

# 770 - 24 Vdc

## **underground electro-mechanical operator**

**for residential swing-leaf gates with single-leaf length of 2.5 m and max weight of 500 kg**



### **A NEW TECHNOLOGICAL THRESHOLD**

The FAAC underground system is the new way of opening and closing residential gates with leaves of up to 2.5 metres in length. As it is completely invisible, it does not change the appearance of the gate.

### **TOTAL EFFICIENCY**

The FAAC 770 model design includes a casing to house automated systems for gates of up to 500 kg per leaf, making installation simple. Corrosion-proof coating highly resistant to atmospheric agents, absolute weather-proofing, operator in protection class IP 67: all these are plus points in addition to the undoubted advantages of long-life and safety assured by FAAC's electro-mechanical technology.

### **EASY PROGRAMMING: SELF-LEARNING**

To "initialise" the automated system, just carry out the SETUP operation, selecting a suitable dipswitch. The following parameters are automatically self-learned during this operation:

- Opening/closing times
- Pause time
- Traction/thrust force
- Deceleration at end of opening and closing
- Soft Start (starting at gradual speed)

### **SAFETY: ANTI-CRUSHING ELECTRONIC DEVICE**

Continuously controlled electronic clutch, active at both opening and closing

- Two sensitivity levels
- Movement reversed in case of an obstacle
- Emergency stop function (if clutch operates for two consecutive cycles)

### **BLACK OUT: EMERGENCY OPERATION**

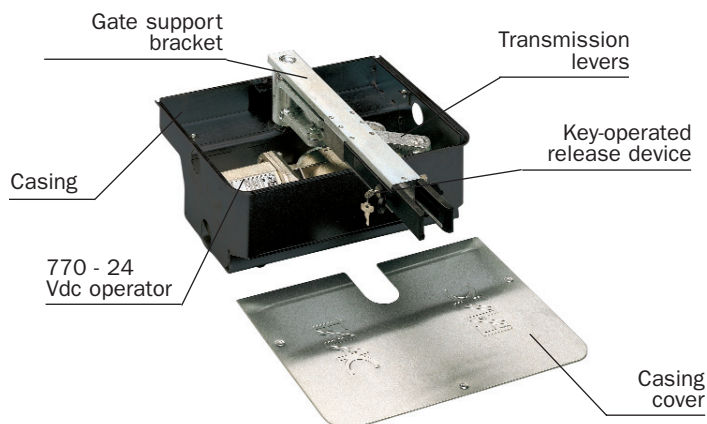
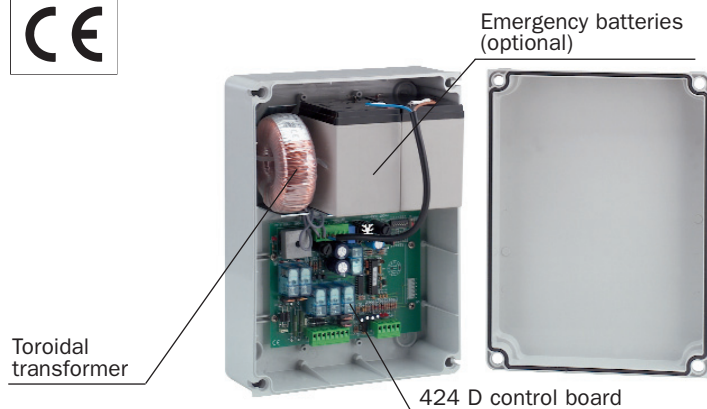
Emergency battery (optional) ensuring operation during a power cut (15 cycles max)

### **SPECIFICATIONS**

**Electro-mechanical operator**, low voltage, non reversing, concealed, for swing gates • Leaf max length 2.5 m and max weight 500 kg • Max use frequency 50 cycles/hour • Underground installation • Leaf opening inwards or outwards • Max opening angle 110° or 140° (with optional kit) • Electric motor power supply 24 Vdc • Thermal protection at 140°C built into motor winding • Protection class IP67 • Operating ambient temperature -20°C ÷ +55°C • Operator body with corrosion proof treatment • Motion transmission levers • Leaf deceleration by unequal levers • Grease lubrication • Self-learning of: Opening/closing times - Pause time - Traction/thrust force - Travel limit deceleration • Soft Start (starting at gradual speed) • Emergency battery (optional)

