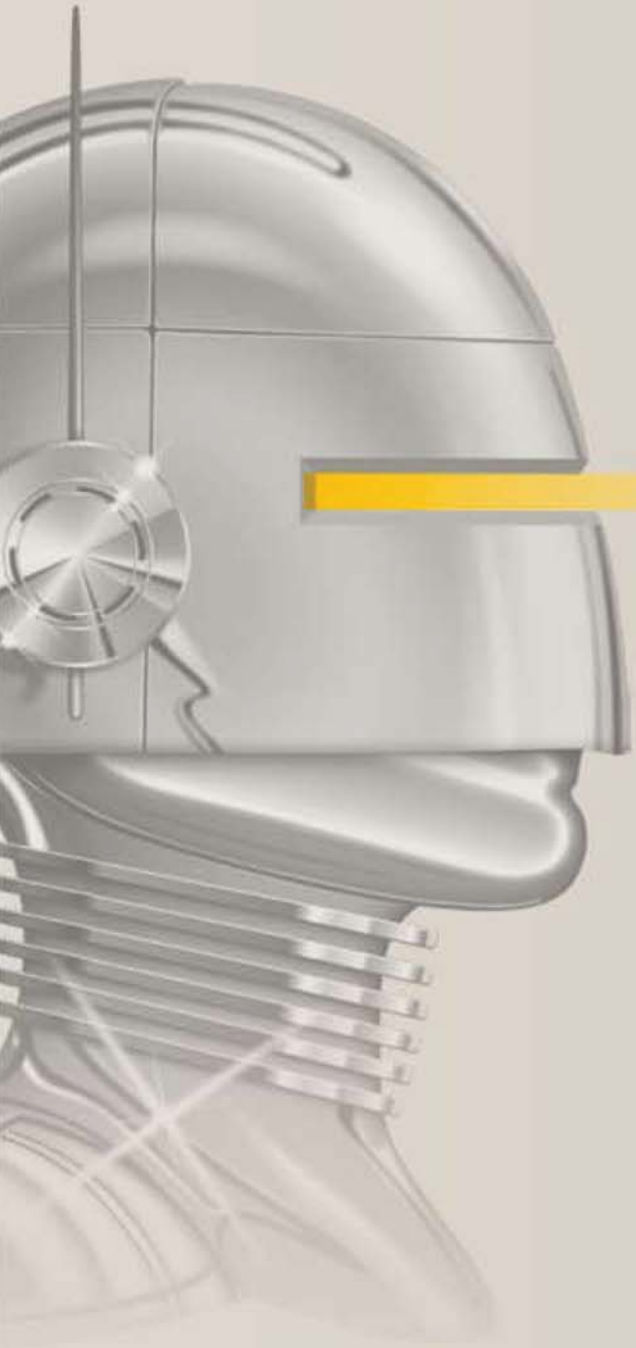


SEA

electronic opening system

SEA

SEA
electronic opening system

The choice to invest in the sun

In May 2010 was inaugurated the solar system of over 2000 photovoltaic panels installed on the roofs of the establishments supplying the energy needs of the company and providing additional economic benefits selling the produced energy to the local electricity provider. The network produces electricity from the sun in a silent and environment- friendly way, thanks to the system of fully integrated photovoltaic panels.

Green Energy

SEA 20th anniversary
1991 20

The quality of the real manufacturer

SEA
electronic opening system

In slightly more thann twenty years SEA has estabblished itself in the field of automated doors and gates as a new reality equipped with an up-to date manufacturing system localed in a plant extending on a covered surface of more then 11.000 sqm. the successful strategy that made it possible to meet requirements and to achieve the loyalty of customers throughout over 50 countries is the gigh flexibility ensured by a unique manufacturing system which is fully internalized.

In SEA the purchased eaw materil is processed according to all the phases of the manufacturing process and it becomes a finished product after a seies of progressive control

Design

Mechanical production

Mechanical production

The robots

Climatic room:
for test of functioning of the products under different climatic conditions

Our most important years

1991	1993	1996	1998	2000	2002	2003	2008	2011	2012
• First factory fo 3000m² • Standard of hydraulic production	• Establishement of a commercial branch SEA France (Lyone)	• Company Quality certification, ISO9001 • Product certification GHOST-R for Russian market	• Second plant for assembly and warehouse	• UL 325 Certification for United States of America • New location SEA France	• SEADOUBLES ! start of the hydraulic production line, which soon becomes the core business of the company Start the electomechanical line	• Third processing/ commercial plant, with a showroom of 500 m² • The company's production area exceeds 11.0000m². • Opening of the commercial branch in Miami SEA (USA)	• Production of hydraulic bollards for the management of car parks and public areas	• THE GREEN ECONOMY: 1,5 million euros invested in the costruction of over 2000solar panels supplying the energy needs of the company	• S.P.A. SEA becomes a joint-stock company

TOTAL QUALITY is the final result wich can be guaranteed only by an "OWN PRODUCTION".

- **Italian product 100%**
- **Hydraulic line**
- **Electromechanical line**
- **Dedicated distribution net**
- **Updating courses on standards and products**
- **Quality/Price competitiveness**
- **Product certifications EN 12445-12453**

Thanks to this strategy, SEA has managed to produce a wide range of reliable products, to gasin immediately important shares on the main markets worldwide and to achieve product and system certifications such as CE, UL, and ISO 9001 respectively.

Today SEA is a leading and a constantly growing group with customers' service centers localed on all sales markets.Its CODE BUSINESS is the manifacturing of hidraulic products, its differentation factor against competitors is the direct supervision on the whole manifacturing cycle.

Quality control

Assembling

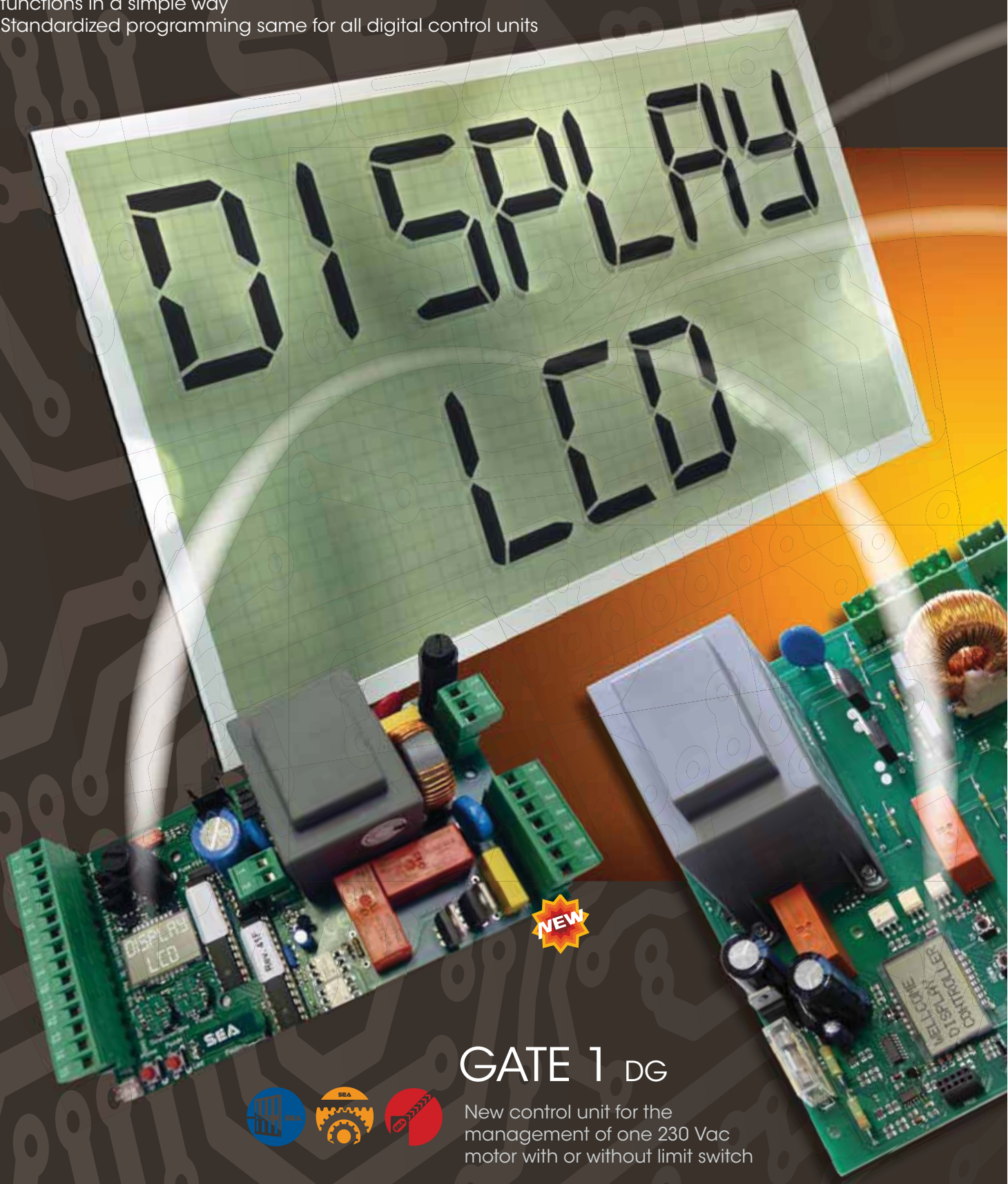
Final test on each product

Formation courses and technical updates

For 20 years the distributer and the pump are the hydraulic core production inside the SEA plants .

