



I MOVE



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I IDEA

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**2013**  
[www.deasystem.com](http://www.deasystem.com)

# ICONS LEGEND

## GENERICAL ICONS



Article



Operator with Encoder for position management and obstacles detection



Product in conformity with European rules



Page of the catalogue



Limit switches



3 years warranty



Packaging per pallet



Control board with integrated receiver



Use intensity { residential, semi-intensive, intensive



Motor power supply



Not self-locking operator



Diameter



Patent pending



Quantity per package

## SPECIFIC ICONS



Maximum surface



Traction force



Maximum Thrust



Maximum door length



Maximum opening angle



Boom length



Opening time



Maximum door weight



Product weight



Rounds per minute



Stroke



Thickness



Bollard height



Sensitive head for obstacles detection

# VISION

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We see a world where every person will be free to interact with each element of their home, office, company or public place as they desire.

# MISSION

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We create products and systems for the automation of buildings and public spaces that make the interaction of engineers and end users simple and intelligent.

# VALUES

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People and Passion are at the center of our activities. Thanks to the efforts and passion of all our collaborators, we design and build products that will be used every day by thousands of people around all the world.

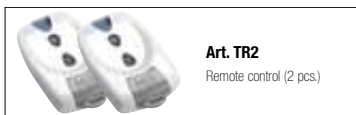


# KIT LIVI

Kit for the automation of a sliding gate



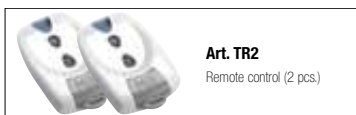
## KIT LIVI 230 includes



COD.	Art.	⚡	kg	IP	CHARACTERISTICS
614670	<b>KIT 6NET</b>	230V a.c.	600	•	with encoder and mechanical limit switch
615640	<b>KIT 9NET</b>	230V a.c.	900	•	with encoder and mechanical limit switch



## KIT LIVI 24 includes



COD.	Art.	⚡	kg	CHARACTERISTICS
614672	<b>KIT 5/24NET/F</b>	24V d.c.	500	mechanical limit switch
615642	<b>KIT 8/24NET/F</b>	24V d.c.	800	mechanical limit switch

For technical details see on page 26



# KIT MAC

Kit for the electromechanic automation of a swing gate



## KIT MAC 230 includes



**2 operators MAC - 230V**  
(including mounting fixing plates to be welded)



**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



**Art. TR2**  
Remote control (2 pcs.)



**Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V with or without encoder, with box



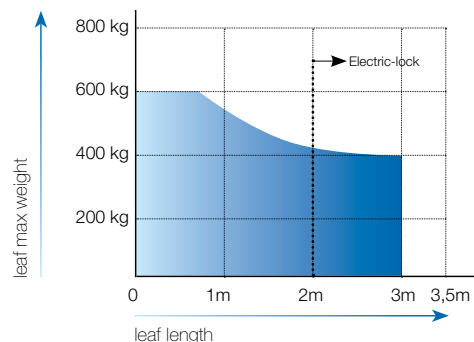
**Art. 104MINILUX**  
Pair of surface mounted photocells



**Art. 127**  
Warning sign

COD.	Art.			CHARACTERISTICS
625650	<b>KIT MACNET</b>	230V a.c.		
625651	<b>KIT MAC/EN/NET</b>	230V a.c.	•	with encoder

## GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.



## KIT MAC 24 includes



**2 operators MAC - 24V**  
(including mounting fixing plates to be welded)



**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



**Art. TR2**  
Remote control (2 pcs.)



**Art. NET24N/C**  
Universal digital control board for 1 or 2 operators, 24V with or without encoder, with box



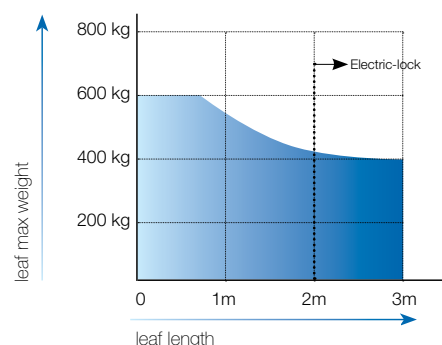
**Art. 104MINILUX**  
Pair of surface mounted photocells



**Art. 127**  
Warning sign

COD.	Art.			CHARACTERISTICS
625660	<b>KIT MAC/24NET</b>	24V d.c.		
625661	<b>KIT MAC/EN/24NET</b>	24V d.c.	•	with encoder

## GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

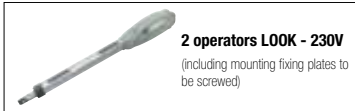
The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

# KIT LOOK

Kit for the electromechanic automation of a swing gate



## KIT LOOK 230 includes



**2 operators LOOK - 230V**  
(including mounting fixing plates to be screwed)



**Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V with or without encoder, with box



**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



**Art. 104MINILUX**  
Pair of surface mounted photocells



**Art. TR2**  
Remote control (2 pcs.)

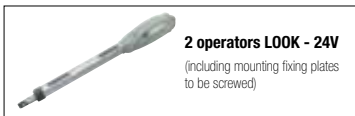


**Art. 127**  
Warning sign

COD.	Art.			CHARACTERISTICS
627630	<b>KIT 351NET</b>	230V a.c.		Without rod-cover, stroke 320 mm.
627631	<b>KIT 351EN/NET</b>	230V a.c.	•	Without rod-cover, stroke 320 mm., with encoder
627640	<b>KIT 355NET</b>	230V a.c.		Without rod-cover, stroke 520 mm.
627641	<b>KIT 355EN/NET</b>	230V a.c.	•	Without rod-cover, stroke 520 mm., with encoder



## KIT LOOK 24 includes



**2 operators LOOK - 24V**  
(including mounting fixing plates to be screwed)



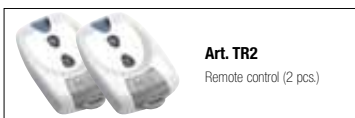
**Art. NET24N/C**  
Universal digital control board for 1 or 2 operators, 24V with or without encoder, with box



**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



**Art. 104MINILUX**  
Pair of surface mounted photocells



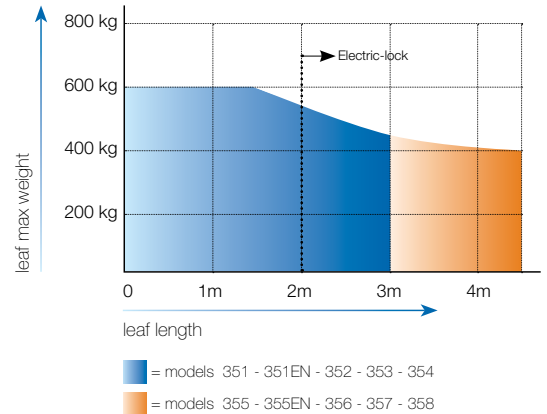
**Art. TR2**  
Remote control (2 pcs.)



**Art. 127**  
Warning sign

COD.	Art.			CHARACTERISTICS
627652	<b>KIT 371E/NET</b>	24V d.c.		Without rod-cover, stroke 320 mm.
627650	<b>KIT 371NET</b>	24V d.c.		Without rod-cover, stroke 320 mm.
627651	<b>KIT 371EN/NET</b>	24V d.c.	•	Without rod-cover, stroke 320 mm., with encoder
627660	<b>KIT 373NET</b>	24V d.c.		Without rod-cover, stroke 520 mm.
627661	<b>KIT 373EN/NET</b>	24V d.c.	•	Without rod-cover, stroke 520 mm., with encoder

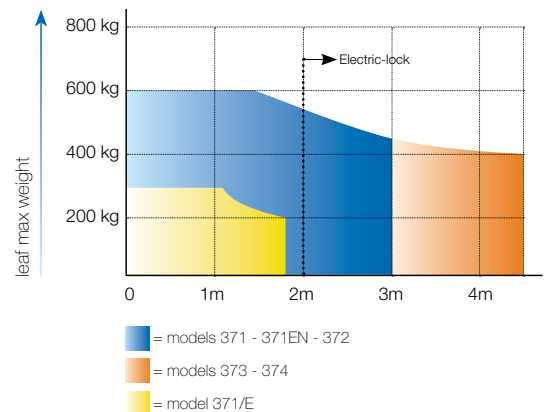
### GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

### GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

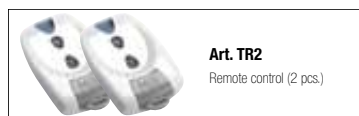
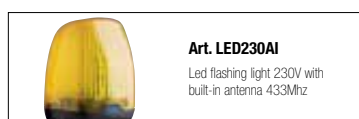
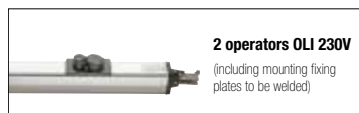
For technical details see page 46

# KIT OLI

Kit for the hydraulic automation of a swing gate



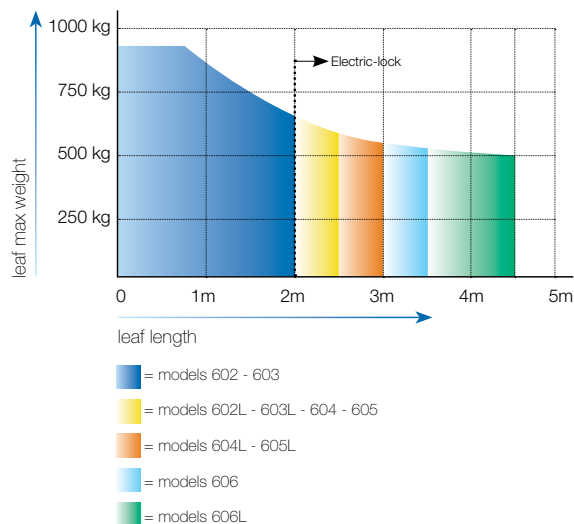
## KIT OLI 230 includes



COD.	Art.		CHARACTERISTICS
624640	<b>KIT 602NET</b>	230V a.c.	Stroke 270 mm. self-locking in closed position only
624641	<b>KIT 603NET</b>	230V a.c.	Stroke 270 mm. self-locking in open and closed position
624642	<b>KIT 604NET</b>	230V a.c.	Stroke 270 mm. <b>not self-locking</b>
624643	<b>KIT 605NET</b>	230V a.c.	Stroke 400 mm. self-locking in open and closed position
624644	<b>KIT 606NET</b>	230V a.c.	Stroke 400 mm. <b>not self-locking</b>

For technical details see on page 50

## GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position.

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

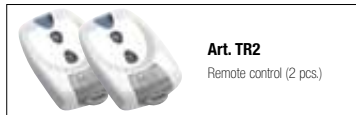
# KIT GEKO



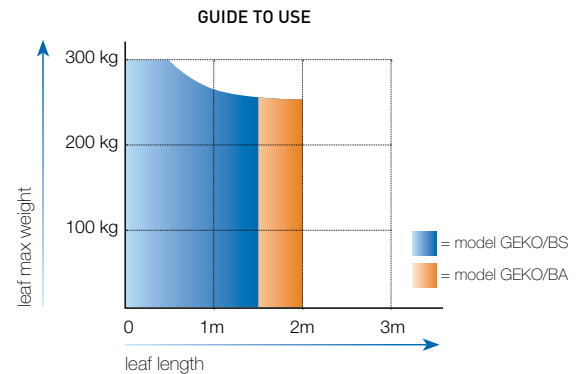
Kit for the electromechanic automation of a swing gate



## KIT GEKO 24 includes



COD.	Art.	⚡	EN 12453	CHARACTERISTICS
628500	<b>KIT GEKO</b>	24V d.c.	•	With encoder and built-in control panel



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

For technical details see on page 54

# KIT LIVI 500



Kit for the electromechanic automation of a pedestrian gate

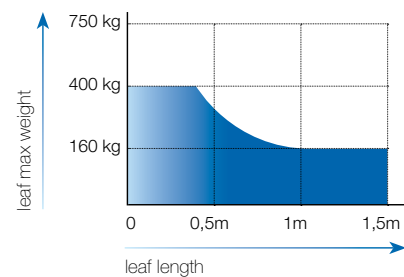


## KIT LIVI 500 230 includes



COD.	Art.	⚡	EN 12453	CHARACTERISTICS
623680	<b>KIT LIVI 500P/NET</b>	230V a.c.	•	Not self-locking, with encoder

**DIAGRAM WITH SLIDING ARM**  
(not self-locking operator)



Install the electric-lock to block the gate in closed position.

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

# KIT LIVI 502

Kit for the electromechanic automation of a swing gate



## KIT LIVI 502 230 includes



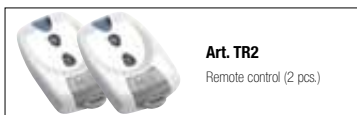
2 operators LIVI 502 230V



Art. NET230N/C  
Universal digital control board for 1 or 2 operators, 230V with or without encoder, with box



Art. LED230AI  
Led flashing light 230V with built-in antenna 433Mhz



Art. TR2  
Remote control (2 pcs.)



Art. 560A  
Aluminium articulated arm (2 pcs)

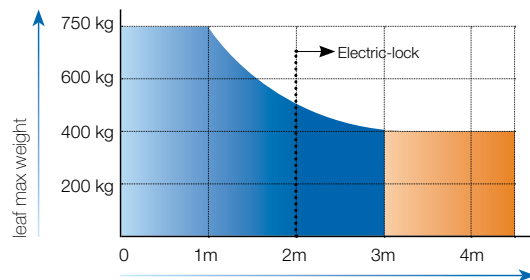


Art. 104MINILUX  
Pair of surface mounted photocells



Art. 127  
Warning sign

DIAGRAM WITH ARTICULATED ARM



leaf length

■ = models 502 - 502R

■ = models 502L - 502EN

If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

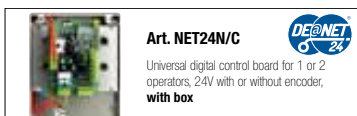
COD.	Art.	⚡	CE	CHARACTERISTICS
623660	<b>KIT 502/NET</b>	230V d.c.		
623662	<b>KIT 502EN/NET</b>	230V d.c.	•	With encoder



## KIT LIVI 502 24 includes



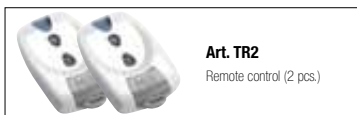
2 operators LIVI 502 24V



Art. NET24N/C  
Universal digital control board for 1 or 2 operators, 24V with or without encoder, with box



Art. LED24AI  
Led flashing light 24V with built-in antenna 433Mhz



Art. TR2  
Remote control (2 pcs.)



Art. 560A  
Aluminium articulated arm (2 pcs)

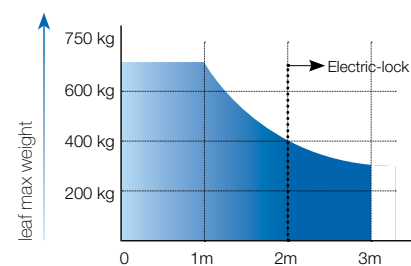


Art. 104MINILUX  
Pair of surface mounted photocells



Art. 127  
Warning sign

DIAGRAM WITH ARTICULATED ARM



leaf length

If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

COD.	Art.	⚡	CE	CHARACTERISTICS
623670	<b>KIT 502/24NET</b>	24V d.c.		
623671	<b>KIT 502EN/24NET</b>	24V d.c.	•	With encoder

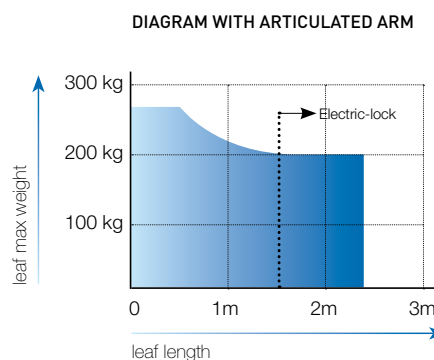
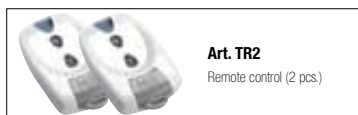
For technical details see on page 58

# KIT ANGOLO

Kit for the electromechanic automation of a swing gate



## KIT ANGOLO 24 includes



COD.	Art.		CHARACTERISTICS
626580	<b>KIT ANGOLO</b>	24V d.c.	Built-in control panel

If the leaf length is bigger than 1.5 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

For technical details see on page 62



# KIT GHOST 100

Kit for the underground electromechanical automation of a swing gate



For KITS with foundation boxes in **cataphoresis**



**Art. 115**  
Foundation boxes with **cataphoresis** treatment complete with gate support and unlocking device (2pcs)

For KITS with **stainless steel** foundation box



**Art. 115I**  
Stainless steel foundation boxes complete with gate support and unlocking device (2pcs)



## KIT GHOST 100 230 includes

**2 operators GHOST 100 - 230V**  
(mechanical limit switches art. 118 included)

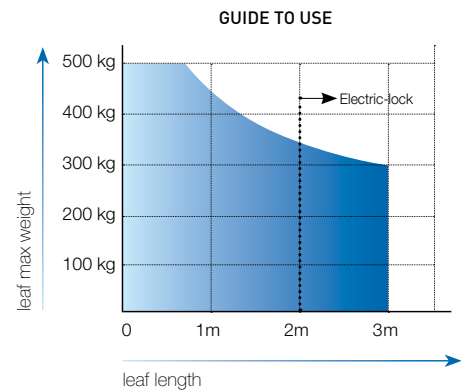
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433MHz

**Art. TR2**  
Remote control (2 pcs.)

**Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V with or without encoder, **with box**

**Art. 104MINILUX**  
Pair of surface mounted photocells

**Art. 127**  
Warning sign



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

COD.	Art.	⚡	OPEN STOP	CHARACTERISTICS
621600	<b>KIT 100/NET</b>	230V d.c.		1 operator with <b>7 mt. long cable</b> , 1 operator with normal cable, <b>built-in mechanical limit switches</b> and foundation boxes with cataphoresis treatment
621601	<b>KIT 100EN/NET</b>	230V d.c.	•	1 operator with <b>7 mt. long cable</b> , 1 operator with normal cable, <b>built-in mechanical limit switches</b> , encoder and foundation boxes with cataphoresis treatment
621602	<b>KIT 100I/NET</b>	230V d.c.		1 operator with <b>7 mt. long cable</b> , 1 operator with normal cable, <b>built-in mechanical limit switches</b> and stainless steel foundation boxes



## KIT GHOST 100 24 includes

**2 operators GHOST 100 - 24V**  
(mechanical limit switches art. 118 included)

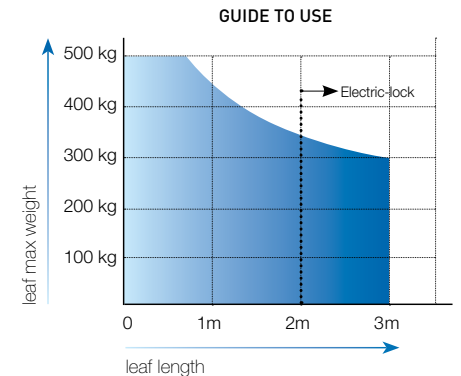
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433MHz

**Art. TR2**  
Remote control (2 pcs.)

**Art. NET24N/C**  
Universal digital control board for 1 or 2 operators, 24V with or without encoder, **with box**

**Art. 104MINILUX**  
Pair of surface mounted photocells

**Art. 127**  
Warning sign



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

COD.	Art.	⚡	OPEN STOP	CHARACTERISTICS
621610	<b>KIT 100/24NET</b>	24V d.c.		1 operator with <b>7 mt. long cable</b> , 1 operator with normal cable, <b>built-in mechanical limit switches</b> and foundation boxes with cataphoresis treatment
621611	<b>KIT 100EN/24NET</b>	24V d.c.	•	1 operator with <b>7 mt. long cable</b> , 1 operator with normal cable, <b>built-in mechanical limit switches</b> , encoder and foundation boxes with cataphoresis treatment
621612	<b>KIT 100I/24NET</b>	24V d.c.		1 operator with <b>7 mt. long cable</b> , 1 operator with normal cable, <b>built-in mechanical limit switches</b> and stainless steel foundation boxes

For technical details see on page 66



# KIT GHOST 200

Kit for the underground electromechanical automation of a swing gate



For KITS with foundation boxes in **cataphoresis**



**Art. 215**

Foundation boxes with **cataphoresis** treatment complete with gate support and unlocking device (2pcs)

For KITS with **stainless steel** foundation box



**Art. 215I**

Stainless steel foundation boxes complete with gate support and unlocking device (2pcs)



## KIT GHOST 200 230 includes



**2 operators  
GHOST 200 - 230V**



**Art. NET230N/C**

Universal digital control board for 1 or 2 operators, 230V with or without encoder, **with box**



**Art. LED230AI**

LED flashing light 230V with built-in antenna 433Mhz



**Art. 104MINILUX**

Pair of surface mounted photocells



**Art. TR2**

Remote control (2 pcs.)



**Art. 127**

Warning sign

COD.	Art.	⚡	EN 12453 EN 12445	CHARACTERISTICS
621580	<b>KIT 200/NET</b>	230V a.c.		1 operator with 8 mt. long cable, 1 operator with normal cable, completed with <b>foundation box with cataphoresis treatment</b>
621581	<b>KIT 200EN/NET</b>	230V a.c.	•	1 operator with 8 mt. long cable, 1 operator with normal cable, encoder and completed with <b>foundation box with cataphoresis treatment</b> , control board, accessories and encoder
621582	<b>KIT 200/I/NET</b>	230V a.c.		1 operator with 8 mt. long cable, 1 operator with normal cable, completed with <b>stainless steel foundation box</b>



## KIT GHOST 200 24 includes



**2 operators  
GHOST 200 - 24V**



**Art. NET24N/C**

Universal digital control board for 1 or 2 operators, 24V with or without encoder, **with box**



**Art. LED24AI**

LED flashing light 24V with built-in antenna 433Mhz



**Art. 104MINILUX**

Pair of surface mounted photocells



**Art. TR2**

Remote control (2 pcs.)

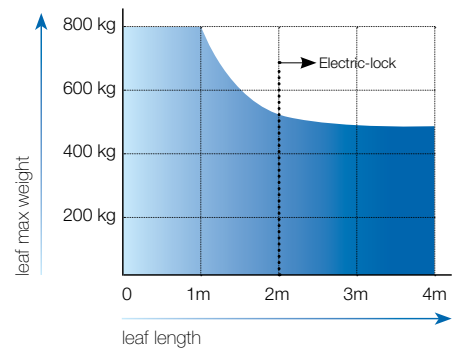


**Art. 127**

Warning sign

COD.	Art.	⚡	CHARACTERISTICS
621590	<b>KIT 200/24NET</b>	24V d.c.	1 operator with 8 mt. long cable, 1 operator with normal cable, completed with <b>foundation box with cataphoresis treatment</b>
621592	<b>KIT 200I/24NET</b>	24V d.c.	1 operator with 8 mt. long cable, 1 operator with normal cable, completed with <b>stainless steel foundation box</b>

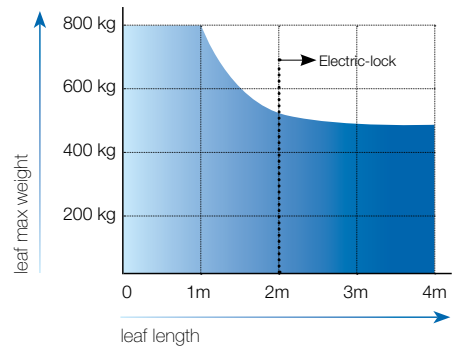
### GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

### GUIDE TO USE



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

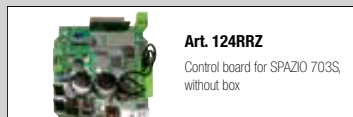
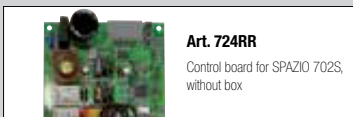
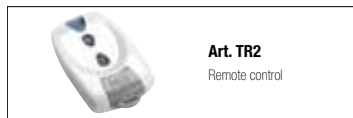
For technical details see page 70

# KIT SPAZIO

Kit for the electromechanical automation of sectional and spring garage doors



## KIT SPAZIO 24 includes



COD.	Art.	⚡	kg	CHARACTERISTICS
636000	<b>KIT 702</b>	24V d.c.	60	with limit switches
636010	<b>KIT 703</b>	24V d.c.	100	with limit switches

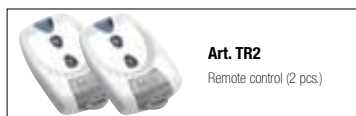
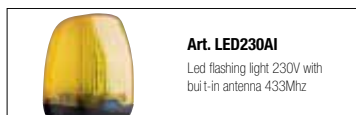
For technical details see on page 80

# LIVI 902

Kit for per automations for counterweight overhead door



## KIT LIVI 902 230 includes



COD.	Art.	⚡	Rpm	CHARACTERISTICS
633500	<b>KIT 905/NET/BF</b>	230V d.c.	1.400	Designed for unlocking device by cable magnetic encoder

For technical details see page 76

# SLIDING GATES

Automations for residential, collective and industrial sliding gates



## SELECT THE RIGHT AUTOMATION

Choose the **maximum weight of your gate**



Weight (kg)	Voltage	Model	Features	Model	Device	Page
400	230V	212E	•	403E	LIVI	26
500	24V	NET24N	•	5/24NET/F		
600	230V	NET230N	• •	6NET		
800	24V	NET24N	•	8/24NET/F	LIVI	26
900	230V	212E	•	803E		
900	230V	NET230N	• •	9NET	LIVI	
1400	24V	NET24N	• • •	REV24/F	REV	30
1400	230V	NET230N	• • •	REV220		
1400	230V	NET230N	• • • •	REV220/RF		
1500	230V	212E	• •	1503E	GULLIVER	34
1800	230V	NET230N	• • • •	18NET		
2500	400V	400RR	• • • •	25RRT		



### NET230N 230V a.c. operators with control board, limit switches and encoder

COD.	Art.	EN	IP	Icon	DEA	Encoder	OTHER CHARACTERISTICS
614140	<b>6NET</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	600 kg	•	NET230N	•	- Self locking with limit switches - Speed adjustment and slow down in opening and closing - Motor control by encoder and obstacle detection
615180	<b>9NET</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	900 kg	•	NET230N	•	

All models have: fixing plate (to be screwed) included

### NET24N 24V d.c. operators with control board and limit switches

COD.	Art.	EN	IP	Icon	DEA	OTHER CHARACTERISTICS
614121	<b>5/24NET/F</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	500 kg	•	NET24N	- Self locking with limit switches - Speed adjustment and slow down in opening and closing - Motor control by encoder and obstacle detection
615161	<b>8/24NET/F</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	800 kg	•	NET24N	- Anti-crushing device

All models have: fixing plate (to be screwed) included

### 212E 230V d.c. operators with control board and limit switches

COD.	Art.	IP	Icon	DEA	OTHER CHARACTERISTICS
614110*	<b>403E</b>	400 kg	•	212E	- Self locking with limit switches - Electronic force adjustment
615150*	<b>803E</b>	800 kg	•	212E	- Self learning working times - Controlled input for external safety devices

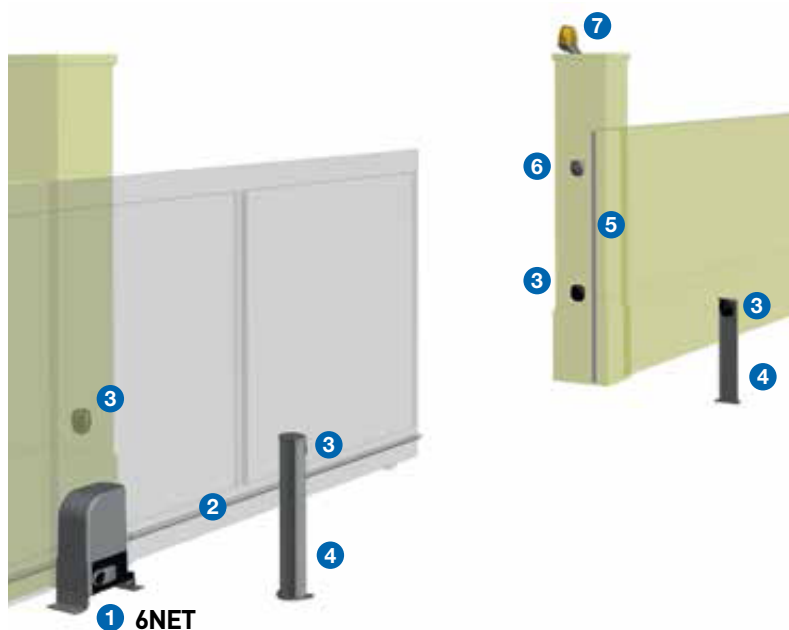
\* In order to respect the limit of impact forces foreseen by EN 13241-1, you must use the external safety devices in compliance with EN 12978.

TECHNICAL INFO	403E - 6NET	803E - 9NET	5/24NET/F	8/24NET/F
Motor power supply (V)	230 V ~ ±10% (50/60 Hz)	230 V ~ ±10% (50/60 Hz)	24 DC	24 DC
Maximum power absorption (W)	320	450	80	110
Max thrust (N)	340	490	210	260
Duty cycle (cycles/h)*	18	11	22	18
N. max. cycles in 24 h.*	60	40	60	40
Built-in capacitor (µF)	8	12,5	\	\
Operating temperature (°C)	-20 ÷ 40	-20 ÷ 40	-20 ÷ 40	-20 ÷ 40
Motor thermal protection (°C)	140	160	\	\
Speed (m/min)	10	10	10	10
Weight with packing (Kg)	11	12,5	12	12
Protection degree	IPX4	IPX4	IPX4	IPX4

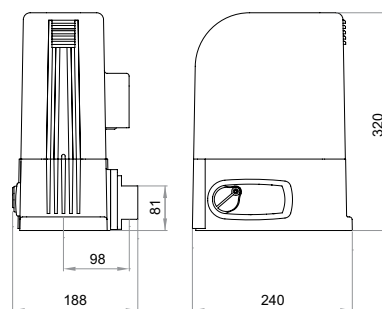
\* For a 5 mt. long leaf



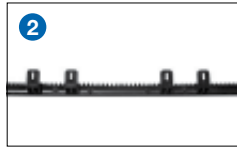

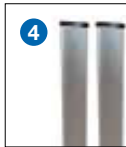







EXAMPLE OF A TYPICAL INSTALLATION

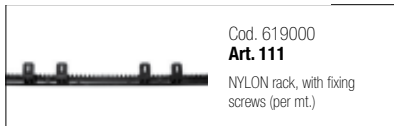


DIMENSIONS



 <p><b>1</b> Cod. 614140 <b>Art. 6NET</b> Automation for residential sliding gates</p>	 <p>Cod. 619010 <b>Art. 460</b> Foundation plate to be cemented</p>	 <p><b>2</b> Cod. 619000 <b>Art. 111</b> NYLON rack, with fixing screws (per mt.)</p>
 <p><b>3</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>	 <p><b>4</b> Cod. 664000 <b>Art. 11LY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>5</b> Cod. 171001 <b>Art. 123</b> Mechanical safety rib, length 200 cm.</p>
 <p><b>6</b> Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>	 <p><b>7</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>
 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>		

## SPECIFIC ACCESSORIES



Cod. 619000  
**Art. 111**  
NYLON rack, with fixing screws (per mt.)



Cod. 619040  
**Art. 450**  
Unlocking device by cable for LVI.  
**To be used with BLINDOS**



Cod. 675580  
**Art. RADIOBAND RU**  
868Mhz receiver



Cod. 171000  
**Art. 124**  
Mechanical safety rib, 1,5 mt.



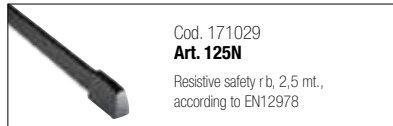
Cod. 126001  
**Art. 112**  
Galvanized steel rack  
22 x 22 mm (per mt.)



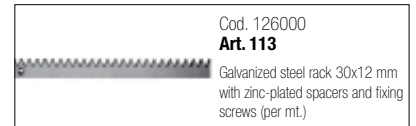
Cod. 619010  
**Art. 460**  
Foundation plate to be cemented



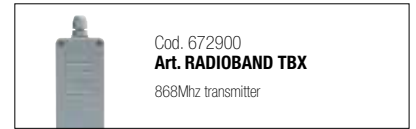
Cod. 171001  
**Art. 123**  
Mechanical safety rib, 2 mt.



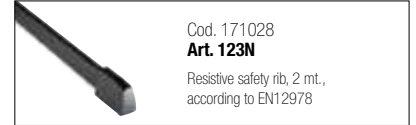
Cod. 171029  
**Art. 125N**  
Resistive safety rib, 2,5 mt.,  
according to EN12978



Cod. 126000  
**Art. 113**  
Galvanized steel rack 30x12 mm  
with zinc-plated spacers and fixing screws (per mt.)



Cod. 672900  
**Art. RADIOBAND TBX**  
868Mhz transmitter



Cod. 171028  
**Art. 123N**  
Resistive safety rib, 2 mt.,  
according to EN12978

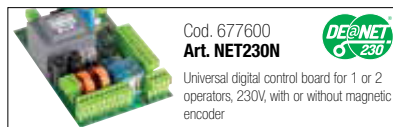


Cod. 667053  
**Art. Soft3**  
Safety rubber profile (complete with aluminium base) useful to reduce the impact forces for sliding and swing gates. 12mt.

