

## Electro-mechanical operator for residential swing-leaf gates with single-leaf max length of 1,8 m (2,5 m with electric lock)



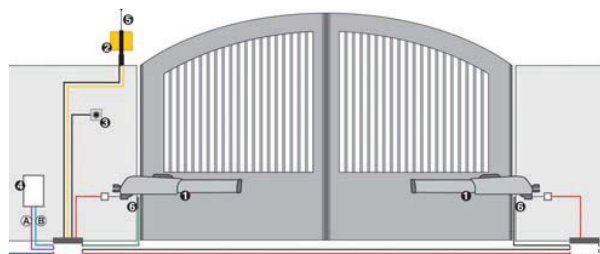
- "Off axis" thrust operator
- Integrated opening and closing mechanical stops (the travel limit mechanical stops need not be installed)
- Available in versions with/without a travel limit device
- Half bodies are coupled with a seal in pressure cast
- Die-cast aluminium body, entirely double-coat painted for longer life
- Manual release device with simplified key-protected activation
- 24Vdc power supply to travel limit devices (if present) for maximum safety, with facility for controlling travel limit stops slow-down
- Horizontal exit for cables to allow near to ground installation (low installation)
- Designed for use with the "Gatecoder" obstacle detection device.

### DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 413 - 413 LS

	413	413 LS		413	413 LS
Power supply	230 Vac		Leaf max. length (*)	2.5 m	
Power	250 W		Type and frequency of use at 20° C	S3 - 30%	S3 - 35%
Current	1.1 A		Indicative minimum hourly cycles at 20°C	~30	
Temperature protection	140° C		Operating ambient temperature	-20°C - +55°C	
Capacitor	6.3 µf		Weight of operator	6.5 kg	
Thrust	200 daN		Dimensions (L x D x H) in mm	785 x 105 x 148	
Rod stroke	300 mm (350 mm without mechanical stops)		Protection class	IP 44	
Rod extension speed	1.6 cm/sec		Travel limit microswitches	NO	YES
			Opening and closing mechanical stops	YES	

(\*) Use of the electric lock is recommended over 1.80 m

### EXAMPLE OF A TYPICAL INSTALLATION



- (A) Low voltage cabling
- 3 cables 3x0.5
  - 1 cable 2x0.5

- (B) Power cabling (230V)
- 2 cables 3x1.5+T
  - 1 cable 2x1.5+T
  - 1 cable 2x1.5

N.B: Cable diameters in mm

Ref. Qty	Description of material	Item code	Price (euro)	Kit
1 2	Operator 413	104413		> See
4 1	Control board 452 MPS	790916		> START
4 1	Enclosure mod. E	720119		kit
	1 Receiver 433 / 868			
	1 Transmitter 433 / 868			
2 1	Flashing lamp FAACLIGHT	410013		
6 1	Pair of photocells			
3 1	Key-operated push-button T10 E	401019001/36		

#### Notes

ATTENTION: The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation (Ref.: UNI-EN 12445 and 12453 European Standards).

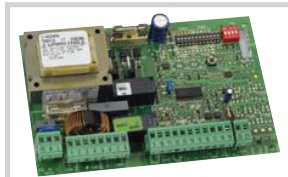
• The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.

413

Model	Use		Item code	Price (euro)
	Single-leaf max. length (m)	Use frequency (cycles/hour)		
413	1.80 (2.5 with electric lock)	30	104413	
413 LS	1.80 (2.5 with electric lock)	35	104414	

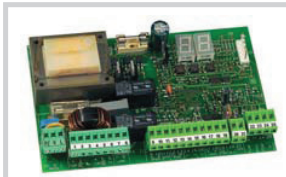
The package contains: an electro-mechanical operator, installation accessories, a releasekey, a thrust capacitor 6,3μF 400V.

**CONTROL UNIT FOR 413**



Control board 452 MPS  
Technical specifications see Electronics and Accessories

Item code 790916  
Price (euro)



Control board 455 D  
Technical specifications see Electronics and Accessories

Item code 790917  
Price (euro)



Enclosure mod. L for control boards

Item code 720118  
Price (euro)



Enclosure mod. E for control boards

Item code 720119  
Price (euro)



Enclosure mod. LM for control unit 750 or control board

Item code 720309  
Price (euro)

**SPECIFIC ACCESSORIES**



Plate for walling-in

Item code 737604  
Price (euro)



Gatecoder slow-down kit  
Technical specifications see Electronics and Accessories

Item code 104485  
Price (euro)

**Notes**

- For anti-crushing safety, use control units 452 MPS or 455 D, equipped with an electronic force control device.
- Control board 455D must be used to control operators with travel limit device/s (Mod.LS).

**OTHER ACCESSORIES**



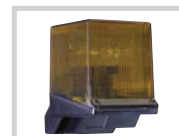
Key-operated push-buttons see Electronics and Accessories



Photocells and Columns see Electronics and Accessories



Safety devices see Electronics and Accessories



Flashing lamps see Electronics and Accessories



Transmitters see Electronics and Accessories



Various accessories see Electronics and Accessories