NEWS

On board LCD display allowing to set and to visualize all the functions in a simple way
Standardized programming same for all digital control units



GATE 1 DG

New control unit for the management of one 230 Vac motor with or without limit switch

STANDARDIZED PROGRAMMING

USER 2 24V DG

New control unit for the management of two 24V swing gates motors with or without limit switch

USER 1 24V DG

New control unit for the management of one 24V motor with or without limit switch

GATE 2 DG

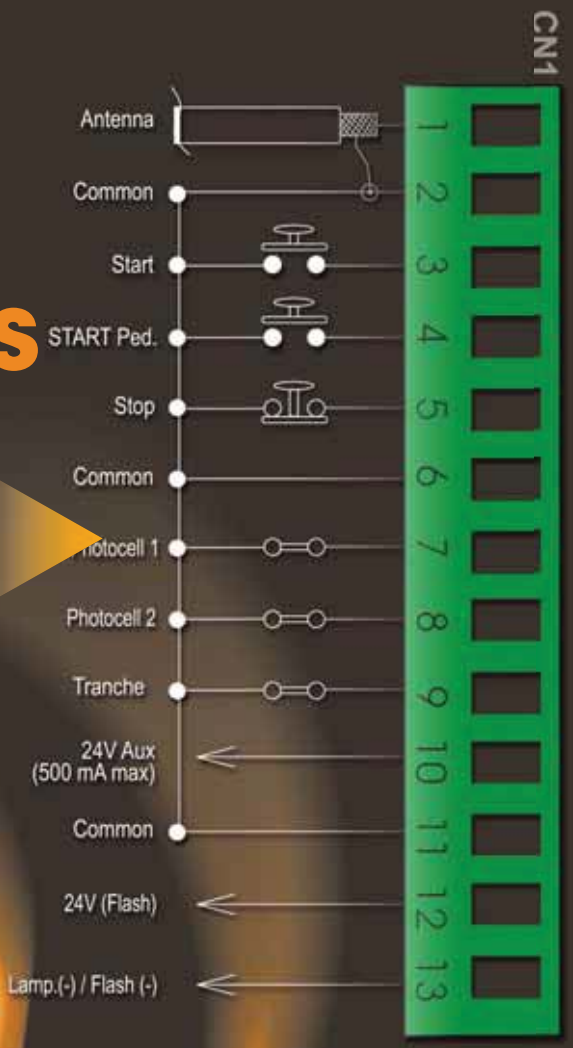
New control unit for the management of two 230 Vac swing gates motors with or without limit switch

SEA
electronic opening system

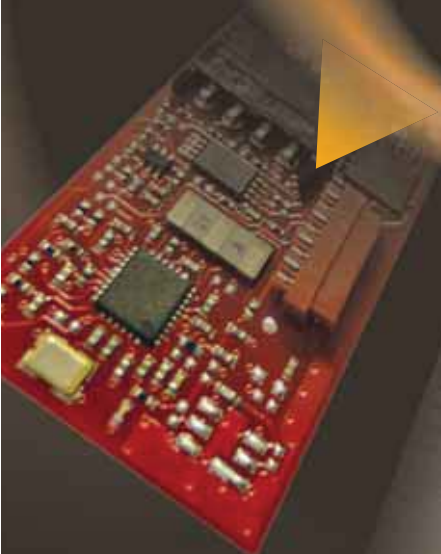
New digital control units

Advantages

STANDARDIZED INPUTS WITH THE SAME NUMBER



Standardized programming through LCD display



Univeras radio module compatible with fixed code or Rolling Code Plus Transmitters

Firmware upgrade through download

JOLLY
Standardized programmer

Universal Radio Module

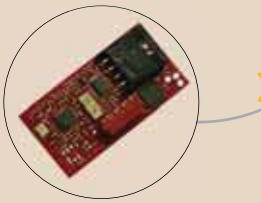
compatible with fixed code or Rolling Code Plus* transmitters

RF UNI
433 - 868 MHz

Simple frequency

changing just replacing the RF module

Flex UNI
433 - 868 MHz



RF UNI inside

RF UNI

Signal Box UNI
433 - 868 MHz

RF UNI inside

RF UNI

*THE ROLLING CODE OR FIXED CODE CODIFICATION WILL BE ESTABLISHED BY THE FIRST MEMORIZED TRANSMITTER

SEA
electronic opening system

Eyes

Synchronized photocell for outside mounting

Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes

Ideal for installations on gates or leaves with limited space for photocells

Eyes Bat

Synchronized photocell for outside mounting

Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes

Ideal for installations on gates or leaves with limited space for photocells

(2x1,2V) Battery-powered transmitter with charge through mini solar panel, included in the package

Optional anti-vandalism metal protection cover

Aster RF Roll Plus

Wireless key-switch for surface mounting with standard cylinder

Rolling code PLUS code

Out of shock-resistant strong material

2x3V lithium batteries

Rock RF - RF Roll Plus

Wireless keypad for outside mounting with 12 lit buttons (only when used)
Aluminium cover
Rolling code PLUS

Rock W

Keypad for outside mounting via cable with 12 ever-lit buttons
Aluminium cover
WIEGAND protocol

Cube

Anti-vandalism STAND-ALONE aluminium keypad for access control management with up to 500 users through numerical codes up to four digits

12 blue back-lit aluminium buttons

Cube W

Anti-vandalism aluminium keypad for access control management with up to 250 or 800 users through numerical codes
12 blue back-lit aluminium buttons
WIEGAND Protocol
Resinated electronic circuit

K 250

Access control decoder for the management of one access with up to 250 users-codes

Data reception through WIEGAND format reader (accessory necessary for CUBE W and ROCK W keypad)

For those who have a passion for racing cars and chose a unique style

Coccinella Carbon Look
New radio transmitter with technological and sporty design with carbon - look shiny plastic wings

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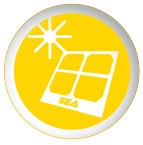

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*Available summer 2012

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2 Hydraulic operators MINI TANK SC 1 Control unit SWING 2 with RF UNI 433 Mhz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK AC 1 Control unit SWING 2 with RF UNI 433 Mhz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna per FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK SC 1 Control unit GATE 2 DG * with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna per FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
10112009	**10103120**	**10112045**
Q x = 8 PCS Q x1 = 16 PCS		

KIT MINI TANK TOP

*Available summer 2012

KIT MINI TANK SC TOP (with ball joint)	KIT MINI TANK AC TOP (with ball joint)	KIT MINI TANK SB TOP (with ball joint)
2 Hydraulic operators MINI TANK SC with ball joint 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK AC with ball joint 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Hydraulic operators MINI TANK SB with ball joint 1 Control unit GATE 2 DG * with RF UNI 433 MHz receiver 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
10112055	**10103125**	**10103130**
Q x = 8 PCS Q x1 = 16 PCS		

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT ALPHA 330 PLUS

KIT ALPHA 330 PLUS (with limit switch)
2 Electromechanical operators ALPHA 330 PLUS 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna per FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
1093323 PK
Q x = 8 PCS Q x1 = 16 PCS

KIT ALPHA 330

KIT ALPHA 330
2 Electromechanical operators ALPHA 330 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna per FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
10933230 K
Q x = 8 PCS Q x1 = 16 PCS

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT SURF

*Available summer 2012

KIT SURF 250	KIT SURF 350	KIT SURF 350 X (with limit switch)
2 Electromechanical operators SURF 250 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUSS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Electromechanical operators SURF 350 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard	2 Electromechanical operators SURF 350 with electronic and mechanical limit switches 1 Control unit GATE 2 DG* with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 1 Warning signboard
11005100	**11005165**	**11005150**
Q x = 8 PCS Q x1 = 16 PCS		

KIT SURF 24V

NATURE FRIENDLY kit Sunny compatible

KIT SURF 250 24V	KIT SURF 350 24V X (with limit switch)
2 Electromechanical operators SURF 250 24V 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard	2 Electromechanical operators SURF 350 24V with electronic and mechanical limit switch 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUSS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard
11005120	**11005155**
Q x = 8 PCS Q x1 = 16 PCS	

NOTE: X version with mechanical and electronic limit switch to be combined with a control unit with limit switch management (GATE ROLL OR USER ROLL) and standard manual release with metal lock.

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT BETA 24V

NATURE FRIENDLY kit Sunny compatible

KIT BETA 24V
2 Electromechanical operators BETA 24V 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard
11002005
Q x = 8 PCS Q x1 = 16 PCS

KIT FLIPPER 24V

NATURE FRIENDLY kit Sunny compatible

KIT FLIPPER SINGLE 24V PLUS	KIT FLIPPER DOUBLE 24V PLUS	KIT FLIPPER DOUBLE 24V BASIC
1 Electromechanical operator FLIPPER 24V with machanical/elettronic limit switch, control unit USER 2- 24V DG and with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard	2 Electromechanical operators FLIPPER 24V with machanical/elettronic limit switch, control unit USER 2- 24V DG and with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard	2 Electromechanical operators FLIPPER 24V with machanical limit switch, control unit USER 2- 24V DG and with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 1 Warning signboard
10854505	**10854500**	**10854525**
Q x = 8 PCS Q x1 = 16 PCS		

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT FIELD

*Available summer 2012

KIT FIELD	KIT FIELD OIL
2 Electromechanical operator FIELD with box 1 Control unit SWING 2 with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 2 Standard release 1 Warning signboard	2 Electromechanical operator FIELD OIL with box 1 Control unit GATE 2 DG* with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 2 Plus release 1 Warning signboard
12301070	**12301035**
Q x = 8 PCS	Q x1 = 16 PCS

KIT FILED 24V

NATURE FRIENDLY kit Sunny compatible

KIT FIELD 24V	KIT FIELD OIL 24V
2 Electromechanical operator FIELD 24V with box 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 2 Standard release 1 Warning signboard	2 Electromechanical operator FIELD OIL with box 1 Control unit USER 2 - 24V DG with RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH 24V 2 Plus release 1 Warning signboard
12301085	**12301040**
Q x = 8 PCS	Q x1 = 16 PCS