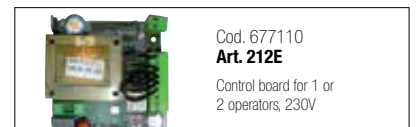
## OTHER ACCESSORIES



Cod. 678251  
**Art. NET24N**  
Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder



Cod. 677600  
**Art. NET230N**  
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder



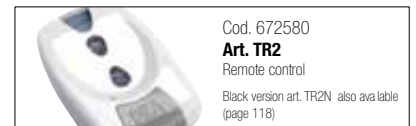
Cod. 677110  
**Art. 212E**  
Control board for 1 or 2 operators, 230V



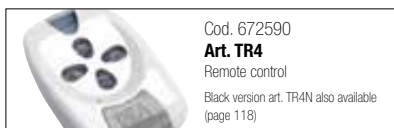
Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells.  
Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating.  
Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**  
Pair of adjustable photocells (180°) with tx supplied by a LiON battery.  
Range 7/15 Mt



Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



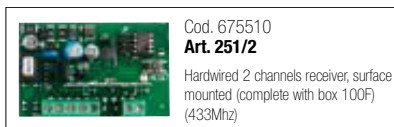
Cod. 664020  
**Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290  
**Art. BAT**  
Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050  
**Art. Green Energy**  
Solar power kit complete with art. CHARGER



Cod. 665000  
**Art. BLINDOS**  
Safety enclosure to place external unlocking device handle

NEW

# REV

Automations for collective sliding gates



## NET230N 230V a.c. operators with control board, limit switches and encoder

COD.	Art.	EN	kg	Encoder	DE@NET	Encoder	OTHER CHARACTERISTICS
616000	<b>REV220</b>	EN 12453 EN 12445	1400 kg	• •	NET230N	•	- Self-locking with limit switches - Speed adjustment and slow down in opening and closing - Motor control by encoder and obstacle detection
616003	<b>REV220/M</b>	EN 12453 EN 12445	1400 kg	• •	NET230N	•	- Self-locking - <b>Magnetic limit switches</b> - Speed adjustment and slow down in opening and closing - Motor control by encoder and obstacle detection
616001	<b>REV220/RF</b>	EN 12453 EN 12445	1400 kg	• • •	NET230N	•	- <b>Not self-locking</b> with brake in opening and closing - Limit switches - <b>Oil bath</b> - Speed adjustment and slow down in opening and closing - Motor control by encoder and obstacle detection
616004	<b>REV220/RFM</b>	EN 12453 EN 12445	1400 kg	• • •	NET230N	•	- <b>Not self-locking</b> with brake in opening and closing - <b>Magnetic limit switches</b> - <b>Oil bath</b> - Speed adjustment and slow down in opening and closing - Motor control by encoder and obstacle detection

All models have: foundation plate (to be cemented) included

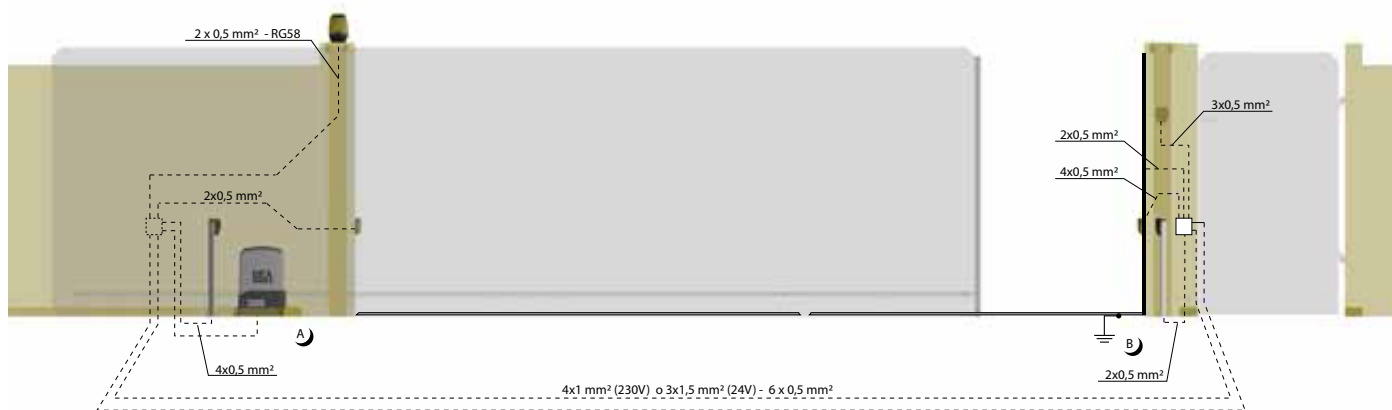
## NET24N 24V d.c. operators with control board and limit switches

COD.	Art.	EN	kg	Encoder	DE@NET	OTHER CHARACTERISTICS
616011	<b>REV24/F</b>	EN 12453 EN 12445	1400 kg	• • •	NET24N	- Self-locking with limit switches - Speed adjustment and slow down in opening and closing
616012	<b>REV24/M</b>	EN 12453 EN 12445	1400 kg	• • •	NET24N	- Self-locking - <b>Magnetic limit switches</b> - Speed adjustment and slow down in opening and closing

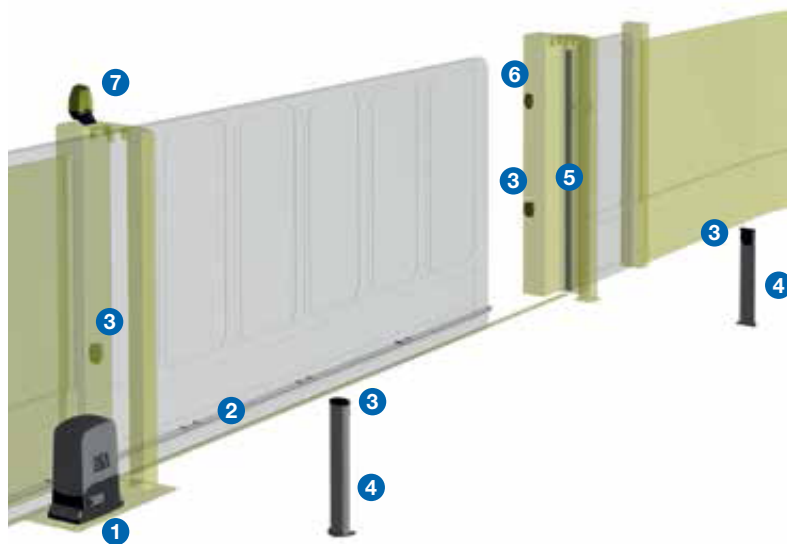
All models have: foundation plate (to be cemented) included

TECHNICAL INFO	REV220 - REV220/IB - REV220/M	REV220/RF - REV220/RFM - REV220/RF/IB	REV24/F - REV24/M - REV24/IB
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)	230 AC ± 10 % (50/60 Hz)	24 DC
Maximum power absorption (W)	500	500	250
Max thrust (N)	900	1200	450
Duty cycle (cycles/hours) with an 8 mt. long wing	27 for gates up to 1000Kg - 22 for gates up to 1400Kg		36 for gates up to 1000Kg 31 for gates up to 1400Kg
N. max. cycles in 24h. with an 8 mt. long wing	270 for gates up to 1000Kg 220 for gates up to 1400Kg	300 for gates up to 1000Kg 250 for gates up to 1400Kg	300 for gates up to 1000Kg 250 for gates up to 1400Kg
Built-in capacitor (µF)	18	18	\
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	150	\
Speed (m/min)	10	10	12
Weight with packing (Kg)	18	18	18
Protection degree	IP34 (IP44 with magnetic limit switches)		

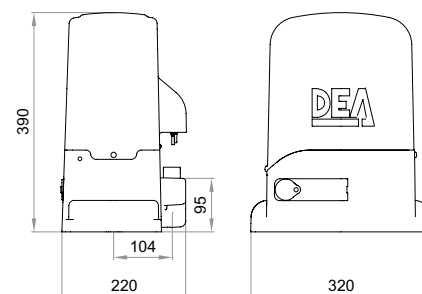













EXAMPLE OF A TYPICAL INSTALLATION

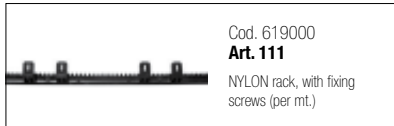


DIMENSIONS



 <p><b>1</b> Cod. 616000 <b>Art. REV220</b> Operator for collective sliding gates</p>	 <p><b>2</b> Cod. 126000 <b>Art. 113</b> Galvanized steel rack 30x12 mm with zinc-plated spacers and fixing screws (per mt.)</p>	 <p><b>3</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>
 <p><b>4</b> Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>5</b> Cod. 171001 <b>Art. 123</b> Mechanical safety rib, length 200 cm.</p>	 <p><b>6</b> Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>
 <p><b>7</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

## SPECIFIC ACCESSORIES



Cod. 619000  
**Art. 111**

NYLON rack, with fixing screws (per mt.)



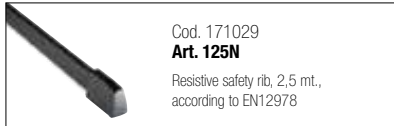
Cod. 619041  
**Art. 451**

Unlocking device kit for REV.  
**To be used in connection with BLINDOS**



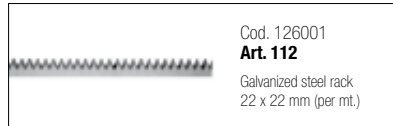
Cod. 171001  
**Art. 123**

Mechanical safety rib, 2 mt.



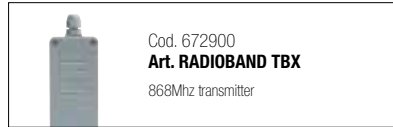
Cod. 171029  
**Art. 125N**

Resistive safety rib, 2,5 mt., according to EN12978



Cod. 126001  
**Art. 112**

Galvanized steel rack 22 x 22 mm (per mt.)



Cod. 672900  
**Art. RADIOBAND TBX**

868Mhz transmitter



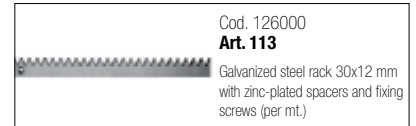
Cod. 171028  
**Art. 123N**

Resistive safety rib, 2 mt., according to EN12978



Cod. 667053  
**Art. Soft3**

Safety rubber profile (complete with aluminium base) useful to reduce the impact forces for sliding and swing gates. 12mt.



Cod. 126000  
**Art. 113**

Galvanized steel rack 30x12 mm with zinc-plated spacers and fixing screws (per mt.)



Cod. 675580  
**Art. RADIOBAND RU**

868Mhz receiver



Cod. 171000  
**Art. 124**

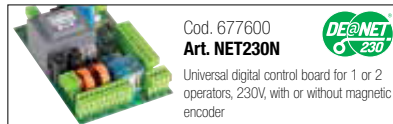
Mechanical safety rib, 1,5 mt.

## OTHER ACCESSORIES



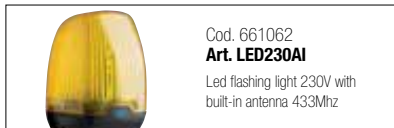
Cod. 678251  
**Art. NET24N**

Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder



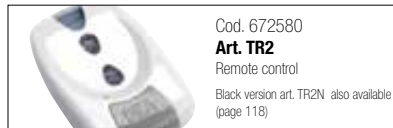
Cod. 677600  
**Art. NET230N**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder



Cod. 661062  
**Art. LED230AI**

Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**

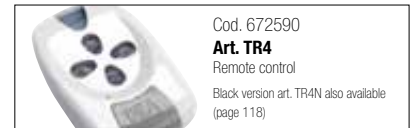
Remote control

Black version art. TR2N also available (page 118)



Cod. 661082  
**Art. LED24AI**

Led flashing light 24V with built-in antenna 433Mhz



Cod. 672590  
**Art. TR4**

Remote control

Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**

Pair of surface mounted photocells. Range 20 mt



Cod. 662030  
**Art. 104LUX**

Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**

Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**

Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 681060  
**Art. COVER**

Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**

Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**

Wireless keypad



Cod. 663270  
**Art. DIGINET**

Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



Cod. 664020  
**Art. PILLY/base**

Pair of fixing plates for columns to be cemented.



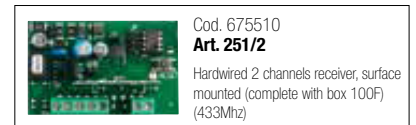
Cod. 664000  
**Art. PILLY/60**

Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**

Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**

Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290  
**Art. BAT**

Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050  
**Art. Green Energy**

Solar power kit complete with art. CHARGER



Cod. 665000  
**Art. BLINDOS**

Safety enclosure to place external unlocking device handle

# GULLIVER

Automations for industrial sliding gates



## NET230N 230V a.c. operators with control board, limit switches and encoder

COD.	Art.	EN	Icon	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
613300	<b>18NET</b>		1800 kg	• • •	NET230N	•		<ul style="list-style-type: none"> <li>- Self locking with limit switches</li> <li>- Speed adjustment and slow down in opening and closing</li> <li>- Motor control by encoder and obstacle detection</li> </ul>
613301	<b>18NET/M</b>		1800 kg	• • •	NET230N	•		<ul style="list-style-type: none"> <li>- Self locking</li> <li>- <b>Magnetic limit switches</b></li> <li>- Speed adjustment and slow down in opening and closing</li> <li>- Motor control by encoder and obstacle detection</li> </ul>

All models have: foundation plate (to be cemented) included

## 400RR 400V a.c. operators with control board, limit switches and encoder

COD.	Art.	EN	Icon	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
613210	<b>25RRT</b>		2500 kg	• • •	400RR	•		<ul style="list-style-type: none"> <li>- Self locking with limit switches</li> <li>- Anti-crushing safety device</li> </ul>
613215	<b>25RRTF</b>		2500 kg	• • •	400RR	•		<ul style="list-style-type: none"> <li>- Speed adjustment and slow down in opening and closing</li> <li>- Motor control by encoder and obstacle detection</li> <li>- <b>Anti-inertia braking device (version 25RRTF only)</b></li> </ul>
613221	<b>25RRT/M</b>		2500 kg	• • •	400RR	•		<ul style="list-style-type: none"> <li>- Self locking</li> <li>- Speed adjustment and slow down in opening and closing</li> <li>- Motor control by encoder and obstacle detection</li> <li>- <b>Magnetic limit switches</b></li> </ul>

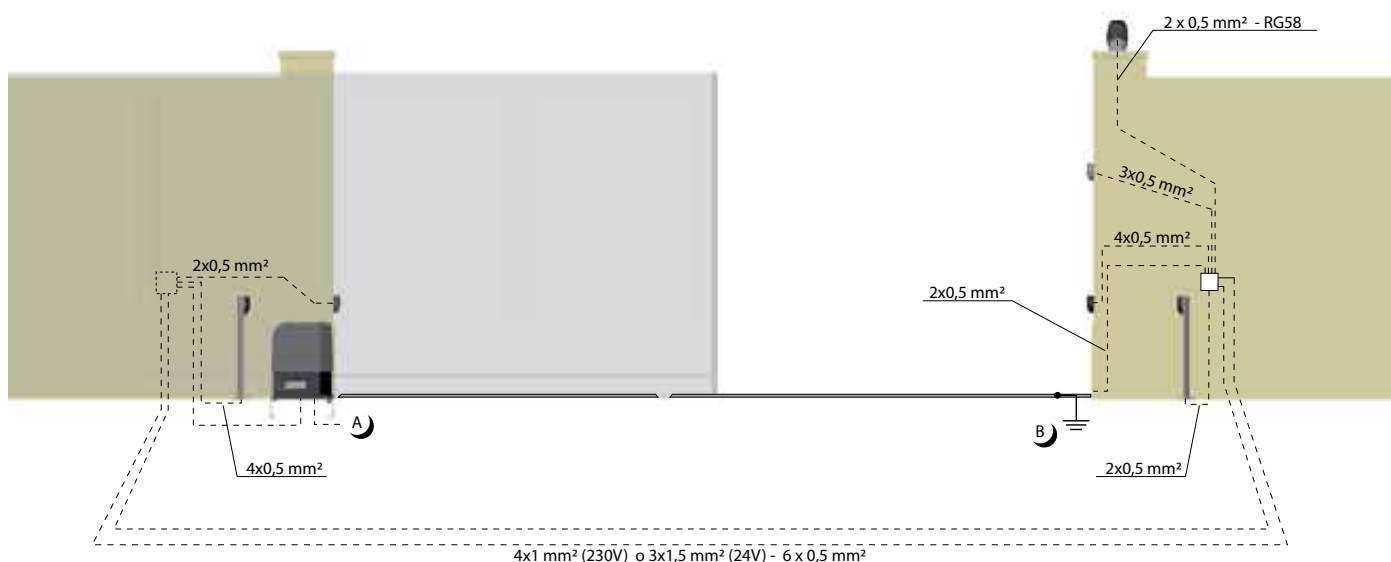
All models have: foundation plate (to be cemented) included

## 212E 230V a.c. operators with control board and limit switches

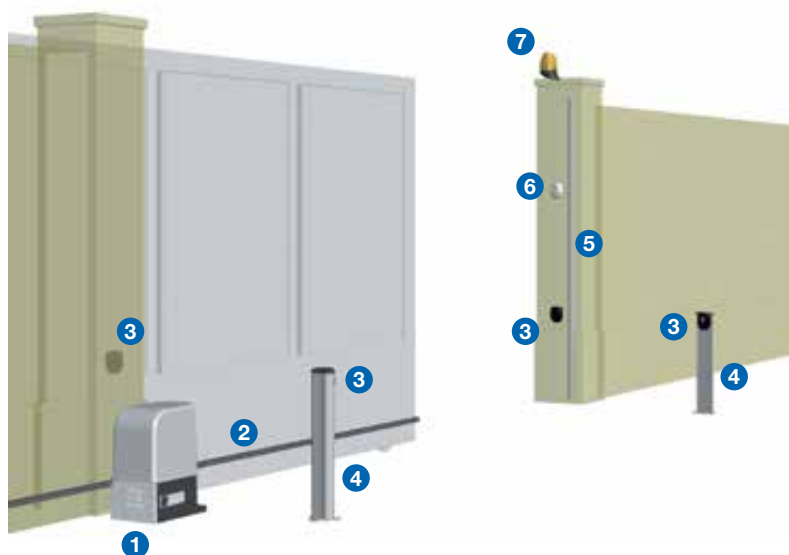
COD.	Art.	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
613220*	<b>1503E</b>	1500 kg	• •	212E		<ul style="list-style-type: none"> <li>- Self locking with limit switches</li> <li>- Electronic force adjustment</li> <li>- Automatic working time learning</li> <li>- Controlled input for external safety device</li> </ul>

\* In order to respect the limit of impact forces foreseen by EN 12453 and EN12445, you must use the external safety devices in compliance with EN 12978.

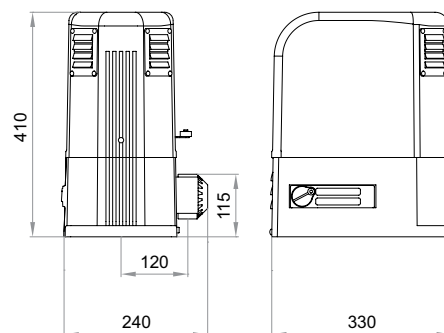
TECHNICAL INFO	25RRT - 25RRTF - 25RRT/M - 25RRT/IB	18NET - 18NET/M - 18NET/IB - 1503E
Motor power supply (V)	400 AC ± 10 % (50/60 Hz)	230 AC ± 10 % (50/60 Hz)
Maximum power absorption (W)	1200	560
Max thrust (N)	1650	875
Duty cycle (cycles/hours)	17 - with a 14 mt. gate	15 - with a 12 mt. gate
N. max cycles in 24h.	280	240
Built-in capacitor (µF)	/	30
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	/	140
Speed (m/min)	10	10
Weight with packing (Kg)	30	30
Protection degree	IP34 (IP44 with magnetic limit switch)	IP34 (IP44 with magnetic limit switch)


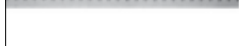









EXAMPLE OF A TYPICAL INSTALLATION

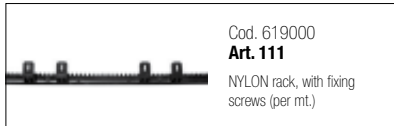


DIMENSIONS

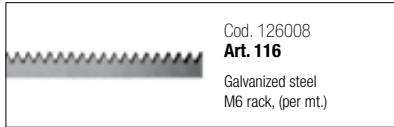


 <p><b>1</b></p> <p>Cod. 613300 <b>Art. 18NET</b> Operator for industrial sliding gates</p>	 <p><b>2</b></p> <p>Cod. 126001 <b>Art. 112</b> Galvanized steel rack 22 x 22 mm (per mt.)</p>	 <p><b>3</b></p> <p>Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>
 <p><b>4</b></p> <p>Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>5</b></p> <p>Cod. 171001 <b>Art. 123</b> Mechanical safety rib, length 200 cm.</p>	 <p><b>6</b></p> <p>Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>
 <p><b>7</b></p> <p>Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

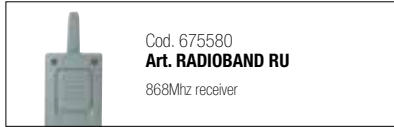
## SPECIFIC ACCESSORIES



Cod. 619000  
**Art. 111**  
NYLON rack, with fixing screws (per mt.)



Cod. 126008  
**Art. 116**  
Galvanized steel M6 rack, (per mt.)



Cod. 675580  
**Art. RADIOBAND RU**  
868Mhz receiver



Cod. 171000  
**Art. 124**  
Mechanical safety rib, 1,5 mt.



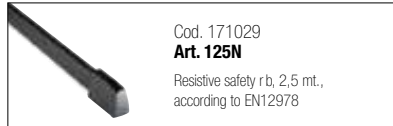
Cod. 126001  
**Art. 112**  
Galvanized steel rack 22 x 22 mm (per mt.)



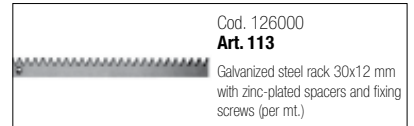
Cod.360580  
**Art. M6**  
M6 Gulliver galvanized gear M=6 Z=12 0e=84



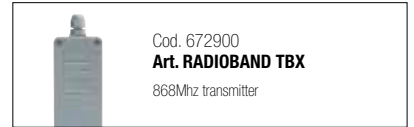
Cod. 171001  
**Art. 123**  
Mechanical safety rib, 2 mt.



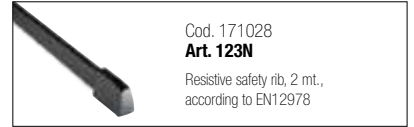
Cod. 171029  
**Art. 125N**  
Resistive safety rib, 2,5 mt., according to EN12978



Cod. 126000  
**Art. 113**  
Galvanized steel rack 30x12 mm with zinc-plated spacers and fixing screws (per mt.)



Cod. 672900  
**Art. RADIOBAND TBX**  
868Mhz transmitter



Cod. 171028  
**Art. 123N**  
Resistive safety rib, 2 mt., according to EN12978

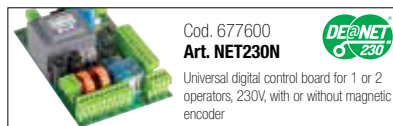


Cod. 667053  
**Art. Soft3**  
Safety rubber profile (complete with aluminium base) useful to reduce the impact forces for sliding and swing gates. 12mt.

## OTHER ACCESSORIES



Cod.677130  
**Art. 400RR**  
Digital control board three-phase 400V or single phase 230V for sliding gates



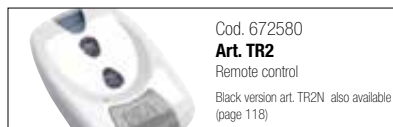
Cod. 677600  
**Art. NET230N**  
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder



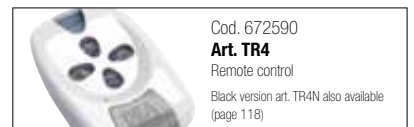
Cod. 677110  
**Art. 212E**  
Control board for 1 or 2 operators, 230V



Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells. Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**  
Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



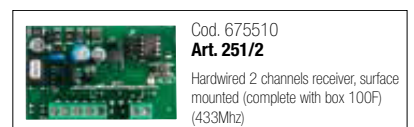
Cod. 664020  
**Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)

## IRON BOX

Steel vandal-proof box for **REV** and **GULLIVER** with magnetic limit switches and foundation plate

COD.	ART.	DIMENSIONS	kg
619080	<b>IRONBOX</b>	580 x 280 x 902h	44 Kg

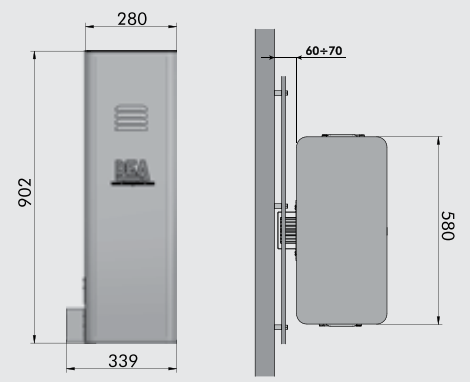
For technical details see on page 38



**NEW**

# IRON BOX

Steel vandal-proof box for **REV** and **GULLIVER** with magnetic limit switches and foundation plate



COD.	Art.	DIMENSIONS	
619080	<b>IRONBOX</b>	580 x 280 x 902h	44 Kg

To be installed with an **optional safety rib** art. 121N (cod. 171031) see on page 122

## 230V REV - 230V a.c. operators without control board and motor cover



COD.	Art.				OTHER CHARACTERISTICS
616005	<b>REV220/IB</b>	1400 kg	• •	•	<ul style="list-style-type: none"> <li>- Self-locking</li> <li>- Magnetic limit switches inside <b>IRONBOX</b></li> <li>- Motor control by encoder and obstacle detection</li> <li>- Designed for <b>IRONBOX</b></li> </ul>
616006	<b>REV220/RF/IB</b>	1400 kg	• • •	•	<ul style="list-style-type: none"> <li>- <b>Not self-locking, with brake</b></li> <li>- Magnetic limit switches inside <b>IRONBOX</b></li> <li>- <b>Oil bath</b></li> <li>- Motor control by encoder and obstacle detection</li> <li>- Designed for <b>IRONBOX</b></li> </ul>

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

## 24V REV - 24V d.c. operators without control board and motor cover



COD.	Art.			OTHER CHARACTERISTICS
616013	<b>REV24/IB</b>	1400 kg	• • •	<ul style="list-style-type: none"> <li>- Self locking</li> <li>- Magnetic limit switches inside <b>IRONBOX</b></li> <li>- Speed adjustment in opening and closing</li> <li>- Designed for <b>IRONBOX</b></li> </ul>

**Control board to complete the installation:** control board cod. 678263 art. **NET24N/C250** (with box) with 250W transformer

## 230V GULLIVER - 230V a.c. operators without control board and motor cover



COD.	Art.				OTHER CHARACTERISTICS
613302	<b>18/IB</b>	1800 kg	• • •	•	<ul style="list-style-type: none"> <li>- Self locking</li> <li>- Magnetic limit switches inside <b>IRONBOX</b></li> <li>- Motor control by encoder and obstacle detection</li> <li>- Designed for <b>IRONBOX</b></li> </ul>

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

## 400V GULLIVER - 400V a.c. operators without control board and motor cover



COD.	Art.				OTHER CHARACTERISTICS
613219	<b>25/IB</b>	2500 kg	• • •	•	<ul style="list-style-type: none"> <li>- Self locking</li> <li>- <b>Magnetic limit switches inside IRONBOX</b></li> <li>- Motor control by encoder and obstacle detection</li> <li>- Designed for <b>IRONBOX</b></li> </ul>

**Control board to complete the installation:** control board cod. 677140 art. 400RR/C (with box)



# IRON BOX

DEA





# SWING GATES

Automations for swing gates



## SELECT THE RIGHT AUTOMATION

Choose the **maximum length of your gate**



Gate Length	Gate Width	Opening Angle	Voltage	Motor Type	Model	Weight
<b>Linear rams</b>						
1,8 m	200	100°	24V	•	LOOK/371E/SC	46
3 m	400	110°	230V	•	MAC	42
		110°	24V	••	MAC/24	42
	450	100°	230V	••	LOOK 351/SC	46
		100°	24V	••	LOOK371/SC	46
600	110°	230V	•••	OLI 603	50	
4,5 m	400	110°	230V	••	LOOK 355/SC	46
		120°	24V	••	LOOK373/SC	46
	500	110°	230V	•••	OLI 605	50
<b>Articulated arm operators</b>						
2 m	250	120°	24V	•	GEKO	54
2,4 m	200	120°	24V	••	ANGOLO	62
4,5 m	400	120°	230V	••	LMI 502	58
	300	120°	24V	••	LMI 502/24	
<b>Underground operators</b>						
3 m	300	110°	230V	•	GHOST100	66
		110°	24V	••	GHOST100/24	
4 m	500	110°	230V	••	GHOST200	70
		110°	24V	••	GHOST200/24	

# MAC

Electromechanical automations for swing gates



## NET230N 230V a.c. operators without control board

COD.	Art.			OTHER CHARACTERISTICS
625010	<b>MAC</b>	•		Stroke 334 mm., for leaves up to 3 mt. long
625020	<b>MAC/EN</b>	•	•	Encoder, stroke 334 mm., for leaves up to 3 mt. long
625030	<b>MAC/R</b>	•		Stroke 334 mm., for leaves up to 2,5 mt. long, <b>not self locking</b>

**All models have:** fixing plates to be welded included.

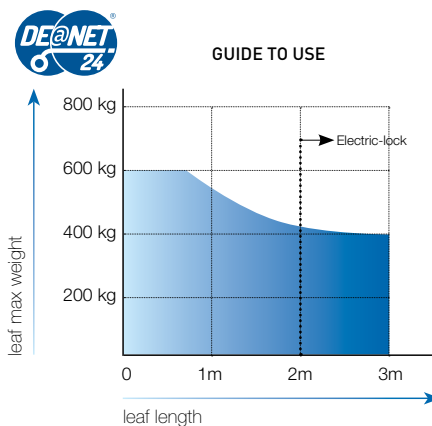
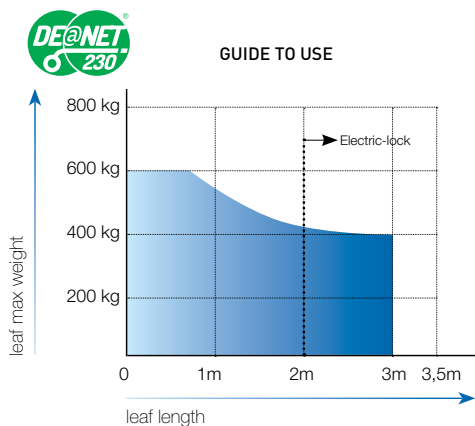
**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

## NET24N 24V d.c. operators without control board

COD.	Art.			OTHER CHARACTERISTICS
625040	<b>MAC/24</b>	••		Stroke 334 mm., for leaves up to 3 mt. long
625042	<b>MAC24/EN</b>	••	•	Encoder, stroke 334 mm., for leaves up to 3 mt. long

**All models have:** fixing plates to be welded included.

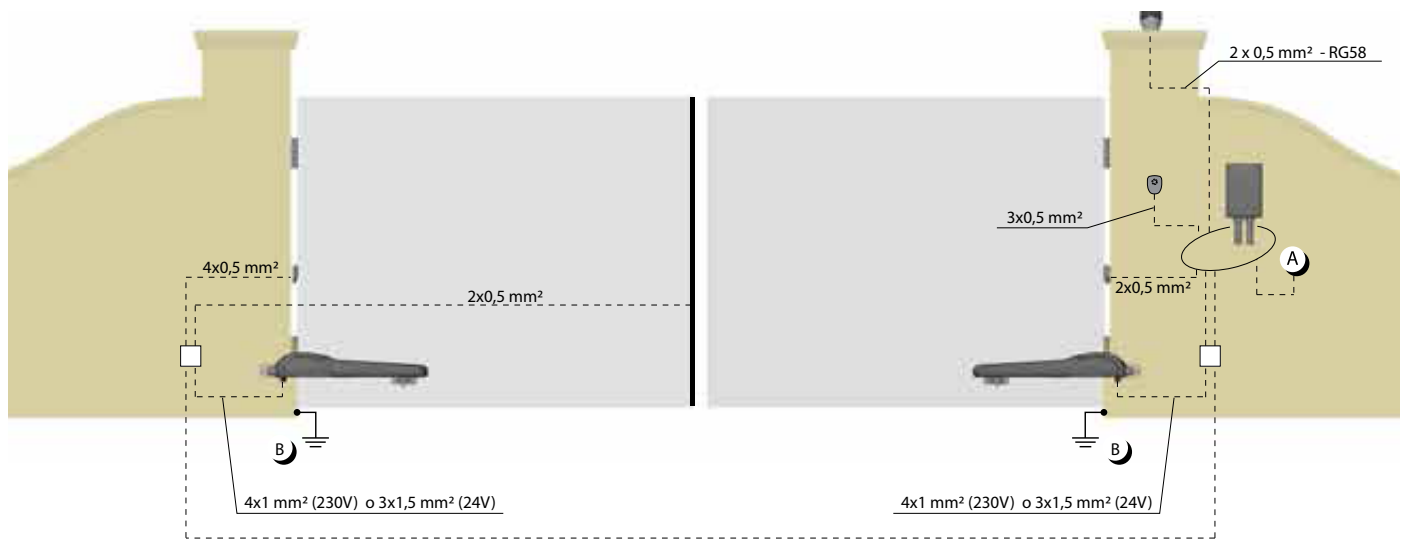
**Control board to complete the installation:** control board cod. 678261 art. NET24/C (with box)



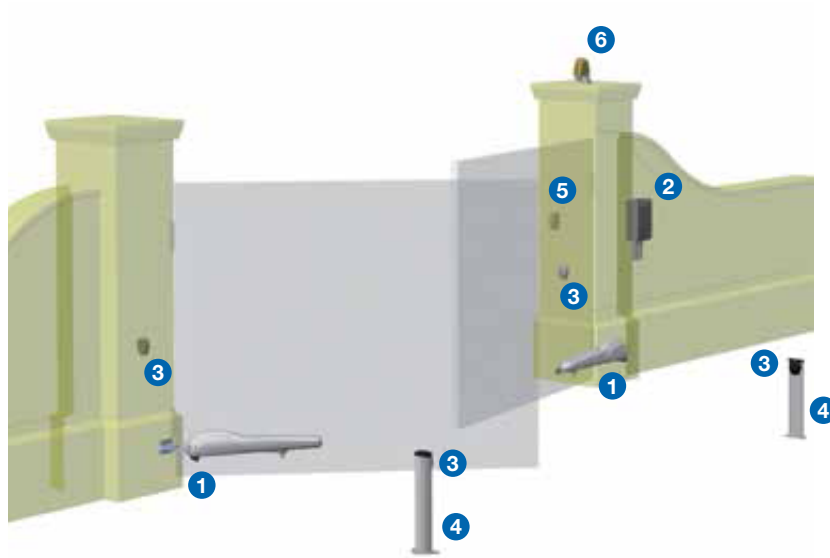
If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

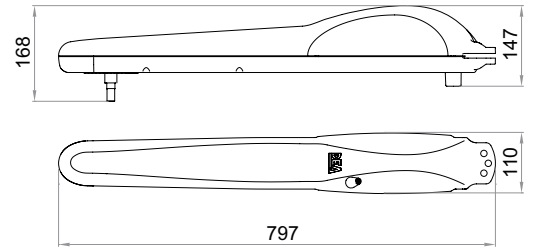
TECHNICAL INFO	MAC	MAC/EN	MAC/R	MAC/24 MAC24/EN
Motor power supply (V)	230 AC $\pm$ 10 % (50/60 Hz)	230 AC $\pm$ 10 % (50/60 Hz)	230 AC $\pm$ 10 % (50/60 Hz)	24 DC
Maximum power absorption (W)	300	300	300	60
Max thrust (N)	1650	1650	1200	1000
Duty cycle (cycles/hours)	18	22	18	40
N. max cycles in 24h.	90	90	90	90
Built-in capacitor ( $\mu$ F)	8	8	10	/
Operating temperature ( $^{\circ}$ C)	-20 $\div$ 50	-20 $\div$ 50	-20 $\div$ 50	-20 $\div$ 50
Motor thermal protection ( $^{\circ}$ C)	150	150	150	/
90 $^{\circ}$ Opening time (s)	16	16	16	16
Weight with packing (Kg)	8,8	8,8	8,8	8,8
Protection degree	IP24	IP24	IP24	IP24












EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS

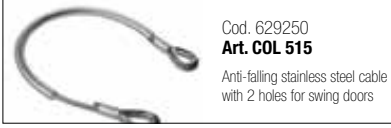


 <p><b>1</b> Cod. 625020 <b>Art. MAC/EN</b> Electromechanical operator for swing gates</p>	 <p><b>2</b> Cod. 677610 <b>Art. NET230N/C</b> Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)</p>	 <p><b>3</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>
 <p><b>4</b> Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>5</b> Cod. 629300 <b>Art. MAC/FM</b> Mechanical stops for MAC (2 pcs.)</p>	 <p><b>6</b> Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>
 <p><b>7</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p><b>8</b> Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p><b>9</b> Cod. 668010 <b>Art. 127</b> Warning sign</p>

## SPECIFIC ACCESSORIES



Cod. 629300  
**Art. MAC/FM**  
Mechanical stops for MAC (2 pcs.)



Cod. 629250  
**Art. COL 515**  
Anti-falling stainless steel cable with 2 holes for swing doors

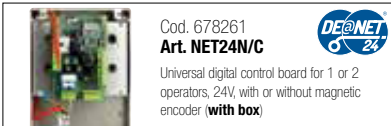


Cod. 629320  
**Art. MAC-LOOK/P**  
Extension for MAC and LOOK rams



Cod. 629310  
**Art. MAC/SFR**  
Adjustable brackets for MAC

## OTHER ACCESSORIES



Cod. 678261  
**Art. NET24N/C**  
Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder (with box)



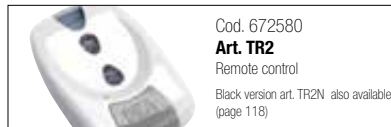
Cod. 677610  
**Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)



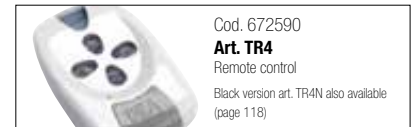
Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells. Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**  
Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



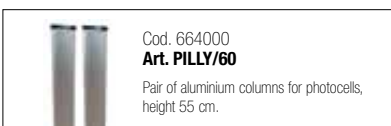
Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



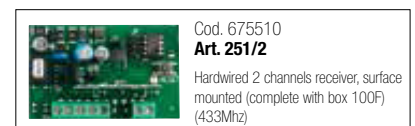
Cod. 664020  
**Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290  
**Art. BAT**  
Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050  
**Art. Green Energy**  
Solar power kit complete with art. CHARGER



Cod. 136024  
**Art. 1100**  
Horizontal electric lock complete with double cylinder and horizontal selvage art. 109A



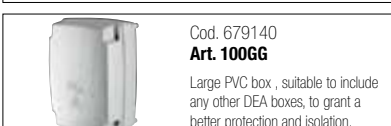
Cod. 136006  
**Art. 110V**  
Empty electric lock (without European cylinder) with ground selvage art. 109



Cod. 136005  
**Art. D**  
Double European cylinder



Cod. 136004  
**Art. M**  
Half European cylinder



Cod. 679140  
**Art. 100GG**  
Large PVC box, suitable to include any other DEA boxes, to grant a better protection and isolation.



