

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

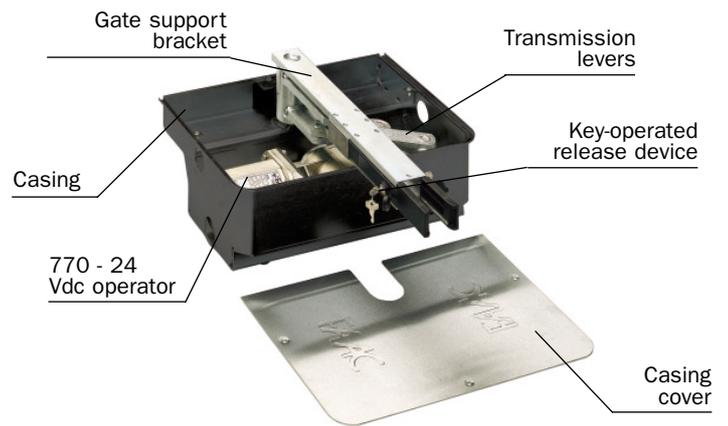
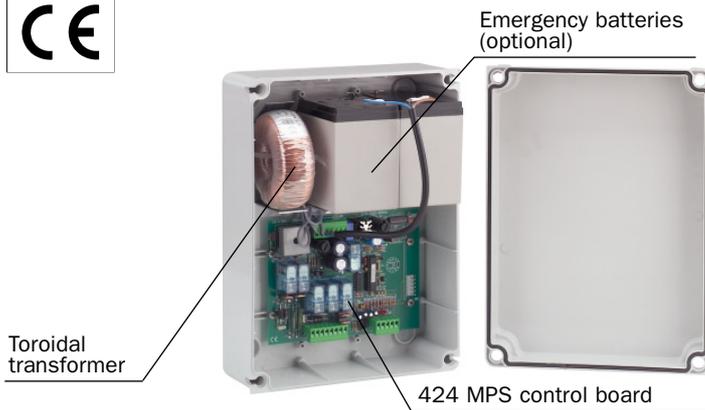
Emergency battery (optional) ensuring operation during a power cut (15 cycles max)

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

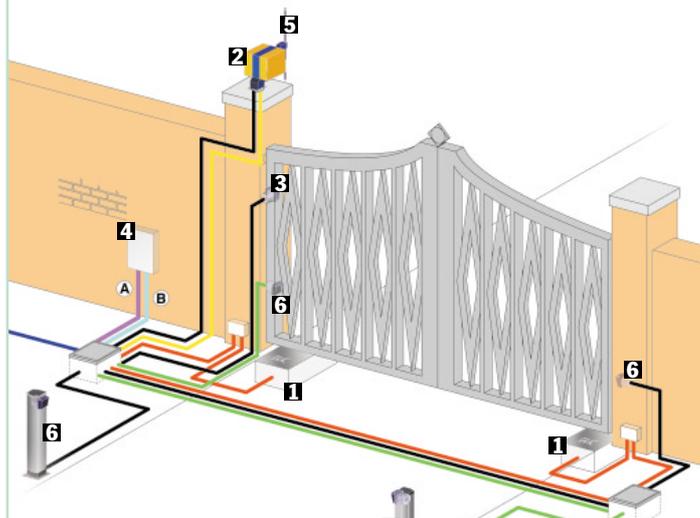
Casing in steel with cataphoresis treatment • Cover in stainless steel • Leaf support bracket with key-operated lever release system • Overall dimensions 430x308x156 mm (Length x Width x Height)



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

INSTALLATION DIAGRAM SPECIMEN



- 1 FAAC 770 - 24 Vdc
- 2 FAAC MINILAMP - 24 Vdc
- 3 FAAC T10
- 4 FAAC 424 MPS/MINIDEC DS
- 5 FAAC PLUS 433 E
- 6 FAAC FOTOSWITCH

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

N.B: Cable diameters in mm²

Specifications of 424 MPS control board

Power supply	22 Vac (+6% -10%) 50 (60) Hz
Absorbed power	3 W
Motors maximum load	2 x 70 W
Accessories max load	24 Vdc 500 mA
Flashing lamp max load	24 Vdc 15 W max
Operating ambient temperature	-20°C + 55°C
Protection fuses	3.15A/250V (logic/accessories output) 10 A/250V (motors)
Function logics	Automatic/ "Stepped" semi-automatic
Electronic clutch	Two levels (dip-switch selectable)
Opening/closing times	Self-learning
Pause times	Self-learning
Leaf opening delay	2 s
Leaf closing delay	4s/12s (dip-switch selectable)
Deceleration	At opening and closing (self-learning)
Transformer	Toroidal - 230 Vac/22 Vac - 150 VA
Enclosure dimensions	305 x 225 x 125 mm
Protection class	IP 55

Terminal board inputs

22Vac power supply / Batteries power supply / Total opening / Independent opening / Safety devices / Stop / System earth

Terminal board outputs

24 Vdc power supply for accessories / 24 Vdc motors / Electric lock / 24 Vdc flashing lamp

Rapid connector

Card receivers/Decoding cards

Emergency batteries (optional)	
Voltage/current	12 V/4,5 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	

Dimensions