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT CORONA S

KIT CORONA 60 S (aluminium guide 3 x 1 m)	**KIT CORONA 110 S** (aluminium guide 3 x 1 m)
1 Gearmotor CORONA 60 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 3 Pieces 1 m aluminium guide (total 3 meters) 1 Internal release with rope + accessories 1 Warning signboard	1 Gearmotor CORONA 110 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 3 Pieces 1 m aluminium guide (total 3 meters) 1 Internal release with rope + accessories 1 Warning signboard
13320065	**13320070**

KIT CORONA RP

KIT CORONA RP 60 Quick coupling motor mounting on unique guide	**KIT CORONA RP 110** Quick coupling motor mounting on unique guide
1 Gearmotor CORONA 60 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 3 m piece of aluminium guide 1 Internal release with rope + accessories 1 Warning signboard	1 Gearmotor CORONA 110 with control unit USER 1 -24V DG with plug-in receiver RF UNI 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 3 m piece of aluminium guide) 1 Internal release with rope + accessories 1 Warning signboard
13320045	**13320050**
Q x = 8 PCS	Q x1 = 16 PCS

Note: On request KIT CORONA RP2 with two 1,5m modular guides or version with guide with belt

NEW

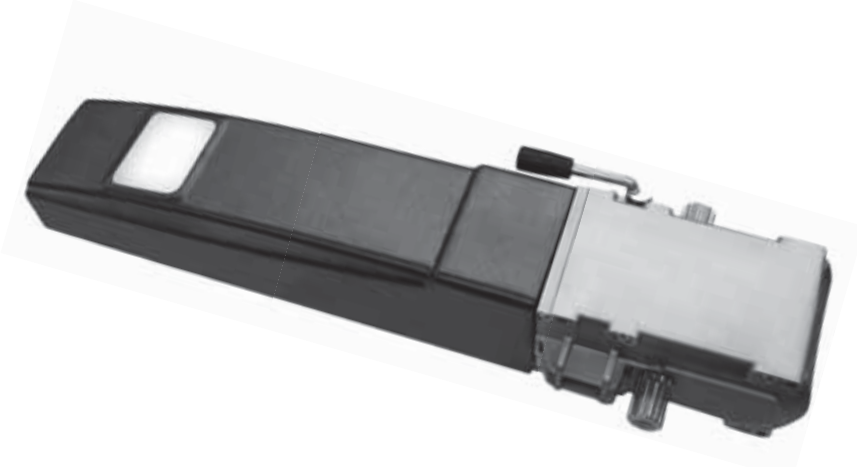
Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT ERG

KIT ERG G1	KIT ERG G1 PLUS	KIT ERG G1 + square tube
1 Operator ERG with limit switches, control unit GATE 1 and RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna with cable 1 Installation Kit for 1 ERG with straight arms and accessories to be weld 1 Warning signboard	1 Operator ERG with limit switches, control unit GATE 1 and RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Warning lamp FLASH 1 Key switch ASTER 1 Installation Kit for 1 ERG with straight arms and accessories to be weld 1 Pair of photocells SUNSET 1 Support for warning lamp 1 Warning signboard	1 Operator ERG with limit switches, control unit GATE 1 and RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna with cable 1 Installation Kit for 1 ERG with square tube (25x25mm), straight arms and accessories to be screwed 1 Warning signboard
11316025	**11316030**	**11316045**
Q x = 8 PCS Q x1 = 16 PCS		

KIT ERG 24V

NATURE FRIENDLY kit Sunny compatible



KIT ERG 24V	KIT ERG 24V PLUS
1 Operator ERG 24V, control unit USER 1 - 24V DG with RF UNI receiver 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna with cable 1 Installation Kit for 1 ERG with straight arms and accessories to be welded 1 Warning signboard	1 Operator ERG 24Vwith limit switches, control unit USER 1 - 24V DG with RF UNI receiver 433 MHz 1 2 ch. 433 MHz transmitter Roll PLUS 1 Kit Antenna for FLASH 1 Flashing lamp FLASH 24V 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Support for FLASH 24V 1 Installation Kit for 1 ERG with straight arms and accessories to be welded 1 Warning signboard
11316015	**11316020**
Q x = 8 PCS Q x1 = 16 PCS	

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT MERCURY

KIT MERCURY 400 G1	KIT MERCURY 600 G1	KIT MERCURY 800 G1	KIT MERCURY 400 E
1 Gearmotor MERCURY 400 with foundation plate and control unit GATE 1 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor MERCURY 600 with foundation plate and control unit GATE 1 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor MERCURY 800 with foundation plate and control unit GATE 1 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor MERCURY 400 with foundation plate and control unit SLIDE 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 Flashing lamp FLASH with flashing card 1 Warning signboard
11304500	**11304510**	**11304700**	**11304565**
Q x = 8 PCS Q x1 = 16 PCS			

KIT MERCURY 24V

NATURE FRIENDLY kit Sunny compatible

KIT MERCURY 400 24V	KIT MERCURY 600 24V	KIT MERCURY 800 24V
1 Gearmotor MERCURY 400 with foundation plate and control unit USER 1 - 24 V DG 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 24V 1 Flashing lamp FLASH 24V 1 Warning signboard	1 Gearmotor MERCURY 400 with foundation plate and control unit USER 1 - 24 V DG 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 24V 1 Flashing lamp FLASH 24V 1 Warning signboard	1 Gearmotor MERCURY 400 with foundation plate and control unit USER 1 - 24 V DG 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 24V 1 Flashing lamp FLASH 24V 1 Warning signboard
11304505	**11304605**	**11304705**
Q x = 8 PCS Q x1 = 16 PCS		

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

KIT SATURN 600

KIT SATURN 600 OIL Inductive limit switch	**KIT SATURN 600 OIL** Mechanical limit switch	**KIT SATURN 600 G1**
1 Gearmotor SATURN 600 OIL with inductive limit switch, foundation plate and GATE 1 control unit 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor SATURN 600 OIL with mechanical limit switch, foundation plate and GATE 1 control unit 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard	1 Gearmotor SATURN 600 OIL with foundation plate and GATE 1 control unit 1 RF UNI 433 MHz receiver 1 2 ch. 433 MHz transmitter Roll PLUS 1 Key switch ASTER 1 Pair of photocells SUNSET 1 kit Antenna for FLASH 1 Flashing lamp FLASH 1 Warning signboard
12401020	**12401015**	**12401005**
Q x = 8 PCS	Q x1 = 16 PCS	

Photos are indicative compositions (carefully read the specific compositions of the chosen kit)

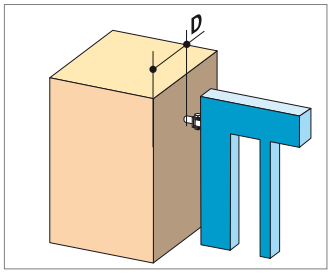
SEA

electronic opening system

www.seateam.com

MAX DIMENSIONS BETWEEN PIVOT HINGE AND END OF PILLAR			
OPERATOR	**STROKE (mm)**	**D MAX (mm)**	**D MAX RECOMMENDED (mm)**
BETA 24V	290	155	95
ALPHA 330	400	165	135
ALPHA 550	550	255	215
MINITANK	270	125	75
SURF	400	160	100
FLIPPER 24V	-	230	-
GER	-	380	-
HALF TANK 100	270	125	75
HALF TANK 200	390	240	130
FULL TANK 100	270	125	75
FULL TANK 200	390	240	130

Pantograph Arm



PANTOGRAPH ARM	CODE	D MAX (mm)	PRICE
95° HALF TANK 270	**12710500**	300	**324,00**
130° HALF TANK 270	**12710515**	150	**376,00**
95° MINI TANK 100	**12710530**	50	**324,00**
130° MINI TANK 100	**12710535**	155	**376,00**

Alpha

330-550 up to 3,3 m
550 24V up to 5,5 m

NATURE FRIENDLY kit Sunny compatible

Alpha Plus

Alpha

pag. 32

Beta

24V up to 2 m

NATURE FRIENDLY kit Sunny compatible

pag. 33

Surf

250(230V) - 350 (230V) up to 2,5 - 3,5 m

250(24V) - 350(24V) up to 3,5 m

NATURE FRIENDLY kit Sunny compatible

pag. 34

Flipper

24V up to 2,0 m

NATURE FRIENDLY kit Sunny compatible

pag. 35

Ger

230V up to 3,0 m
24V up to 3,0 m

NATURE FRIENDLY kit Sunny compatible

pag. 36

Mini Tank

pag. 28

270 SC	up to 1,8 m
270 SB	up to 3,0 m*
270 AC	up to 3,0 m*

Half Tank

pag. 29

270/390 AC	up to 1,8 m
270/390 SC	up to 1,8 m
270/390 SA	up to 1,8 m
270/390 SB	up to 6,0 m*

Half Tank 24V

HYDRAULIC

pag. 30

270 AC	up to 1,8 m
390 AC	up to 2,2 m

NATURE FRIENDLY kit Sunny compatible

Full Tank

pag. 31

270/390 SC	up to 2,2 m
270/390 AC	up to 2,2 m
270/390 SA	up to 2,2 m
270/390 SB	up to 7,0 m*