### NET230N 230V a.c. operators without control board and rod cover

COD.	Art.				OTHER CHARACTERISTICS
627000	<b>351/SC</b>	●	320mm		For leaves up to 3 mt. long
627012	<b>351EN/SC</b>	●	320mm	●	With encoder, for leaves up to 3 mt. long
627021	<b>352/SC</b>	●	320mm		With limit switches, for leaves up to 3 mt. long
627031	<b>353/SC</b>	●	320mm		<b>Not self-locking</b> , for leaves up to 3 mt. long
627041	<b>354/SC</b>	●	320mm		With limit switches, <b>not self-locking</b> for leaves up to 3 mt. long
627053	<b>355/SC</b>	●	520mm		For leaves up to 4,5 mt. long
627052	<b>355EN/SC</b>	●	520mm	●	With encoder, for leaves up to 4,5 mt. long
627061	<b>356/SC</b>	●	520mm		With limit switches, for leaves up to 4,5 mt. long
627071	<b>357/SC</b>	●	520mm		<b>Not self-locking</b> , for leaves up to 4,5 mt. long
627081	<b>358/SC</b>	●	520mm		With limit switches, <b>not self-locking</b> for leaves up to 4,5 mt. long

**All models have:** fixing plates to be screwed included, rod cover not included

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

### NET24N 24V d.c. operators without control board and rod cover

COD.	Art.				OTHER CHARACTERISTICS
627092	<b>371E/SC</b>	●	320mm		For leaves up to 1,8 mt. long
627090	<b>371/SC</b>	●●	320mm		For leaves up to 3 mt. long
627102	<b>371EN/SC</b>	●●	320mm	●	With encoder, for leaves up to 3 mt. long
627111	<b>372/SC</b>	●●	320mm		With limit switches, for leaves up to 3 mt. long
627123	<b>373/SC</b>	●●	520mm		For leaves up to 4,5 mt. long
627124	<b>373EN/SC</b>	●●	520mm	●	With encoder, for leaves up to 4,5 mt. long
627131	<b>374/SC</b>	●●	520mm		With limit switches, for leaves up to 4,5 mt. long

**All models have:** fixing plates to be screwed included, rod cover not included

**Control board to complete the installation:** control board cod. 678261 art. NET24N/C (with box)

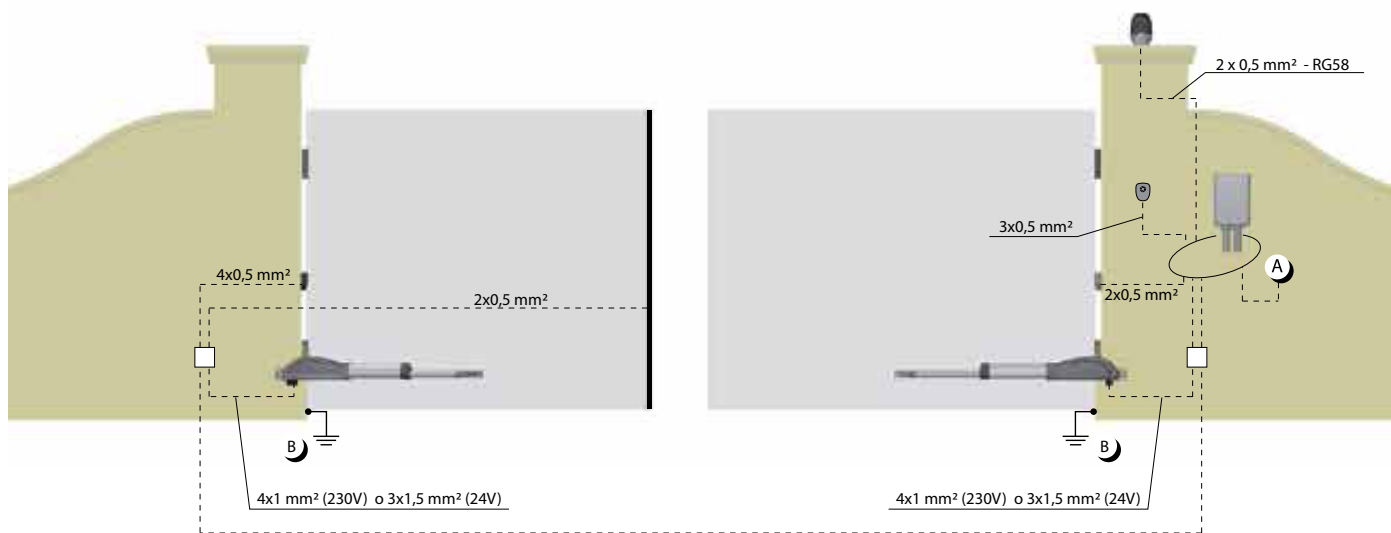
**Limit switches set up:** articles 352, 354, 356, 358, 372 and 374 are supplied with built-in limit switches in open and closed position, to be connected to the control board.

### Rod cover

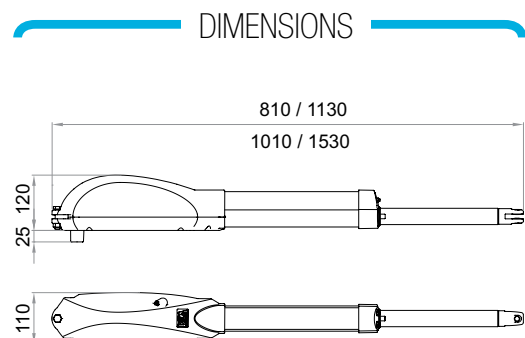
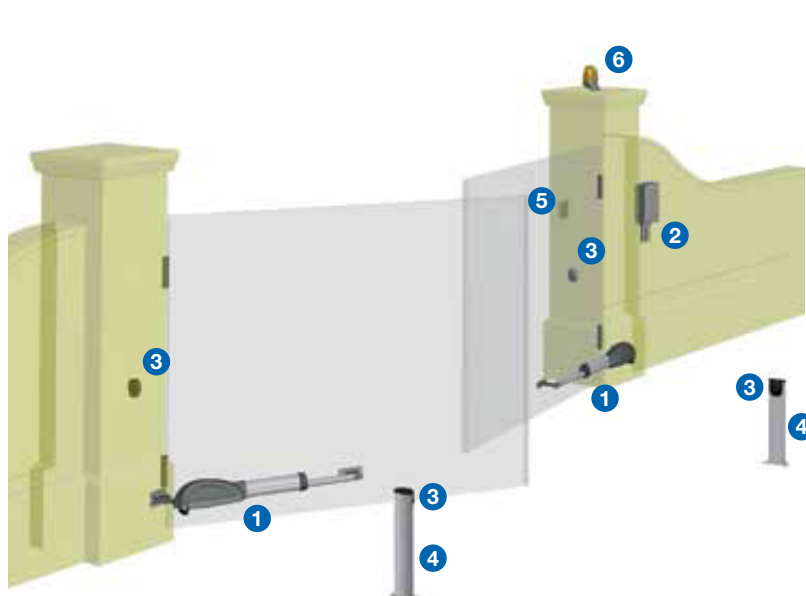



COD.	Art.		OTHER CHARACTERISTICS
629340	<b>CS320</b>	320mm	Rod cover stroke 320 mm.
629341	<b>CS520</b>	520mm	Rod cover stroke 520 mm.

TECHNICAL INFO	351 352 351EN	353 354	355 356 355EN	357 358	371E	371 371EN 372	373 374 373EN
Motor power supply (V)		230 AC ± 10 % (50/60 Hz)			24 DC	24 DC	24 DC
Maximum power absorption (W)	300	300	300	300	50	60	60
Max thrust (N)	1650	1200	1650	1200	500	1000	1000
Duty cycle (cycles/hours)	22 - 25 (vers. 351EN)	22	22 - 25 (vers. 355EN)	22	10	40	40
N. max cycles in 24h.	110	110	110	110	50	110	110
Built-in capacitor (µF)	8	10	8	10	/	/	/
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	150	150	150	/	/	/
90° Opening time (s)	16	12,5	17	13,5	15	14	15
Weight with packing (Kg)	9	9	9,5	9,5	9	9	9
Protection degree	IP24	IP24	IP24	IP24	IP24	IP24	IP24




EXAMPLE OF A TYPICAL INSTALLATION



**1**  Cod. 627012  
**Art. 351EN/SC**  
Electromechanical operator for swing gates

**2**  Cod. 677610  
**Art. NET230N/C**   
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)

**3**  Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells

**4**  Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.

**5**  Cod. 663030  
**Art. 102LUX**  
Keyswitch with two contacts, flush mounted. Supplied with 2 keys.

**6**  Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz

 Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)

 Cod. 668010  
**Art. 127**  
Warning sign



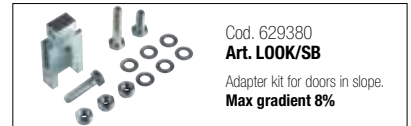
## SPECIFIC ACCESSORIES



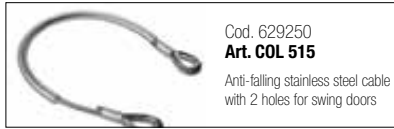
Cod. 629320  
**Art. MAC-LOOK/P**  
Extension for MAC and LOOK rams



Cod. 629311  
**Art. LOOK/SFR**  
Adjustable brackets for LOOK

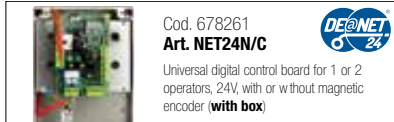


Cod. 629380  
**Art. LOOK/SB**  
Adapter kit for doors in slope.  
**Max gradient 8%**



Cod. 629250  
**Art. COL 515**  
Anti-falling stainless steel cable with 2 holes for swing doors

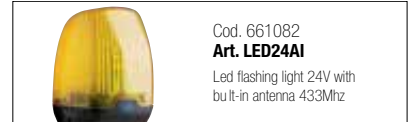
## OTHER ACCESSORIES



Cod. 678261  
**Art. NET24N/C**  
Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder (with box)



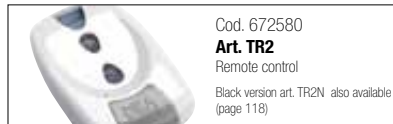
Cod. 677610  
**Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)



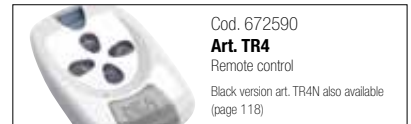
Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells, Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**  
Pair of adjustable photocells (180°) with LiOn battery. Range 7/15 Mt



Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



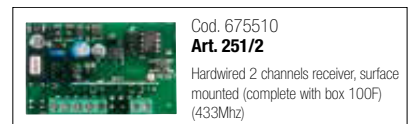
Cod. 664020  
**Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290  
**Art. BAT**  
Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050  
**Art. Green Energy**  
Solar power kit complete with art. CHARGER



Cod. 665000  
**Art. BLINDOS**  
Safety enclosure to place external unlocking device handle



Cod. 136024  
**Art. 1100**  
Horizontal electric lock complete with double cylinder and horizontal selvaige art. 109A



Cod. 136006  
**Art. 110V**  
Empty electric lock (without European cylinder) with ground selvaige art. 109



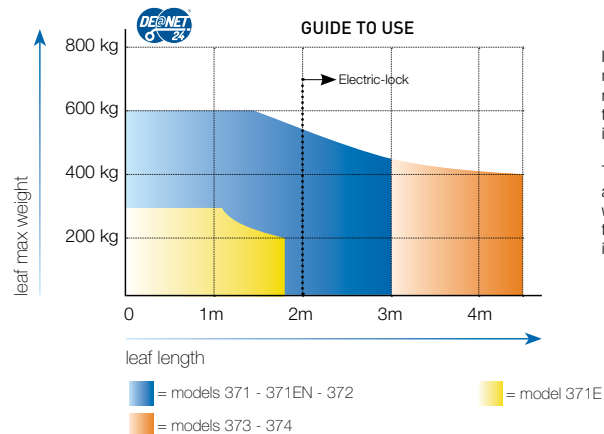
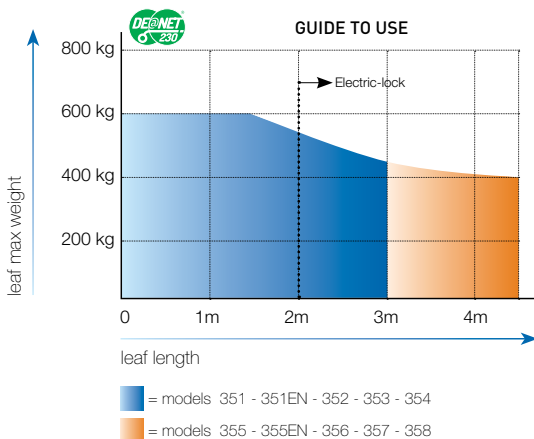
Cod. 136005  
**Art. D**  
Double European cylinder



Cod. 136004  
**Art. M**  
Half European cylinder



Cod. 679140  
**Art. 100GG**  
Large PVC box, suitable to include any other DEA boxes, to grant a better protection and isolation.



If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.





### NET230N 230V a.c. operators without control board

#### Hydraulic ram stroke 270 mm.

COD.	Art.			OTHER CHARACTERISTICS
624000	<b>602</b>	• • •	270mm	Self-locking in closed position only, for leaves up to 2 mt. long
624050	<b>602L</b>	• • •	270mm	Self-locking in closed position only, slow version, for leaves up to 2,5 mt. long
624010	<b>603</b>	• • •	270mm	Self-locking in open and closed position, for leaves up to 2 mt. long
624060	<b>603L</b>	• • •	270mm	Self-locking in open and closed position, slow version, for leaves up to 2,5 mt. long
624020	<b>604</b>	• • •	270mm	<b>Not self-locking</b> , for leaves up to 2,5 mt. long
624070	<b>604L</b>	• • •	270mm	<b>Not self-locking</b> , slow version, for leaves up to 3 mt. long

**All models have:** fixing plates to be welded included.

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

\* In order to respect the limit of impact forces foreseen by EN 12453 and EN12445 , you must use the external safety devices in compliance with EN 12978.

#### Hydraulic ram stroke 400 mm.

COD.	Art.			OTHER CHARACTERISTICS
624030	<b>605</b>	• • •	400mm	Self-locking in open and closed position, for leaves up to 2,5 mt. long
624080	<b>605L</b>	• • •	400mm	Self-locking in open and closed position, slow version, for leaves up to 3 mt. long
624040	<b>606</b>	• • •	400mm	<b>Not self-locking</b> , for leaves up to 3,5 mt. long
624090	<b>606L</b>	• • •	400mm	<b>Not self-locking</b> , for leaves up to 4,5 mt.

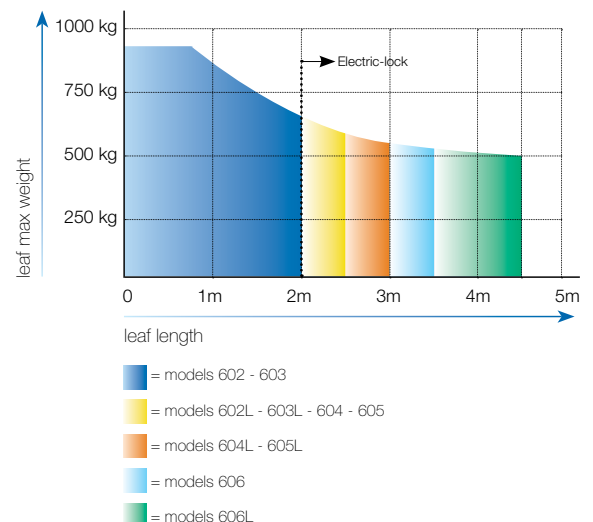
**All models have:** fixing plates to be welded included.

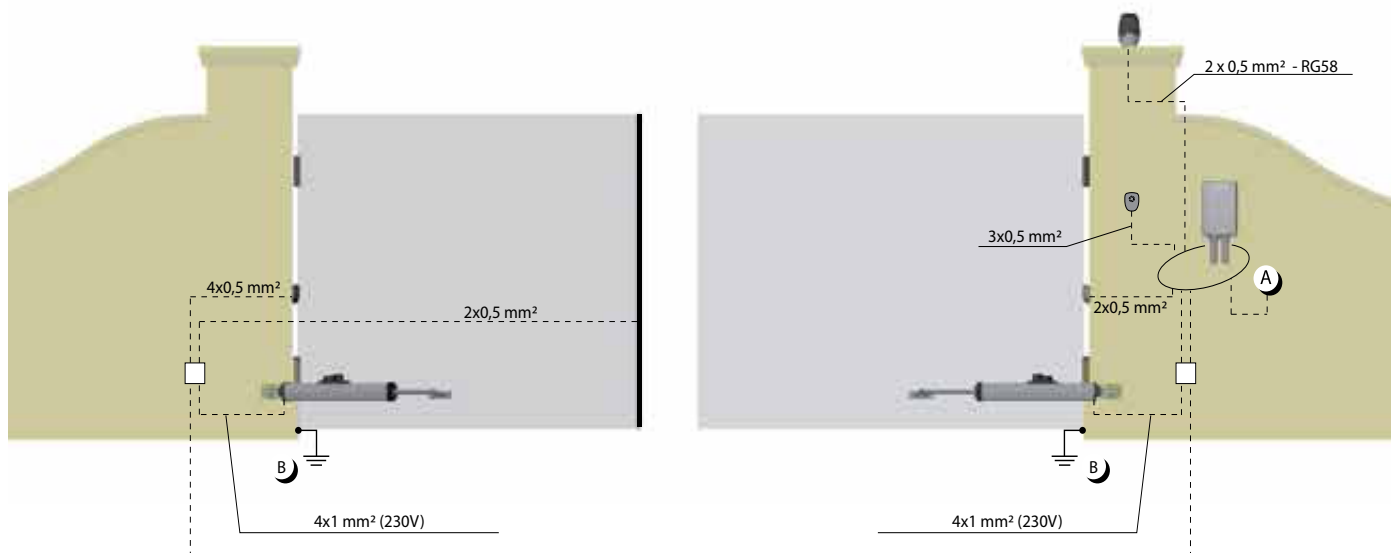
**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

\* In order to respect the limit of impact forces foreseen by EN 12453-1, you must use the external safety devices in compliance with EN 12978.

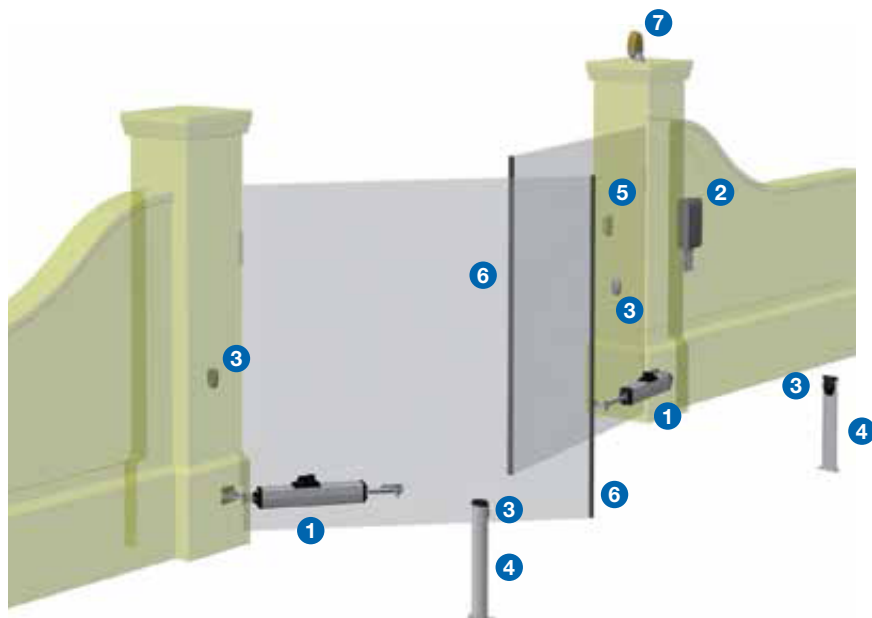
TECHNICAL INFO	602 603 604	605 606	602L 603L 604L	605L 606L
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)			
Maximum power absorption (W)	170	170	170	170
Max thrust (N)	3200	3200	3200	3200
Max traction force (N)	2600	2600	2600	2600
Duty cycle (cycles/hours)	60	50	50	40
N. max cycles in 24h.	480	400	400	320
Built-in capacitor (µF)	8	8	8	8
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	130	130	130	130
90° Opening time (s)	21	31	30	40
Weight with packing (Kg)	11,4	13	11,4	13
Protection degree	IP55	IP55	IP55	IP55

#### GUIDE TO USE

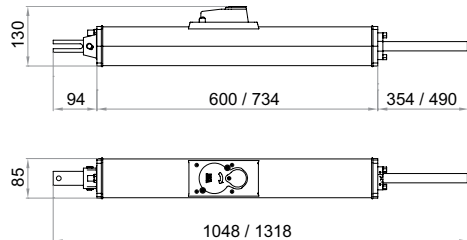




EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



**1**

Cod. 624000  
**Art. 602**

Electromechanical operator for swing gates

**2**

Cod. 677610  
**Art. NET230N/C**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)

**3**

Cod. 662030  
**Art. 104LUX**

Pair of adjustable (15°) surface mounted photocells

**4**

Cod. 664000  
**Art. PILLY/60**

Pair of aluminium columns for photocells, height 55 cm.

**5**

Cod. 663060  
**Art. KYO**

Aluminium vandal-proof keyswitch, flush mounted.

**6**

Cod. 171028  
**Art. 123N**

Resistive safety rib, 2 mt., according to EN12978

**7**

Cod. 661062  
**Art. LED230AI**

Led flashing light 230V with built-in antenna 433Mhz

Cod. 672580  
**Art. TR2**

Remote control  
Black version art. TR2N also available (page 118)

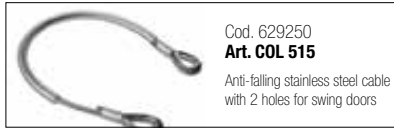
Cod. 668010  
**Art. 127**

Warning sign

## SPECIFIC ACCESSORIES



Cod. 350360  
**Art. 0/351 - 0/651**  
Fixing plate 100x60 mm.



Cod. 629250  
**Art. COL 515**  
Anti-falling stainless steel cable with 2 holes for swing doors



Cod. 629070  
**Art. 0/352 - 0/652**  
Fastening supports with welded plate.



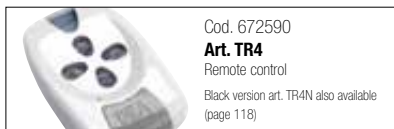
Cod. 629080  
**Art. 0/353 - 0/653**  
Standard galvanized fastening supports

## OTHER ACCESSORIES



Cod. 677610  
**Art. NET230N/C**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder **(with box)**



Cod. 672590  
**Art. TR4**

Remote control  
Black version art. TR4N also available (page 118)



Cod. 662044  
**Art. LINEAR**

Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



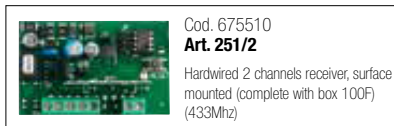
Cod. 663060  
**Art. KYO**

Aluminium vandal-proof keyswitch, flush mounted.



Cod. 664020  
**Art. PILLY/base**

Pair of fixing plates for columns to be cemented.



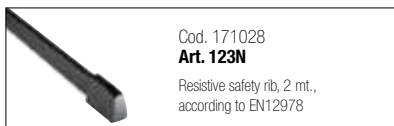
Cod. 675510  
**Art. 251/2**

Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 136005  
**Art. D**

Double European cylinder



Cod. 171028  
**Art. 123N**

Resistive safety rib, 2 mt., according to EN12978



Cod. 661062  
**Art. LED230AI**

Led flashing light 230V with built-in antenna 433Mhz



Cod. 662020  
**Art. 104MINILUX**

Pair of surface mounted photocells. Range 20 mt



Cod. 662043  
**Art. LINEAR/B**

Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 663280  
**Art. DIGIRAD**

Wireless keypad



Cod. 664000  
**Art. PILLY/60**

Pair of aluminium columns for photocells, height 55 cm.



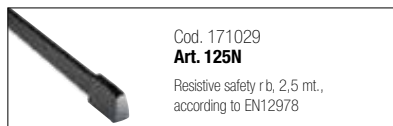
Cod. 136024  
**Art. 1100**

Horizontal electric lock complete with double cylinder and horizontal selvsage art. 109A



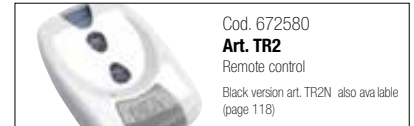
Cod. 136004  
**Art. M**

Half European cylinder



Cod. 171029  
**Art. 125N**

Resistive safety rib, 2,5 mt., according to EN12978



Cod. 672580  
**Art. TR2**

Remote control  
Black version art. TR2N also available (page 118)



Cod. 662030  
**Art. 104LUX**

Pair of adjustable (15°) surface mounted photocells



Cod. 681060  
**Art. COVER**

Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663270  
**Art. DIGINET**

Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



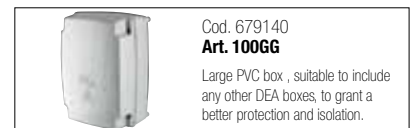
Cod. 664010  
**Art. PILLY/120**

Pair of aluminium columns for photocells, height 100 cm.



Cod. 136006  
**Art. 110V**

Empty electric lock (without European cylinder) with ground selvsage art. 109



Cod. 679140  
**Art. 100GG**

Large PVC box, suitable to include any other DEA boxes, to grant a better protection and isolation.

# GEKO

Electromechanical automations for swing gates

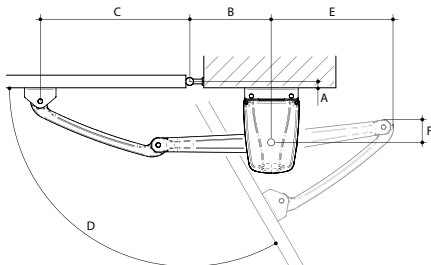


## NET24N 24V d.c. operators with control board and encoder

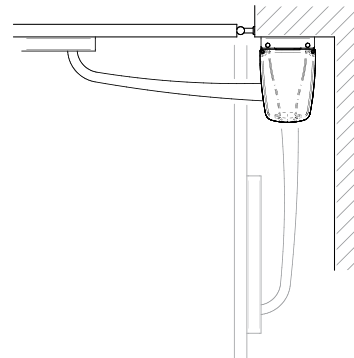
COD.	Art.	EN	Encoder	NET24N	OTHER CHARACTERISTICS
628000	<b>GEKO</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	•	•	NET24N - 1 operator - Mechanical limit switches - Speed adjustment and slow down in opening and closing
628010	<b>GEKO/2</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	•	•	NET24N - 2 operators - Mechanical limit switches - Speed adjustment and slow down in opening and closing

**All models have:** Fixing plate included, arm not included (see on page 56)

## DIMENSIONS WITH ARMS



**Articulated arm**

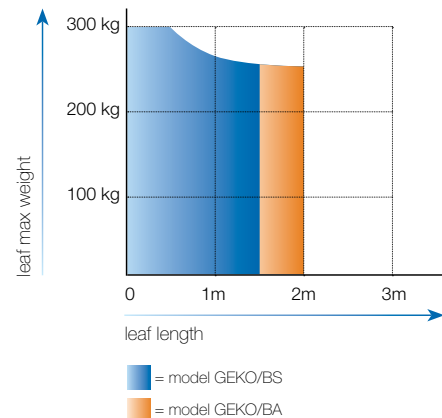


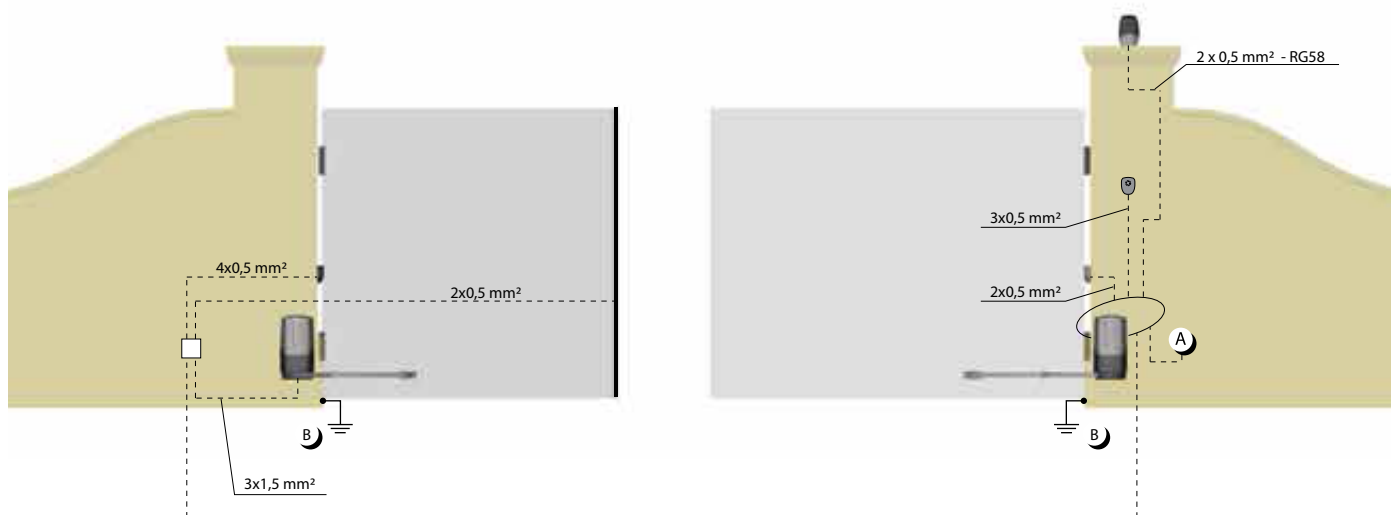
**Sliding arm**

Refer to instructions manual for installation dimensions

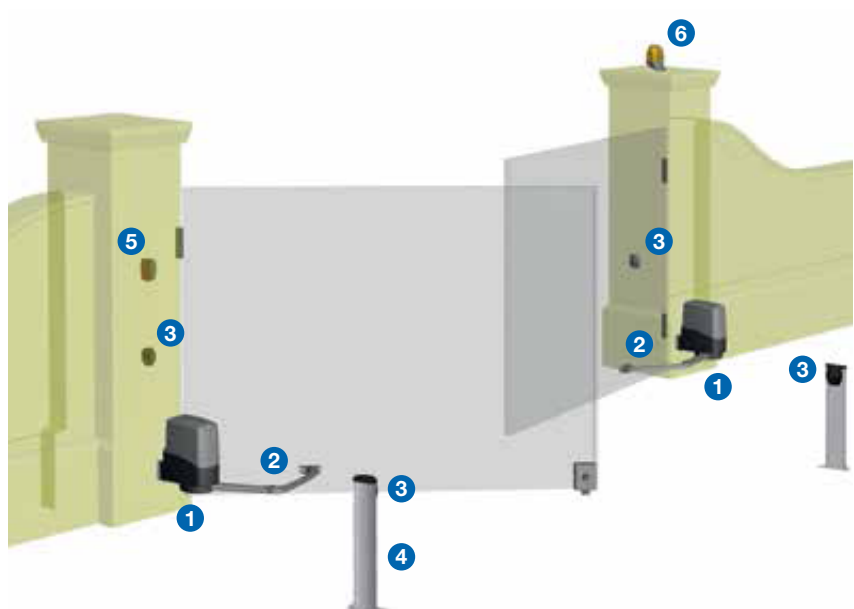
TECHNICAL INFO	GEKO
Motor power supply (V)	24 DC
Maximum power absorption (W)	80
Max thrust (N)	180
Duty cycle (cycles/hours)	20
N. max cycles in 24h.	60
Operating temperature (°C)	-20 ÷ 50
90° Opening time (s)	16
Weight with packing (Kg)	12
Protection degree	IP44

### GUIDE TO USE

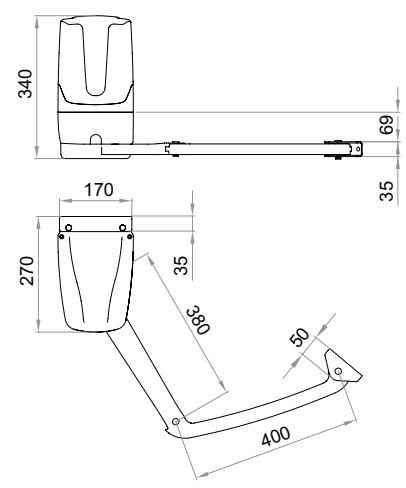




EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



**1**  Cod. 628010  
**Art. GEKO/2**  
Electromechanical operator for swing gates

**2**  Cod. 629260  
**Art. GEKO/BA**  
Aluminium articulated arm

**3**  Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells

**4**  Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.

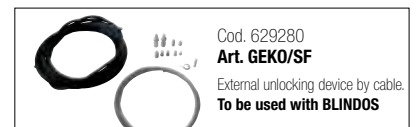
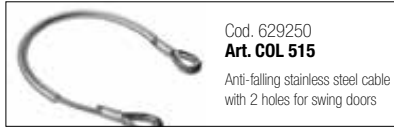
**5**  Cod. 663030  
**Art. 102LUX**  
Keyswitch with two contacts, flush mounted. Supplied with 2 keys.

**6**  Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz

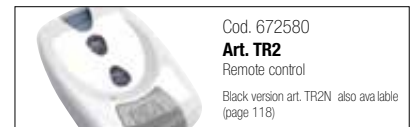
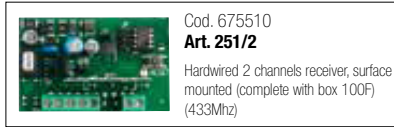
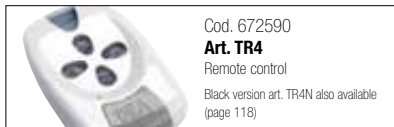
 Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)

 Cod. 668010  
**Art. 127**  
Warning sign

## SPECIFIC ACCESSORIES



## OTHER ACCESSORIES





# LIVI 502

Electromechanical automations for swing gates



## NET230N 230V a.c. operators without control board and arm

COD.	Art.			OTHER CHARACTERISTICS
623120	<b>502</b>	•		For leaves up to 3 mt. long
623140	<b>502L</b>	•		<b>Slow version</b> , for leaves up to 4,5 mt. long
623121	<b>502EN</b>	•	•	With encoder, for leaves up to 4,5 mt. long
623130	<b>502R</b>	•		<b>Not self-locking</b> for leaves up to 3 mt. long

**All models have:** Fixing plate included, arm not included (see on page 60)

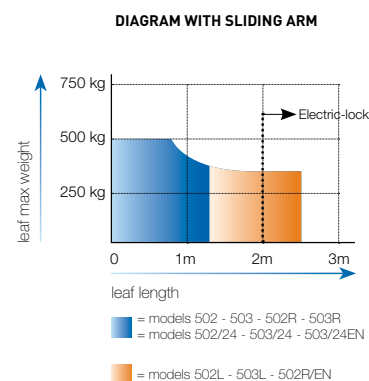
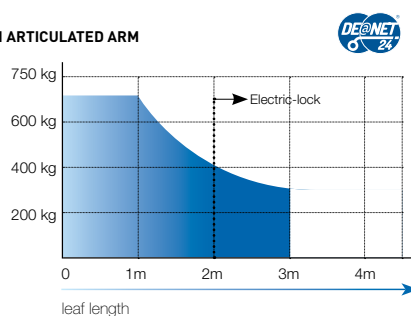
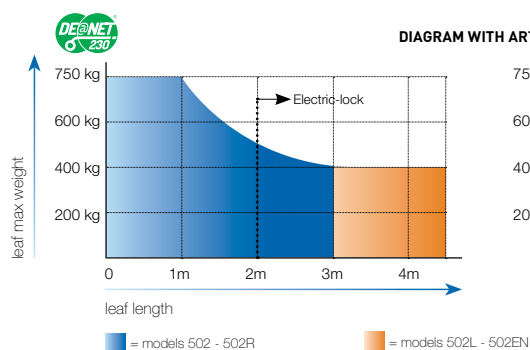
**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

## NET24N 24V d.c. operators without control board and arm

COD.	Art.			OTHER CHARACTERISTICS
623180	<b>502/24</b>	• •		For leaves up to 3 mt. long
623181	<b>502/24EN</b>	• •	•	With encoder, for leaves up to 3 mt. long

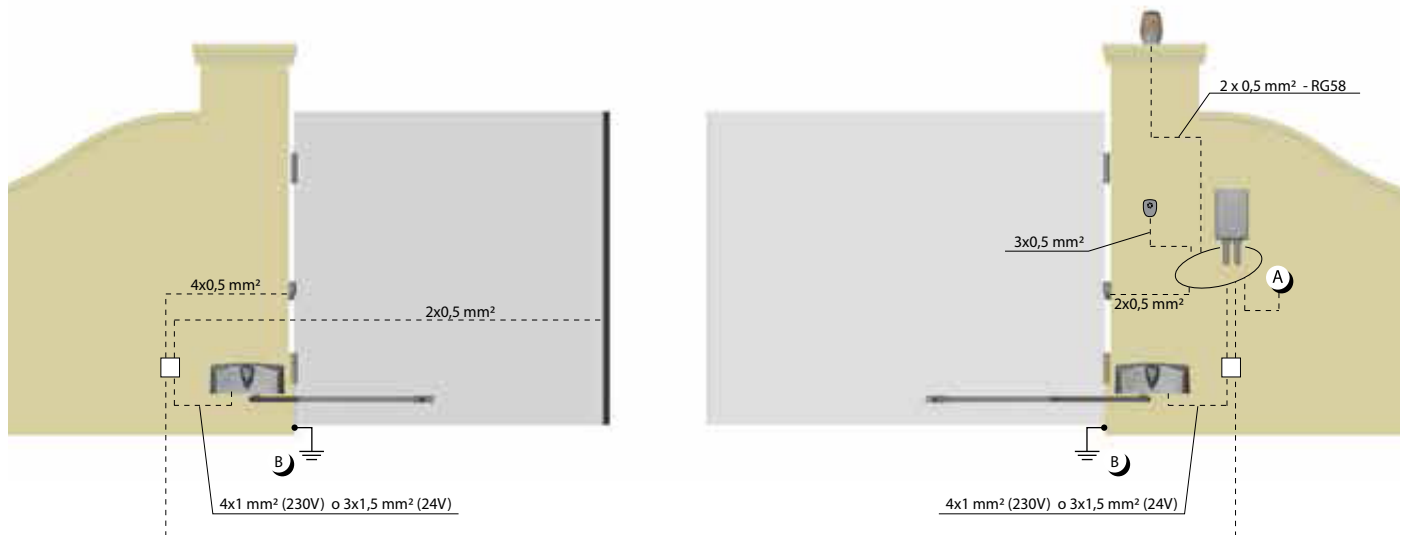
**All models have:** Fixing plate included, arm not included (see on page 60)