### **Casing**

Casing in steel with cataphoresis treatment • Cover in stainless steel • Leaf support bracket with key-operated lever release system • Overall dimensions 430x308x156 mm (LxWxH)



Model	Use			
	Single leaf max length (m)	Single leaf max weight (kg)	Nr. of leaves	Use frequency (cycles/hour)
770	2,50	500	1	50

Technical specifications	770 - 24 Vdc
Power supply	24 Vdc
Thermal protection on motor winding	140°C
Motor rotation speed	1450 rpm
Pinion angular velocity	6°/s
Operating ambient temperature	-20°C ÷ +55°C
Weight	14 kg
Leaf opening max angle	110° (140° with optional kit)
Deceleration	by unequal levers
Protection class	IP 67

Specifications of 424 D control board	
Supply voltage of transformer	230 Vac (+6% - 10%) 50 Hz
Supply voltage of control unit	24 Vac (+6% - 10%) 50 (60) Hz
Absorbed power	3 W
Motor max load	2 x 70 W
Accessories max load	24 Vdc 500 mA
Flashing lamp/Courtesy light max. load	24 Vdc 15 W max
Operating ambient temperature	-20°C ÷ +55°C
Protection fuses	4
Function logics	Automatic/Stepped automatic/Semiautomatic/Stepped semiautomatic/Condo type
Thrust force	Four levels adjustable on display
Opening/closing time	Through self-learning during programming
Pause time	Through self-learning during programming
Leaf delay	2 levels
Deceleration	Opening/closing
Enclosure dimensions	305x225x125 mm
Protection class	IP 55

**Terminal board inputs**  
Power supply 24 Vac/Battery supply/Encoder/Total opening/Pedestrian opening/Opening-closing safety devices/Stop/Opening-closing limit-switch

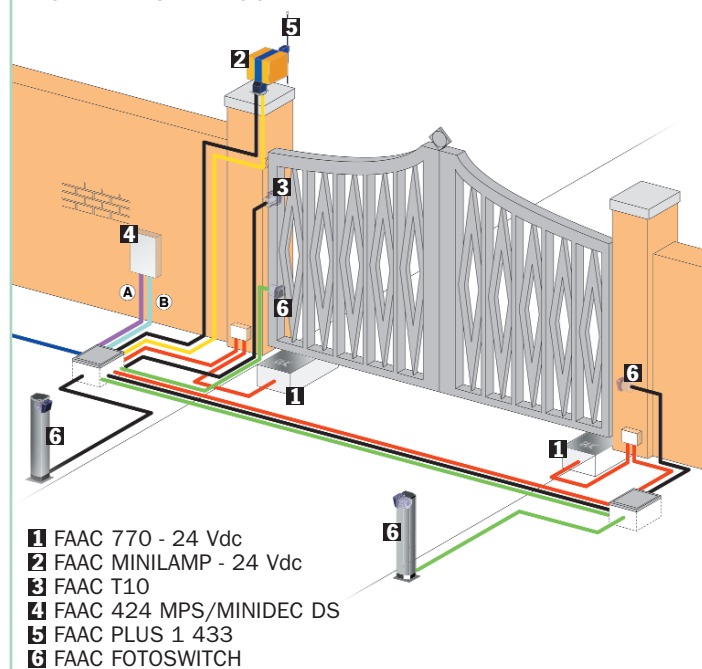
**Terminal board outputs**  
24 Vdc power supply to accessories/24 Vdc motors/24 Vdc courtesy light-flashing lamp/12 Vdc/Vac Electric lock

**Rapid connector**  
Card receivers/Decoding cards

Emergency batteries (optional)	
Voltage/current	2 x 12 V/4 Ah
Dimensions	90 x 70 x 108 mm
Nr. of opening/closing operations	15 max

Technical specifications of casing	
• in steel with cataphoresis treatment	
• cover in stainless steel	
• Leaf support bracket with key-operated lever release system	

## INSTALLATION LAYOUT



Low voltage cabling	Power cabling (230V)
4 cables 3x0.5	2 cables 3x1.5+T
2 cables 2x0.5	1 cable 2x1.5+T
	1 cable 2x1.5

N.B: Cable diameters in mm<sup>2</sup>

## Dimensions