N.B: For the special guarantee PLATINUM see general sales conditions on page 125

***Over 1,8 mt (2,2 m for Full Tank/Half Tank 200) SEA recommends to use versions without lock(SB) but with eletrolock**

Lyra
HYDRAULIC DEVICE +
CENTRAL - UP TO 800 Kg

800 CP AC	up to 2,0 m
800 AC	up to 2,0 m
800 CP SB	up to 4,0 m
800 SB	up to 4,0 m

Jack
800 CP AC
800 CP SB

pag. 38

Jack
800

Lyra
AC
SB

Field
ELECTROMECHANICAL

220V	Max 350 kg	up to 2,5 m
24V	Max 350 kg	up to 2,5 m
OIL	Max 600 kg	up to 3,5 m
FAST OIL	Max 200 kg	up to 1,5 m
24V OIL	Max 600 kg	up to 3,5 m

pag. 37

Compact
HYDRAULIC COMPACT VERSIONS

400 AC	Max 400 kg	up to 2,0 m
400 SB	Max 400 kg	up to 4,0 m *
800 AC	Max 800 kg	up to 2,0 m
800 SB	Max 800 kg	up to 4,0 m

pag. 39

Compact
ELECTROHYDRAULIC 24V COMPACT VERSION

800 AC	Max 800 kg	up to 2,0 m

pag. 40

***N.B: Over 2 m SEA recommends to use versions without lock (SB) but with electrolock**

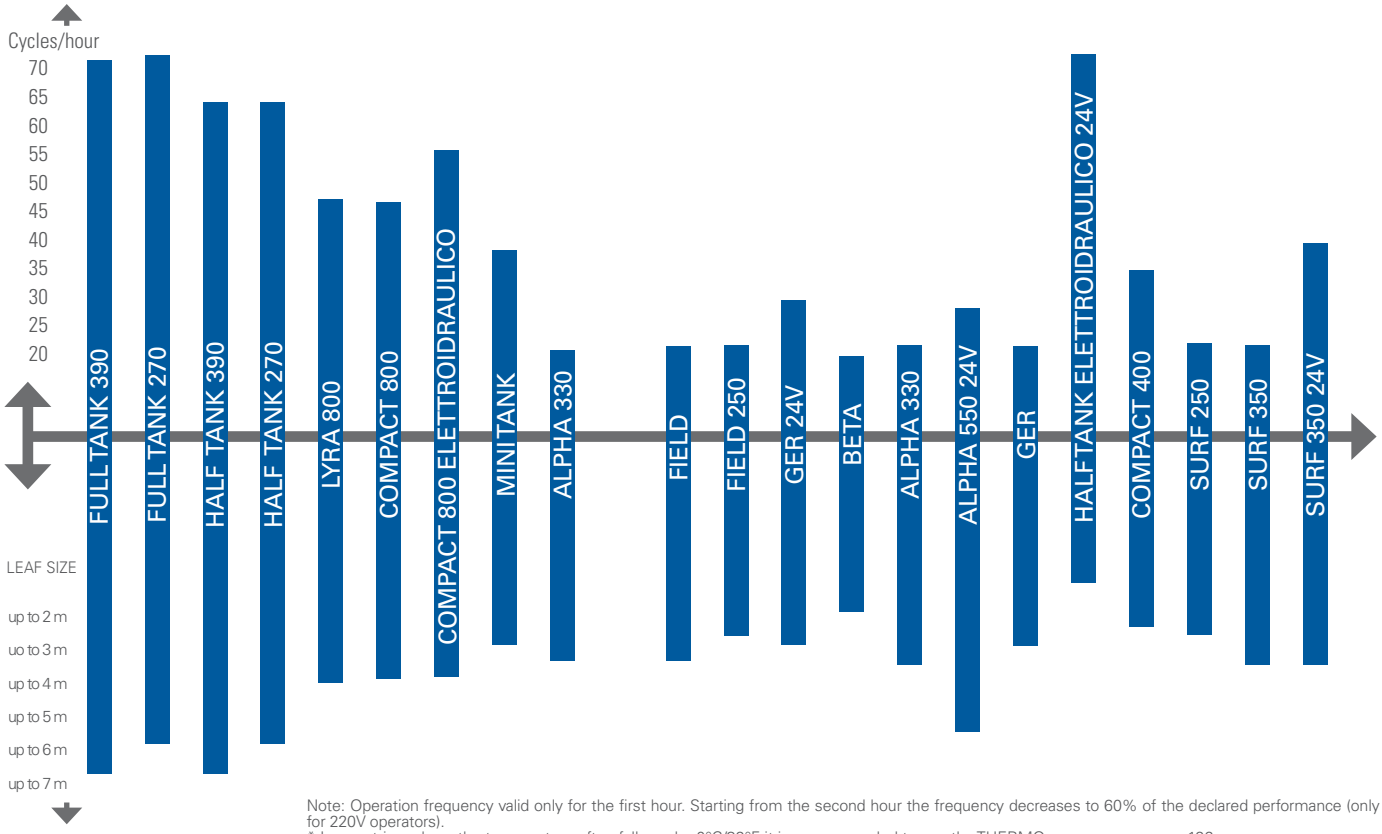
Technical Specifications

SPECIFICATIONS	MINI TANK	HALF TANK 270 / 390 HT ELECTROHYDRAULIC	FULL TANK 270 / 390	GER 230 V AC	BETA 24V	SURF 250 / 350 SURF 250 / 350 24V
Power supply	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±10% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor Power	180 W	220 W / 40 W	220 W	200 W	48 W	180 W / 70W
Shaft Stroke	270 mm	270 / 390 mm	270 / 390 mm	-	290 mm	*400 mm
Cycles/Hour Max	40	55/70	70	15	5	15/ 25
Operating temp*	-40°C /+ 60°C	-40°C /+ 60°C -20°C /+ 55°C	-20°C /+ 55°C	-20°C /+ 55°C	-20°C /+ 55°C	-20°C /+ 50°C
Weight	10 kg	11,4 / 13,6/15 kg	12,8 / 15,2 kg	11,5 kg	3,4 kg	7,5/7,8 kg
Max leaf length	3,0 m	6,0(HT 270) / 7,0 m (HT 390)	6,0 / 7,0 m (FT 390)	3,0 m	2,0 mt	2,5 / 3,5 mt
Opening degrees	90°- 110°	90°- 125°	90°- 125°	90°- 125°	90°- 110°	90°- 120°
Shaft speed	1,5cm/sec (1L pump)	1 cm / sec (1L pump) 1,5cm / sec (1,5L pump)	1 cm/sec (1L pump) 1,5cm/sec (1,5L pump)	-	1,7cm / sec	adjustable (24V) 1,6 cm / sec
Protection class	IP55	IP55	IP55	IP44	IP54	IP44
Starting capacitor	6,3µF	12,5µF/-	12,5µF	16/ - µF	-	6,3µF / -/ -
Max thrust	250 Nm	640 Nm	640 Nm	-	1550 daN	2000 daN

When choosing the operator it is necessary to decide which type of lock you desire to have on the gate (opening and closing, only in opening, without lock)
* with electronic limit switch in openig and closure

OPERATOR	AC (double lock)	SB (without lock)	SC (lock only in closure)	SA (lock only in opening)
MINI TANK	•	•	•	-
HALF TANK - FULL TANK	•	•	•	•
LYRA800	•	•	-	-
HT ELECTROHYDRAULIC COMPACT 800 ELECTOHYDRAULIC	•	-	-	-
COMPACT 800	•	•	-	-
COMPACT 400	•	•	-	-

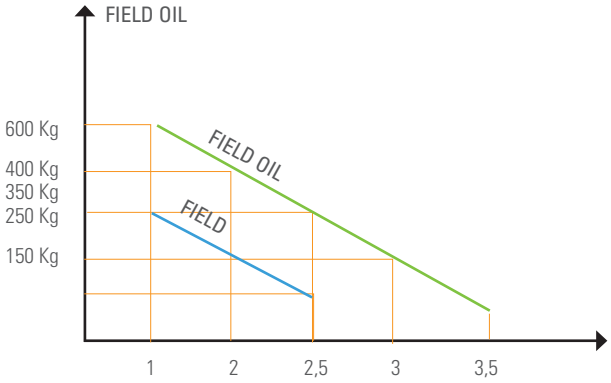
(•) lock available (-) lock not available
N.B: In case of installations in very windy places or with closed panelled gates SEA recommends to choose operators without lock (SB)

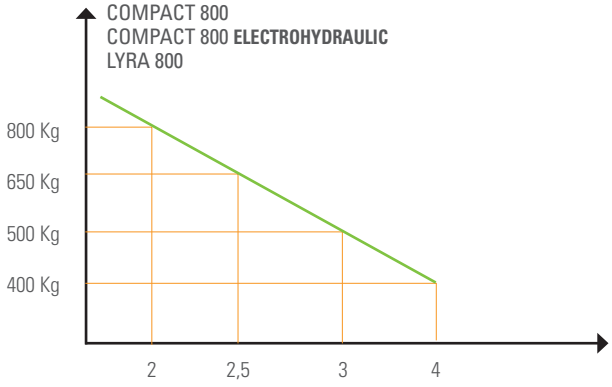


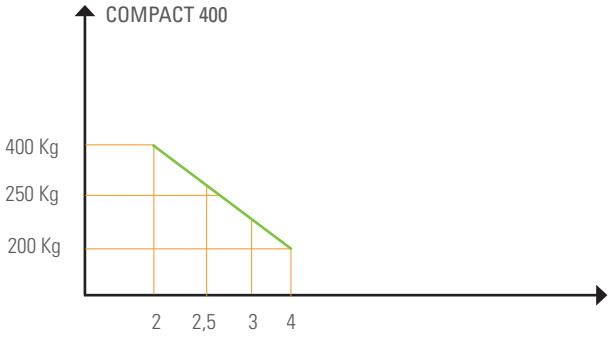
Note: Operation frequency valid only for the first hour. Starting from the second hour the frequency decreases to 60% of the declared performance (only for 220V operators).
* In countries where the temperature often falls under 0°C/32°F it is recommended to use the THERMO accessory on page 126.
* When using the control unit with NOT AUTOMATIC logic or with TIMER do not install hydraulic products with lock.
Note: Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V oper.)
In case of installations in cold countries it is recommended to install the heater THERMO for both hydraulic and oil bath products.

