

# Electro-mechanical operator

for residential swing-leaf gates  
with single-leaf width of 1.8 m

CE



- Non reversing operator, does not require electric lock.
- Applications with lower manoeuvring intensity.
- Simplified installation and maintenance.
- Anti-crushing safety thanks to the electronic device.

## DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 412

Power supply voltage	230 Vac (+6% -10%) 50 (60) Hz	Thermal protection on motor winding	140 °C
Absorbed power	280 W	Operating ambient temperature	-20 °C to +55 °C
Absorbed current	1.5 A	Protection class	IP 44
Motor rotation speed	1400 r.p.m.	Weight	6.5 kg
Rod extension speed	1.5 cm/s	Dimensions (L x D x H) in mm	1000 x 90 x 195
Traction and thrust force	0 to 320 daN		

## 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	1	Operator 412 RH	104470	
①	1	Operator 412 LH	104471	
④	1	Control board 452 MPS	790916	
	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.

## 412

Model	Use		Item code	Price (euro)
	Single-leaf max. width (m)	Use frequency (cycles/hour)		
412 RH	1.80	18	104470	
412 LH	1.80	18	104471	

The package contains: an electro-mechanical operator (RH or LH), installation accessories, a release key, a thrust capacitor 8  $\mu$ F 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) \_\_\_\_\_



**Extra release key**  
(2 pc. package)

Item code 713009  
Price (euro) \_\_\_\_\_

#### Notes

- For anti-crushing safety, use control units 452 MPS, 455 D or 462 DF, equipped with an electronic force control device.
- The right leaf version (RH and LH) can be determined by looking from the inside of the property.

### 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