

This product can be remotely controlled via CAME Connect Cloud-technology.



ENCODER

Gearmotor or operator with Encoder.

READ UP AT CAME.COM ABOUT THE FULL RANGE OF CAME OPERATORS AND ACCESSORIES



TRANSMITTERS



PHOTOCELLS



KEY-SWITCH
SELECTOR



12 KEYPAD
SELECTOR

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.

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CAME AUTOMATED OPERATORS AND ACCESS CONTROL

SLIDING GATE OPERATORS



SWING GATE OPERATORS



AUTOMATED OPERATORS FOR SECTIONAL AND GARAGE DOORS



AUTOMATIC STREET BARRIERS



OPERATORS FOR INDUSTRIAL ENTRANCES



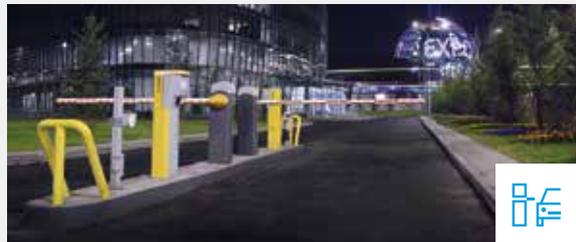
AUTOMATED OPERATORS FOR ROLLER SHUTTERS



AUTOMATIC TURNSTILES AND ACCESS CONTROL



AUTOMATIC PARKING SYSTEMS



ACCESSORIES



COMPLETE SYSTEMS



CUSTOM ELECTRONICS TO MEET YOUR NEEDS!

FERNI is available with motor at 230 V AC and 24 V DC versions.

The table shows the main characteristics of the control panels, matched to the gearmotors.

CONTROL BOARD / CONTROL PANEL

| | ZA3P | ZM3E | ZLJ24 | ZLJ14 |
|---|------|------|-------|-------|
| SAFETY | | | | |
| SELF-DIAGNOSING safety decives | ■ | ■ | ■ | ■ |
| PRE-FLASHING when opening and closing | ■ | ■ | ■ | ■ |
| REOPENING during closing | ■ | ■ | ■ | ■ |
| RECLOSING during opening | ■ | ■ | ■ | ■ |
| Obstruction WAIT | | ■ | ■ | ■ |
| TOTAL STOP | ■ | ■ | ■ | ■ |
| PARTIAL STOP | ■ | ■ | ■ | ■ |
| OBSTRUCTION DETECTION in front of photocells | ■ | ■ | ■ | ■ |
| ENCODER | | ■ | ■ | ■ |
| MOVEMENT CONTROLLING and OBSTRUCTION DETECTING device | | ■ | ■ | ■ |
| AMPEROMETRIC DETECTION | | | ■ | ■ |
| COMMAND | | | | |
| PEDESTRIAN OPENING 1 leaf | | ■ | ■ | ■ |
| PARTIAL OPENING 1 leaf | ■ | ■ | ■ | ■ |
| OPEN ONLY from transmitter and/or from button | ■ | ■ | ■ | ■ |
| ONLY OPEN or ONLY CLOSE button connection | ■ | ■ | ■ | ■ |
| OPEN-STOP-CLOSE-STOP from the transmitter and/or button | ■ | ■ | ■ | ■ |
| OPEN-CLOSE-INVERT from the transmitter and/or button | ■ | ■ | ■ | ■ |
| MAINTAINED ACTION from button | ■ | ■ | ■ | ■ |
| DELAYED OPENING 1st leaf | ■ | ■ | ■ | |
| DELAYED OPENING 2nd leaf | ■ | ■ | ■ | |
| CHARACTERISTICS | | | | |
| FLASHING LIGHT connection | ■ | ■ | ■ | ■ |
| CYCLE LIGHT connection | ■ | ■ | ■ | ■ |
| COURTESY LIGHT connection | ■ | ■ | ■ | ■ |
| Antenna connection | ■ | ■ | ■ | ■ |
| OPEN ALERT LIGHT connection | ■ | ■ | ■ | ■ |
| Contact output for 2nd RADIO CHANNEL | ■ | ■ | ■ | ■ |
| OPERATING TIME adjusting | ■ | ■ | ■ | ■ |
| SELF-LEARNING of the transmitter's RADIO CODE | ■ | ■ | ■ | ■ |
| Connection for the ELECTRIC LOCK and/or RAMMING | ■ | ■ | ■ | ■ |
| Adjustable AUTOMATIC RECLOSING TIME | ■ | ■ | ■ | ■ |
| OPENING and/or CLOSING slow downs | ■ | ■ | ■ | ■ |
| EMERGENCY BATTERY operation (optional) | | | ■ | ■ |
| TRAVEL and SLOW DOWN SPEEDS adjustable* | ■ | ■ | ■ | ■ |
| DISPLAY | | ■ | ■ | ■ |
| Self-learning of the opening and closing gate-travel | | ■ | ■ | ■ |
| CAME Connect | | ■ | ■ | |
| Designed to fit RIO System 2.0 | | | | |
| CRP control | | ■ | ■ | |
| ENERGY SAVINGS control (001RGP1) | | | | |