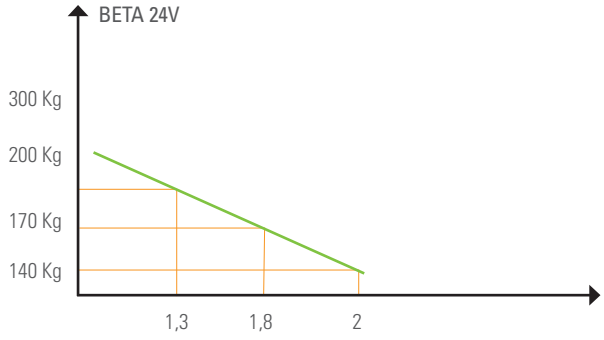
Technical Specifications

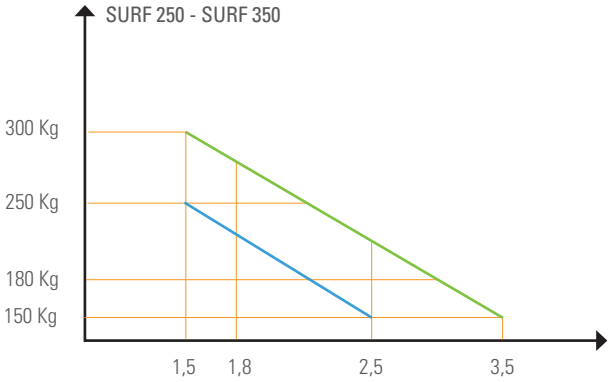
SPECIFICATIONS	ALPHA 330	ALPHA 550 24V/CC	Field 24V dcc Oil Field 230 Vac Oil Field 230 Vac Fast Oil	Field	Lyra 800 Lyra 800 CP	Compact 400/ Compact 800/ Compact 800 electrohydraulic	Flipper 24V
Power supply	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor Power	260 W	70 W	150/310/380 W	280 W	220 W	220/40 W	40 W
Shaft Stroke	400 mm	550 mm	-	-	-	-	-
Cycles/Hour Max	20/40 (24V)	40	50/20/20	15	45	30/45	20
Operating temp*	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	9,5 kg	11 kg	13/12,5/12,5 kg	12 Kg	8 kg	11,6/13,8 kg	8 kg
Max leaf length	3,3 mt	5,5 mt	3/3,5/1,6 m	3 m	4,0 mt	3,0/4,0 mt	2, 0 mt
Opening degrees	90°- 120°	90°- 120°	110 °- 180° optional	110 °- 180° optional	100°- 180°	140°/180°	110°
Shaft speed	1,7 cm/sec	1,7 cm/sec	-	-	-	-	-
Angle speed	-	-	3°- 6°/5°/10°/sec	6°/sec	7°/sec	10°/sec-7°/sec-7°/sec	12°/sec
Protection class	IP44	IP54	IP67	IP67	IP67	IP67	IP24
Starting capacitor	6,3 µF	-	10/12,5 µF	10 µF	12,5µF	12,5 µF/-	-
Max. thurst	350 daN	170 daN	300/300/200 Nm	250 Nm	56 daN	20/56/56 daN	-

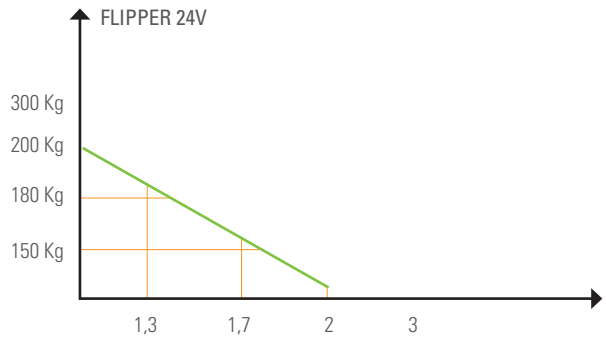












(*) Depending on the chosen model
N.B: 1 -In case of installations in very windy places or with closed panelled gates SEA recommends to choose operators without lock (SB).
2 - Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V operators)(**) In case of installations in cold countries it is recommended to to install the heater THERMO accessory on page 126
(***) When using the control unit with NON AUTOMATIC logics and with Trimmer do NOT use hydraulic products with lock

Mini Tank

HYDRAULIC SWING GATE OPERATOR FOR RESIDENTIAL USE OR SMALL CONDOMINIUM FOR LEAF LENGTHS UP TO MAX 3 M

- Oil lubrication of all mechanical components
- Extremely silent and hydraulic reliability
- Available versions: (SC) with lock in closing, (SB) without lock and (AC) with double lock with a maximum stroke of 270mm.
- Internal mechanical- electronic stop for best operation in limit switch position (optional)
- Operator with external, hydraulic locks for easy replacement
- Rod cover fixing without ties
- Operator prepared for external release with box and cable
- Models with ball joint on the TOP (AC) - (SC) - (SB) versions available.
- On request MINI TANK SC pedestrian version with a stroke of 170 mm.
- 16mm stem diameter .
- Swinging back fixing fork (optional in luminum)

Internal mechanical and electronic stops kit for the optimal operation of limit switches (optional)

Metal release system PLUS, accessible through lock for max security (optional)

Bypass Valves

Round joint for stroke adjustment (only versions MINI TANK TOP)

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
10103505	**MINI TANK 270 AC**	400	1,8	120°	40	40	16	32
10111505	**MINI TANK 270 SC**	400	1,8	120°	40	40	16	32
10101505	**MINI TANK 270 SB**	400	3,0	120°	40	40	16	32
10112035	**MINI TANK DOUBLE SC**	400	1,8	120°	40	12	10	20
10102005	**MINI TANK DOUBLE SB**	400	3,0	120°	40	12	10	20
10103010	**MINI TANK DOUBLE AC**	400	1,8	120°	40	12	10	20
10111030	**MINI TANK DOUBLE PLUS SC**	400	1,8	120°	40	12	10	20
10101015	**MINI TANK DOUBLE PLUS SB**	400	3,0	120°	40	12	10	20
10103005	**MINI TANK DOUBLE PLUS AC**	400	1,8	120°	40	12	10	20
10103135	**MINI TANK AC TOP** with round joint	400	1,8	120°	40	40	16	32
10112060	**MINI TANK SC TOP** with round joint	400	1,8	120°	40	40	16	32
10101525	**MINI TANK SB TOP** with round joint	400	3,0	120°	40	40	16	32

N.B: The versions DOUBLE are with n°2 operators and one SWING 2 control unit + 433 Mhz receiver
The PLUS versions are equipped with GATE 2 DG control unit + 433 MHz receiver

ACCESSORIES

12715115

PSM mechanical stop kit

12710060

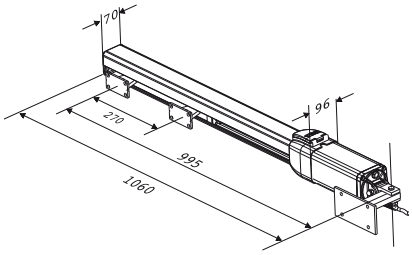
SECHT external release kit with box, lock and 2,5 m cable

65000045

OILH green oil for hydraulic motors (5 liters)

12710345

HTLOCK manual release PLUS with lock



23105345(*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

12715070

BRA adjustable back bracket to screw n.2 pcs

12715270

LSMT270 ki mechanical/ elettronic limit switch for HT 270

12710855

Aluminium oscillating back fixing fork

(*) in case of side wall

Half Tank

HYDRAULIC SWING GATE OPERATOR FOR CONDOMINIUM USE MAX LEAF LENGTH 7M

- Oil lubrication of all mechanical components
- Extremely silent and hydraulic reliability
- Anti crushing guaranteed through by-pass valves for max. thrust setting
- On request version with hydraulic slowdown only in closing or in opening/closing.
- Version (AC) with lock in closing and opening, (SB) only in closing), (SC) only in closing, (SA) only in opening or (SB) without lock
- 270mm or 390mm stroke.
- Optional mechanical - electronic stops Kit
- 20mm rod diameter
- Standard ball joint on all versions for precise adjustment of the stroke
- Aluminium standard oscillating back fixing fork
- PLUS metal release standard on 390 versions and optional on 270 versions

Internal mechanical and electronic stops kit for the optimal operation of limit switches (optional)

Metal release system PLUS, accessible through lock for max security (optional)

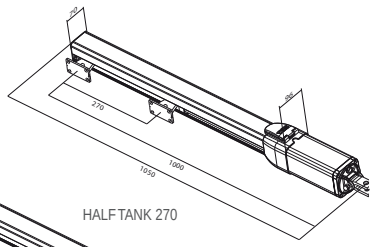
Round joint for stroke adjustment

R IDRO

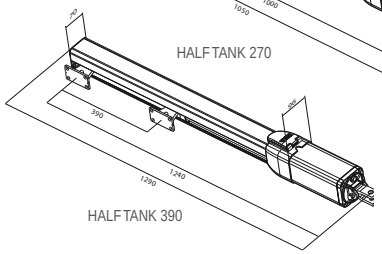
On request versions with hydraulic slowdown for a smooth approach of the leaves in closing

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
10401026	HALF TANK 270 AC	700	1,8	120°	55	40	16	32
10431006	HALF TANK 270 SC	700	1,8	120°	55	40	16	32
10411011	HALF TANK 270 SA	700	6,0	120°	55	40	16	32
10421026	HALF TANK 270 SB	700	6,0	120°	55	40	16	32
10401051	HALF TANK 270 DOUBLE AC	700	1,8	120°	55	12	10	20
10421041	HALF TANK 270 DOUBLE SB	700	6,0	120°	55	12	10	20
10501036	HALF TANK 390 AC*	700	2,2	120°	55	40	16	32
10531006	HALF TANK 390 SC*	700	2,2	120°	55	40	16	32
10511011	HALF TANK 390 SA*	700	7,0	120°	55	40	16	32
10521016	HALF TANK 390 SB*	700	7,0	120°	55	40	16	32