**Control board to complete the installation:** control board cod. 678261 art. NET24N/C (with box)

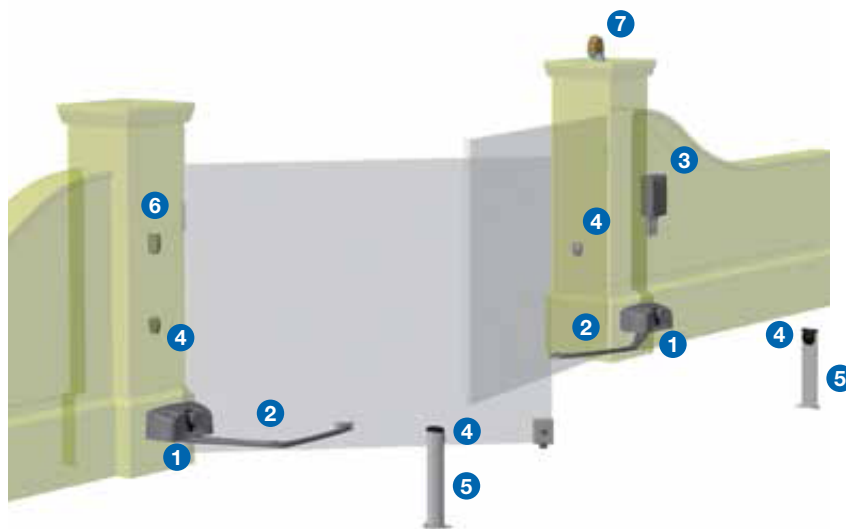


If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position. The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

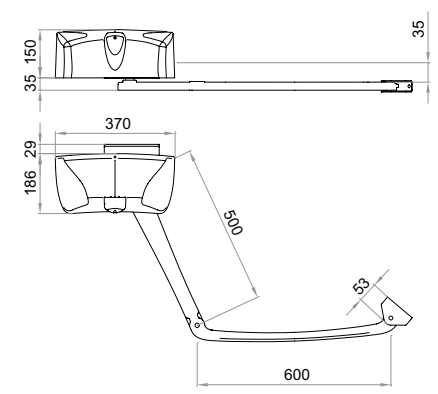
TECHNICAL INFO	502 502EN	502R	502L	502/24 502/24EN
Motor power supply (V)	230 AC $\pm$ 10 % (50/60 Hz)	230 AC $\pm$ 10 % (50/60 Hz)	230 AC $\pm$ 10 % (50/60 Hz)	24 DC
Maximum power absorption (W)	300	300	300	80
Max thrust (N)	295	162	260	180
Duty cycle (cycles/hours)	22 -25 (vers. 502EN)	22	22	35
N. max cycles in 24h.	110	110	110	140
Built-in capacitor ( $\mu$ F)	8	8	8	/
Operating temperature ( $^{\circ}$ C)	-20 $\div$ 50	-20 $\div$ 50	-20 $\div$ 50	-20 $\div$ 50
Motor thermal protection ( $^{\circ}$ C)	150	150	150	/
90 $^{\circ}$ Opening time (s)	12	9	18	10
Weight with packing (Kg)	13,5	13,5	13,5	13,2
Protection degree	IP44	IP44	IP44	IP44



EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS

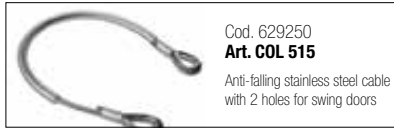


 <p><b>1</b> Cod. 623140 <b>Art. 502L</b> Electromechanical operator for swing gates</p>	 <p><b>2</b> Cod. 629130 <b>Art. 560A</b> Aluminium articulated arm</p>	 <p><b>3</b> Cod. 677610 <b>Art. NET230N/C</b> Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)</p> 
 <p><b>4</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>	 <p><b>5</b> Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>6</b> Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>
 <p><b>7</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

## SPECIFIC ACCESSORIES



Cod. 380960  
**Art. 560P**  
Vertical fixing plate



Cod. 629250  
**Art. COL 515**  
Anti-falling stainless steel cable with 2 holes for swing doors



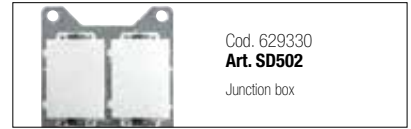
Cod. 629100  
**Art. 560M**  
External unlocking device by cable.  
**To be used with BLINDOS**



Cod. 639111  
**Art. 560F - 960F**  
Limit switches



Cod. 629350  
**Art. KIT CLIMB**  
Adapter kit for doors in slope  
**Max. door length mt. 2 - 150 Kg.**  
**Max. gradient 12%**

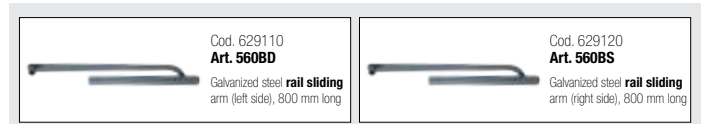


Cod. 629330  
**Art. SD502**  
Junction box



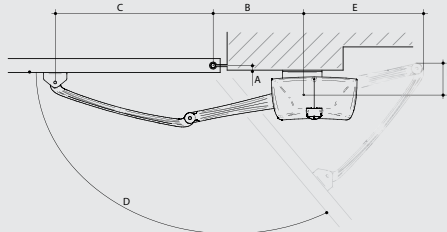
Cod. 629130  
**Art. 560A**  
Aluminium articulated arm

Cod. 629140  
**Art. 560BV**  
Painted galvanized steel articulated arm

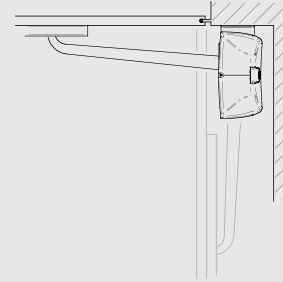


Cod. 629110  
**Art. 560BD**  
Galvanized steel rail sliding arm (left side), 800 mm long

Cod. 629120  
**Art. 560BS**  
Galvanized steel rail sliding arm (right side), 800 mm long



For installation dimensions refer to instructions manuals



## OTHER ACCESSORIES



Cod. 678261  
**Art. NET24N/C**

Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder **(with box)**



Cod. 677610  
**Art. NET230N/C**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder **(with box)**



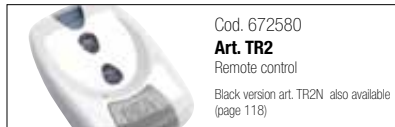
Cod. 661082  
**Art. LED24AI**

Led flashing light 24V with built-in antenna 433Mhz



Cod. 661062  
**Art. LED230AI**

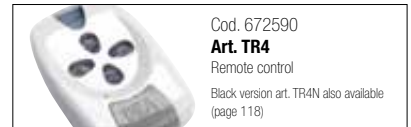
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**

Remote control

Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**

Remote control

Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**

Pair of surface mounted photocells, Range 20 mt



Cod. 662030  
**Art. 104LUX**

Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**

Pair of adjustable photocells (180°) with possibility of synchronized operating, Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**

Pair of adjustable photocells (180°) with tx supplied by a LiOn battery, Range 7/15 Mt



Cod. 681060  
**Art. COVER**

Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**

Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**

Wireless keypad



Cod. 663270  
**Art. DIGINET**

Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



Cod. 664020  
**Art. PILLY/base**

Pair of fixing plates for columns to be cemented.



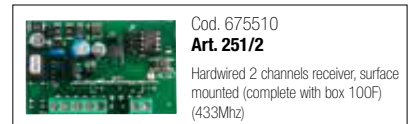
Cod. 664000  
**Art. PILLY/60**

Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**

Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**

Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290  
**Art. BAT**

Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050  
**Art. Green Energy**

Solar power kit complete with art. CHARGER



Cod. 665000  
**Art. BLINDOS**

Safety enclosure to place external unlocking device handle



Cod. 136024  
**Art. 1100**

Horizontal electric lock complete with double cylinder and horizontal selvage art. 109A



Cod. 136006  
**Art. 110V**

Empty electric lock (without European cylinder) with ground selvage art. 109



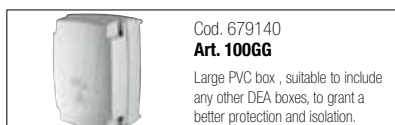
Cod. 136005  
**Art. D**

Double European cylinder



Cod. 136004  
**Art. M**

Half European cylinder



Cod. 679140  
**Art. 100GG**

Large PVC box, suitable to include any other DEA boxes, to grant a better protection and isolation.

# ANGOLO

Electromechanical automations for swing gates

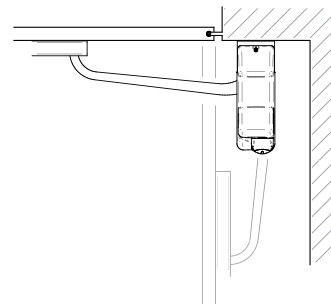
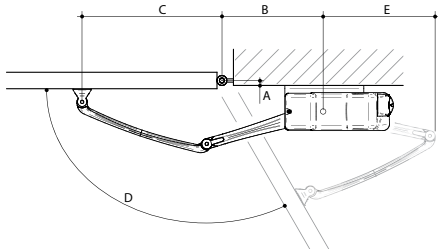


## NET24N 24V d.c. operators with control board

COD.	Art.	EN	Icon	Model	OTHER CHARACTERISTICS
626300	<b>ANGOLO 24NET/1</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	•	NET24N	- 1 operator - Anti-crushing safety device - Speed adjustment during normal cycle and slow down in opening and closing
626310	<b>ANGOLO 24NET/2</b>	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	•	NET24N	- 2 operators - Anti-crushing safety device - Speed adjustment during normal cycle and slow down in opening and closing

All models have: arm and mounting plate not included (see on page 64)

## DIMENSIONS WITH ARMS



Refer to instructions manual for installation dimensions

DIAGRAM WITH ARTICULATED ARM

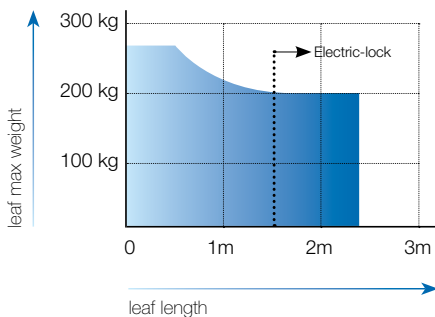
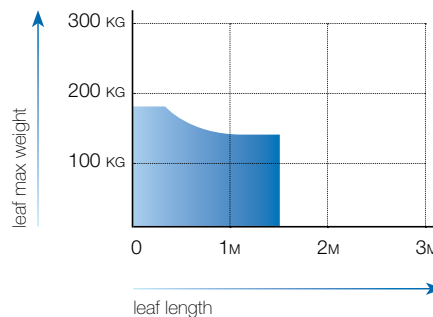


DIAGRAM WITH SLIDING ARM

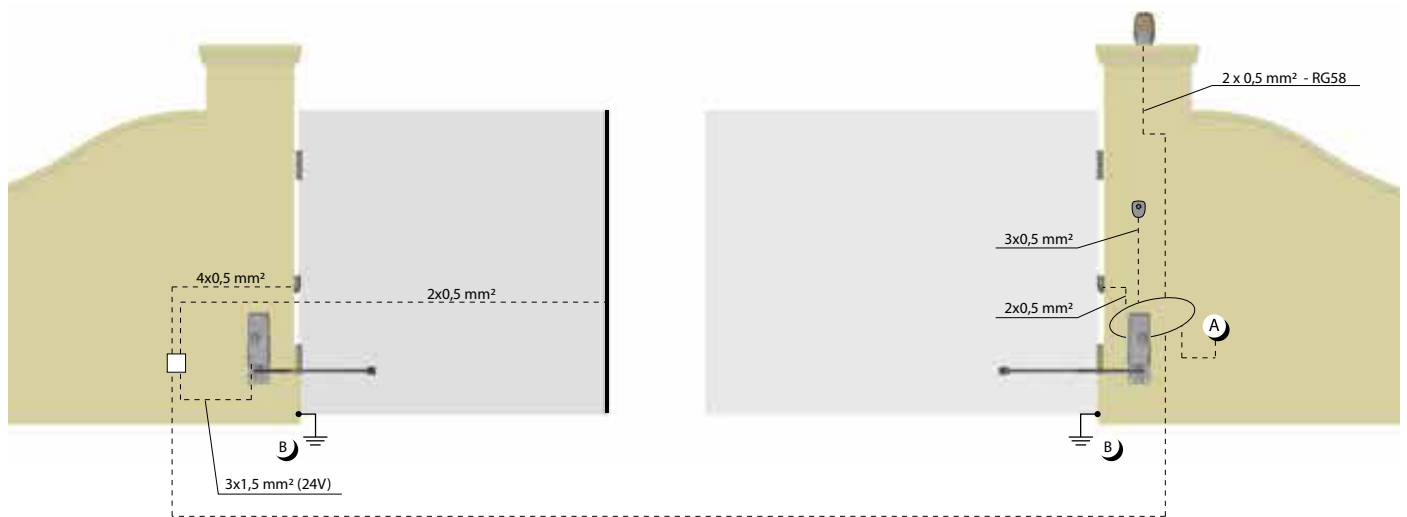


If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

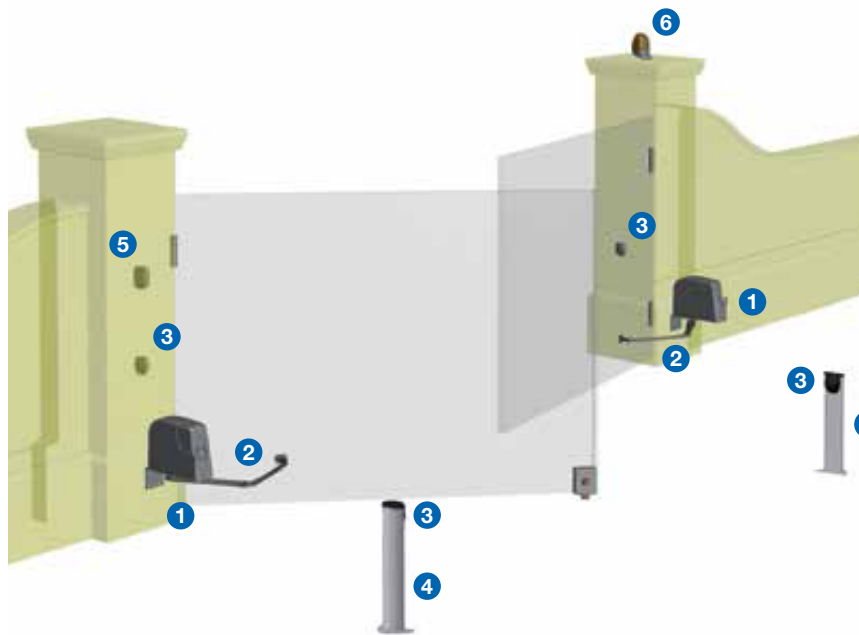
The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.

TECHNICAL INFO	ANGOLO 24NET
Motor power supply (V)	24 DC
Maximum power absorption (W)	60
Max thrust (N)	120
Duty cycle (cycles/hours)	25
N. max cycles in 24h.	60

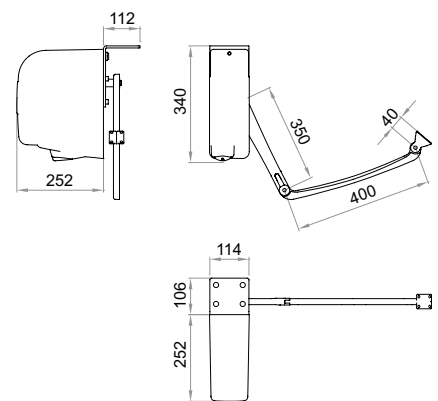
TECHNICAL INFO	ANGOLO 24NET
Operating temperature (°C)	-20 ÷ 50
90° Opening time (s)	15
Weight with packing (Kg)	12,5
Protection degree	IP44



EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



  <p>Cod. 626010 <b>Art. ANGOLO 24NET/2</b> Electromechanical operator for swing gates</p>	  <p>Cod. 629160 <b>Art. 580A</b> Aluminium articulated arm</p>	  <p>Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>
  <p>Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	  <p>Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>	  <p>Cod. 661082 <b>Art. LED24AI</b> Led flashing light 24V with built-in antenna 433Mhz</p>
 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 381060 <b>Art. 580V</b> Vertical mounting plate</p>	 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

## SPECIFIC ACCESSORIES



Cod. 629160  
**Art. 580A**  
Aluminium articulated arm



Cod. 629170  
**Art. 580**  
Galvanized steel rail sliding arm (right/left side)



Cod. 381070  
**Art. 580L**  
Horizontal mounting plate



Cod. 381060  
**Art. 580V**  
Vertical mounting plate



Cod. 629200  
**Art. 580M**  
External unlocking device by cable.  
**To be used with BLINDOS**

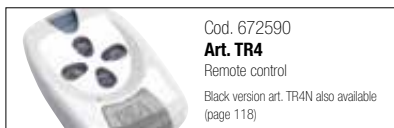


Cod. 629250  
**Art. COL 515**  
Anti-falling stainless steel cable with 2 holes for swing doors

## OTHER ACCESSORIES



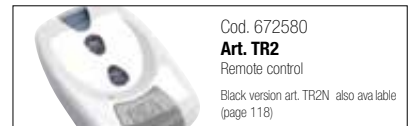
Cod. 678251  
**Art. NET24N**  
Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells. Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 662043  
**Art. LINEAR/B**  
Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



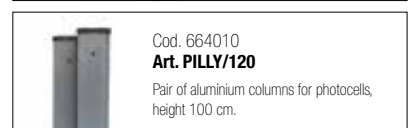
Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



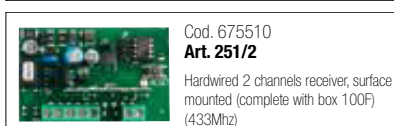
Cod. 664020  
**Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510  
**Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290  
**Art. BAT**  
Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050  
**Art. Green Energy**  
Solar power kit complete with art. CHARGER



Cod. 665000  
**Art. BLINDOS**  
Safety enclosure to place external unlocking device handle



Cod. 136024  
**Art. 1100**  
Horizontal electric lock complete with double cylinder and horizontal selvsage art. 109A



Cod. 136006  
**Art. 110V**  
Empty electric lock (without European cylinder) with ground selvsage art. 109



Cod. 136005  
**Art. D**  
Double European cylinder



Cod. 136004  
**Art. M**  
Half European cylinder



NEW

# GHOST 100

Electromechanical underground automations for swing gates



## NET230N 230V a.c. operators without control board, with mechanic limit switches

COD.	Art.			OTHER CHARACTERISTICS
621250	<b>100</b>	●		Underground operator with connection lever and <b>mechanical limit switches</b>
621252	<b>100/CL</b>	●		Underground operator with connection lever, <b>mechanical limit switches</b> and <b>complete with 7 m of cable</b>
621251	<b>100/EN</b>	●	●	Underground operator with connection lever, <b>mechanical limit switches</b> and encoder
621253	<b>100EN/CL</b>	●	●	Underground operator with connection lever, <b>mechanical limit switches</b> , encoder and <b>complete with 7 m of cable</b>

**All models have:** foundation box not included (see on page 68)

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

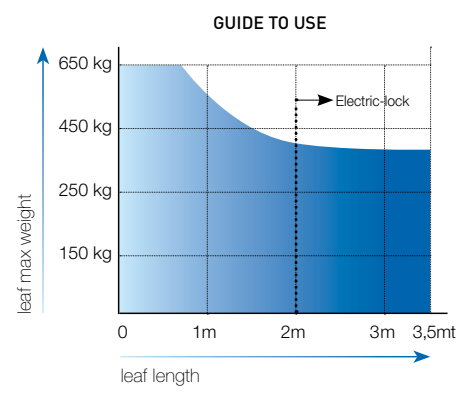
## NET24N 24V d.c. operators without control board, with mechanic limit switches

COD.	Art.			OTHER CHARACTERISTICS
621260	<b>100/24</b>	● ●		Underground operator with connection lever and <b>mechanical limit switches</b>
621262	<b>100/24CL</b>	● ●		Underground operator with connection lever, <b>mechanical limit switches</b> and <b>complete with 7 m of cable</b>
621261	<b>100/24EN</b>	● ●	●	Underground operator with connection lever, <b>mechanical limit switches</b> and encoder
621263	<b>100/24EN/CL</b>	● ●	●	Underground operator with connection lever, <b>mechanical limit switches</b> , encoder and <b>complete with 7 m of cable</b>

**All models have:** foundation box not included (see on page 68)

**Control board to complete the installation:** control board cod. 678261 art. NET24N/C (with box)

TECHNICAL INFO	100 - 100/CL	100/24 - 100/24CL
	100/EN - 100EN/CL	100/24EN - 100/24ENCL
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)	24V DC
Maximum power absorption (W)	250	50
Coppia max (Nm)	250	170
Duty cycle (cycles/hours)	18 - 25 (vers. 100EN)	35
N. max cycles in 24h.	120	140
Built-in capacitor (µF)	8	/
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	/
90° Opening time (s)	16	15
Weight with packing (Kg)	14	14
Protection degree	IP67	IP67

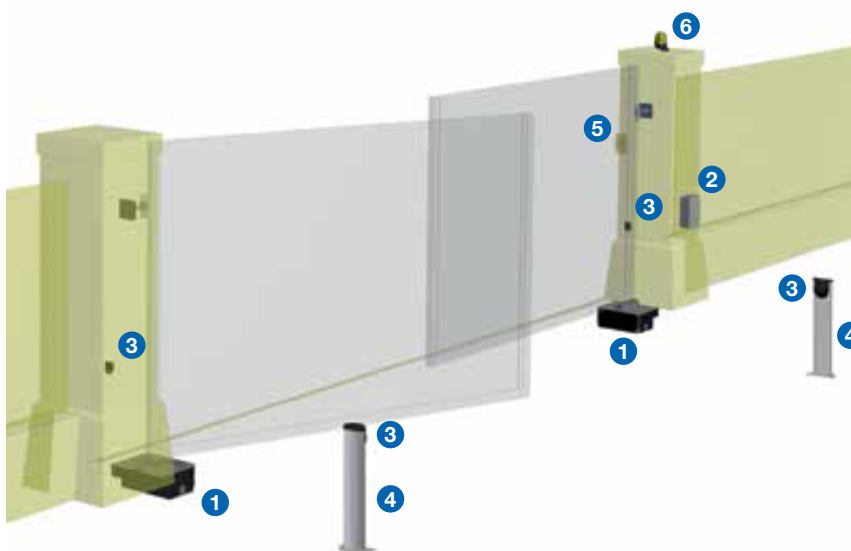


If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

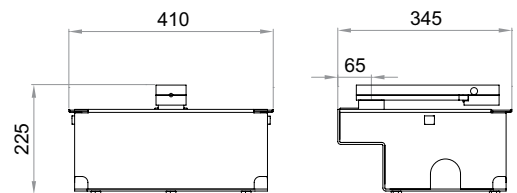
The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.



EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



 <p><b>1</b> Cod. 629003 <b>Art. 115</b> Foundation box with <b>cataphoresis</b> treatment complete with gate support and unlocking device</p>	 <p><b>1</b> Cod. 621251 <b>Art. 100/EN</b> Electromechanical underground operator for swing gates</p>	 <p><b>2</b> Cod. 677610 <b>Art. NET230N/C</b> Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (<b>with box</b>)</p> 
 <p><b>3</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>	 <p><b>4</b> Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>5</b> Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>
 <p><b>6</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

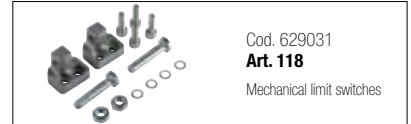
## SPECIFIC ACCESSORIES



Cod. 629003 **Art. 115**  
Foundation box with **cataphoresis** treatment complete with gate support and unlocking device



Cod. 629013 **Art. 115I**  
Stainless steel foundation box complete with gate support and unlocking device

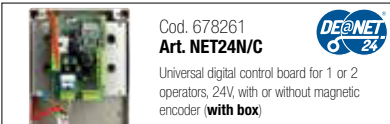


Cod. 629031 **Art. 118**  
Mechanical limit switches



Cod. 629021 **Art. 116G**  
Device to be fixed into boxes 115 or 115I to get an opening angle up to 180°.

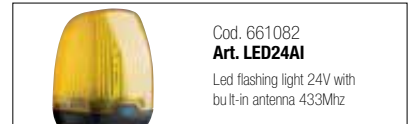
## OTHER ACCESSORIES



Cod. 678261 **Art. NET24N/C**  
Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder (**with box**)



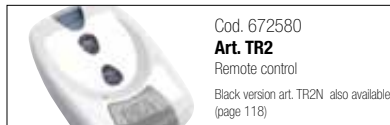
Cod. 677610 **Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (**with box**)



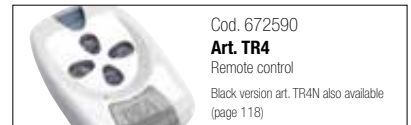
Cod. 661082 **Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



Cod. 661062 **Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580 **Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 672590 **Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020 **Art. 104MINILUX**  
Pair of surface mounted photocells. Range 20 mt



Cod. 662030 **Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044 **Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 662043 **Art. LINEAR/B**  
Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 681060 **Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060 **Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



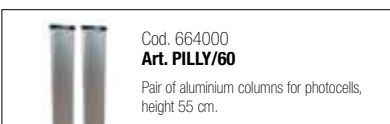
Cod. 663280 **Art. DIGIRAD**  
Wireless keypad



Cod. 663270 **Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



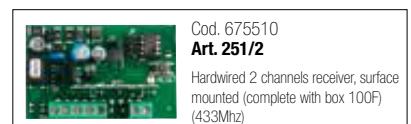
Cod. 664020 **Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000 **Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010 **Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510 **Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290 **Art. BAT**  
Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050 **Art. Green Energy**  
Solar power kit complete with art. CHARGER



Cod. 665000 **Art. BLINDOS**  
Safety enclosure to place external unlocking device handle

# GHOST 200

Electromechanical underground automations for swing gates



## NET230N 230V a.c. operators without control board

COD.	Art.			OTHER CHARACTERISTICS
621000	<b>200</b>	• •		Underground operator with connection lever
621040	<b>200CL</b>	• •		Underground operator with connection lever and complete with 8 m of cable
621010	<b>200L</b>	• •		Underground operator with connection lever, slow version
621060	<b>200/EN</b>	• •	•	Underground operator with connection lever and encoder
621070	<b>200/CLEN</b>	• •	•	Underground operator with connection lever, encoder and complete with 8 m of cable

**All models have:** foundation box and limit switches not included (see on page 72)

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

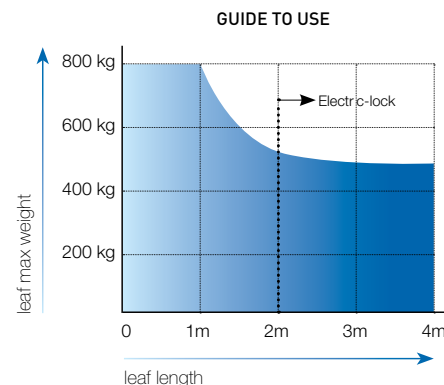
## NET24N 24V d.c. operators without control board

COD.	Art.		OTHER CHARACTERISTICS
621020	<b>200/24</b>	• • •	Underground operator with connection lever
621050	<b>200/24CL</b>	• • •	Underground operator with connection lever and complete with 8 m of cable

**All models have:** foundation box and limit switches not included (see on page 72)

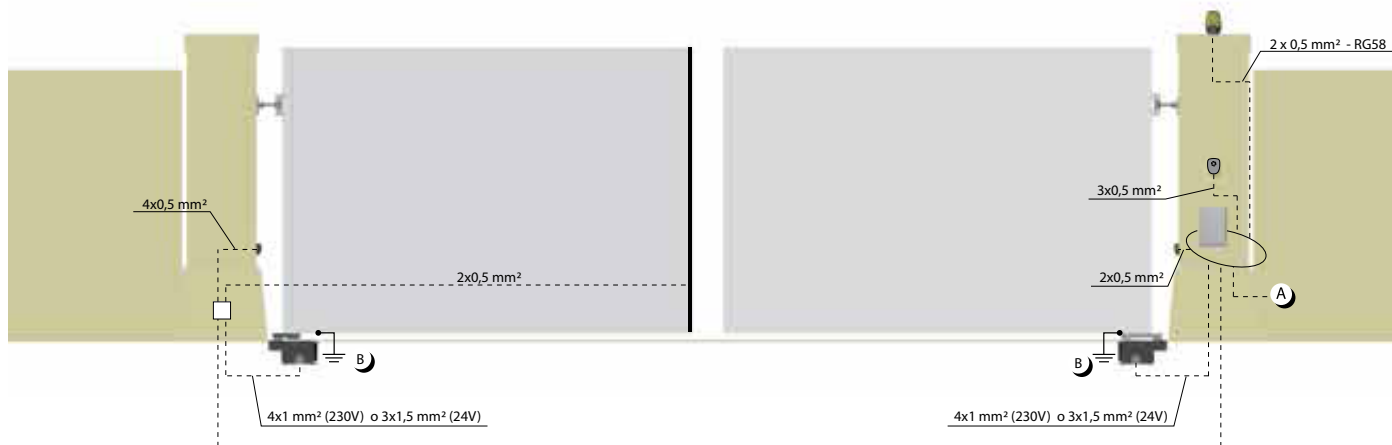
**Control board to complete the installation:** control board cod. 678261 art. NET24N/C (with box)

TECHNICAL INFO	200 - 200CL 200/EN - 200/CLEN	200L	200/24 200/24CL
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)	230 AC ± 10 % (50/60 Hz)	24 DC
Maximum power absorption (W)	400	330	150
Max thrust (N)	320	300	210
Duty cycle (cycles/hours)	20 - 28 (vers. 200/EN)	18	40
N. max cycles in 24h.	200	200	280
Built-in capacitor (µF)	12,5	12,5	
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	150	/
90° Opening time (s)	17	26	16
Weight with packing (Kg)	14,5	14,5	14
Protection degree	IP67	IP67	IP67

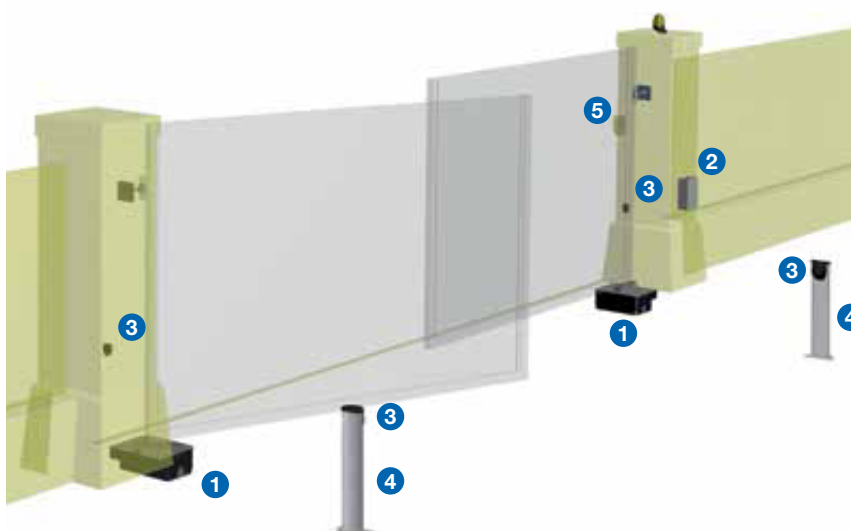


If the leaf length is bigger than 2 meters or if you use reversible models you must install the electric-lock to block the gate in closed position

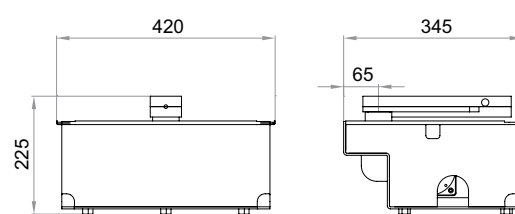
The height and the leaf structure, as well as the presence of strong wind, can cause the reduction of the value of the data contained in table.




EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



 <p><b>1</b> Cod. 629000 <b>Art. 215</b> Foundation box with <b>cataphoresis</b> treatment complete with gate support and unlocking device</p>	 <p><b>1</b> Cod. 621060 <b>Art. 200/EN</b> Electromechanical underground operator for swing gates</p>	 <p><b>2</b> Cod. 677610 <b>Art. NET230N/C</b> Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (<b>with box</b>)</p>
 <p><b>3</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>	 <p><b>4</b> Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	 <p><b>5</b> Cod. 663030 <b>Art. 102LUX</b> Keyswitch with two contacts, flush mounted. Supplied with 2 keys.</p>
 <p><b>6</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

## SPECIFIC ACCESSORIES



Cod. 629000 **Art. 215**  
Foundation box with **cataphoresis** treatment complete with gate support and unlocking device



Cod. 629010 **Art. 215I**  
Stainless steel foundation box complete with gate support and unlocking device

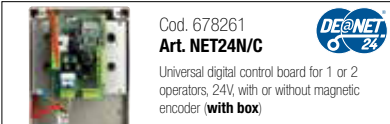


Cod. 629030 **Art. 218**  
Mechanical limit switch



Cod. 629020 **Art. 216**  
Device to be fixed into boxes 215 or 215I to get an opening angle up to 180°

## OTHER ACCESSORIES



Cod. 678261 **Art. NET24N/C**

Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder (**with box**)

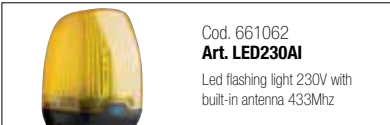


Cod. 677610 **Art. NET230N/C**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (**with box**)

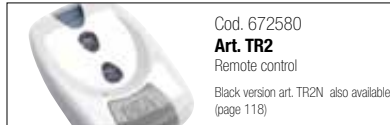


Cod. 661082 **Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz



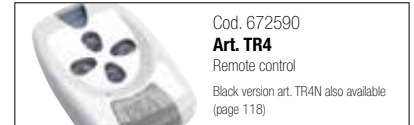
Cod. 661062 **Art. LED230AI**

Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580 **Art. TR2**  
Remote control

Black version art. TR2N also available (page 118)



Cod. 672590 **Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020 **Art. 104MINLUX**  
Pair of surface mounted photocells, Range 20 mt



Cod. 662030 **Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells



Cod. 662044 **Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating, Range 20 Mt



Cod. 662043 **Art. LINEAR/B**  
Pair of adjustable photocells (180°) with tx supplied by a LiOn battery, Range 7/15 Mt



Cod. 681060 **Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060 **Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



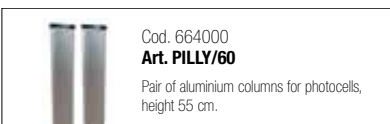
Cod. 663280 **Art. DIGIRAD**  
Wireless keypad



Cod. 663270 **Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



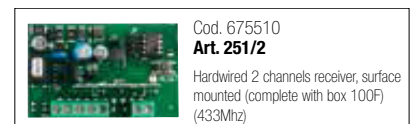
Cod. 664020 **Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.



Cod. 664000 **Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010 **Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.



