

# Electro-mechanical operator

for residential swing-leaf gates with single-leaf max width of 1.8 m (2.5 m with electric lock)



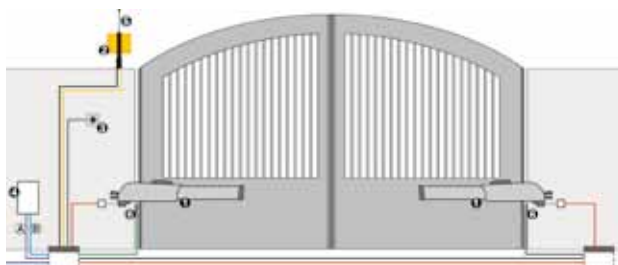
- "Off axis" thrust operator.
- Integrated opening and closing mechanical stops (the travel limit mechanical stops need not be installed).
- Available in versions with/without a travel limit device.
- Half bodies are coupled with a seal.
- Die-cast aluminium body, entirely double-coat painted for longer life.
- Manual release device with simplified key-protected activation.
- 24 V dc power supply to travel limit devices (if present) for maximum safety, with facility for controlling travel limit stops and 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. width (*)	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	
Thermal protection	140 °C		Operating ambient temperature	-20 °C to +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 3x0.50
  - 1 cable 2x0.50
- (B) **Power cabling (230 V)**
- 2 cables 3x1.50+T
  - 1 cable 2x1.5+T
  - 1 cable 2x1.5

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

Ref.	Q.ty	Description	Item code	Price (euro)
①	2	Operator 413	104413	
④	1	Control board 452 MPS	790916	
④	1	Enclosure mod. E	720119	
	1	Receiver board RP 433 SLH	787824	
	1	Two-channel transmitter XT2 433 SLH	787003	
②	1	Flashing lamp FAACLIGHT	410013	
⑥	1	Pair of photocells SAFEBEAM	785165	
③	1	Key-operated push-button T10 E	401019001/36	
<b>TOTAL</b>				

### Notes

**IMPORTANT:** 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. width (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 release key, a thrust capacitor 6.3 µF 400 V.

## CONTROL UNITS



**Control board 452 MPS**  
Technical specifications page 148

Item code 790916  
Price (euro) \_\_\_\_\_



**Control board 455 D**  
Technical specifications page 149

Item code 790917  
Price (euro) \_\_\_\_\_



**Control board 462 DF**  
Technical specifications page 150

Item code 790918  
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 boards**

Item code 720309  
Price (euro) \_\_\_\_\_

## SPECIFIC ACCESSORIES



**Plate for walling-in**

Item code 737604  
Price (euro) \_\_\_\_\_



**Gatecoder obstacle detection kit (with reversing function)**  
Technical specifications page 161

Item code 104485  
Price (euro) \_\_\_\_\_

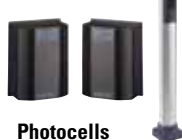
### Notes

- For anti-crushing safety, use control units 452 MPS, 455 D or 462 DF, equipped with an electronic force control device.
- Control board 455D or 462 DF must be used to control operators with travel limit device/s (Mod. LS).

## OTHER ACCESSORIES



**Key-operated push-buttons**  
page 185



**Photocells and Columns**  
page 189



**Safety devices**  
page 191



**Flashing lamps**  
page 193



**Transmitters**  
page 182



**Various accessories**  
page 194