N.B: Double version include GATE 2 ROLL control unit + 433 MHz receiver and n° 2 HT LOCK PLUS metal release with lock
*With metal PLUS release



HALF TANK 270



HALF TANK 390

ACCESSORIES

12715105

PS270 Kit mechanical stop for HALF TANK 270

12715110

PS390 Kit mechanical stop for HALF TANK 390

12710060

SECHT external release kit with box, lock and 2,5 m cable

12710345

HTLOCK metal release PLUS with lock

23105345(*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

12715070

BRA Adjustable back bracket to screw n.2 pcs

65000045

OILH green oilfor hydraulic motors (5 liters)

12710490

LSHT270 ki mechanical/ elettronic limit switch for HALF TANK 270

12710495

LSHT390 ki mechanical/ elettronic limit switch for HALF TANK 390

(*) in case of side wall

Half Tank 24V

LOW VOLTAGE (24V) HYDRAULIC SWING GATE OPERATOR MAX LEAF LENGTH 5M

- Oil lubrication of all mechanical components
- Noiseless and hydraulic reliability
- High anti-crushing safety thanks to the control unit with amperometric detection.
- Force and slowdown adjustment on USER 2 - 24V DG HYDRO control unit
- (AC) Versions with lock in opening and closing
- Emergency batteries and solar panel SUNNY KIT for recharge can be applied
- Standard, mechanical and electronic limit switches in opening and closing
- Standard PLUS metal release system
- 20mm rod diameter.
- Standard aluminum oscillating back fixing fork

Internal mechanical and electronic stops kit for the optimal operation of limit switches

Metal release system PLUS, accessible through lock for max security

Round joint for stroke adjustment

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
10403000	HALF TANK AC 270 24V DC	700	1,8	120°	70	40	16	32
10503000	HALF TANK AC 390 24V DC	700	2,2	120°	70	27	16	32

NB: Complete with mechanical and eletronic stops and metal release
N.B. l'installation through JOLLY is recommended

ACCESSORIES

23106305

BAT7
battery kit with box (7AH)

12715070

BRA Adjustable back bracket to screw n.2 pcs

65000045

OILH green oil for hydraulic motors (5 liters)

23105276

JOLLY palm for control unit DG functions management

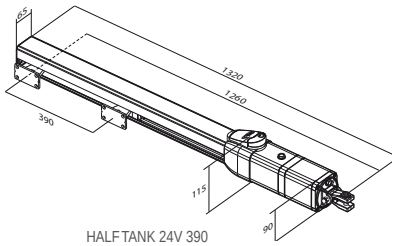
23101105

ESUN solar panel's control unit and battery - charger

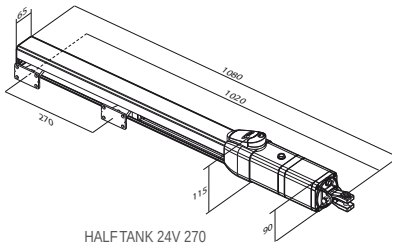
23106370(*)

Kit SUNNY
20W solar panel +
control unit +battery

NB: 23101105 to combine with 23106305 (*)KIT SUPER SUNNY for more power



HALF TANK 24V 390



HALF TANK 24V 270

Full Tank

HYDRAULIC SWING GATE OPERATOR FOR CONDOMINIUM /INDUSTRIAL USE FOR LEAF LENGTHS UP TO 7M

- Oil lubrication of all mechanical components
- Noiseless and hydraulic reliability
- Anti crushing guaranteed through by-pass valves for max. thrust adjustment
- 270mm or 390mm stroke
- Available versions with hydraulic slowdown in closing (on request also adjustable)
- Versions (AC) with lock in opening and closing, (SC) only in closing, (SA) only in opening, (SB) without lock.
- 20mm rod diameter
- Standard, oscillating aluminium fork back fixing
- Hydraulic distributer out of strong aluminium

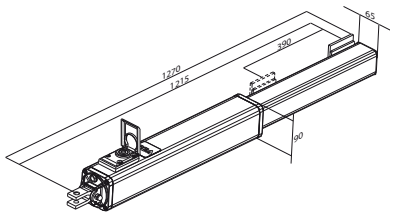
Release with lock in case of eletric power cut

Round joint for stroke adjustment

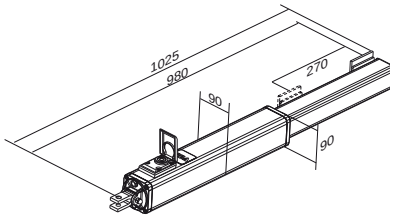
On request versions with hydraulic slowdown for a smooth approach of the leaves in closing

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
10601005	FULL TANK 270 AC	1000	1,8	120°	70	40	16	32
10631005	FULL TANK 270 SC	1000	1,8	120°	70	40	16	32
10611005	FULL TANK 270 SA	1000	7,0	120°	70	40	16	32
10621010	FULL TANK 270 SB	1000	7,0	120°	70	40	16	32
10601060	FULL TANK 270 DOUBLE AC	1000	1,8	120°	70	12	10	20
10621050	FULL TANK 270DOUBLE SB	1000	7,0	120°	70	12	10	20
10701010	FULL TANK 390 AC	1000	2,2	120°	70	27	16	32
10731005	FULL TANK 390 SC	1000	2,2	120°	70	27	16	32
10711005	FULL TANK 390 SA	1000	7,0	120°	70	27	16	32
10721005	FULL TANK 390 SB	1000	7,0	120°	70	27	16	32

N.B: DOUBLE version includes GATE 2 ROLL control unit + 433 MHz receiver



FULL TANK 390



FULL TANK 270

ACCESSORIES

12715105

PS270 Kit mechanical stop for FT 279

12715110

PS390 Kit mechanical stop for FT 390

12715070

BRA Adjustable back bracket to screw n.2 pcs

23105345(*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

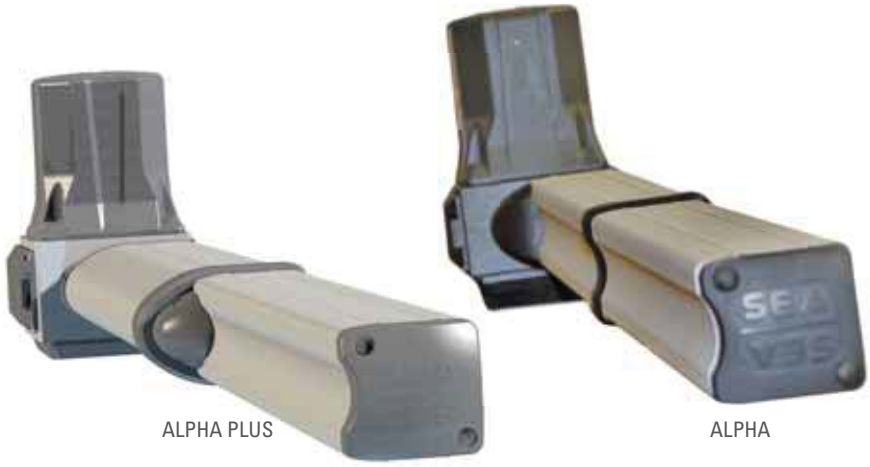
65000045

O ILH green oil for hydraulic motors (5 liters)

(*)in case of opening with lateral wall

Alpha 330 - 550

ELECTROMECHANICAL SWING GATE OPERATOR
NON REVERSING, STRONG, SECURE AND EASY TO INSTALL



ALPHA PLUS ALPHA

- High quality electromechanical operator for leaf lengths of max. 5,5m.
- 230V or 24V available, in the versions: standard and PLUS
- Strong die-cast aluminum body for longer life
- Simple and fast installation, thanks to a front lid hiding the power cable terminal.
- Two models available: 330 for max. leaf length of 3,3m and 550 for max. leaf length of 5,5m.
- Cables and capacitors inside the operator, reachable through front lid
- On request adjustable, mechanical stop in opening and closing Kit (only for basic version) Recommended in case of no limit stops on the ground
- Emergency batteries and KIT SUNNY solar panel for recharge can be applied (Optional for ALPHA 550 24V)
- Standard, oscillating aluminium fork back fixing
- Stainless steel rod
- On request version without housing for installations closer to the gate tip
- Optional, oscillating aluminium fork back fixing (standard on ALPHA 550)

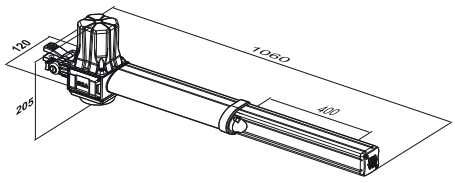
Release with key (serialon PLUS version, optional on the basic version)

Adjustable, electronic limit switch (only PLUS version)

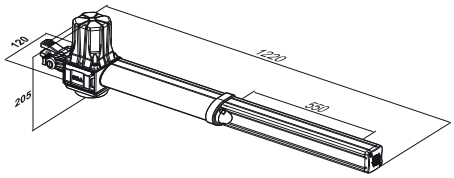
Release with SEA personalized key (standard version)

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
10933230D-1	**ALPHA 330** right	330	3,3	120°	20	24	16	32
10933230S-1	**ALPHA 330** left	330	3,3	120°	20	24	16	32
1093323PD-1	**ALPHA 330 PLUS** right	330	3,3	120°	20	24	16	32
1093323PS-1	**ALPHA 330 PLUS** left	330	3,3	120°	20	24	16	32
10955230D-1	**ALPHA 550** right	550	5,5	120°	20	27	-	-
10955230S-1	**ALPHA 550** left	550	5,5	120°	20	27	-	-
1095524PD-1	**ALPHA 550 24V DC PLUS** right	550	5,5	120°	20	27	-	-
1095524PS-1	**ALPHA 550 24V DC PLUS** left	550	5,5	120°	20	27	-	-