Cod. 675510 **Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)



Cod. 629290 **Art. BAT**  
Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



Cod. 681050 **Art. Green Energy**  
Solar power kit complete with art. CHARGER

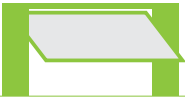


Cod. 665000 **Art. BLINDOS**  
Safety enclosure to place external unlocking device handle



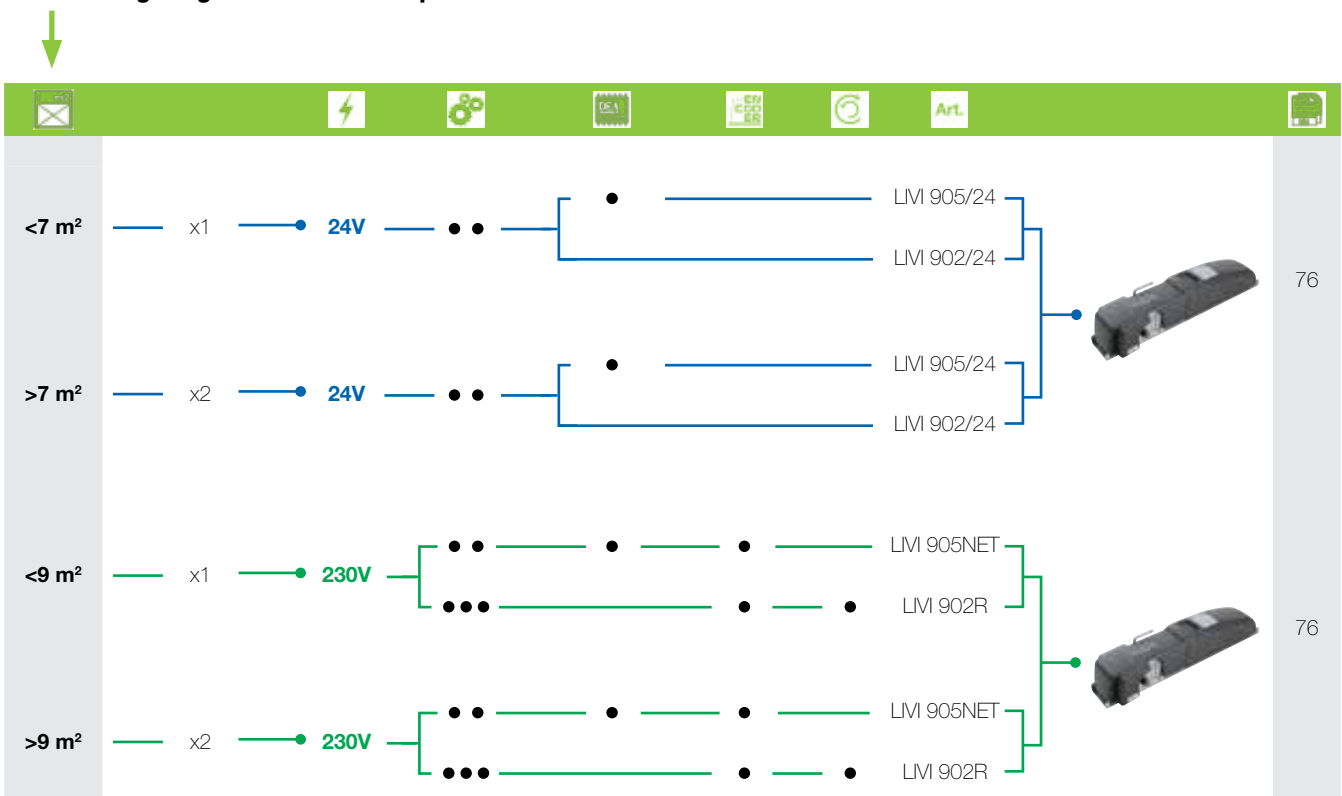
# RESIDENTIAL COUNTERWEIGHT DOORS AND SECTIONAL DOORS

Counterweight overhead doors and sectional doors automations



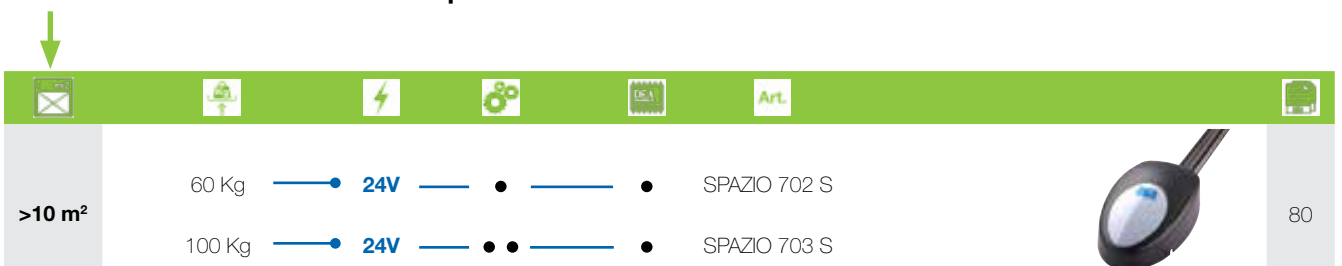
## SELECT THE AUTOMATION FOR YOUR COUNTERWEIGHT OVERHEAD DOOR

Select the **garage door size in square meters**



## SELECT THE AUTOMATION FOR YOUR SECTIONAL DOOR

Select the **sectional door size in square meters**



# LIVI 902

Automations for counterweight overhead door



## NET230N 230V a.c. operators with control board

COD.	Art.	EN	Icon	DEA	Rpm	EN COD ER	OTHER CHARACTERISTICS
633410	<b>905NET</b>	EN 12453	• •	NET230N	1.400	•	Magnetic encoder
633411	<b>905NET/P</b>	EN 12453	• •	NET230N	1.400	•	Integrated push-buttons Open/Close/Stop - magnetic encoder
633412	<b>905NET/BF</b>	EN 12453	• •	NET230N	1.400	•	Designed for unlocking device by cable - magnetic encoder
633413	<b>905NETP/BF</b>	EN 12453	• •	NET230N	1.400	•	Integrated push-buttons Open/Close/Stop - Designed for unlocking device by cable - magnetic encoder
633414	<b>905NET/IP</b>	EN 12453	• •	NET230N	1.400	•	Magnetic encoder - control board inside an IP44 box

## 230V a.c. operators without control board

COD.	Art.	Icon	Rpm	EN COD ER	OTHER CHARACTERISTICS
633360	<b>902EN</b>	• •	1.400	•	Magnetic encoder
633351	<b>902EN/BF</b>	• •	1.400	•	Designed for unlocking device by cable - magnetic encoder
633120	<b>902R</b>	• •	900		<b>Not self locking</b>

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box) 

## NET24N 24V d.c. operators with control board

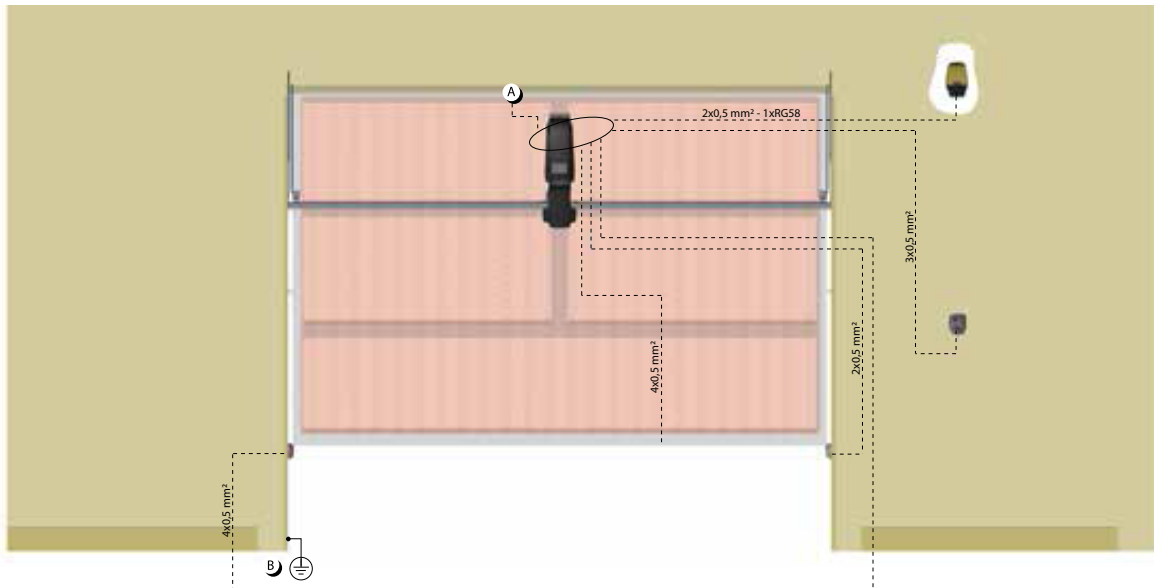
COD.	Art.	EN	Icon	DEA	Rpm	EN COD ER	OTHER CHARACTERISTICS
633430	<b>905/24NET</b>	EN 12453	• •	NET24N	1.400	•	Magnetic encoder
633431	<b>905/24NETP</b>	EN 12453	• •	NET24N	1.400	•	Integrated push-buttons Open/Close/Stop - magnetic encoder
633432	<b>905/24NET/BF</b>	EN 12453	• •	NET24N	1.400	•	Designed for unlocking device by cable - magnetic encoder
633433	<b>905/24NETP/BF</b>	EN 12453	• •	NET24N	1.400	•	Integrated push-buttons Open/Close/Stop - Designed for unlocking device by cable - magnetic encoder

## 24V d.c. operators without control board

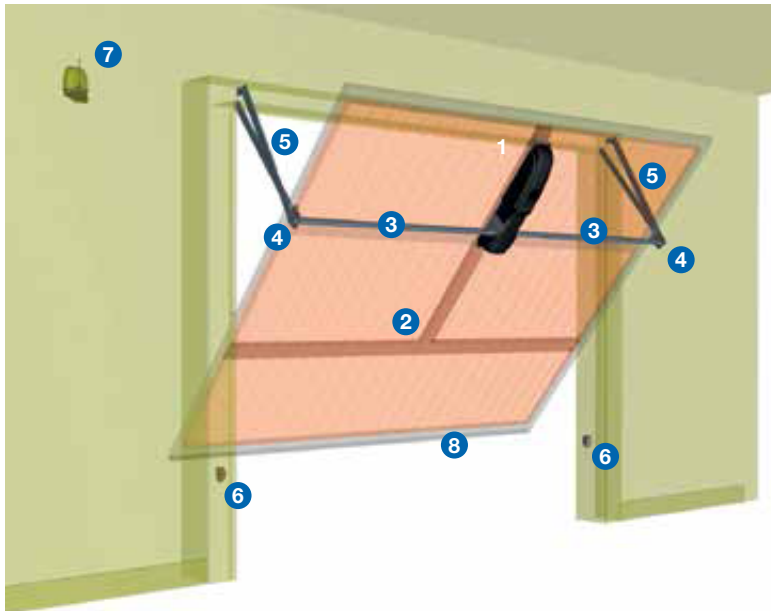
COD.	Art.	Icon	Rpm	EN COD ER	OTHER CHARACTERISTICS
633174	<b>902/24EN</b>	• •	1.400	•	Magnetic encoder
633175	<b>902/24EN/BF</b>	• •	1.400	•	Designed for unlocking device by cable - magnetic encoder

**Control board to complete the installation:** control board cod. 678261 art. NET24N/C (with box) 

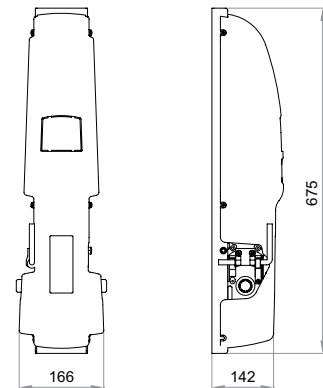
TECHNICAL INFO	902EN - 905NET - 905NET/P		905NET/IP	902R	905/24NET - 905/24NETP - 905/24NET/BF	
	902EN/BF - 905NET/BF - 905NETP/BF				905/24NETP/BF - 902/24EN - 902/24EN/BF	
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)		230 AC ± 10 % (50/60 Hz)		24 DC	
Maximum power absorption (W)	300		300	300	80	
Max thrust (N)	295		295	162	180	
Duty cycle (cycles/hours)	28		28	20	35	
N. max cycles in 24h.	220		220	160	290	
Built-in capacitor (µF)	8		8	8	\	
Operating temperature (°C)	-10 ÷ 40		-10 ÷ 40	-10 ÷ 40	-10 ÷ 40	
Motor thermal protection (°C)	150		150	150	\	
Speed (rpm)	1,7		1,7	2,2	2,2	
Weight with packing (Kg)	11		11	11	10	
Protection degree	IPX0		IP44	IPX0	IPX0	



EXAMPLE OF A TYPICAL INSTALLATION WITH 1 OPERATOR

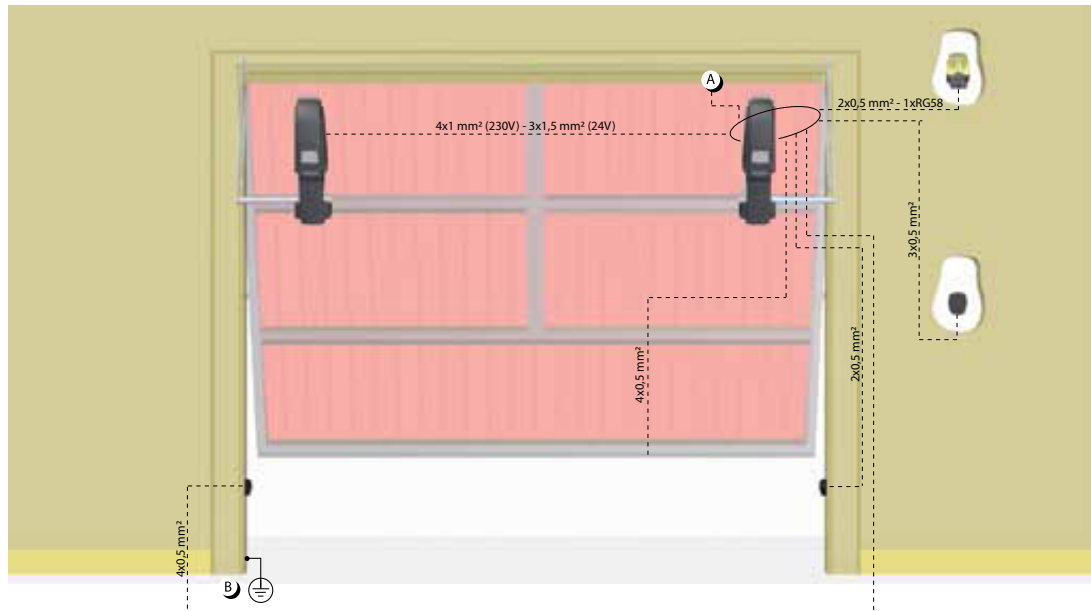


DIMENSIONS

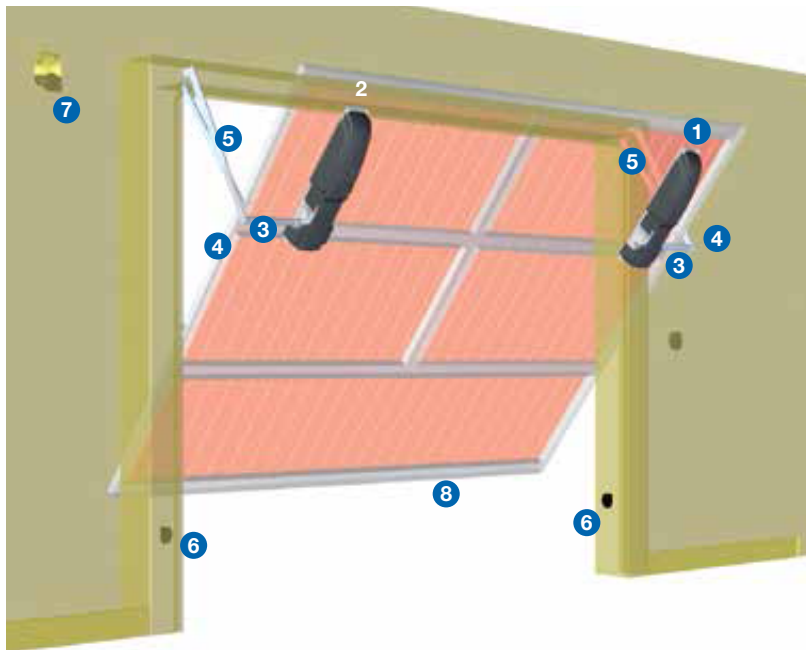


 <p><b>1</b> Cod. 633411 <b>Art. 905NET/P</b> Operator for counterweight overhead door</p>	 <p><b>2</b> Cod. 380380 <b>Art. 953NL</b> Fixing plate 1,99 mt.</p>	 <p><b>3</b> Cod. 639070 <b>Art. 952BL</b> Pair of pipes with bushing, 2 mt (for central mounting)</p>
 <p><b>4</b> od. 380990 <b>Art. 955V</b> Pipe support to be screwed for tube <math>\varnothing</math> 40.5 (for central mounting)</p>	 <p><b>5</b> Cod. 639140 <b>Art. 950V</b> Telescopic straight arm to be screwed, right and left</p>	 <p><b>6</b> Cod. 662030 <b>Art. 104LUX</b> Pair of adjustable (15°) surface mounted photocells</p>
 <p><b>7</b> Cod. 661062 <b>Art. LED230AI</b> Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 639100 <b>Art. 960C</b> Hole cover with Viro key for external unlocking</p>
 <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>	 <p><b>8</b> Cod. 667051 - <b>Art. SOFTP</b> Safety rubber profile (complete with aluminium base) useful to reduce the impact forces. 24 mt</p>	

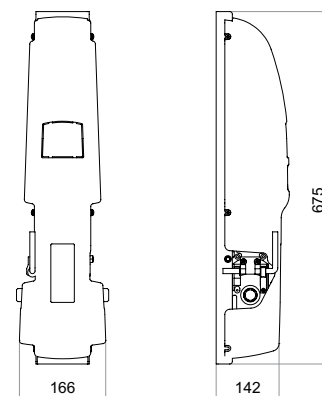
## ELECTRICAL DIAGRAM WITH 2 OPERATORS



## EXAMPLE OF A TYPICAL INSTALLATION WITH 2 OPERATORS



### DIMENSIONS

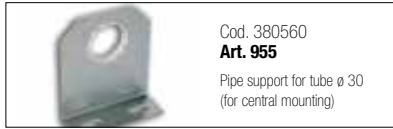


 <p><b>1</b></p> <p>Cod. 633411 <b>Art. 905NET/P</b></p> <p>Operator for counterweight overhead door</p>	 <p><b>2</b></p> <p>Cod. 633360 <b>Art. 902EN</b></p> <p>Operator for counterweight overhead door</p>	 <p><b>3</b></p> <p>Cod. 639160 <b>Art. 954V</b></p> <p>Splined bushing to be screwed, 300 mm.</p>
 <p><b>4</b></p> <p>od. 380990 <b>Art. 955V</b></p> <p>Pipe support to be screwed for tube <math>\varnothing</math> 40.5 (for central mounting)</p>	 <p><b>5</b></p> <p>Cod. 639140 <b>Art. 950V</b></p> <p>Telescopic straight arm to be screwed, right and left</p>	 <p><b>6</b></p> <p>Cod. 662030 <b>Art. 104LUX</b></p> <p>Pair of adjustable (15°) surface mounted photocells</p>
 <p><b>7</b></p> <p>Cod. 661062 <b>Art. LED230AI</b></p> <p>Led flashing light 230V with built-in antenna 433Mhz</p>	 <p>Cod. 672580 <b>Art. TR2</b></p> <p>Remote control Black version art. TR2N also available (page 118)</p>	 <p>Cod. 639100 <b>Art. 960C</b></p> <p>Hole cover with Viro key for external unlocking</p>
 <p><b>8</b></p> <p>Cod. 667051 - <b>Art. SOFTP</b></p> <p>Safety rubber profile (complete with aluminium base) useful to reduce the impact forces. 24 mt</p>	 <p>Cod. 668010 <b>Art. 127</b></p> <p>Warning sign</p>	

## SPECIFIC ACCESSORIES



Cod. 380360  
**Art. 953C**  
"C" fixing plate, 102x31  
L = 675mm (range 2)



Cod. 380560  
**Art. 955**  
Pipe support for tube ø 30  
(for central mounting)



Cod. 639040  
**Art. 950**  
Telescopic straight arm  
(40x10 pipe).



Cod. 639050  
**Art. 951**  
Telescopic bent arm to be  
welded (40x10 pipe).



Cod. 639360  
**Art. 950BS**  
Straight arm with splined  
500 mm bushing.



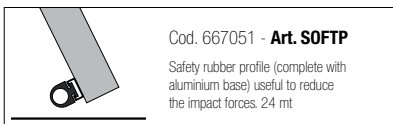
Cod. 639390  
**Art. 954D**  
Adapter splined bushing,  
square hole dims 20x20.



Cod. 639111  
**Art. 560F - 960F**  
Limit switches



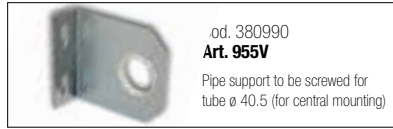
Cod. 639090  
**Art. 960K**  
Kit for external unlocking  
device (to be connected to  
the handle).



Cod. 667051 - **Art. SOFTP**  
Safety rubber profile (complete  
with aluminium base) useful to  
reduce the impact forces. 24 mt



Cod. 380370  
**Art. 953N**  
Fixing plate 1,3 mt.



Cod. 380990  
**Art. 955V**  
Pipe support to be screwed for  
tube ø 40.5 (for central mounting)



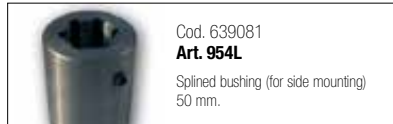
Cod. 639140  
**Art. 950V**  
Telescopic straight arm to be  
screwed, right and left



Cod. 639151 left  
**Art. 951V**  
Telescopic bent arm  
to be screwed.



Cod. 629190  
**Art. 560BT**  
Galvanized steel telescopic arm,  
**reinforced**, with splined bushing



Cod. 639081  
**Art. 954L**  
Splined bushing (for side mounting)  
50 mm.



Cod. 639121  
**Art. 960PN**  
Open/Close and Stop push  
buttons to be mounted on  
the cover.



Cod. 639170  
**Art. 960M**  
Unlocking device by cable.



Cod. 639550  
**Art. KITAVV**  
Accessories kit for counterweight doors, to be  
screwed: **1 x 953NL - 2 x 952BL**  
**2 x 950V - 2 x 955V - Warning sign**



Cod. 380380  
**Art. 953NL**  
Fixing plate 1,99 mt.



Cod. 639070  
**Art. 952BL**  
Pair of pipes with bushing,  
2 mt (for central mounting)



Cod. 639144  
**Art. 950VR**  
Telescopic **reinforced**  
straight arm to be screwed,  
right and left



Cod. 639150 right  
**Art. 951V**  
Telescopic bent arm  
to be screwed.



Cod. 639080  
**Art. 954**  
Splined bushing (for side mounting).



Cod. 639160  
**Art. 954V**  
Splined bushing to be  
screwed, 300 mm.



Cod. 639100  
**Art. 960C**  
Hole cover with Viro key  
for external unlocking



Cod. 639171  
**Art. 960ME**  
External unlocking device  
by cable

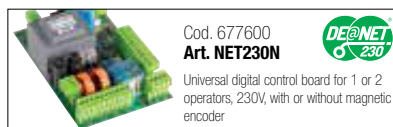


Cod. 639551  
**Art. KITSALD**  
Accessories kit for counterweight doors, to be  
welded: **1 x 953NL - 2 x 952BL**  
**2 x 950 - 2 x 954 - 2 x 955 - Warning sign**

## OTHER ACCESSORIES



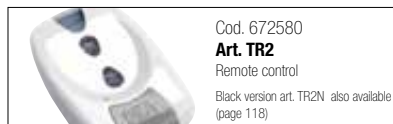
Cod. 678251  
**Art. NET24N**  
Universal digital control board for 1 or 2  
operators, 24V, with or without magnetic  
encoder



Cod. 677600  
**Art. NET230N**  
Universal digital control board for 1 or 2  
operators, 230V, with or without magnetic  
encoder



Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with  
built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available  
(page 118)



Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with  
built-in antenna 433Mhz



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available  
(page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells,  
Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface  
mounted photocells



Cod. 663030  
**Art. 102LUX**  
Keyswitch with two contacts, flush  
mounted. Supplied with 2 keys.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections  
to MASTER devices of range DE@NET  
(NET24N, NET230N, MASTERNET)



Cod. 629290  
**Art. BAT**  
Rechargeable batteries kit for 24V  
operators, 12V - 1.3Ah, complete  
with wiring cables

# SPAZIO

Automations for sectional and spring garage doors



## 24V d.c. operators with control board incorporated and limit switches

COD.	Art.	EN	Kg	Icon	Model	OTHER CHARACTERISTICS
485092	<b>702S</b>		60 kg	●	724RR	- Limit switches - Anti-crushing safety device - Speed adjustment and slow down in opening and closing
485101	<b>703S</b>		100 kg	●●	124RRZ*	- Limit switches - Anti-crushing safety device - Speed adjustment and slow down in opening and closing

**\*124RRZ: enhanced version with 100 kg traction force**

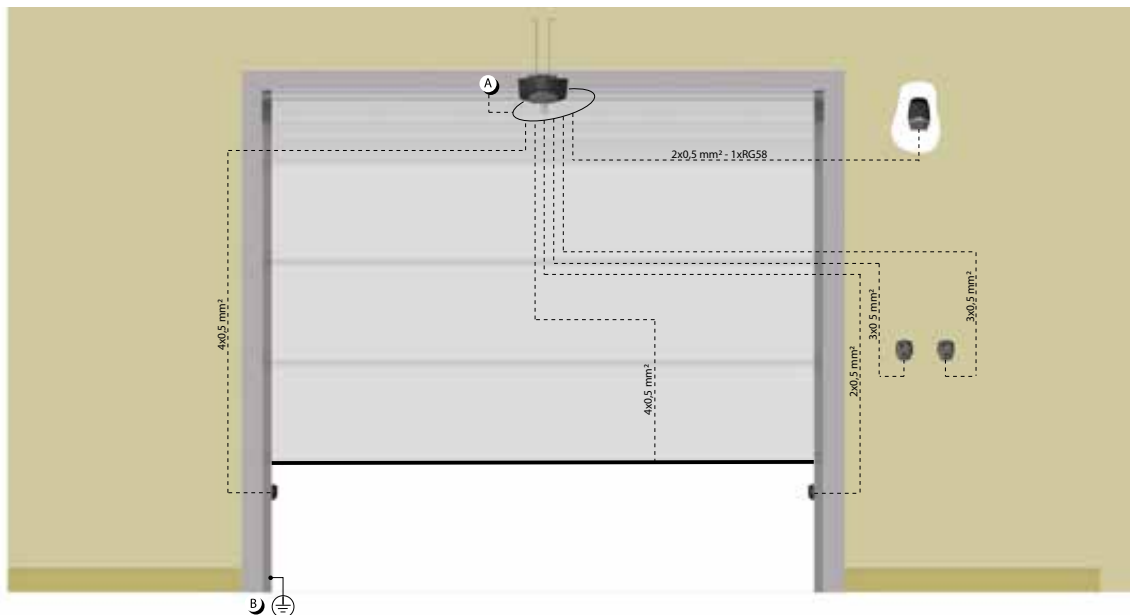
All models have: 1 remote art. MIO TR2 included - NOT INCLUDED: aluminium tracks.

## Preassembled aluminium tracks:

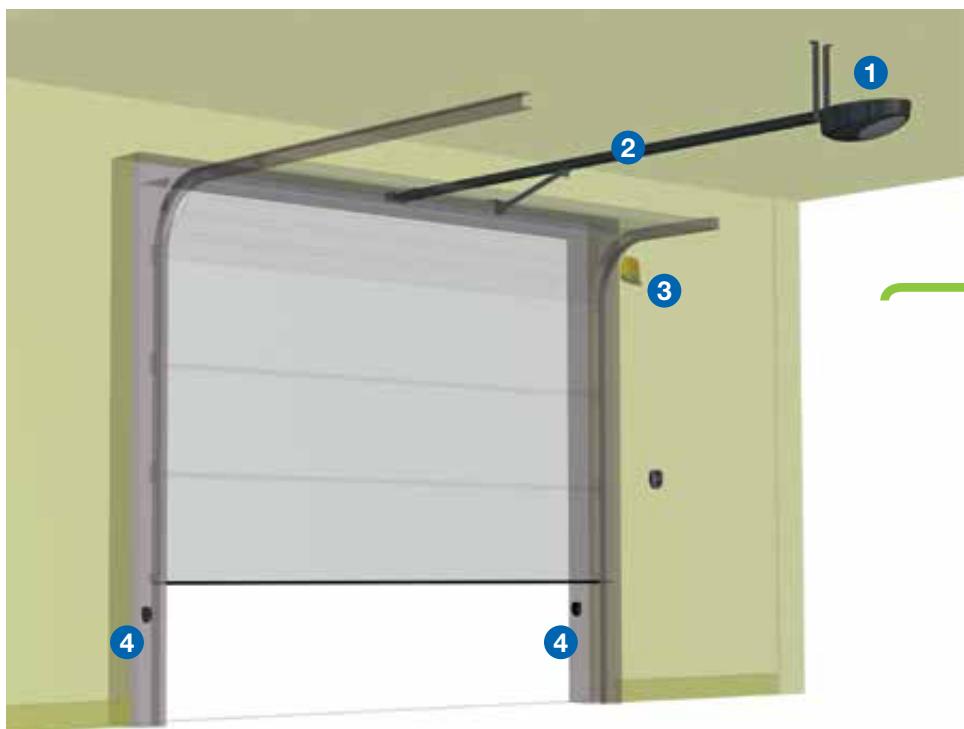
COD.	Art.	CHARACTERISTICS
485071	<b>714</b>	Standard track 2,82 mt. (in two pieces).
485074	<b>728</b>	Track 2,82 mt. (single piece).
485072	<b>731</b>	Track 3,10 mt. (single piece).
485073	<b>736</b>	Track 3,60 mt. (single piece).

TECHNICAL INFO	702S	703S
Motor power supply (V)	24 DC	24 DC
Maximum power absorption (W)	120	230
Max thrust (N)	500	1000
Duty cycle (cycles/hours)	20	25
N. max cycles in 24h.	60	75
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50
Speed (m/min)	5,3	6,9
Weight with packing (Kg)	15	15
Protection degree	IP20	IP20

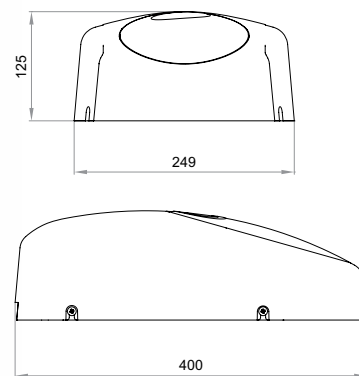





EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



**1**  Cod. 485092  
**Art. 702S**  
Operators for sectional and spring garage doors

**2**  Cod. 485072  
**Art. 731**  
Preassembled aluminium track, length 3100 mm. (single piece)

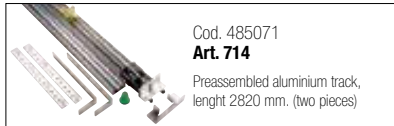
**3**  Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with built-in antenna 433Mhz

**4**  Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells

 Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)

 Cod. 668010  
**Art. 127**  
Warning sign

## SPECIFIC ACCESSORIES



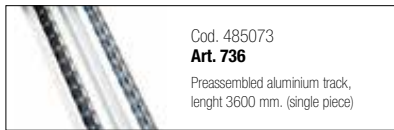
Cod. 485071  
**Art. 714**  
Preassembled aluminium track,  
length 2820 mm. (two pieces)



Cod. 485074  
**Art. 728**  
Preassembled aluminium track,  
length 2820 mm. (single piece)



Cod. 485072  
**Art. 731**  
Preassembled aluminium track,  
length 3100 mm. (single piece)



Cod. 485073  
**Art. 736**  
Preassembled aluminium track,  
length 3600 mm. (single piece)



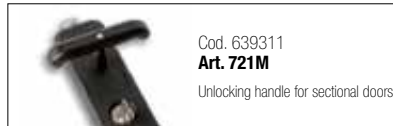
Cod. 639300  
**Art. 720**  
Chain and track extension (1 mt)  
for higher doors



Cod. 639320  
**Art. 721B**  
Unlocking device by cable.  
To be used with 721M  
and BLINDOS



Cod. 639330  
**Art. 721C**  
Special lever to unlock  
mechanical locks



Cod. 639311  
**Art. 721M**  
Unlocking handle for sectional doors



Cod. 639340  
**Art. 722**  
Arm to be used with  
counterweight doors



Cod. 639350  
**Art. 723**  
Arm adaptor for  
sectional doors



Cod. 639371  
**Art. 761C**  
External unlocking device  
complete with a hole cover lock



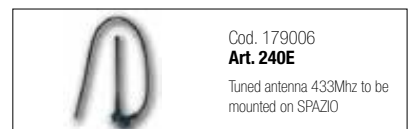
Cod. 639372  
**Art. 762C**  
Unlocking device by cable  
with lock



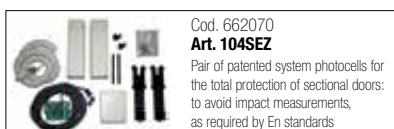
Cod. 639520  
**Art. micro**  
Save-spring micro switch



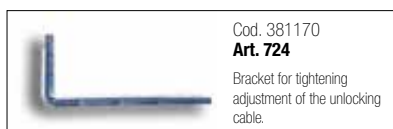
Cod. 639510  
**Art. SR**  
Unlocking device by two cables



Cod. 179006  
**Art. 240E**  
Tuned antenna 433Mhz to be  
mounted on SPAZIO

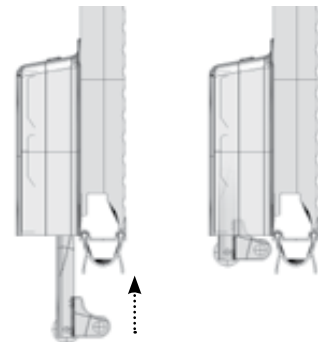
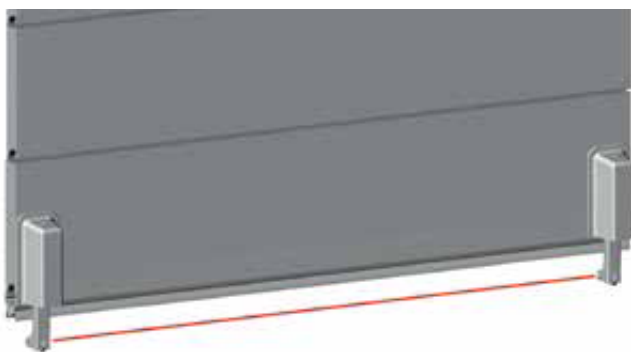


Cod. 662070  
**Art. 104SEZ**  
Pair of patented system photocells for  
the total protection of sectional doors:  
to avoid impact measurements,  
as required by En standards

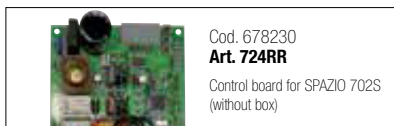


Cod. 381170  
**Art. 724**  
Bracket for tightening  
adjustment of the unlocking  
cable.

### EXAMPLE OF INSTALLATION OF SAFETY PHOTOCELLS ART. 104SEZ



## OTHER ACCESSORIES



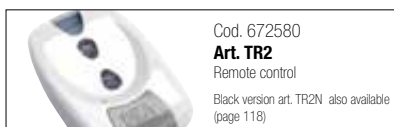
Cod. 678230  
**Art. 724RR**  
Control board for SPAZIO 702S  
(without box)



Cod. 678200  
**Art. 124RRZ**  
Control board for SPAZIO 703S  
(without box)



Cod. 661082  
**Art. LED24AI**  
Led flashing light 24V with  
built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available  
(page 118)



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available  
(page 118)



Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells.  
Range 20 mt



Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface  
mounted photocells



Cod. 663030  
**Art. 102LUX**  
Keyswitch with two contacts, flush  
mounted. Supplied with 2 keys.



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof  
keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



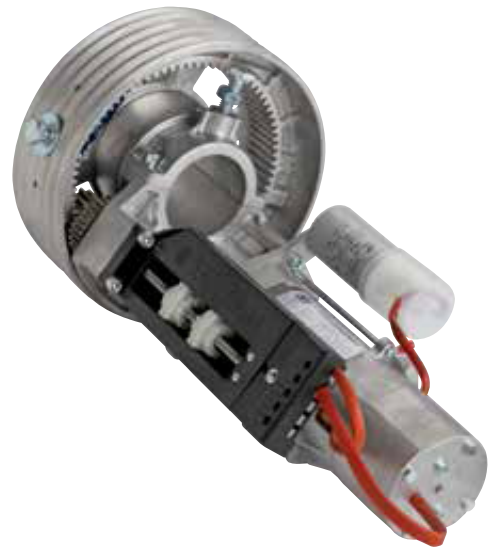
Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections  
to MASTER devices of range DE@NET  
(NET24N, NET230N, MASTERNET)



Cod. 681020  
**Art. MASTERNET**  
Interface receiver for BUS devices.  
Not necessary for control boards art.  
NET24N and NET230N

# WILL

Universal operator for balanced roller shutters



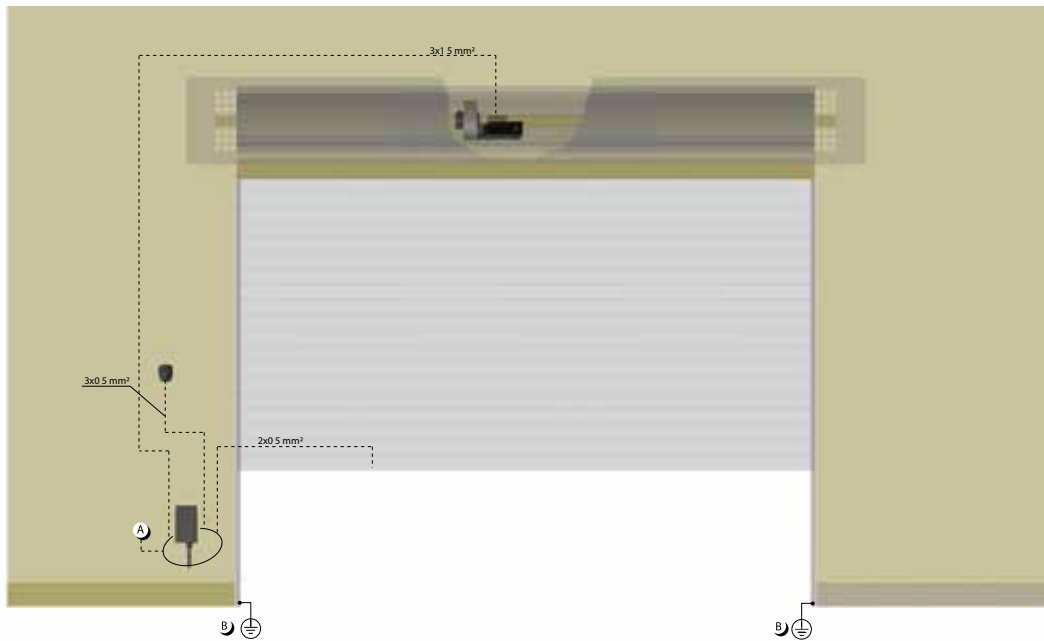
## 230V a.c. operators without control board

COD.	Art.				OTHER CHARACTERISTICS
634000*	<b>WILL</b>	150 kg	• •	For shafts with Ø 60mm e Ø 50mm	-
634010*	<b>WILL/CF</b>	150 kg	• •	For shafts with Ø 60mm e Ø 50mm	Built-in electrobrake

**Control board to complete the installation:** control board cod. 677540 art. 211ER/C (with box)

\* In order to respect the limit of impact forces foreseen by EN 12453 and EN12445 , you must use the external safety devices in compliance with EN 12978.