NOTES: * 002ZA3P, 002ZM3E only slow-down speed.

■ 230 V AC ■ 24 V DC

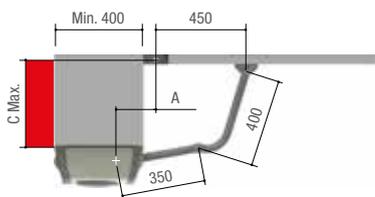
FERNI TECHNOLOGY

| |  |  |  |  |
|----------------|---|---|---|---|
| PRODUCT | | | | |
| FE40230V | | | ■ | |
| ZM3E | | | | ■ |
| FE40230 | | ■ | ■ | |
| ZM3E | | ■ | | ■ |
| FE4024 | ■ | ■ | ■ | |
| FE4024V | ■ | ■ | ■ | |
| ZLJ14 | ■ | ■ | | |
| ZLJ24 | ■ | ■ | | ■ |
| LB90 | ■ | | | |
| LB180 | ■ | | | |

The table here above, shows **only** products associated to the mentioned **CAME technologies**. All other range products are listed on the General Catalogue.

002LB90 - 002LB180 - Two 12 V - 7 Ah batteries (not supplied), on the 001FE4024 and the 001FE4024V fit a suitable, external battery rack. WARNING: 001FE40230V + 002ZM3E are not tested in compliance with standards EN12453 - EN 12445.

DIMENSIONS (MM)



APPLICATION DIMENSION (MM)

| MODELS | FE40230 · FE40230V · FE4024 · FE4024V | | |
|------------------|---------------------------------------|--------|--|
| LEAF OPENING (°) | A | C Max. | |
| 90 | 110 | 300 | |
| 90 | 150 | 380 | |

OPERATING LIMITS

| MODELS | FE40230 · FE40230V · FE4024 · FE4024V | | | | | |
|--------------------------|---------------------------------------|-------|-----|-------|-----|---|
| Max. width of leaf (m) | 4 * | 3,5 * | 3 | 2,5 * | 2 | - |
| Max. weight of leaf (kg) | 400 | 450 | 500 | 600 | 800 | - |

| MODELS | FE40230 · FE4024 (with the 001FERNI-BDX and the 001FERNI-BSX drive arm) | | | | | |
|--------------------------|---|---|---|-------|-----|-----|
| Max. width of leaf (m) | - | - | - | 2,5 * | 2 | 1,5 |
| Max. weight of leaf (kg) | - | - | - | 300 | 500 | 500 |

NOTES: * It is obligatory to fit an electric lock on the gate leaf.

TECHNICAL CHARACTERISTICS

| MODELS | FE40230 | FE40230V | FE4024 | FE4024V |
|------------------------------|-----------------|-----------------|------------|------------|
| Protection rating (IP) | 44 | 44 | 44 | 44 |
| Power supply (V - 50/60 Hz) | 230 AC | 230 AC | - | - |
| Power supply to motor (V) | 230 AC 50/60 Hz | 230 AC 50/60 Hz | 24 DC | 24 DC |
| Absorption (A) | 1,2 | 1,3 | 7 Max. | 5 Max. |
| Power (W) | 140 | 150 | 130 | 150 |
| Maneuvering time at 90° (s) | 34 | 18 | ADJUSTABLE | ADJUSTABLE |
| Duty/cycle (%) | 30 | 30 | HEAVY-DUTY | HEAVY-DUTY |
| Torque (Nm) | 540 | 320 | 360 | 360 |
| Operating temperature (°C) | -20 ÷ +55 | -20 ÷ +55 | -20 ÷ +55 | -20 ÷ +55 |
| Motor's heat protection (°C) | 150 | 150 | - | - |

■ 230 V AC ■ 24 V DC



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UNI EN ISO 9001
UNI EN ISO 14001
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CAME

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