N.B: PLUS version is provided with electronic limit switch with micro switch and release lever with lock



ALPHA 330



ALPHA 550

ACCESSORIES

23106305

BAT7
battery kit with box (7AH)

12715070

BRA Adjustable back bracket to screw n.2 pcs

23105345(*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

10900230

ENCALPHA Encoder kit for ALPHA 230V

12710306

PSA Kit mechanical stop for ALPHA 330

23106370(**)

Kit SUNNY
20W solar panel + control unit +battery

23101105

ESUN solar panel's control unit and battery -charger

12715100

KEY ALPHA release key (for ALPHA basic)

12710855

Aluminium oscillating back fixing fork

NB: ESUN 23101105 to combine with BAT7 23106305 (*)in case of opening with lateral wall (*) KIT SUPER SUNNY for more power

Beta 24V

ELECTROMECHANICAL SWING GATE OPERATOR
NON REVERSING 24V LOW TENSION FOR RESIDENTIAL USE

- Ideal for swing gates of small dimensions (2 m or 200Kg) with few opening cycles/ day
- Simple, secure and easy to install
- Adjustable back fixings with holes for easy installation
- 24V DC power supply for max. safety and easy adjustment during installation
- Slowdowns in opening and closing with control units (USER 2-24V DG)
- Reversing on obstacle through amperometric system on control unit
- Emergency batteries and KIT SUNNY solar panel for recharge can be applied
- On request BETA FM version with standard mechanical stops

Release with personalised key accessible through door

Adjustable, mechanical limit switch in opening and closing (standar on BETA FM versions)

Adjustable back fixing with holes

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
11001005	BETA 24V	200	2,0	110	20	80	-	-
11002020	BETA DOUBLE 24V	200	2,0	110	20	12	12	20
11002025	Kit BETA 24V	200	2,0	110	20	12	12	20

Note: BETA FM version available on request

ACCESSORIES

23105276

JOLLY palm for Control Unit DG functions management

23106305

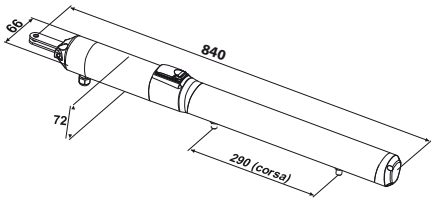
BAT7
battery kit with box (7AH)

23101105

ESUN solar panel's control unit and battery -charger

23106370(*)

Kit SUNNY
20W solar panel +
control unit +battery



NB: ESUN 23101105 to combine with BAT7 23106305

(*) KIT SUPER SUNNY for more power

Surf 250 / 350

ELECTROMECHANICAL SWING GATE OPERATOR
FOR LEAF LENGTH UP TO 3,5M OR MAX. 300KG WEIGHT

- Robust, electromechanical operator with die-cast aluminium body, weather resistant polyester paint.
- Outside release with cable and safety box (optional only for X versions)
- Versatile: 230V or 24V low tension power supply.
- Convenient terminal in a separate compartment for cabling
- X version equipped with mechanical and electronic limit switches and metal release lock.
- Adjustable back fixing with holes
- Emergency batteries and recharge solar panel KIT SUNNY (Surf 24V) can be applied
- Operator with small width for installations also in reduced spaces
- Reversing version available
- Robust endless screw supported by bearings for max. resistance

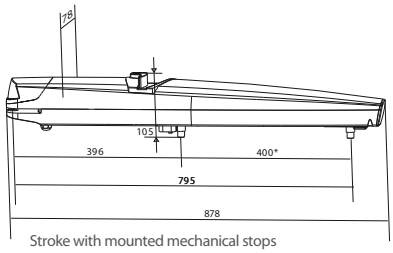
Metal manual release
(standard series X)

Mechanical/electroni stops
(standard series X)

Gears with bearings

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
11005020	SURF 250 X	250	2,5	120°	15	36	16	32
11005010	SURF 250 24V	250	2,5	120°	25	36	16	32
11005000	SURF 250	250	2,5	120°	15	36	16	32
11005085	SURF 350	300	3,5	120°	20	36	16	32
11005060	SURF 350 reversibile	300	3,5	120°	20	36	16	32
11005070	SURF 350 X	300	3,5	120°	20	36	16	32
11005065	SURF 350 24V X	300	3,5	120°	25	36	16	32
11005075	SURF 350 X con encoder	300	3,5	120°	20	36	16	32

NB: X with mechanical and electronic limit switch to combine with limit switch's management control unit (GATE or USER) and manual release with metal lock



Stroke with mounted mechanical stops

ACCESSORIES

23106305

BAT7
battery kit with box (7AH)

23105276

JOLLY palm for Control Unit DG functions management

12715235

PSS mechanical stops (2pcs)

12715200

SECSURF external release (box + 2,5 m cable)

23101105

ESUN solar panel's control unit and battery -charger

23106370(*)

Kit SUNNY
20W solar panel +
control unit + battery

12715265

BRASU adjustable banck fixtion bracket no welding (2 pcs)

12715205

KEY SURF metal lock cylinder with key and lever for release

12710805

BRASS back attacks before joined with holes for SURF

NB: ESUN 23101105 to combine with BAT7 23106305

(*) KIT SUPER SUNNY for more power

Flipper

ELECTROMECHANICAL NON REVERSING **SWING GATE OPERATOR** FOR LARGE PILLARS AND LEAF LENGTH UP TO 2M OR MAX. 200KG WEIGHT

Adjustable mechanical and electronic limit switches in opening and closing

Release system through aluminium lever and safety lock

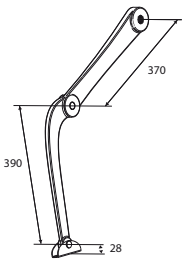
- Suitable for installations where the dimension between gate pivot and fixing wall is less than 23cm
- Width of max. 16,5cm for installations in reduced spaces
- Standard mechanical and electronic limit switches on FLIPPER PLUS
- Mechanical limit switch in opening (KIT FLIPPER DOUBLE, BASIC version)
- Release with personalized key (Metal lock FLIPPER PLUS)
- Emergency batteries Integrable into the operator to ensure operation in case of power cut (Special batteries compartment)
- Micro-switch for stop function in case of release activation during service (Optional on KIT FLIPPER DOUBLE 24V BASIC)
- Low tension version (24V) available for max. safety during operation and for easy adjustment of the approach speed and electronic obstacle detection
- Separate central unit compartment. USER 2-24V DG control unit, programmable with display
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied
- Optional external release with stainless steel cable and safety box
- On request longer arm out of steel and sliding arm for side wall installation

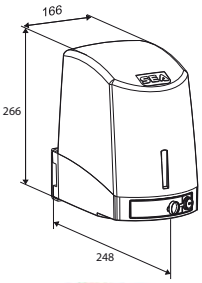
CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
10854110	**FLIPPER DOUBLE BASIC**	200	2,0	120°	20	12	8	16
10854005-1	**FLIPPER SLAVE PLUS***	200	2,0	120°	20	12	8	16
10854000-1	**FLIPPER MASTER PLUS****	200	2,0	120°	20	12	8	16

* Without control unit with articulated arm **With control unit and articulated arm
NB: KIT FLIPPER DOUBLE 24V BASIC without microswitch on release lever with mechanical limit switch in opening , provided with manual release with nylon lock KIT FLIPPER PLUS are provided of manual release with metal lock of line . The PLUS version are provided of mechanical and electronic limit switch and micro on release's lever

12710810

Long arm for FLIPPER





ACCESSORIES

23106305

BAT7 battery kit with box (7AH)

23105276

JOLLY palm for control unit DG functions management

12710412

LSFM kit mechanical limit switch in opening and closing for one FLIPPER DOUBLE 24V BASIC

12710610

Lock with key DIN and lock cover for FLIPPER DOUBLE 24V BASIC

12710615

Lock cover for basic lock for FLIPPER DOUBLE 24V BASIC

23106340

BAT 1,2 small batteries for FLIPPER 1,2 AH

23101105

ESUN solar panel's control unit and battery - charger

23106370(*)

Kit SUNNY 20W solar panel + control unit +battery

12710470

SECFL external release kit (with lock case and 2,5 m cable)

12710219

CLI sliding arm for opening in case of wall side (for one motor)

12710410

LSFL er KIT mechanical/ electronic limit switch for FLIPPER DOUBLE 24V BASIC

12710475

MSFL Microswitch lock for kit FLIPPER DOUBLE 24V BASIC

NB: ESUN 23101105 to combine with BAT7 23106305

(*) KIT SUPER SUNNY for more power

Ger

ELECTROMECHANICAL, RESIDENTIAL SWING GATE OPERATOR FOR LARGE PILLARS AND LEAF LENGTH UP TO 3M

- Ideal for gates with large pillars
- Suitable for installations where the dimension between gate pivot and fixing wall is less than 38cm
- Release with personalized key
- Simple and quick installation
- Low tension version (24V) available for max. safety during operation and for easy adjustment of the approach speed and electronic obstacle detection
- Optional encoder kit for reversing on obstacle (220V)
- Optional stop micro-switch in opening and closing for quick and punctual leaf adjustment

Jointed arm

Internal foto

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	MAX OPENING DEGREE	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
1131023DX	**GER DX***	400	3,0	125°	15	45	16	32
1131023SX	**GER SX***	400	3,0	125°	15	45	16	32
1131024DX	**GER 24V DX***	400	3,0	125°	15	45	16	32
1131024SX	**GER 24V SX***	400	3,0	125°	15	45	16	32