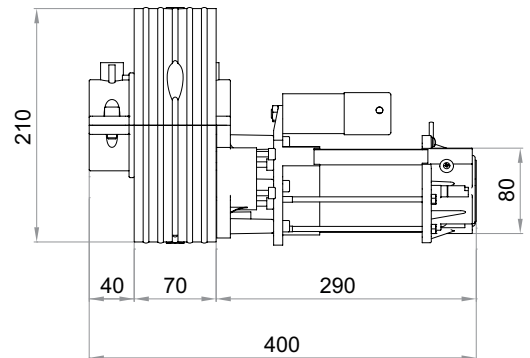
TECHNICAL INFO	Will - Will/CF
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)
Maximum power absorption (W)	630
Max thrust (N)	210
Built-in capacitor (µF)	20
Operating temperature (°C)	-5 ÷ 40
Motor thermal protection (°C)	160°
Speed (rpm)	8
Weight with packing (Kg)	10
Protection degree	IP40




EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



**1**  Cod. 634010  
**Art. WILL/CF**  
Universal operator for balanced roller shutters

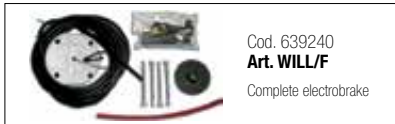
**2**  Cod. 677540  
**Art. 211ER/C**  
Control panel for the automation of 230V operators for roller shutters, with built-in 433Mhz radio receiver

**3**  Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.

 Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)

 Cod. 668010  
**Art. 127**  
Warning sign

## SPECIFIC ACCESSORIES

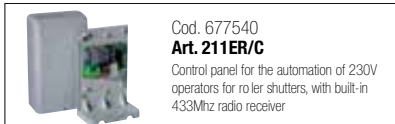


Cod. 639240  
**Art. WILL/F**  
Complete electrobrake

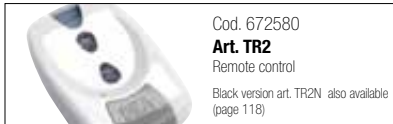


Cod. 639250  
**Art. WILL/42**  
Pair of shaft adaptors ø 42

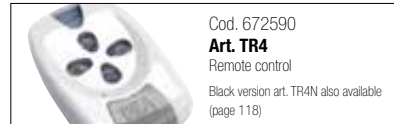
## OTHER ACCESSORIES



Cod. 677540  
**Art. 211ER/C**  
Control panel for the automation of 230V operators for roller shutters, with built-in 433Mhz radio receiver



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)



Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



Cod. 681020  
**Art. MASTERNET**  
Interface receiver for BUS devices.  
Not necessary for control boards art. NET24N and NET230N



Cod. 665010  
**Art. BLINDO**  
Empty safety enclosure

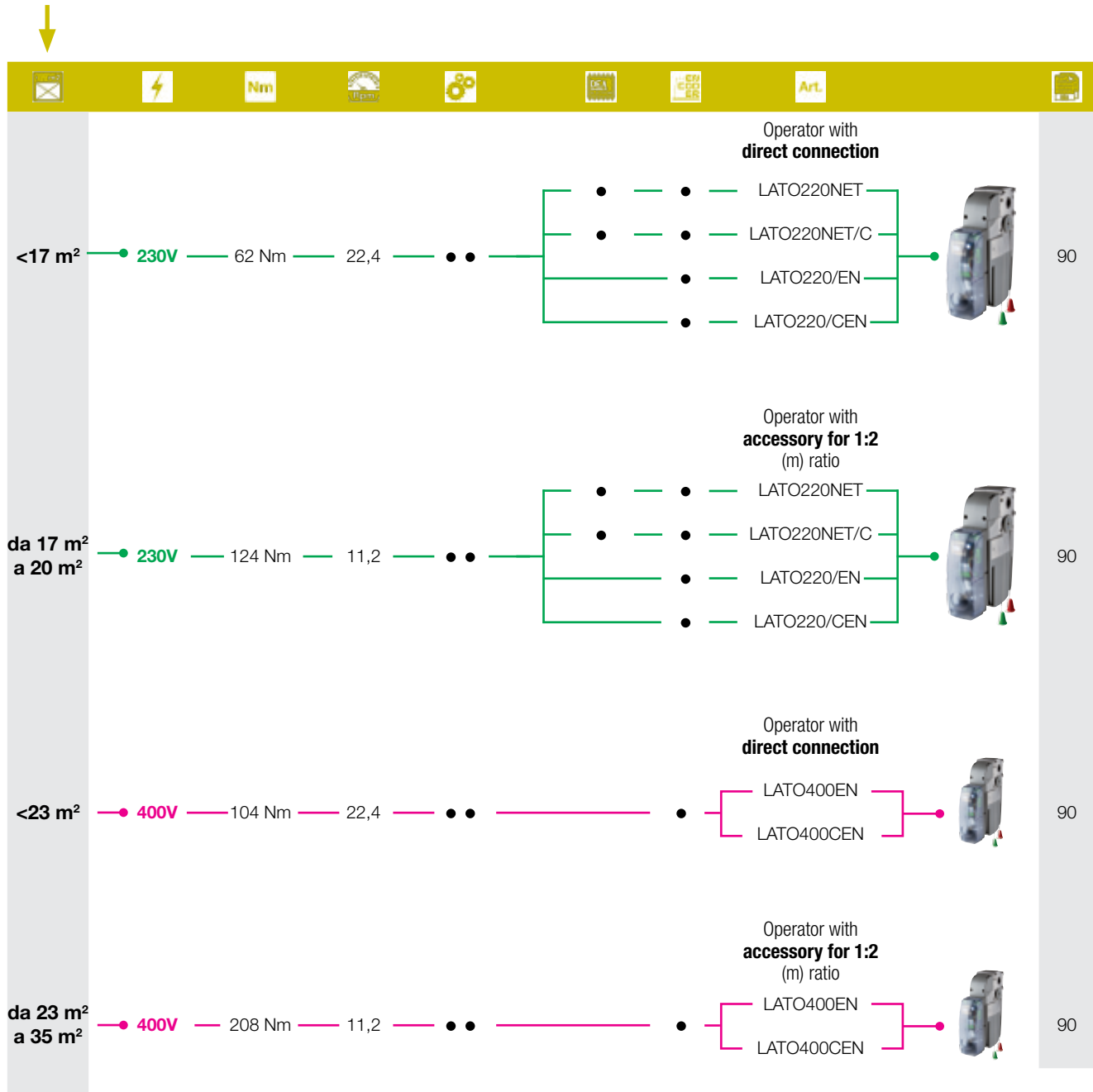
# INDUSTRIAL SECTIONAL DOORS and FOLDING DOORS

Automations for industrial sectional doors and folding doors



## SELECT THE RIGHT AUTOMATION FOR YOUR INDUSTRIAL SECTIONAL DOOR

Choose the **maximum size in square meters of the sectional door**





# LATO

Automations for sectional doors, folding doors and industrial sliding doors



## NET230N 230V a.c. operators with control board, limit switches and encoder

COD.	Art.	EN	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	EN 12445	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	OTHER CHARACTERISTICS
637050	LATO220NET	• •	NET230N	For shafts with Ø 25mm	•	- Limit switches - Anti-crashing safety device - Magnetic encoder with 6 mt. long cable and obstacle detection - Integrated receiver and courtesy light - Manual unlocking device
637051	LATO220NET/C	• •	NET230N	For shafts with Ø 25mm	•	- Limit switches - Anti-crashing safety device - Magnetic encoder with 6 mt. long cable - Integrated receiver and courtesy light - Manual unlocking device for emergency manual manoeuvre by chain

### Without control board

COD.	Art.	EN	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	OTHER CHARACTERISTICS
637001	LATO220/EN	• •	•	For shafts with Ø 25mm - Limit switches - Magnetic encoder with 6 mt. long cable - Manual unlocking device
637011	LATO220/CEN	• •	•	For shafts with Ø 25mm - Limit switches - Magnetic encoder with 6 mt. long cable - Manual unlocking device - Manual device for emergency manual manoeuvre by chain

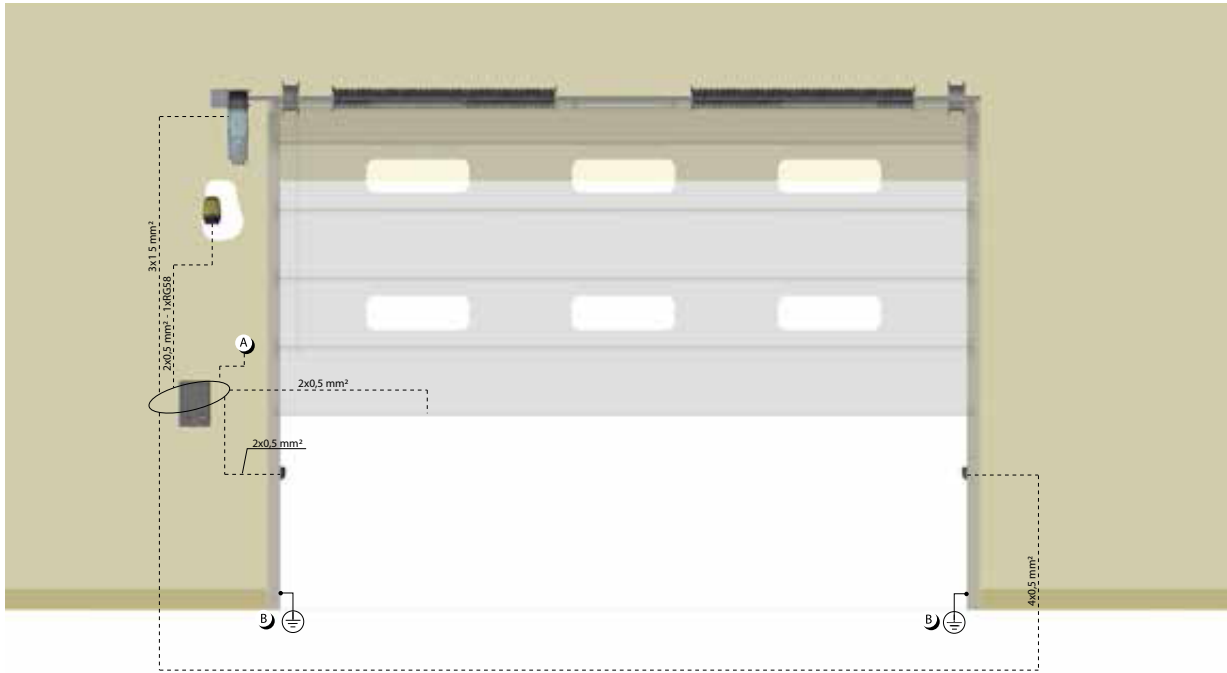
**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box) 

## 400RR 400V a.c. operators without control board, with limit switches and encoder

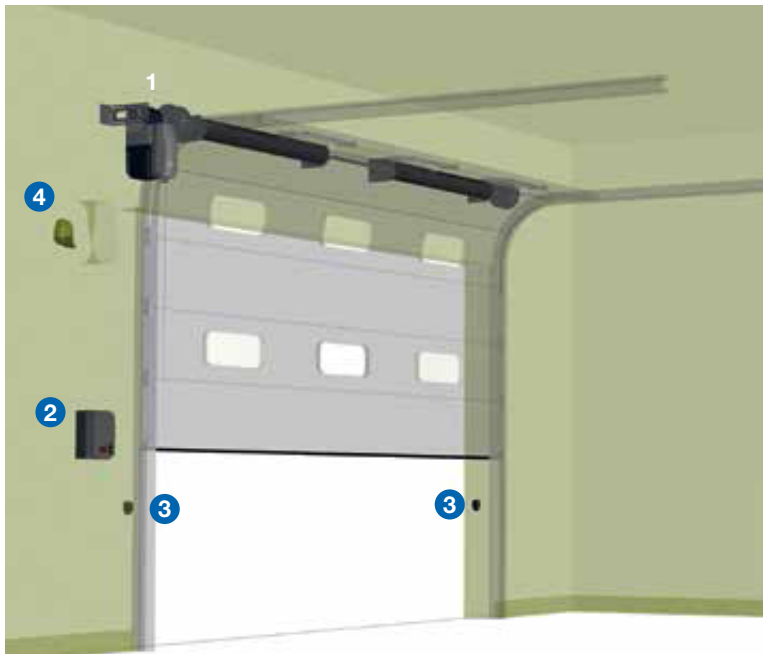
COD.	Art.	EN	EN 12453 IN COMPLIANCE WITH STANDARDS EN 12445	OTHER CHARACTERISTICS
637031	LATO400EN	• • •	•	For shafts with Ø 25mm - Manual unlocking device - Magnetic encoder with 6 mt. long cable
637041	LATO400CEN	• • •	•	For shafts with Ø 25mm - Manual unlocking device - Manual unlocking device for emergency manual manoeuvre by chain - Magnetic encoder with 6 mt. long cable

**Control board to complete the installation:** control board cod. 677140 art. NET400RR/C (with box) 

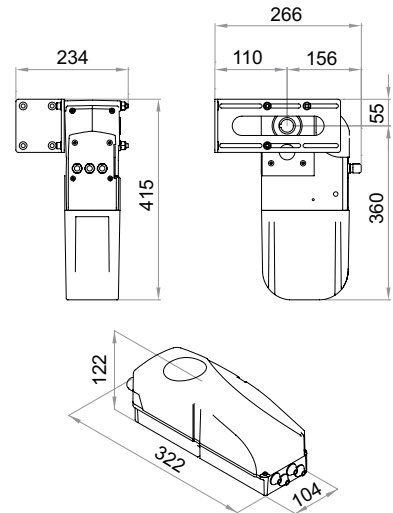
TECHNICAL INFO	220NET - 220/EN - 220/CEN - 220NET/C	400EN - 400CEN
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)	400 AC ± 10 % (50/60 Hz)
Maximum power absorption (W)	500	900
Max thrust (N)	62	104
Duty cycle (cycles/hours)	14	35
N. max cycles in 24h.	180	240
Built-in capacitor (µF)	18	/
Operating temperature (°C)	-20 ÷ 40	-20 ÷ 40
Motor thermal protection (°C)	150	140
Output shaft speed (rpm)	22,4	22,4
Weight with packing (Kg)	12	12
Protection degree	IP40	IP40



EXAMPLE OF A TYPICAL INSTALLATION




DIMENSIONS



**1**  Cod. 637001  
**Art. LATO220/EN**  
Operator for sectional doors, folding doors and industrial sliding doors

**2**  Cod. 677610  
**Art. NET230N/C**   
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (**with box**)

**2**  Cod. 679180  
**Art. 100GP**  
Buttons wired cover

**3**  Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt

**4**  Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz

 Cod. 668010  
**Art. 127**  
Warning sign

## SPECIFIC ACCESSORIES



Cod. 639430  
**Art. LAC19**  
Key+Pinion 1/2"  
Z=19 + shaft extension



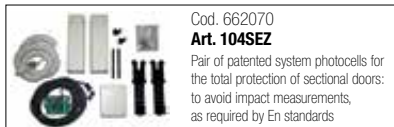
Cod. 639410  
**Art. L19**  
Key+Pinion  
1/2" Z=19



Cod. 639010  
**Art. 800C/TEN**  
Chain tightener



Cod. 639500  
**Art. CG**  
25 mt. genoise chain



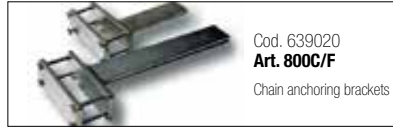
Cod. 662070  
**Art. 104SEZ**  
Pair of patented system photocells for the total protection of sectional doors: to avoid impact measurements, as required by En standards



Cod. 639030  
**Art. 800C/CZ38**  
Key+Pinion 1/2" Z=38



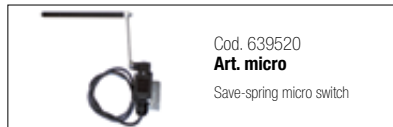
Cod. 639450  
**Art. LBA25**  
Socket for cable coiler shaft  
Ø=25,4



Cod. 639020  
**Art. 800C/F**  
Chain anchoring brackets



Cod. 639530  
**Art. LATO/SF**  
Unlocking device kit for LATO.  
**To be used with BLINDOS or LATOM**



Cod. 639520  
**Art. micro**  
Save-spring micro switch



Cod. 639000  
**Art. 800C/ACC**  
Joint, chain (mt. 2)



Cod. 639440  
**Art. LBA40**  
Socket for cable coiler shaft  
Ø=40

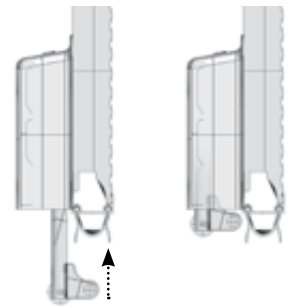
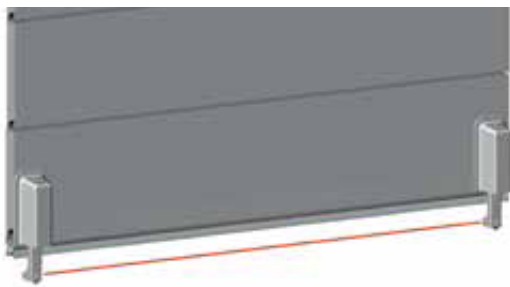


Cod. 639420  
**Art. LE**  
Fixing plate



Cod. 639480  
**Art. LATOM**  
Unlocking handle

### EXAMPLE OF INSTALLATION OF SAFETY PHOTOCELLS ART. 104SEZ



## OTHER ACCESSORIES



Cod. 677610  
**Art. NET230N/C**  
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)



Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with  
built-in antenna 433Mhz



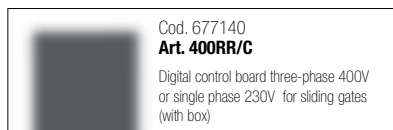
Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells,  
Range 20 mt



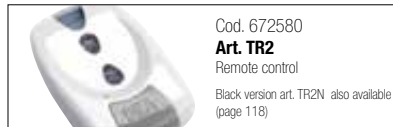
Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for  
art. LINEAR and LINEAR/B



Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections  
to MASTER devices of range DE@NET  
(NET24N, NET230N, MASTERNET)



Cod. 677140  
**Art. 400RR/C**  
Digital control board three-phase 400V  
or single phase 230V for sliding gates  
(with box)



Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available  
(page 118)



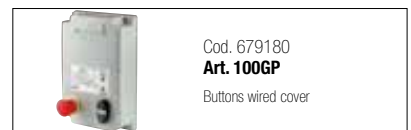
Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface  
mounted photocells



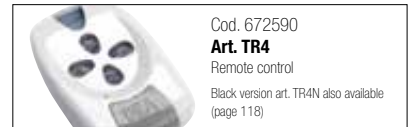
Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof  
keyswitch, flush mounted.



Cod. 681020  
**Art. MASTERNET**  
Interface receiver for BUS devices.  
Not necessary for control boards art.  
NET24N and NET230N



Cod. 679180  
**Art. 100GP**  
Buttons wired cover



Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available  
(page 118)



Cod. 662043  
**Art. LINEAR/B**  
Pair of adjustable photocells (180°)  
with tx supplied by a LiON battery.  
Range 7/15 Mt



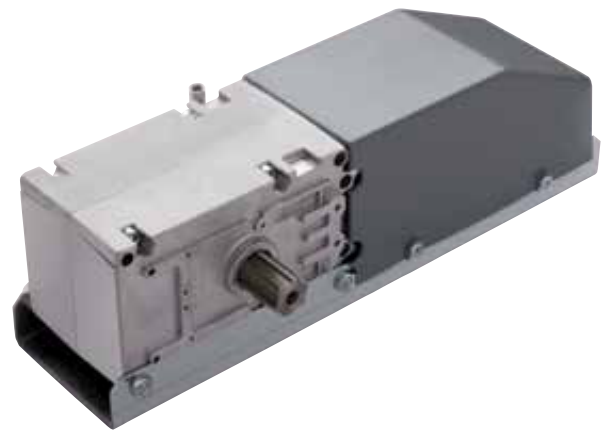
Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad



Cod. 665000  
**Art. BLINDOS**  
Safety enclosure to place external  
unlocking device handle

# LIVI 550PL

Automations for industrial folding doors



## NET230N 230V a.c. operators without control board

COD.	Art.			OTHER CHARACTERISTICS
623400*	<b>550PL/F</b>	• •		Limit switches, unlocking device by cable 4 mt. long
623410*	<b>550PL</b>	• •		Unlocking device by cable 4 mt. long
623411	<b>550PLEN</b>	• •	•	Encoder, unlocking device by cable 4 mt. long

**Control board to complete the installation:** control board cod. 677610 art. NET230N/C (with box)

\* In order to respect the limit of impact forces foreseen by EN 13241-1, you must use the external safety devices in compliance with EN 12978.

## NET24N 24V d.c. operators without control board

COD.	Art.			OTHER CHARACTERISTICS
623420	<b>550/24PL/F</b>	• • •		Limit switches, unlocking device by cable 4 mt. long
623421	<b>550/24EN</b>	• • •	•	Encoder, unlocking device by cable 4 mt. long

**Control board to complete the installation:** control board cod. 678261 art. NET24N/C (with box)

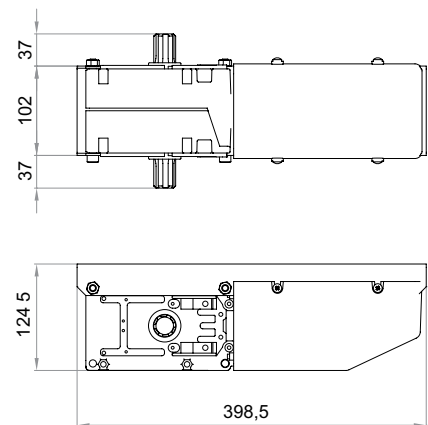
TECHNICAL INFO	550PL/F - 550PL 550PLEN	550/24PL/F 550/24EN
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)	24 DC
Maximum power absorption (W)	300	80
Max thrust (N)	295	180
Duty cycle (cycles/hours)	22 - 28 (vers. 550PL/F - 550PLEN)	60
N. max cycles in 24h.	260	300
Built-in capacitor (µF)	8	\
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	\
90° Opening time (s)	18	16
Weight with packing (Kg)	6	6
Protection degree	IP44	IP44



EXAMPLE OF A TYPICAL INSTALLATION




DIMENSIONS



INDUSTRIAL SECTIONAL AND FOLDING DOORS

**1**  Cod. 623411  
**Art. 550PLEN**  
Operator for industrial folding doors

**2**  Cod. 677610  
**Art. NET230N/C**   
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder **(with box)**

**2**  Cod. 679180  
**Art. 100GP**  
Buttons wired cover

**3**  Cod. 629190  
**Art. 560BT**  
Galvanized steel telescopic arm, **reinforced**, with splined bushing

**4**  Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells

**5**  Cod. 661062  
**Art. LED230AI**  
Led flashing light 230V with built-in antenna 433Mhz

 Cod. 668010  
**Art. 127**  
Warning sign

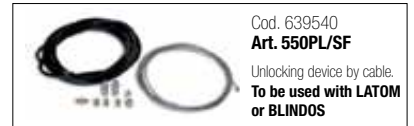
## SPECIFIC ACCESSORIES



Cod. 629190  
**Art. 560BT**  
Galvanized steel telescopic arm, reinforced, with splined bushing



Cod. 639111  
**Art. 560F - 960F**  
Limit switches



Cod. 639540  
**Art. 550PL/SF**  
Unlocking device by cable.  
**To be used with LATOM or BLINDOS**



Cod. 639480  
**Art. LATOM**  
Unlocking handle

## OTHER ACCESSORIES



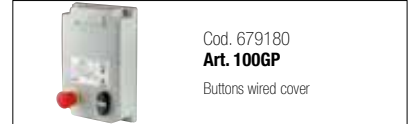
Cod. 678261  
**Art. NET24N/C**

Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder (with box)



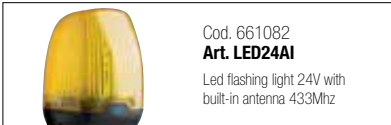
Cod. 677610  
**Art. NET230N/C**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (with box)



Cod. 679180  
**Art. 100GP**

Buttons wired cover



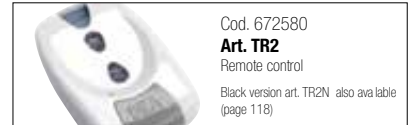
Cod. 661082  
**Art. LED24AI**

Led flashing light 24V with built-in antenna 433Mhz



Cod. 661062  
**Art. LED230AI**

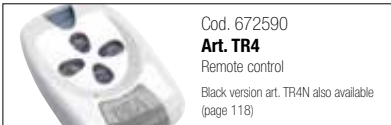
Led flashing light 230V with built-in antenna 433Mhz



Cod. 672580  
**Art. TR2**

Remote control

Black version art. TR2N also available (page 118)



Cod. 672590  
**Art. TR4**

Remote control  
Black version art. TR4N also available (page 118)



Cod. 662020  
**Art. 104MINILUX**

Pair of surface mounted photocells. Range 20 mt



Cod. 662030  
**Art. 104LUX**

Pair of adjustable (15°) surface mounted photocells



Cod. 662044  
**Art. LINEAR**

Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 681060  
**Art. COVER**

Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663060  
**Art. KYO**

Aluminium vandal-proof keyswitch, flush mounted.



Cod. 663280  
**Art. DIGIRAD**

Wireless keypad



Cod. 663270  
**Art. DIGINET**

Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



Cod. 665000  
**Art. BLINDOS**

Safety enclosure to place external unlocking device handle



Cod. 629290  
**Art. BAT**

Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables



# BARRIERS

Automations for road barriers



## SELECT THE RIGHT BARRIER FOR YOUR DRIVEWAY

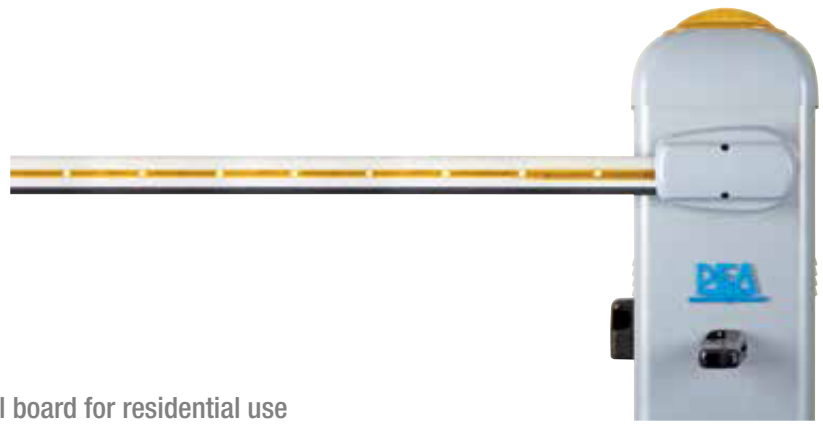
Choose the **maximum boom length**



3 m	24V	2,5"	●●	●	●	●	PASS24NET/V	PASS	100
4 m	230V	7,5"	●	●	●	●	PASSNET/L	PASS	100
	230V	3"	●●	●	●	●	STOP230NET/V	PASS	104
	24V	2,5"	●●	●	●	●	PASS24NET/VR	PASS	104
	24V	7"	●●	●	●	●	PASS24NET/L	PASS	104
	24V	2,7"	●●●	●	●	●	STOP24NET/V	STOP	104
5 m	230V	7,5"	●	●	●	●	PASSNET/L	PASS	100
	24V	7"	●●	●	●	●	PASS24NET/L	PASS	104
6 m / 7,5 m	230V	6,5"	●●	●	●	●	STOP230NET/L	STOP	104
	24V	5,3"	●●●	●	●	●	STOP24NET/L	STOP	104

# PASS

Electromechanical barrier



## NET230N 230V a.c. barriers with control board for residential use

COD.	Art.	EN			DEA	SEM COD ER	OTHER CHARACTERISTICS
644031	PASSNET/L		4 and 5 mt slow	•	NET230N	•	<ul style="list-style-type: none"> <li>- Speed adjustment during normal cycle and slow down in opening and closing</li> <li>- Motor controlled by encoder and obstacle detection</li> <li>- Possibility to lock the programming to prevent tampering</li> </ul>

## 230V a.c. barriers without control board for residential use to install 2 opposite barriers

COD.	Art.				SEM COD ER	OTHER CHARACTERISTICS
644003	PASS/SL		4 and 5 mt slow	•	•	- To be combined with PASSNET/L

**All models have: flashing lights, boom, boom holder and foundation plate not included (see on page 102)** - stainless steel version: available on demand  
**Warning:** Proper functioning of this model is guaranteed with perfect balance of the spring and adjustment of slow down

## NET24N 24V d.c. barriers with control board for semi-intensive use

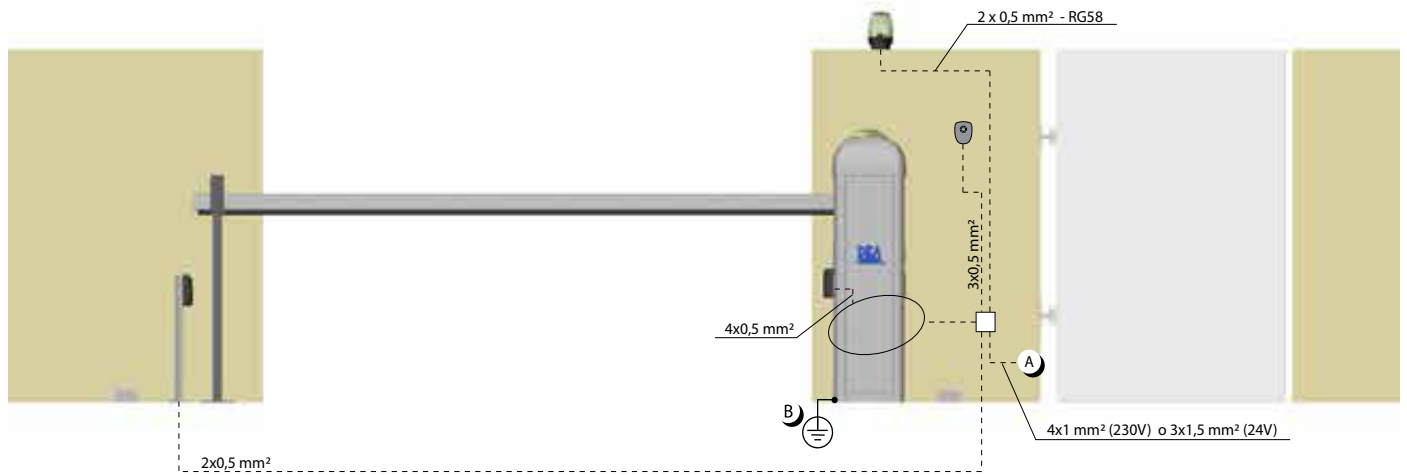
COD.	Art.	EN			DEA	SEM COD ER	OTHER CHARACTERISTICS
644020	PASS24NET/V		3 mt fast	••	NET24N	•	- Speed adjustment during normal cycle and slow down in opening and closing
644022	PASS24NET/VR		4 mt fast	••	NET24N	•	- Motor control by encoder
644021	PASS24NET/L		4 and 5 mt slow	••	NET24N	•	- Possibility to lock the programming to prevent tampering

## 24V a.c. barriers without control board for semi-intensive use to install 2 opposite barriers

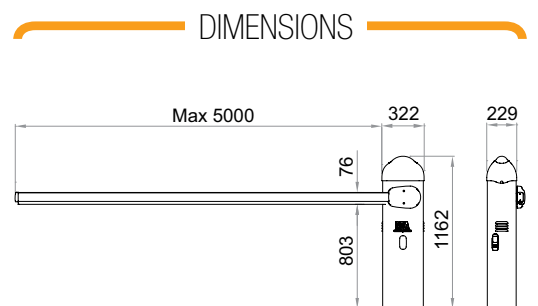
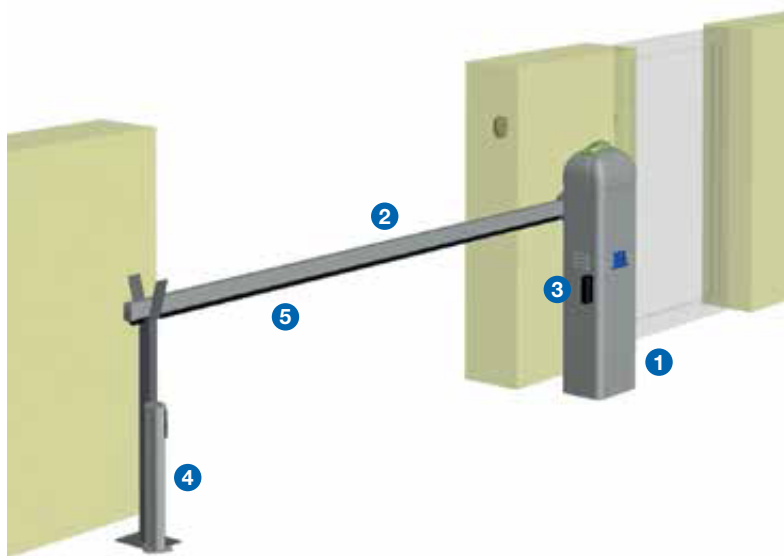
COD.	Art.				SEM COD ER	OTHER CHARACTERISTICS
644012	PASS24/SV		3 mt fast	••	•	- To be combined with PASS24NET/V
644019	PASS24/SVR		4 mt fast	••	•	- To be combined with PASS24NET/VR
644013	PASS24/SL		4 and 5 mt slow	••	•	- To be combined with PASS24NET/L

**All models have: flashing lights, boom, boom holder and foundation plate not included (see on page 102)** - stainless steel version: available on demand  
**Warning:** Proper functioning of this model is guaranteed with perfect balance of the spring and adjustment of slow down

TECHNICAL INFO	PASSNET/L PASS/SL	PASS24NET/V PASS24/SV	PASS24NET/L PASS24/SL	PASS24NET/VR
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)	24 DC	24 DC	24 DC
Maximum power absorption (W)	320	105	105	105
Type of boom		Refer to "Boom Length" table of instructions manual		
Duty cycle (cycles/hours)	80	290	140	240
N. max cycles in 24h.	400	1150	700	960
Built-in capacitor (µF)	8	/	/	/
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	/	/	/
90° Opening time (s)	7,3	2,2	6	2,8
Weight with packing (Kg)	42	41	41	41
Protection degree	IP34	IP34	IP34	IP34



EXAMPLE OF A TYPICAL INSTALLATION



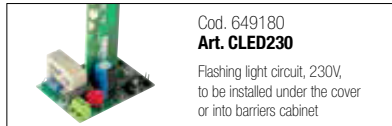
<p><b>1</b> Cod. 644030 <b>Art. PASSNET/V</b> Electromechanical barrier (without foundation plate)</p>	<p>Cod. 649073 <b>Art. PASS/B</b> Foundation plate</p>	<p><b>2</b> Cod. 649140 <b>Art. PASS3</b> DEA rectangular painted boom mm. 300x65x38, with fluorescent red stickers art. 1012</p>
<p>Cod. 381744 <b>Art. OMPASS</b> Boom holder for DEA rectangular booms art. PASS3 and PASS4</p>	<p>Cod. 649180 <b>Art. CLED230</b> Flashing light circuit, 230V, to be installed under the cover or into barriers cabinet</p>	<p>Cod. 649160 <b>Art. BSF</b> Bracket for Linear photocells</p>
<p><b>3</b> Cod. 662044 <b>Art. LINEAR</b> Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt</p>	<p><b>4</b> Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	<p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>
<p><b>5</b> Cod. 321810 <b>Art. GSOFTP</b> Safety rubber profile for STOP and PASS, EDPM S65, 24 mt.</p>	<p>Cod. 668010 <b>Art. 127</b> Warning sign</p>	

## SPECIFIC ACCESSORIES



Cod. 649181  
**Art. CLED24**

Flashing light circuit, 24V, to be installed under the cover or into barriers cabinet



Cod. 649180  
**Art. CLED30**

Flashing light circuit, 230V, to be installed under the cover or into barriers cabinet



Cod. 649172  
**Art. LEDPASS**

Led Strip + Feeder for booms PASS3 and PASS4 (4 mt. long)



Cod. 649140  
**Art. PASS3**

DEA rectangular painted boom mm. 300x65x38, with fluorescent red stickers art. 1012



Cod. 649141  
**Art. PASS4**

DEA rectangular painted boom mm. 400x65x38, with fluorescent red stickers art. 1012



Cod. 381744  
**Art. OMPASS**

Boom holder for DEA rectangular booms art. PASS3 and PASS4



Cod. 649240  
**Art. PASS5**

DEA rectangular painted lightweight boom mm. 500x60x40, without fluorescent stickers. To be used with PASSNET/L, PASS/SL, PASS24NET/L, PASS24/SL ONLY



Cod. 649250  
**Art. OMPASS5**

Boom holder for DEA rectangular booms art. PASS5



Cod. 381741  
**Art. OMPASS60**

Boom holder for commercial rectangular booms 60x30mm

**Not compatible with other accessories or with the front plastic cover of the boom holder**



Cod. 649000  
**Art. 1006**

Mobile boom support



Cod. 649020  
**Art. 1010**

Adjustable fixed boom support



Cod. 649021  
**Art. 1010/M**

Adjustable fixed boom support with magnet



Cod. 667061  
**Art. LOOP 230/1**

Loop detector, 1 channel



Cod. 667071  
**Art. LOOP 230/2**

Loop detector, 2 channels



Cod. 681030  
**Art. SMF230/2**

Lamp traffic light with red-green lights



Cod. 649073  
**Art. PASS/B**

Foundation plate



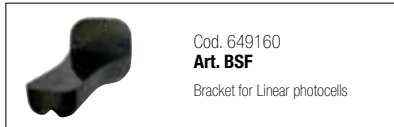
Cod. 321810  
**Art. GSOFTP**

Safety rubber profile for STOP and PASS, EDPM S65, 24 mt.



Cod. 101004  
**Art. 1012**

Fluorescent red stickers



Cod. 649160  
**Art. BSF**

Bracket for Linear photocells



Cod. 649200  
**Art. BAT/PASS**

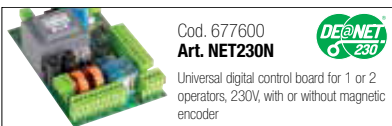
Batteries set for PASS barriers complete with 2 x 4,5Ah batteries, fixing plates and connecting cables

## OTHER ACCESSORIES



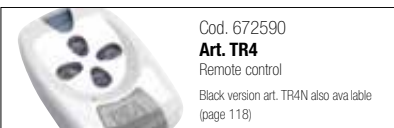
Cod. 678251  
**Art. NET24N**

Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder



Cod. 677600  
**Art. NET230N**

Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder



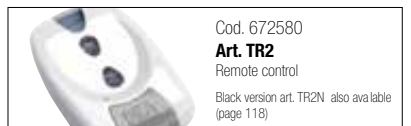
Cod. 672590  
**Art. TR4**

Remote control  
Black version art. TR4N also available (page 118)



Cod. 662044  
**Art. LINEAR**

Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt



Cod. 672580  
**Art. TR2**

Remote control  
Black version art. TR2N also available (page 118)



Cod. 681060  
**Art. COVER**

Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



Cod. 663030  
**Art. 102LUX**

Keyswitch with two contacts, flush mounted. Supplied with 2 keys.



Cod. 662043  
**Art. LINEAR/B**

Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 Mt



Cod. 663280  
**Art. DIGIRAD**

Wireless keypad



Cod. 663270  
**Art. DIGINET**

Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)



Cod. 663060  
**Art. KYO**

Aluminium vandal-proof keyswitch, flush mounted.



Cod. 664000  
**Art. PILLY/60**

Pair of aluminium columns for photocells, height 55 cm.



Cod. 664010  
**Art. PILLY/120**

Pair of aluminium columns for photocells, height 100 cm.

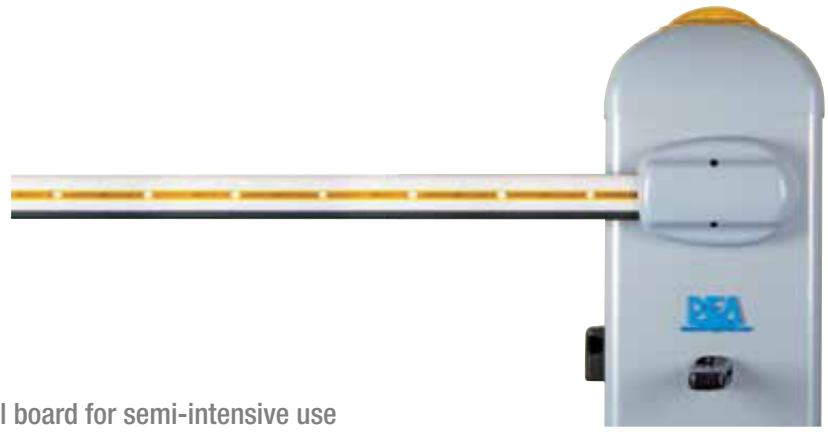


Cod. 664020  
**Art. PILLY/base**

Pair of fixing plates for columns to be cemented.

# STOP

Electromechanical barrier



## NET230N 230V a.c. barriers with control board for semi-intensive use

COD.	Art.	EN	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
645030	STOPNET/V	EN 12453 EN 12445	4 mt fast	• •	NET230N	•	- Supplied with 2 springs - Motor control by encoder and obstacle detection
645031	STOPNET/L	EN 12453 EN 12445	6 and 7,5 mt slow	• •	NET230N	•	- Supplied with 4 springs - Motor control by encoder and obstacle detection

## 230V a.c. barriers without control board for semi-intensive use to install 2 opposite barriers

COD.	Art.	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
645002	STOP/SV	4 mt fast	• •	•		- To be combined with STOPNET/V
645003	STOP/SL	6 and 7,5 mt slow	• •	•		- To be combined with STOPNET/L

All models have: flashing lights, boom, boom holder and foundation plate not included (see on page 106) - stainless steel version: available on demand  
Booms 7,5 mt. long: add at least 1 KIT MOLLA (see on page 107).

**Warning:** Proper functioning of this model is guaranteed with perfect balance of the spring and adjustment of slow down

## NET24N 24V d.c. barriers with control board for intensive use

COD.	Art.	EN	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
645020	STOP24NET/V	EN 12453 EN 12445	4 mt fast	• • •	NET24N	•	- Supplied with 2 springs - Motor control by encoder and obstacle detection
645021	STOP24NET/L	EN 12453 EN 12445	6 and 7,5 mt slow	• • •	NET24N	•	- Supplied with 4 springs - Motor control by encoder and obstacle detection

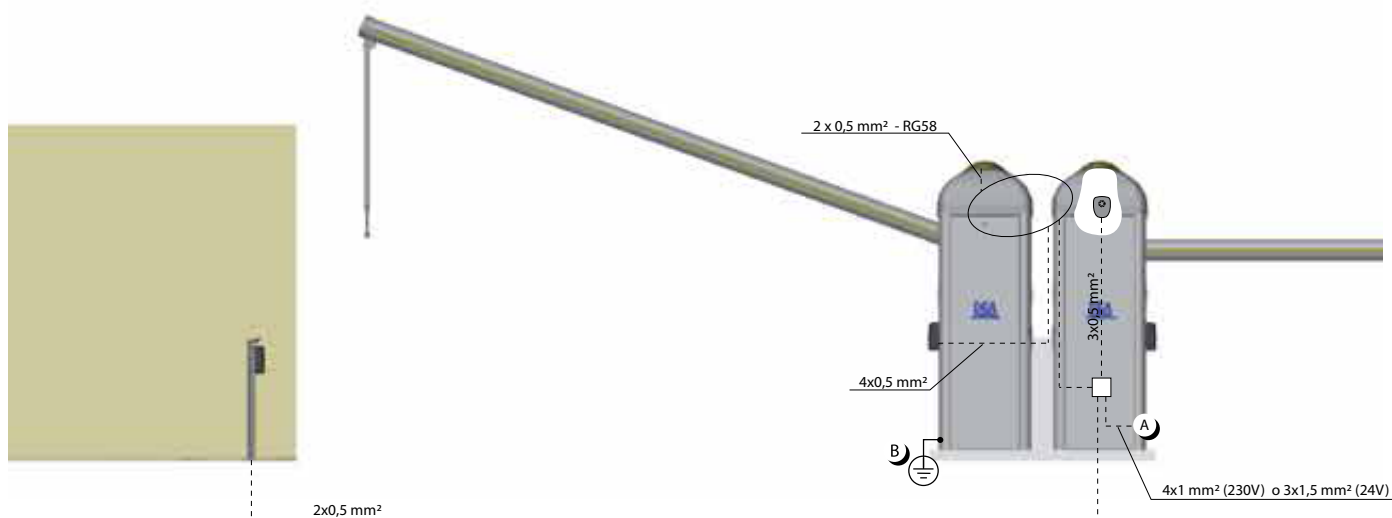
## 24V d.c. barriers without control board for intensive use to install 2 opposite barriers

COD.	Art.	Icon	Icon	Icon	Icon	OTHER CHARACTERISTICS
645012	STOP24/SV	4 mt fast	• • •	•		- To be combined with STOP24NET/V
645013	STOP24/SL	6 and 7,5 mt slow	• • •	•		- To be combined with STOP24NET/L

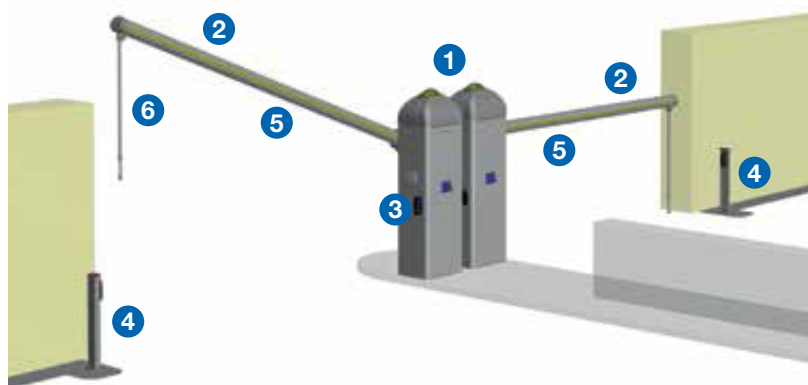
All models have: flashing lights, boom, boom holder and foundation plate not included (see on page 106) - stainless steel version: available on demand  
Booms 7,5 mt. long: add at least 1 KIT MOLLA (see on page 107).

**Warning:** Proper functioning of this model is guaranteed with perfect balance of the spring and adjustment of slow down

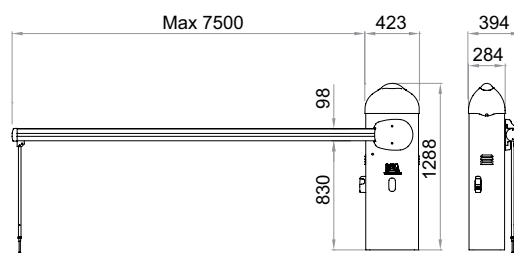
TECHNICAL INFO	STOPNET/V STOP/SV	STOPNET/L STOP/SL	STOP24NET/V STOP24/SV	STOP24NET/L STOP24/SL
Boom length	4 mt	4 ÷ 6 mt > 6 mt	4 mt	4 ÷ 6 mt > 6 mt
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)		24 DC	24 DC
Maximum power absorption (W)	500	500	120	120
Type of boom	Refer to "Boom Length" table of instructions manual			
Duty cycle (cycles/hours)	350	150	125	500
N. max cycles in 24h.	2800	1760	1150	4000
Built-in capacitor (µF)	18	18	18	/
Operating temperature (°C)	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50	-20 ÷ 50
Motor thermal protection (°C)	150	150	150	/
90° Opening time (s)	3	6,5	8	2,7
Weight with packing (Kg)	81	81	81	79
Protection degree	IP34	IP34	IP34	IP34



EXAMPLE OF A TYPICAL INSTALLATION



DIMENSIONS



<p><b>1</b></p>  <p>Cod. 645031 <b>Art. STOPNET/L</b> Electromechanical barrier</p>	<p></p> <p>Cod. 649072 <b>Art. STOP/B</b> Foundation plate</p>	<p><b>2</b></p>  <p>Cod. 649191 <b>Art. STOP6</b> DEA round painted boom mm. 6000xØ95, with fluorescent red stickers art.1012</p>
<p></p> <p>Cod. 649230 <b>Art. OMSTOP</b> Boom holder for DEA round booms art. STOP 4 and STOP6</p>	<p></p> <p>Cod. 649180 <b>Art. CLEED230</b> Flashing light circuit, 230V, to be installed under the cover or into barriers cabinet</p>	<p></p> <p>Cod. 649160 <b>Art. BSF</b> Bracket for Linear photocells</p>
<p><b>3</b></p>  <p>Cod. 662044 <b>Art. LINEAR</b> Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt</p>	<p><b>4</b></p>  <p>Cod. 664000 <b>Art. PILLY/60</b> Pair of aluminium columns for photocells, height 55 cm.</p>	<p></p> <p>Cod. 672580 <b>Art. TR2</b> Remote control Black version art. TR2N also available (page 118)</p>
<p><b>5</b></p>  <p>Cod. 321810 <b>Art. GSOFT</b> Safety rubber profile for STOP and PASS, EDPM S65, 24 mt.</p>	<p><b>6</b></p>  <p>Cod. 649000 <b>Art. 1006</b> Mobile boom support</p>	<p></p> <p>Cod. 668010 <b>Art. 127</b> Warning sign</p>

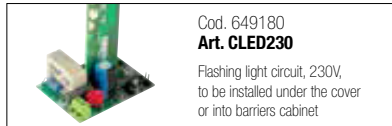


## SPECIFIC ACCESSORIES



Cod. 649181  
**Art. CLED24**

Flashing light circuit, 24V,  
to be installed under the cover  
or into barriers cabinet



Cod. 649180  
**Art. CLED230**

Flashing light circuit, 230V,  
to be installed under the cover  
or into barriers cabinet



Cod. 101004  
**Art. 1012**

Fluorescent red stickers



Cod. 649190  
**Art. STOP4**

DEA round painted boom mm.  
4000xØ95, with fluorescent red  
stickers art.1012



Cod. 649191  
**Art. STOP6**

DEA round painted boom mm.  
6000xØ95, with fluorescent  
red stickers art.1012



Cod. 649230  
**Art. OMSTOP**

Boom holder for DEA round  
booms art. STOP 4 and STOP6



Cod. 649192  
**Art. STOP7.5**

DEA round painted boom mm.  
7500xØ95, with fluorescent  
red stickers art.1012



Cod. 649210  
**Art. OMSTOP75**

Boom holder for DEA round booms  
art. STOP7.5



Cod. 381801  
**Art. OMSTOP100**

Boom holder for commercial  
rectangular booms  
mm.2 th. x 100H x 50width

Add at least 1 KIT MOLLA (see on page 107). Not compatible with skirt art. 1005.



Cod. 381802  
**Art. OMSTOP80**

Boom holder for commercial  
round booms  
mm. 2 th. x Ø80



Cod. 649220  
**Art. KIT MOLLA**

Supplementary spring set for  
STOP barriers



Cod. 649170  
**Art. LED4**

Led Strip + Feeder for booms up to 4 mt.  
(9 mt. long), 7,5 mt booms two pieces  
are required.



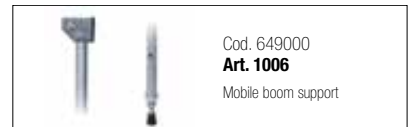
Cod. 649171  
**Art. LED6**

Led Strip + Feeder for booms up to  
6 mt. (13 mt. long)



Cod. 386390  
**Art. 1005**

Aluminium skirt 2 mt long



Cod. 649000  
**Art. 1006**

Mobile boom support



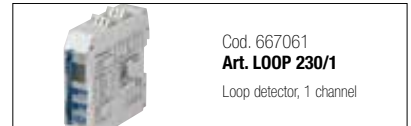
Cod. 649020  
**Art. 1010**

Adjustable fixed boom support



Cod. 649021  
**Art. 1010/M**

Adjustable fixed boom  
support with magnet



Cod. 667061  
**Art. LOOP 230/1**

Loop detector, 1 channel



Cod. 667071  
**Art. LOOP 230/2**

Loop detector, 2 channels



Cod. 681030  
**Art. SMF230/2**

Lamp traffic light with red-green lights



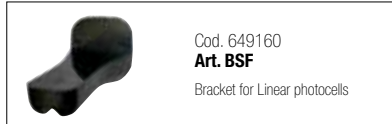
Cod. 649072  
**Art. STOP/B**

Foundation plate



Cod. 321810  
**Art. GSOFTP**

Safety rubber profile for STOP and PASS,  
EDPM S65, 24 mt.



Cod. 649160  
**Art. BSF**

Bracket for Linear photocells



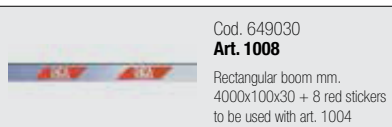
Cod. 649201  
**Art. BATT STOP**

Batteries set for STOP barriers complete  
with 2 x 4,5Ah batteries, fixing plates  
and connecting cables



Cod. 649010  
**Art. 1004**

Folding bar joint 100x30  
to be used with art. 1008



Cod. 649030  
**Art. 1008**

Rectangular boom mm.  
400x100x30 + 8 red stickers  
to be used with art. 1004



Cod. 381806  
**Art. OMSTOP30**

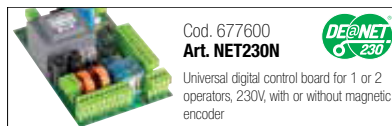
Boom holder for rectangular  
booms dims. 100x30

## OTHER ACCESSORIES



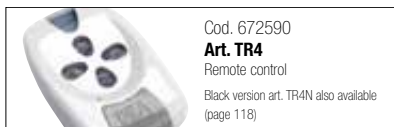
Cod. 678251  
**Art. NET24N**

Universal digital control board for 1 or 2  
operators, 24V, with or without magnetic  
encoder



Cod. 677600  
**Art. NET230N**

Universal digital control board for 1 or 2  
operators, 230V, with or without magnetic  
encoder



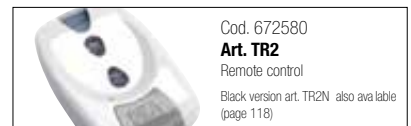
Cod. 672590  
**Art. TR4**

Remote control  
Black version art. TR4N also available  
(page 118)



Cod. 662044  
**Art. LINEAR**

Pair of adjustable photocells (180°)  
with possibility of synchronized operating.  
Range 20 Mt



Cod. 672580  
**Art. TR2**

Remote control  
Black version art. TR2N also available  
(page 118)



Cod. 681060  
**Art. COVER**

Vandal-proof aluminium cover for  
art. LINEAR and LINEAR/B



Cod. 663030  
**Art. 102LUX**

Keyswitch with two contacts, flush  
mounted. Supplied with 2 keys.



Cod. 662043  
**Art. LINEAR/B**

Pair of adjustable photocells (180°)  
with tx supplied by a LiOn battery.  
Range 7/15 Mt



Cod. 663280  
**Art. DIGIRAD**

Wireless keypad



Cod. 663270  
**Art. DIGINET**

Hardwired keypad for BUS connections  
to MASTER devices of range DE@NET  
(NET24N, NET230N, MASTERNET)



Cod. 663060  
**Art. KYO**

Aluminium vandal-proof  
keyswitch, flush mounted.



Cod. 664000  
**Art. PILLY/60**

Pair of aluminium columns for photocells,  
height 55 cm.



Cod. 664010  
**Art. PILLY/120**

Pair of aluminium columns for photocells,  
height 100 cm.



Cod. 664020  
**Art. PILLY/base**

Pair of fixing plates for columns  
to be cemented.

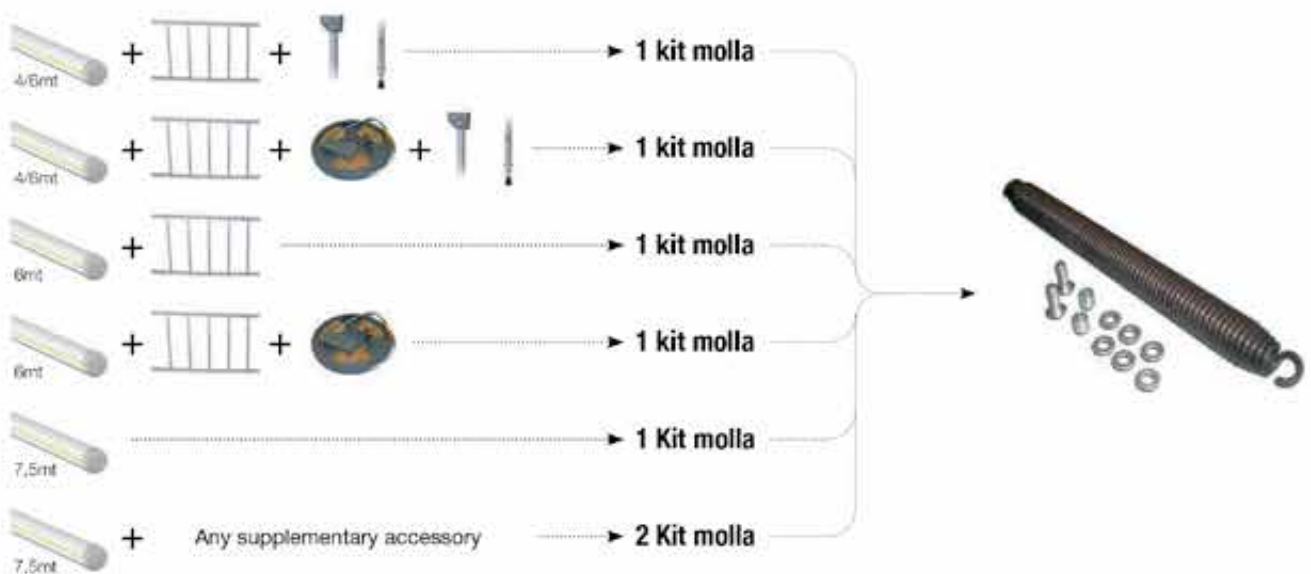
# STOP



BARRIERS

## SUPPLEMENTARY KIT MOLLA FOR BARRIERS WITH BOOMS from 4 up to 7,5 mt. long

The number of KIT MOLLA is different depending on the type of accessories to be mounted on the boom.  
The following table illustrates the number of kits required for different situations:



# LIFT

## Hydraulic retractable bollard



### 230V a.c. bollard without control board

COD.	Art.						OTHER CHARACTERISTICS
650034	<b>LIFT/300-4</b>	• • •	273mm	700mm	4mm		- Underground installation - Complete with mechanical pipe
650035	<b>LIFT/300-5</b>	• • •	273mm	700mm	4mm	•	- Extractable galvanized pipe - Galvanized framework
650036	<b>LIFT/300-6</b>	• • •	273mm	700mm	12mm		- Collector with patented emergency manual release - LED diffusers
650037	<b>LIFT/300-7</b>	• • •	273mm	700mm	12mm	•	- 2 limit switches - Reflecting film with high bright response

**All models have:** stainless steel version available on demand

### Manual bollard without control board

COD.	Art.	OTHER CHARACTERISTICS
650020	<b>LIFT/F</b>	Fixed bollard Ø140 - h. 700 - t. 3 mm.
650021	<b>LIFT/M</b>	manual bollard with key

Fixed bollards Ø200 e 300 available on demand

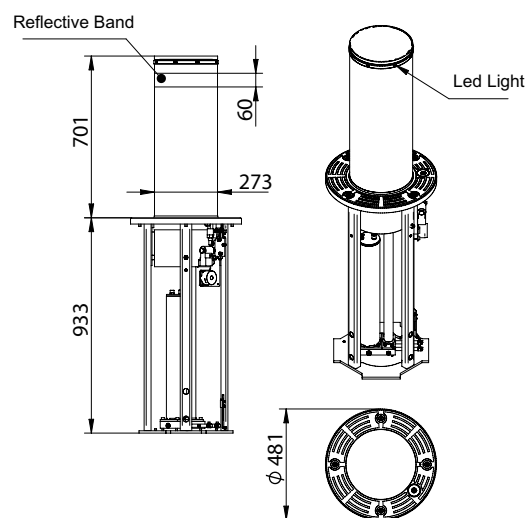
TECHNICAL INFO	300
Motor power supply (V)	230 AC ± 10 % (50/60 Hz)
Maximum power absorption (W)	500
Max thrust (N)	1900
Duty cycle (cycles/hours)	100
N. max cycles in 24h.	1200
Built-in capacitor (µF)	12,5 µF
Operating temperature (°C)	0 ÷ 60
Motor thermal protection (°C)	140
90° Opening time (s)	6,5
Weight with packing (Kg)	98 ÷ 180
Protection degree	IP54
Impact Resistance	29.000 J



EXAMPLE OF A TYPICAL INSTALLATION




DIMENSIONS




**1**  Cod. 650030  
**Art. LIFT/300**  
Hydraulic retractable bollard

**2**  Cod. 677580  
**Art. LIFT/QE**  
230V control panel with built-in receiver for the managing of 4 bollards

 Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells

 Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.

 Cod. 667061  
**Art. LOOP 230/1**  
Loop detector, 1 channel

 Cod. 681030  
**Art. SMF230/2**  
Lamp traffic light with red-green lights

 Cod. 668010  
**Art. 127**  
Warning sign

## SPECIFIC ACCESSORIES

 Cod. 677580  
**Art. LIFT/QE**  
230V control panel with built-in receiver for the managing of 4 bollards

 Cod. 659050  
**Art. LIFT/SG**  
Junction box with plugs and socket

 Cod. 659020  
**Art. LIFT/SZ**  
Pump safety lock, unlocking device with 3 keys

 Cod. 659030  
**Art. LIFT/RS**  
Sonorous recognizer for emergency vehicles

 Cod. 659040  
**Art. LIFT/EL**  
Solenoid with power supply cable

 Cod. 667061  
**Art. LOOP 230/1**  
Loop detector, 1 channel

 Cod. 659010  
**Art. LIFT/SA**  
230V audible warning device, IP67

 Cod. 659060  
**Art. LIFT/RE**  
Antifreeze heater

 Cod. 667071  
**Art. LOOP 230/2**  
Loop detector, 2 channels

## OTHER ACCESSORIES

 Cod. 677610  
**Art. NET230N/C**   
Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder (**with box**)

 Cod. 672580  
**Art. TR2**  
Remote control  
Black version art. TR2N also available (page 118)

 Cod. 662030  
**Art. 104LUX**  
Pair of adjustable (15°) surface mounted photocells

 Cod. 662044  
**Art. LINEAR**  
Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 Mt

 Cod. 663270  
**Art. DIGINET**  
Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)

 Cod. 664010  
**Art. PILLY/120**  
Pair of aluminium columns for photocells, height 100 cm.

 Cod. 679140  
**Art. 100GG**  
Large PVC box, suitable to include any other DEA boxes, to grant a better protection and isolation.

 Cod. 672590  
**Art. TR4**  
Remote control  
Black version art. TR4N also available (page 118)

 Cod. 663030  
**Art. 102LUX**  
Keyswitch with two contacts, flush mounted. Supplied with 2 keys.

 Cod. 663060  
**Art. KYO**  
Aluminium vandal-proof keyswitch, flush mounted.

 Cod. 664020  
**Art. PILLY/base**  
Pair of fixing plates for columns to be cemented.

 Cod. 675510  
**Art. 251/2**  
Hardwired 2 channels receiver, surface mounted (complete with box 100F) (433Mhz)

 Cod. 662020  
**Art. 104MINILUX**  
Pair of surface mounted photocells. Range 20 mt

 Cod. 681060  
**Art. COVER**  
Vandal-proof aluminium cover for art. LINEAR and LINEAR/B

 Cod. 663280  
**Art. DIGIRAD**  
Wireless keypad

 Cod. 664000  
**Art. PILLY/60**  
Pair of aluminium columns for photocells, height 55 cm.



# GREEN ENERGY



## THE CLEAN ENERGY THAT MAKES YOU INDEPENDENT

Solar power system to be used for applications with the control panel art. **NET24N**

COD.	Art.	kg
681050	<b>GREEN ENERGY</b>	18 kg

**Note:** a supplementary 15W solar panel can be ordered with code 681052



### KIT INCLUDES:

- SOLAR PANEL, 15W MAX
- BOX WITH 24V BUFFER BATTERY
- CONTROL CIRCUIT
- BATTERIES CHARGER

### EFFICIENCY

LOW CONSUMPTION GUARANTEED BY THE EFFICIENCY OF THE DE@NET ELECTRONIC

### FLEXIBILITY

YOU CAN INSTALL ANYWHERE IN AN EASY AND FAST WAY

### INDEPENDENCY

GUARANTEED OPERATING NO BLACK OUT MAXIMUM POWER BUILT-IN BATTERIES

#### TECHNICAL DATA Accumulator

Rated voltage	24 V
Maximum sink current	10 A
Battery capacity	20 Ah
Protection degree	IP44
Operating temperature (°C)	-20°C ÷ +50°C
Complete recharge time	About 18 hours (by using fixed power supply)
Dimensions	585 x 245 x 185
Weight	16 Kg

#### TECHNICAL DATA Panel

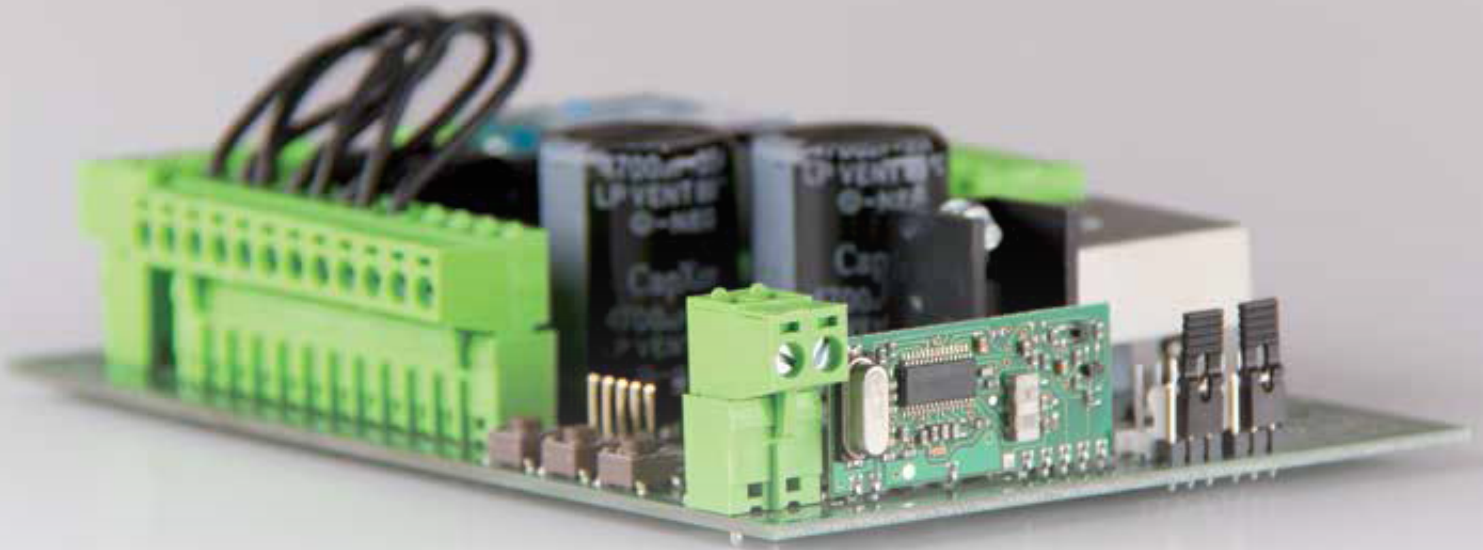
Rated voltage	24 V
Peak power	15 Wp
Operating temperature (°C)	-40°C ÷ +85°C
Dimensions	400 x 390 x 25
Weight	1,9 Kg

#### "DAILY SOLAR RADIATION - MONTHLY AVERAGE" (R<sub>gmm</sub>) (Latitude 45°)

MONTH (NORTH Emisphere)	R <sub>gmm</sub> "Wh/m <sup>2</sup> "	MONTH (SUD Emisphere)
January	3034	July
February	3837	August
March	4703	September
April	4972	October
May	5268	November
June	5456	December
July	5616	January
August	5268	February
September	4750	March
October	3729	April
November	2993	May
December	2314	June



# SIMPLIFIED INTEGRATION



## NET230N Universal digital control board for 1 or 2 operators, 230V, with or without magnetic encoder



COD.	Art.	Description
677610	<b>NET230N/C</b>	Selection in a single step of the type of operator used (SLIDING / SWING /COUNTERWEIGHT DOORS/ BARRIERS/ SECTIONAL DOORS), with automatic configuration all inputs / outputs and best operating options. Factory configured as a swing. Possibility of adjustment of 75 operating parameters such as strength, speed and duration of the slowdown, anti-crush sensor sensitivity, possibility of blocking the programming to prevent tampering of the installation, type of operation of each input etc. Simplified learning procedure. Output for connection as master unit for bus networks "DE @ NET". 433 MHz radio receiver for up to 100 remote controls ( fixed or rolling code coding). Complete of box 100G.
677600	<b>NET230N</b>	Circuit only

## NET24N Universal digital control board for 1 or 2 operators, 24V, with or without magnetic encoder



COD.	Art.	Description
678261	<b>NET24N/C</b>	Selection in a single step of the type of operator used (SLIDING / SWING /COUNTERWEIGHT DOORS/ BARRIERS/ SECTIONAL DOORS), with automatic configuration all inputs / outputs and best operating options. Factory configured as a swing. Possibility of adjustment of 75 operating parameters such as strength, speed and duration of the slowdown, anti-crush sensor sensitivity, possibility of blocking the programming to prevent tampering of the installation, type of operation of each input etc. Simplified learning procedure. Output for connection as master unit for bus networks "DE @ NET". 433 MHz radio receiver for up to 100 remote controls ( fixed or rolling code coding). Complete of box 100G.
678263	<b>NET24N/C250</b>	NET24N/C250 with 250W transformer to be used with operators REV designed for IRONBOX. Complete of box 100G.
678251	<b>NET24N</b>	Circuit only

## CONTROL BOARDS RANGE NORMA

To automate gates and installations in compliance with the European Safety Rules EN 12453-EN12445



**400RR/C**



**202RR/C**



**203RR/C**



**224RR/C**



**724RR  
124RRZ**

COD.	Art.	Description
677140	<b>400RR/C</b>	Digital control board three-phase 400V ac or single-phase 230V ac (with box 100G) for 1 operator with encoder control. It is complete with anti-crushing safety device, integrated 433 Mhz radio receiver, speed adjustment during normal cycle and slow down in opening and closing, force adjustment up to 70 levels and separate in open and close, anti-inertia braking device.
677130	<b>400RR</b>	Circuit only
677161	<b>202RR/C</b>	Digital control board 230V ac (with box 100G) for 1 or 2 operators (swing gates). It is complete with anti-crushing safety device, integrated 433 Mhz radio receiver, speed adjustment during normal cycle and slow down in opening and closing, force adjustment up to 70 levels separate in open and close and for the two motors. FOR OPERATORS WITH ENCODER.
677171	<b>202RR</b>	Circuit only
677570	<b>203RR/C</b>	Digital control board 230V ac (with box 100G) for 1 operator with encoder control (sliding gates and barriers). It is complete with anti-crushing safety device, integrated 433 Mhz radio receiver, speed adjustment during normal cycle and slow down in opening and closing, force adjustment up to 70 levels separate in open and close (with box 100G).
677070	<b>203RR</b>	Circuit only
678070	<b>224RR/C</b>	Digital control board 24V dc (with box 100G) for 1 or 2 operators (swing gates). It is complete with anti-crushing safety device, integrated 433 Mhz radio receiver, speed adjustment during normal cycle and slow down in opening and closing, force adjustment up to 70 levels separate in open and close and for the two motors.
678190	<b>224RR</b>	Circuit only
678230	<b>724RR</b>	Digital control board 24V dc (without box) for Spazio 702S.
678200	<b>124RRZ</b>	Digital control board 24V dc (without box) for Spazio 703S.

## CONTROL BOARDS RANGE START



COD.	Art.	Description
677120	<b>212E/C</b>	Control board 230V ac (with box 100G) for 1 or 2 operators (Livi403E-803E-903E). It is complete with integrated 433 Mhz radio receiver, automatic working time learning, force adjustment up to 8 levels. Inputs control for external safety device (European Safety Rule 13241-1)
677110	<b>212E</b>	Circuit only
COD.	Art.	Description
677540	<b>211ER/C</b>	Control panel (with box 100A) for the automation of 230V operators for roller shutters. Selecting working logic (step by step, separated open/close, man present command) programmable working times, with built in 433Mhz. radio receiver.
COD.	Art.	Description
677560	<b>SSE12/C</b>	Temporised contact to pilot electromagnets and/or for other generic uses (courtesy light, traffic lights...) in box 100A.

## RECHARGEABLE BATTERY SETS



COD.	Art.	Description
629290	<b>BAT</b>	Rechargeable batteries kit for 24V operators, 12V - 1,3Ah, complete with wiring cables
649200	<b>BAT PASS</b>	Batteries set for PASS barriers complete with 2 x 4,5Ah batteries, fixing plates and connecting cables
649201	<b>BAT/STOP</b>	Batteries set for STOP barriers complete with 2 x 4,5Ah batteries, fixing plates and connecting cables

## BOXES FOR CONTROL BOARDS



COD.	Art.
679130	<b>100A</b>
PVC box to be mounted into LIVI 400 range operators or to fix on the wall (113 x h190 x 65)	

COD.	Art.
679060	<b>100G</b>
PVC box for any control board (180 x h265 x 90)	

COD.	Art.
679070	<b>100GR</b>
PVC box with raised deck, suitable for control boards with batteries (180 x h265 x 130)	

COD.	Art.
679180	<b>100GP</b>
Buttons wired cover (180 x h265)	

COD.	Art.
679140	<b>100GG</b>
Large PVC box, suitable to include any other DEA boxes, to grant a better protection and isolation. (250 x h350 x 175)	

## RECEIVERS



Receiver

COD.	Art.	Description
675540	<b>261/2</b>	Hardwired type, 2 channels, with box (433,92Mhz) power supply 12V/24V a.c./d.c.
675500	<b>251</b>	Hardwired type, 1 channel, with box (433,92Mhz) power supply 24V a.c./d.c. or 12V d.c.
675510	<b>251/2*</b>	Hardwired type, 2 channels, with box (433,92Mhz) power supply 24V a.c./d.c. or 12V d.c.
675501	<b>251/2/868*</b>	Hardwired type, 2 channels, with box (868Mhz) power supply 24V a.c./d.c. or 12V d.c.

\* the output of the second relay of the receiver can only be activated by the key CH2 of stored remotes

TECHNICAL INFO	261/2	251	251/2	251/2/868
Connection type	Terminal	Terminal	Terminal	Terminal
Power supply	Selectable 12/24V ac/dc	Selectable 24V ac/dc o 12V dc	Selectable 24V ac/dc o 12V dc	Selectable 24V ac/dc o 12V dc
Frequency	433,92 MHz	433,92 MHz	433,92 MHz	868 MHz
Compatible types of encoding	HCS rolling-code(customizable) HCS "fixed code" Dip-switch (12bit)		HCS rolling-code(customizable) HCS "fixed code" Dip-switch (12bit)	
Number of channels	2	1	2	2
Contacts capacity	0,5A / 30Vdc	0,5A / 30Vdc	0,5A / 30Vdc	0,5A / 30Vdc
To be memorized remotes	1000	128	128	128
Operating temperature	-20°C +70°C	-20°C +70°C	-20°C +70°C	-20°C +70°C

## RECEIVERS Accessories



240



240E

COD.	Art.	Description
679160	<b>100F</b>	Box for hardwired radio receivers art. 251-251/2-261/2 for internal use

COD.	Art.	Description
679000	<b>BOX</b>	Box for hardwired radio receivers art. 251-251/2-261/2 for external use
679010	<b>BOX/A</b>	Box with built-in antenna for hardwired radio receivers art. 251-251/2-261/2 for external use

COD.	Art.	Description
179004	<b>240</b>	Tuned antenna 433Mhz
179006	<b>240E</b>	Supplementary antenna for SPAZIO

# REMOTES

## Rolling Code Remotes



MIO two channels  
**TR2**

MIO four channels  
**TR4**

COD.	Art.	Power supply	Frequency	Range	Type of encoding	Channels
672580	<b>TR2</b>	12V alkaline battery	433,92 MHz SAW	250-300m*	HCS rolling-code**	2
672590	<b>TR4</b>	12V alkaline battery	433,92 MHz SAW	250-300m*	HCS rolling-code**	4
672583	<b>TS2/868</b>	12V alkaline battery	868 MHz SAW	250-300m*	HCS rolling-code**	2
672592	<b>TS4/868</b>	12V alkaline battery	868 MHz SAW	250-300m*	HCS rolling-code**	4

\* with antenna tuned outdoors \*\* customizable



MIO two channels  
**TR2N**

MIO four channels  
**TR4N**

COD.	Art.	Power supply	Frequency	Range	Type of encoding	Channels
672584	<b>TR2N</b>	12V alkaline battery	433,92 MHz SAW	250-300m*	HCS rolling-code**	2
672593	<b>TR4N</b>	12V alkaline battery	433,92 MHz SAW	250-300m*	HCS rolling-code**	4
672585	<b>TS2N/868</b>	12V alkaline battery	868 MHz SAW	250-300m*	HCS rolling-code**	2
672594	<b>TS4N/868</b>	12V alkaline battery	868 MHz SAW	250-300m*	HCS rolling-code**	4

\* with antenna tuned outdoors \*\* customizable

## Clonable Remotes



MIO two channels  
**TD2**

MIO four channels  
**TD4**

COD.	Art.	Power supply	Frequency	Range	Type of encoding	Channels
671570	<b>TD2</b>	12V alkaline battery	433,92 MHz SAW	250-300m*	12bits fixed code	2
671580	<b>TD4</b>	12V alkaline battery	433,92 MHz SAW	250-300m*	12bits fixed code	4

**To be cloned through transmission from master remote control compatible with Dea System receivers (dip switch or rolling code)**

\* with antenna tuned outdoors

## Clip MIO



COD.	Art.	Description
679190	<b>clip mio</b>	Support for art. MIO, 5 pcs., (complete of adhesive)

## PROXIMITY READER SYSTEMS



**COIN/5**



**ONDA**

COD.	Art.	Description
673010	<b>COIN/5</b>	Programmable key (5 pcs.), chargeable with credits
679120	<b>ONDA</b>	Proximity reader device (complete with decoding receiver) to be used in connection with Coin
679121	<b>ONDA/S</b>	Proximity reader device (without decoding receiver) to be used in connection with Coin

### Technical Info ONDA

Power supply	2/24V AC/DC to be selected	Connection to remote receiver	RS485 serial interface, max distance 500m
Transponder frequency	125KHz	Number of cards/keys supported	1000
Reading distance	5cm (key) / 10cm (card)	Acoustic signal	Yes
Reading/writing coding	Encryption protocol KEELOQ	Protection level	IP54
Transmission to remote receiver coding	Encryption protocol KEELOQ	Opening temperature	-20°C +70°C

## MASTERNET INTERFACE



COD.	Art.	Description
681020	<b>MASTERNET*</b>	Interface Master to be used for BUS connection to DE@NET devices (DIGINET, LINEAR/NET)

\* NET230N and NET24N don't need the Interface art. MASTERNET

## KEYPAD



**DIGIRAD**  
**DIGINET**

COD.	Art.	Description
663280	<b>DIGIRAD</b>	Wireless keypad
663270	<b>DIGINET</b>	Hardwired keypad for BUS connections to MASTER devices of range DE@NET (NET24N, NET230N, MASTERNET)

## PUSH-BUTTON KEYPAD



COD.	Art.	Description
663400	<b>PULSY</b>	Open/Close and Stop push-buttons keypad

## KEYSWITCHES



**102LUX**



**KYO**

COD.	Art.	Description
663030	<b>102LUX</b>	Plastic keyswitch with two contacts, flush mounted. Supplied with 2 keys.
663060	<b>KYO</b>	Metal vandal proof keyswitch with two contacts, flush mounted. Supplied with 2 keys.



## PHOTOCELLS, COLUMNS, LOOP DETECTORS



COD.	Art.	Description
662020	<b>104MINILUX</b>	Pair of surface mounted photocells. Range 20 mt
662030	<b>104LUX</b>	Pair of adjustable (15°) surface mounted photocells. Range 20 mt



COD.	Art.	Description
662043	<b>LINEAR/B</b>	Pair of adjustable photocells (180°) with tx supplied by a LiOn battery. Range 7/15 mt
662044	<b>LINEAR</b>	Pair of adjustable photocells (180°) with possibility of synchronized operating. Range 20 mt
662045	<b>LINEAR/NET</b>	Pair of adjustable photocells (180°) for connection via BUS to devices range "DE@NET" (DIGINET, LINEAR/NET) with the possibility of use up to 8 synchronised pairs. Range 20 mt



BSF



COVER

COD.	Art.	Description
649160	<b>BSF</b>	Bracket for Linear photocells
681060	<b>COVER</b>	Vandal-proof aluminium cover for art. LINEAR and LINEAR/B



COD.	Art.	Description
662070	<b>104SEZ</b>	Pair of patented system photocells for the total protection of sectional doors: to avoid impact measurements, as required by En standards



COD.	Art.	Description
667061	<b>LOOP230/1</b>	Loop detector, 1 channel
667071	<b>LOOP230/2</b>	Loop detector, 2 channels



PILLY 60 - 120



PILLY base

COD.	Art.	Description
664000	<b>PILLY/60</b>	Pair of aluminium columns for photocells, height 55 cm.
664010	<b>PILLY/120</b>	Pair of aluminium columns for photocells, height 100 cm.
664020	<b>PILLY/base</b>	Pair of fixing plates for columns to be cemented.



## FLASHING LIGHTS



CLED230



CLED24

COD.	Art.	Description
661062	<b>LED230AI</b>	LED flashing light 230V with built-in antenna 433Mhz
661082	<b>LED24AI</b>	LED flashing light 24V with built-in antenna 433Mhz
649180	<b>CLED230</b>	Flashing light circuit, 230V, for barriers PASS and STOP
649181	<b>CLED24</b>	Flashing light circuit, 24V, for barriers PASS and STOP

## LOCKS AND ACCESSORIES



110V



109



D



M



1100

+



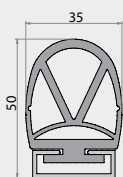
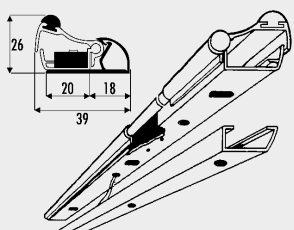
109A



**BLINDOS  
BLINDO**

COD.	Art.	Description
136006	<b>110V</b>	Empty electric lock (without European cylinder) with ground selvage art. 109
136005	<b>D</b>	Double European cylinder
136004	<b>M</b>	Half European cylinder
136024	<b>1100</b>	Horizontal electric lock complete with double cylinder and horizontal selvage art. 109A
665000	<b>BLINDOS</b>	Safety enclosure to place external unlocking device handle
665010	<b>BLINDO</b>	Empty safety enclosure

## SAFETY DEVICES AND ACCESSORIES



**SOFT3**



**SOFTP**



**GSOFTP**



### MECHANICAL SAFETY RIBS

COD.	Art.	Description
171000	<b>124</b>	Mechanical safety rib, 1,5 mt.
171001	<b>123</b>	Mechanical safety rib, 2 mt.
171030	<b>125</b>	Mechanical safety rib, 2,5 mt.

COD.	Art.	Description
171002	<b>130</b> (cm. 120)	Safety device for garage door with preassembled side channel
171003	<b>131</b> (cm. 180)	

### RESISTIVE RIBS ACCORDING TO EN12978

COD.	Art.	Description
171028	<b>123N</b>	Safety rib with resistance, 2 mt., according to EN12978
171029	<b>125N</b>	Safety rib with resistance, 2,5 mt., according to EN12978
171031	<b>121N</b>	Safety rib with resistance 0,90 mt., according to EN12978 for IRONBOX

### PASSIVE RIBS

COD.	Art.	Description
667053	<b>SOFT3</b>	Safety rubber profile (complete with aluminium base) useful to reduce the impact forces for sliding and swing gates. 12mt.
667051	<b>SOFTP</b>	Safety rubber profile (complete with aluminium base) useful to reduce the impact forces. 24 mt
321810	<b>GSOFTP</b>	Safety rubber profile for STOP and PASS, EDPM S65, 24 mt.

COD.	Art.	Description
668010	<b>127</b>	Warning sign

COD.	Art.	Description
681030	<b>SMF230/2</b>	Lamp traffic light with red-green lights

## RADIO TRANSMISSION DEVICE



COD.	Art.
672900	<b>RADIOBAND TBX</b>
- 868 Mhz transmitter - Dimensions 160x53x20 mm. - Power supply: 2x1,5V AA batteries (lifetime: about 18 months)	

COD.	Art.
675580	<b>RADIOBAND RU</b>
- 868 Mhz receiver - Two channels - Up to 3 storable transmitters for each channel	



## INSTRUMENT FOR THE MEASUREMENT OF IMPACT FORCES

### In compliance with European Safety rules EN 13241-1 EN 12453 and EN 12445



- Speed Force is an instrument for the measurement of impact forces of automatic gates and doors, according to the Rules EN 13241-1, EN12445 / EN12453.
- Its main feature is that it is a stand alone instrument. Thanks to its display and internal memory it can actually memorize up to 50 different measurements of data and graphics.
- At any time it is possible to download to a PC all memorized data, by using the Software supplied.
- Each single test gets a progressive number, allowing an historical progress of measurements.
- The display is divided in two sections, for ease of use.
- The connection to the PC is very simple, as it is possible to use standard connectors.
- At the rear there is a place to fix the accessories for the different measurements.
- It is possible to turn or overturn the handle for ease of use.


### DIMENSIONS





COD.	Art.	Description
681000	<b>Speed Force</b>	Speed Force instrument complete with Software, Certificate of Gauging and USB cable.
681010	<b>Straight extension</b>	Straight extension for sliding gates measurement.
681011	<b>Angle extension</b>	Angle extension for swing gates and garagedoors measurement.


### TECHNICAL INFO


DIMENSIONS	280 mm x 80 mm x 50 mm (LxPxH) ± 5%	Absorption	max. 100mA
Weight	1,6 Kg ± 10%	Force measurement	0 ÷ 2000N (mechanical stop 2100N)
Power supply	Battery Standard 9V	Precision from 0 to 400 N	1% F.S.
Interface	Serial RS 232 o USB	Precision from 400 to 1000 N	2% F.S.
Display	(2+4) LED with 7 LED red lines	Precision from 1000 to 1400 N	4% F.S.
Measurement interval	6 sec. sampling 1Ksmp/s	Precision from 1400 to 2000 N	5% F.S.


Art.	COD.	FAMILY	
<b>0/351-0/651</b>	350360	ACCESSORIES	52
<b>0/352-0/652</b>	629070	ACCESSORIES	52
<b>0/353-0/653</b>	629080	ACCESSORIES	52
<b>100</b>	621250	GHOST100	66
<b>123</b>	171001	ACCESSORIES	122
<b>124</b>	171000	ACCESSORIES	122
<b>125</b>	171030	ACCESSORIES	122
<b>127</b>	668010	ACCESSORIES	122
<b>1008</b>	649030	ACCESSORIES	106
<b>124RRZ</b>	678200	ACCESSORIES	116
<b>100/24</b>	621260	GHOST100	66
<b>100/24CL</b>	621262	GHOST100	66
<b>100/24EN</b>	621261	GHOST100	66
<b>100/24EN/CL</b>	621263	GHOST100	66
<b>100/CL</b>	621252	GHOST100	66
<b>100/EN</b>	621251	GHOST100	66
<b>1004</b>	649010	ACCESSORIES	106
<b>1005</b>	386390	ACCESSORIES	106
<b>1006</b>	649000	ACCESSORIES	102
<b>100A</b>	679130	ACCESSORIES	117
<b>100EN/CL</b>	621253	GHOST100	66
<b>100F</b>	679160	ACCESSORIES	117
<b>100G</b>	679060	ACCESSORIES	117
<b>100GG</b>	679140	ACCESSORIES	117
<b>100GP</b>	679180	ACCESSORIES	117
<b>100GR</b>	679070	ACCESSORIES	117
<b>100N</b>	171031	ACCESSORIES	122
<b>1010</b>	649020	ACCESSORIES	102
<b>1010/M</b>	649021	ACCESSORIES	102
<b>1010/M</b>	649021	ACCESSORIES	106
<b>1012</b>	101004	ACCESSORIES	102
<b>102LUX</b>	663030	ACCESSORIES	119
<b>104LUX</b>	662030	ACCESSORIES	120
<b>104MINILUX</b>	662020	ACCESSORIES	120
<b>104SEZ</b>	662070	ACCESSORIES	120
<b>1100</b>	136024	ACCESSORIES	121
<b>110V</b>	136006	ACCESSORIES	121
<b>111</b>	619000	ACCESSORIES	28
<b>112</b>	126001	ACCESSORIES	28
<b>113</b>	126000	ACCESSORIES	28
<b>115</b>	629003	ACCESSORIES	68
<b>115I</b>	629013	ACCESSORIES	68
<b>116</b>	126008	ACCESSORIES	36
<b>116G</b>	629021	ACCESSORIES	68
<b>118</b>	629031	ACCESSORIES	68
<b>123N</b>	171028	ACCESSORIES	122
<b>125N</b>	171029	ACCESSORIES	122
<b>130</b>	171002	ACCESSORIES	122
<b>131</b>	171003	ACCESSORIES	122
<b>1503E</b>	613220	GULIVER	34
<b>18/IB</b>	613302	IRONBOX	38
<b>18NET</b>	613300	GULIVER	34

Art.	COD.	FAMILY	
<b>18NET/M</b>	613301	GULIVER	34
<b>200</b>	621000	GHOST200	46
<b>240</b>	179004	ACCESSORIES	117
<b>251</b>	675500	ACCESSORIES	117
<b>200/24</b>	621020	GHOST200	46
<b>200/24CL</b>	621050	GHOST200	46
<b>200/CLEN</b>	621070	GHOST200	46
<b>200/EN</b>	621060	GHOST200	46
<b>200CL</b>	621040	GHOST200	46
<b>200L</b>	621010	GHOST200	46
<b>202RR</b>	677171	ACCESSORIES	116
<b>202RR/C</b>	677161	ACCESSORIES	116
<b>203RR</b>	677070	ACCESSORIES	116
<b>203RR/C</b>	677570	ACCESSORIES	116
<b>211ER/C</b>	677540	ACCESSORIES	116
<b>212E</b>	677110	ACCESSORIES	116
<b>212E/C</b>	677120	ACCESSORIES	116
<b>215</b>	629000	ACCESSORIES	72
<b>215I</b>	629010	ACCESSORIES	72
<b>216</b>	629020	ACCESSORIES	72
<b>218</b>	629030	ACCESSORIES	72
<b>224RR</b>	678190	ACCESSORIES	116
<b>224RR/C</b>	678070	ACCESSORIES	116
<b>240E</b>	179006	ACCESSORIES	117
<b>25/IB</b>	613219	IRONBOX	38
<b>251/2*</b>	675510	ACCESSORIES	117
<b>251/2/868*</b>	675501	ACCESSORIES	117
<b>25RRT</b>	613210	GULIVER	34
<b>25RRT/M</b>	613221	GULIVER	34
<b>25RRTF</b>	613215	GULIVER	34
<b>261/2</b>	675540	ACCESSORIES	117
<b>351/SC</b>	627000	LOOK	46
<b>351EN/SC</b>	627012	LOOK	46
<b>352/SC</b>	627021	LOOK	46
<b>353/SC</b>	627031	LOOK	46
<b>354/SC</b>	627041	LOOK	46
<b>355/SC</b>	627053	LOOK	46
<b>355EN/SC</b>	627052	LOOK	46
<b>356/SC</b>	627061	LOOK	46
<b>357/SC</b>	627071	LOOK	46
<b>358/SC</b>	627081	LOOK	46
<b>371/SC</b>	627090	LOOK	46
<b>371E/SC</b>	627092	LOOK	46
<b>371EN/SC</b>	627102	LOOK	46
<b>372/SC</b>	627111	LOOK	46
<b>373/SC</b>	627123	LOOK	46
<b>373EN/SC</b>	627124	LOOK	46
<b>374/SC</b>	627131	LOOK	46
<b>400RR</b>	677130	ACCESSORIES	116
<b>400RR/C</b>	677140	ACCESSORIES	116
<b>403E</b>	614110	LIVI	26
<b>450</b>	619040	ACCESSORIES	28


Art.	COD.	FAMILY	
<b>451</b>	619041	ACCESSORIES	32
<b>460</b>	619010	ACCESSORIES	28
<b>502</b>	623120	LIVI502	58
<b>5/24NET/F</b>	614121	LIVI	26
<b>502/24</b>	623180	LIVI502	58
<b>502/24EN</b>	623181	LIVI502	58
<b>502EN</b>	623121	LIVI502	58
<b>502L</b>	623140	LIVI502	58
<b>502R</b>	623130	LIVI502	58
<b>502R/EN</b>	623131	LIVI502	58
<b>550/24EN</b>	623421	LIVI550PL	94
<b>550/24PL/F</b>	623420	LIVI550PL	94
<b>550PL</b>	623410	LIVI550PL	94
<b>550PL/F</b>	623400	LIVI550PL	94
<b>550PL/SF</b>	639540	ACCESSORIES	96
<b>550PLEN</b>	623411	LIVI550PL	94
<b>560A</b>	629130	ACCESSORIES	60
<b>560BD</b>	629110	ACCESSORIES	60
<b>560BS</b>	629120	ACCESSORIES	60
<b>560BT</b>	629190	ACCESSORIES	79
<b>560BV</b>	629140	ACCESSORIES	60
<b>560F-960F</b>	639111	ACCESSORIES	79
<b>560M</b>	629100	ACCESSORIES	60
<b>560P</b>	380960	ACCESSORIES	60
<b>580</b>	629170	ACCESSORIES	64
<b>580A</b>	629160	ACCESSORIES	64
<b>580L</b>	381070	ACCESSORIES	64
<b>580M</b>	629200	ACCESSORIES	64
<b>580V</b>	381060	ACCESSORIES	64
<b>602</b>	624000	OLI	50
<b>603</b>	624010	OLI	50
<b>604</b>	624020	OLI	50
<b>605</b>	624030	OLI	50
<b>606</b>	624040	OLI	50
<b>602L</b>	624050	OLI	50
<b>603L</b>	624060	OLI	50
<b>604L</b>	624070	OLI	50
<b>605L</b>	624080	OLI	50
<b>606L</b>	624090	OLI	50
<b>6NET</b>	614140	LIVI	26
<b>714</b>	485071	SPAZIO	80
<b>728</b>	485074	SPAZIO	80
<b>731</b>	485072	SPAZIO	80
<b>736</b>	485073	SPAZIO	80
<b>702S</b>	485092	SPAZIO	80
<b>703S</b>	485101	SPAZIO	80
<b>720</b>	639300	ACCESSORIES	82
<b>721B</b>	639320	ACCESSORIES	82
<b>721C</b>	639330	ACCESSORIES	82
<b>721M</b>	639311	ACCESSORIES	82
<b>722</b>	639340	ACCESSORIES	82
<b>723</b>	639350	ACCESSORIES	82


Art.	COD.	FAMILY	
<b>724</b>	381170	ACCESSORIES	82
<b>724RR</b>	678230	ACCESSORIES	116
<b>725</b>	639380	ACCESSORIES	82
<b>760C</b>	639370	ACCESSORIES	82
<b>761C</b>	639371	ACCESSORIES	82
<b>762C</b>	639372	ACCESSORIES	82
<b>8/24NET/F</b>	615161	LIVI	26
<b>800C/ACC</b>	639000	ACCESSORIES	92
<b>800C/CZ38</b>	639030	ACCESSORIES	92
<b>800C/F</b>	639020	ACCESSORIES	92
<b>800C/TEN</b>	639010	ACCESSORIES	92
<b>803E</b>	615150	LIVI	26
<b>902/24EN</b>	633174	LIVI902	76
<b>902/24EN/BF</b>	633175	LIVI902	76
<b>902EN</b>	633360	LIVI902	76
<b>902EN/BF</b>	633351	LIVI902	76
<b>902R</b>	633120	LIVI902	76
<b>902R/EN/F</b>	633121	LIVI902	76
<b>905/24NET</b>	633430	LIVI902	76
<b>905/24NET/BF</b>	633432	LIVI902	76
<b>905/24NETP</b>	633431	LIVI902	76
<b>905/24NETP/BF</b>	633433	LIVI902	76
<b>905NET</b>	633410	LIVI902	76
<b>905NET/BF</b>	633412	LIVI902	76
<b>905NET/IP</b>	633414	LIVI902	76
<b>905NET/P</b>	633411	LIVI902	76
<b>905NETP/BF</b>	633413	LIVI902	76
<b>950</b>	639040	ACCESSORIES	79
<b>950BS</b>	639360	ACCESSORIES	79
<b>950V</b>	639140	ACCESSORIES	79
<b>950VR</b>	639144	ACCESSORIES	79
<b>951</b>	639050	ACCESSORIES	79
<b>951V</b>	639150	ACCESSORIES	79
<b>951V</b>	639151	ACCESSORIES	79
<b>952BL</b>	639070	ACCESSORIES	79
<b>953C</b>	380360	ACCESSORIES	79
<b>953N</b>	380370	ACCESSORIES	79
<b>953NL</b>	380380	ACCESSORIES	79
<b>954</b>	639080	ACCESSORIES	79
<b>954D</b>	639390	ACCESSORIES	79
<b>954L</b>	639081	ACCESSORIES	79
<b>954V</b>	639160	ACCESSORIES	79
<b>955</b>	380560	ACCESSORIES	79
<b>955V</b>	380990	ACCESSORIES	79
<b>960C</b>	639100	ACCESSORIES	79
<b>960K</b>	639090	ACCESSORIES	79
<b>960M</b>	639170	ACCESSORIES	79
<b>960ME</b>	639171	ACCESSORIES	79
<b>960PN</b>	639121	ACCESSORIES	79
<b>9NET</b>	615180	LIVI	26
<b>ANGOLO 24NET/1</b>	626000	ANGOLO	62
<b>ANGOLO 24NET/2</b>	626010	ANGOLO	62

Art.	COD.	FAMILY	
<b>BAT</b>	629290	ACCESSORIES	116
<b>BAT PASS</b>	649200	ACCESSORIES	116
<b>BATT/STOP</b>	649201	ACCESSORIES	106
<b>BLINDO</b>	665010	ACCESSORIES	121
<b>BLINDOS</b>	665000	ACCESSORIES	121
<b>BOX</b>	679000	ACCESSORIES	117
<b>BOX/A</b>	679010	ACCESSORIES	117
<b>BSF</b>	649160	ACCESSORIES	120
<b>CG</b>	639500	ACCESSORIES	92
<b>CHARGER</b>	681051	ACCESSORIES	114
<b>CLED230</b>	649180	ACCESSORIES	121
<b>CLED24</b>	649181	ACCESSORIES	121
<b>CLIP MIO</b>	679190	ACCESSORIES	118
<b>COIN/5</b>	673010	ACCESSORIES	119
<b>COL 515</b>	629250	ACCESSORIES	44
<b>COVER</b>	681060	ACCESSORIES	120
<b>CS320</b>	629340	LOOK	46
<b>CS520</b>	629341	LOOK	46
<b>D</b>	136005	ACCESSORIES	121
<b>DIGINET</b>	663270	ACCESSORIES	119
<b>DIGIRAD</b>	663280	ACCESSORIES	119
<b>GEKO</b>	628000	GEKO	54
<b>GEKO/2</b>	628010	GEKO	54
<b>GEKO/BA</b>	629260	ACCESSORIES	56
<b>GEKO/BL</b>	629262	ACCESSORIES	56
<b>GEKO/BLA</b>	629263	ACCESSORIES	56
<b>GEKO/BS</b>	629261	ACCESSORIES	56
<b>GEKO/SF</b>	629280	ACCESSORIES	56
<b>GREEN ENERGY</b>	681050	ACCESSORIES	114
<b>GSOFTP</b>	321810	ACCESSORIES	122
<b>IRONBOX</b>	619080	IRON BOX	38
<b>KIT 100/24NET</b>	621610	KIT GHOST100	21
<b>KIT 100/NET</b>	621600	KIT GHOST100	21
<b>KIT 100EN/24NET</b>	621611	KIT GHOST100	21
<b>KIT 100EN/NET</b>	621601	KIT GHOST100	21
<b>KIT 100I/24NET</b>	621612	KIT GHOST100	21
<b>KIT 100I/NET</b>	621602	KIT GHOST100	21
<b>KIT 200/24NET</b>	621590	KIT GHOST200	22
<b>KIT 200/I/NET</b>	621582	KIT GHOST200	22
<b>KIT 200/NET</b>	621580	KIT GHOST200	22
<b>KIT 200EN/NET</b>	621581	KIT GHOST200	22
<b>KIT 200I/24NET</b>	621592	KIT GHOST200	22
<b>KIT 351EN/NET</b>	627631	KIT LOOK	16
<b>KIT 351NET</b>	627630	KIT LOOK	16
<b>KIT 355EN/NET</b>	627641	KIT LOOK	16
<b>KIT 355NET</b>	627640	KIT LOOK	16
<b>KIT 371E/NET</b>	627652	KIT LOOK	16
<b>KIT 371EN/NET</b>	627651	KIT LOOK	16
<b>KIT 371NET</b>	627650	KIT LOOK	16
<b>KIT 373EN/NET</b>	627661	KIT LOOK	16
<b>KIT 373NET</b>	627660	KIT LOOK	16
<b>KIT 5/24NET/F</b>	614672	KIT LIVI	14

Art.	COD.	FAMILY	
<b>KIT 502/24NET</b>	623670	KIT LIVI502	19
<b>KIT 502/NET</b>	623660	KIT LIVI502	19
<b>KIT 502EN/24NET</b>	623671	KIT LIVI502	19
<b>KIT 602NET</b>	624640	KIT OLI	17
<b>KIT 603NET</b>	624641	KIT OLI	17
<b>KIT 604NET</b>	624642	KIT OLI	17
<b>KIT 605NET</b>	624643	KIT OLI	17
<b>KIT 606NET</b>	624644	KIT OLI	17
<b>KIT 6NET</b>	614670	KIT LIVI	14
<b>KIT 702</b>	636000	KIT SPAZIO	23
<b>KIT 703</b>	636010	KIT SPAZIO	23
<b>KIT 8/24NET/F</b>	615642	KIT LIVI	14
<b>KIT 905/NET/BF</b>	633500	KITLIVI902	18
<b>KIT 9NET</b>	615640	KIT LIVI	14
<b>KIT ANGOLO</b>	626560	KIT ANGOLO	20
<b>KIT AVV</b>	639550	ACCESSORIES	79
<b>KIT CLIMB</b>	629350	ACCESSORIES	56
<b>KIT GEKO</b>	628500	KIT GEKO	18
<b>KIT LIVI 500P/NET</b>	623680	KIT LIVI500	18
<b>KIT MAC/24NET</b>	625660	KIT MAC	15
<b>KIT MAC/EN/24NET</b>	625661	KIT MAC	15
<b>KIT MAC/EN/NET</b>	625651	KIT MAC	15
<b>KIT MACNET</b>	625650	KIT MAC	15
<b>KIT MOLLA</b>	649220	ACCESSORIES	106
<b>KIT SALD</b>	639551	ACCESSORIES	79
<b>KIT 502EN/NET</b>	623662	KIT LIVI502	19
<b>KYO</b>	663060	ACCESSORIES	119
<b>L19</b>	639410	ACCESSORIES	92
<b>LAC19</b>	639430	ACCESSORIES	92
<b>LATO/SF</b>	639530	ACCESSORIES	92
<b>LATO220/CEN</b>	637011	LATO	90
<b>LATO220/EN</b>	637001	LATO	90
<b>LATO220NET</b>	637050	LATO	90
<b>LATO220NET/C</b>	637051	LATO	90
<b>LATO400CEN</b>	637041	LATO	90
<b>LATO400EN</b>	637031	LATO	90
<b>LATOM</b>	639480	ACCESSORIES	92
<b>LBA25</b>	639450	ACCESSORIES	92
<b>LBA40</b>	639440	ACCESSORIES	92
<b>LE</b>	639420	ACCESSORIES	92
<b>LED230AI</b>	661062	ACCESSORIES	121
<b>LED24AI</b>	661082	ACCESSORIES	121
<b>LED4</b>	649170	ACCESSORIES	106
<b>LED6</b>	649171	ACCESSORIES	106
<b>LEDPASS</b>	649172	ACCESSORIES	102
<b>LIFT/300-4</b>	650034	LIFT	108
<b>LIFT/300-5</b>	650035	LIFT	108
<b>LIFT/300-6</b>	650036	LIFT	108
<b>LIFT/300-7</b>	650037	LIFT	108
<b>LIFT/EL</b>	659040	ACCESSORIES	110
<b>LIFT/F</b>	650020	LIFT	108
<b>LIFT/M</b>	650021	LIFT	108



Art.	COD.	FAMILY	
<b>LIFT/QE</b>	677580	ACCESSORIES	110
<b>LIFT/RE</b>	659060	ACCESSORIES	110
<b>LIFT/RS</b>	659030	ACCESSORIES	110
<b>LIFT/SA</b>	659010	ACCESSORIES	110
<b>LIFT/SG</b>	659050	ACCESSORIES	110
<b>LIFT/SZ</b>	659020	ACCESSORIES	110
<b>LINEAR</b>	662044	ACCESSORIES	120
<b>LINEAR/B</b>	662043	ACCESSORIES	120
<b>LINEAR/NET</b>	662045	ACCESSORIES	120
<b>LOOK/SB</b>	629380	ACCESSORIES	48
<b>LOOK/SFR</b>	629311	ACCESSORIES	48
<b>LOOP230/1</b>	667061	ACCESSORIES	120
<b>LOOP230/2</b>	667071	ACCESSORIES	120
<b>M</b>	136004	ACCESSORIES	121
<b>M6</b>	360580	ACCESSORIES	36
<b>MAC</b>	625010	MAC	42
<b>MAC/24</b>	625040	MAC	42
<b>MAC/EN</b>	625020	MAC	42
<b>MAC/FM</b>	629300	ACCESSORIES	44
<b>MAC/R</b>	625030	MAC	42
<b>MAC/SFR</b>	629310	ACCESSORIES	44
<b>MAC24/EN</b>	625042	MAC	42
<b>MAC-LOOK/P</b>	629320	ACCESSORIES	44
<b>MASTERNET*</b>	681020	ACCESSORIES	119
<b>MICRO</b>	639520	ACCESSORIES	82
<b>NET230N</b>	677600	ACCESSORIES	115
<b>NET230N/C</b>	677610	ACCESSORIES	115
<b>NET24N</b>	678251	ACCESSORIES	115
<b>NET24N/C</b>	678261	ACCESSORIES	115
<b>NET24N/C250</b>	678263	ACCESSORIES	115
<b>OMPASS</b>	381744	ACCESSORIES	102
<b>OMPASS5</b>	649250	ACCESSORIES	102
<b>OMPASS60</b>	381741	ACCESSORIES	102
<b>OMSTOP</b>	649230	ACCESSORIES	106
<b>OMSTOP100</b>	381801	ACCESSORIES	106
<b>OMSTOP30</b>	381806	ACCESSORIES	106
<b>OMSTOP75</b>	649210	ACCESSORIES	106
<b>OMSTOP80</b>	381802	ACCESSORIES	106
<b>ONDA</b>	679120	ACCESSORIES	119
<b>ONDA/S</b>	679121	ACCESSORIES	119
<b>PASS/B</b>	649073	ACCESSORIES	102
<b>PASS/SL</b>	644003	PASS	100
<b>PASS24/SL</b>	644013	PASS	100
<b>PASS24/SV</b>	644012	PASS	100
<b>PASS24NET/L</b>	644021	PASS	100
<b>PASS24NET/V</b>	644020	PASS	100
<b>PASS24NET/VR</b>	644022	PASS	100
<b>PASS3</b>	649140	ACCESSORIES	102
<b>PASS4</b>	649141	ACCESSORIES	102
<b>PASS5</b>	649240	ACCESSORIES	102
<b>PASSNET/L</b>	644031	PASS	100
<b>PILLY/120</b>	664010	ACCESSORIES	120

Art.	COD.	FAMIGLIA	
<b>PILLY/60</b>	664000	ACCESSORIES	120
<b>PILLY/base</b>	664020	ACCESSORIES	120
<b>Prolunga</b>	681010	ACCESSORIES	123
<b>Prolunga ang.</b>	681011	ACCESSORIES	123
<b>PULSY</b>	663400	ACCESSORIES	119
<b>RADIOBAND RU</b>	675580	ACCESSORIES	123
<b>RADIOBAND TBX</b>	672900	ACCESSORIES	123
<b>REV220</b>	616000	REV	30
<b>REV220/IB</b>	616005	IRONBOX	38
<b>REV220/M</b>	616003	REV	30
<b>REV220/RF</b>	616001	REV	30
<b>REV220/RF/IB</b>	616006	IRONBOX	38
<b>REV220/RFM</b>	616004	REV	30
<b>REV24/F</b>	616011	REV	30
<b>REV24/IB</b>	616013	IRONBOX	38
<b>REV24/M</b>	616012	REV	30
<b>SD502</b>	629330	ACCESSORIES	60
<b>SMF230/2</b>	681030	ACCESSORIES	122
<b>SOFT3</b>	667053	ACCESSORIES	122
<b>SOFTP</b>	667051	ACCESSORIES	122
<b>SOLAR PANEL</b>	681052	ACCESSORIES	114
<b>Speed Force</b>	681000	ACCESSORIES	123
<b>SR</b>	639510	ACCESSORIES	82
<b>SSE12/C</b>	677560	ACCESSORIES	116
<b>STOP/B</b>	649072	ACCESSORIES	106
<b>STOP/SL</b>	645003	STOP	104
<b>STOP/SV</b>	645002	STOP	104
<b>STOP24/SL</b>	645013	STOP	104
<b>STOP24/SV</b>	645012	STOP	104
<b>STOP24NET/L</b>	645021	STOP	104
<b>STOP24NET/V</b>	645020	STOP	104
<b>STOP4</b>	649190	ACCESSORIES	106
<b>STOP6</b>	649191	ACCESSORIES	106
<b>STOP7.5</b>	649192	ACCESSORIES	106
<b>STOPNET/L</b>	645031	STOP	104
<b>STOPNET/V</b>	645030	STOP	104
<b>TD2</b>	671570	ACCESSORIES	118
<b>TD4</b>	671580	ACCESSORIES	118
<b>TR2</b>	672580	ACCESSORIES	118
<b>TR2N</b>	672584	ACCESSORIES	118
<b>TR4</b>	672590	ACCESSORIES	118
<b>TR4N</b>	672593	ACCESSORIES	118
<b>TS2/868</b>	672583	ACCESSORIES	118
<b>TS2N/868</b>	672585	ACCESSORIES	118
<b>TS4/868</b>	672592	ACCESSORIES	118
<b>TS4N/868</b>	672594	ACCESSORIES	118
<b>WILL</b>	634000	WILL	84
<b>WILL/42</b>	639250	ACCESSORIES	86
<b>WILL/CF</b>	634010	WILL	84
<b>WILL/F</b>	639240	ACCESSORIES	86

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