* Without control unit with articulated arm

ACCESSORIES

23106305

BAT7 battery kit with box (7AH)

23106370(*)

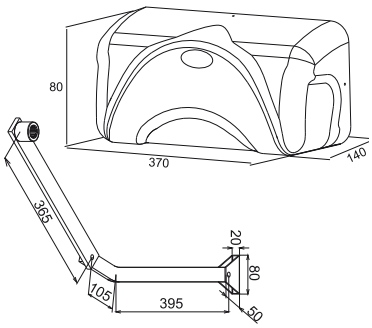
Kit SUNNY 20W solar panel + control unit + battery

12710135

LSGER limit switch for GER motor 220V

11303005

ENCGER encoder kit for GER motor 220V



23101105

ESUN solar panel's control unit and battery -charger

NB: ESUN 23101105 to combine with BAT7 23106305

Field • Field Oil

ELECTROMECHANICAL UNDERGROUND NON REVERSING **OPERATOR IN OIL BATH** FOR RESIDENTIAL SWING LEAVES WITH SINGLE-LEAF LENGTH OF 3,5M OR 600KG MAX. WEIGHT

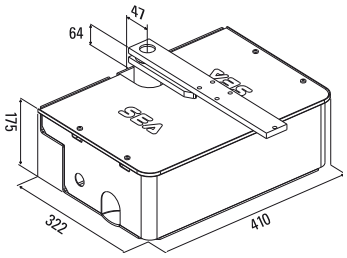
- Noiseless, secure and reliable
- Oil bath lubrication of the gears for longer life (only FIELD OI L)
- Slow or fast also 24V low tension versions available for max. operation safety.
- Adjustable slowdown in opening and closing through GATE / USER control units
- Right/ left
- Cataphoresis treated foundation box
- On request stainless steel foundation box available
- Adjustable mechanical stops in closing and opening (optional in opening on FIELD)*
- Electronic limit switch kit optional only if combined with a control unit with limit switch administration (GATE 2 D G or USER 2-24V D G)
- On request 180° version with chain transmission available
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied. (for FIELD 24V)
- OIL version with sturdy gear crown out of processed stee

Adjustable mechanical stop in opening and closing

Plus release with lever and security lock

CODE	NAME	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	OPENING TIME	MAX CYCLES/ HOUR	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
12300240	**FIELD***	250	2,5	20 sec/90°	15	45	16	32
12300006	**FIELD 24V***	250	2,5	Adjustable	25	45	16	32
12300215	**FIELD OIL****	600	3,5	20 sec/90°	20	45	16	32
12300010	**FIELD 24V OIL****	600	3,5	Adjustable	40	45	16	32
12300220	**FIELD FAST OIL****	200	1,5	10 sec/90°	30	45	10	32
12301065	**FIELD DOUBLE***	250	2,5	20 sec/90°	15	45	8	16
12301030	**FIELD DOUBLE OIL****	600	3,5	20 sec/90°	20	45	8	16
12301090	**FIELD DOUBLE 24V***	250	2,5	Adjustable	25	45	8	16
12301025	**FIELD DOUBLE 24V OIL****	600	3,5	Adjustable	40	45	8	16

* Versions with mechanical stops in closing
** Versions with mechanical stops in closing and opening



FIELD OIL DOUBLE
FIELD OIL 24 V DOUBLE
PACKAGE

N.2 In-ground operators FIELD OIL (or FIELD OIL 24 V)
N.2 Box with accessories
N.2 Release system
N.1 Mounting instructions and general notice
N.1 Warning sign-board
N.1 Control unit GATE 2 DG
(USER 2 24V DG for FIELD 24V)

ACCESSORIES

23106305

BAT7 battery kit with box (7AH)

65000055

OILGS yellow oil for FIELD/SATURN (5 L)

23105345(*)

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

12715245

Electronic limit switches (only central units with limit switch)

12300315

BOXFI stainless steel box for FILED pre-set for adjustable opening/ closing stops

12300305

BOXF cataphoresis treated box for FIELD pre-set for adjustable opening/ closing stops

12715210

PSFO mechanical stops in opening for FIELD DOUBLE

23101105

ESUN solar panel's control unit and battery -charger

23106370(*)

Kit SUNNY 20W solar panel + control unit +battery

12710275

LOCKINTP release PLUS with cylinder and key

12710270

LOCKINTS basic release

12710400

AP180 kit for opening up to 180° for FIELD (max leaf opening 2 m)

NB: DOUBLE version includes : N.2 operators, N.2 accessories box, N.2 basic release system, N.1 control unit, N.1 433 MHz receiver UNI.
FILED DOUBLE OIL includes N.2 operators, N.2 accessories box, N.2 plus release systems with lock, N.1 control unit , N.1 433 MHz receiver ROLL
NB: ESUN 23101105 to combine with BAT7 23106305 (*) KIT SUPER SUNNY for more power

Lyra,Jack 800 - JACK 800 CP

Gold 3 YEARS WARRANTY

HYDRAULIC UNDERGROUND OPERATOR FOR RESIDENTIAL SWING LEAVES WITH MAX. LEAF LENGTH OF 4M OR 800KG MAX. WEIGHT

- Noiseless and hydraulic reliability
- Version with separate underground hydraulic pump unit and hydraulic jack to be connected with copper tubes
- Oil lubrication of all mechanical components
- Release with personalized key on hydraulic pump unit LYRA in case of electric power cut
- Available versions with adjustable hydraulic slowdown for smooth leaf approach (BRAKE version)
- (Cataphoresis) steel foundation box included in the operators' code number (Jack or Jack CP)
- Available versions: (AC) with double lock or (SB) without lock.
- Lyra 800CP carrying box for easy assistance and release system with key and lever LOCKINTS or LOCKINTP (obligatory accessory)
- On request version without brake and Jack 400 (with or without brake) (see N.B.)

Jack 800

Jack 800 CP (With carrying box)

Force adjustable

Galvanized steel and polyester painted box (included)

CODE	NAME	MAX CYCLES/ HOUR	PUMP (lt)	MAX LEAF LENGTH (M)	OPENING TIME (sec.)	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
12001005	**LYRA Unit AC with box**	45	0,5	2,0	7,0	-	10	20
12002005	**LYRA Unit SB with box**	45	0,5	4,0	7,0	-	10	20

CODE	NAME	MAX CYCLES/ HOUR	ROTATION ANGLE	MAX LEAF WEIGHT (KG)	PCS FOR PALLETS	QX (PZ)	QX1 (PZ)
12015010	**JACK 800 jack brake 100° with box**	45	100°	800	-	10	20
12015050	**JACK 800 jack brake 180° with box**	45	180°	800	-	10	20
12015030	**JACK 800 CP jack brake 100°****	45	100°	800	-	10	20
12015070	**JACK 800 CP jack brake 180°****	45	180°	800	-	10	20

** With carrying box

ACCESSORIES

65000045

OILH green oil for hydraulic motors (5 liters)

12710270

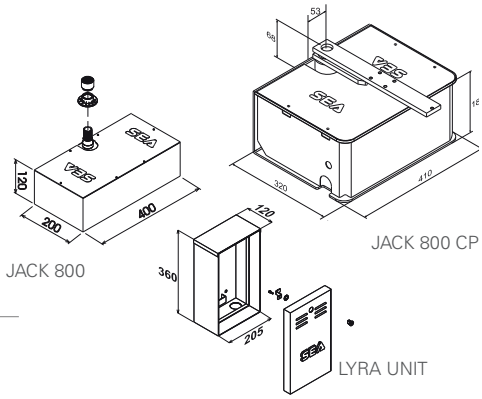
LOCKINTS basic release only for JACK CP

12710275

LOCKINTP release PLUS with cylinder and key only for JACK CP

12710425

PSC adjustable mechanical stops in opening and closing (2 pcs) only for JACK CP



23105345

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

12715020

LOP5 coper pipe Ø 8 (5 mt)

UNIT PACKAGE

N.1 Unit
N.1 Box for unit
N.1 starting Capacitor
N.1 kit mounting accessories
N.1 Mounting instructions and general notice MARTINETTO/CP PACKAGE
N.1 Lyra 800 Jack
N.1 Angular box/ Carrying box
N.1 kit mounting accessories
N.1 Mounting instructions and general notice
N.1 Warning sign-board

NB: Version without box (35 Euros off from price list), version without brake JACK 800 (35 Euros off from price list), version JACK 400 available with brake or without brake
*Not sold on BRAKE version

Compact

HYDRAULIC UNDERGROUND OPERATOR FOR RESIDENTIAL SWING LEAVES WITH MAX. LEAF LENGTH OF 4M OR 800KG MAX. WEIGHT.

- Hydraulic quality and reliability
- Compact version with hydraulic pump and jack
- Oil lubrication of all mechanical components
- Low noise. Operator compatible with old COMPACT foundation box. (on request)
- Release system on leaf with personalized key (basic release)
- PLUS release with safety lock and activation lever
- Additional release on operator
- Adjustable hydraulic slowdown for smooth leaf approach (BRAKE version)
- Adjustable mechanical limit switch in opening and closing inside the foundation box (optional)
- (Cataphoresis) steel foundation box with brushed stainless steel lid
- Stainless steel foundation box on request
- Optional mechanical/electronic limit switch for accurate operation on physical stops

Positive stops

PLUS release with lever and security

CODE	NAME	MAX CYCLES/ HOUR	PUMP (lt)	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
12112105	**COMPACT 400 AC 140°**	30	0,5	400	4,0	45	10	20
12112110	**COMPACT 400 SB 140°**	30	0,5	400	4,0	45	10	20
12120167	**COMPACT 800 AC 140°**	30	0,5	800	4,0	45	10	20
12120175	**COMPACT 800 SB 140°**	30	0,5	800	4,0	45	10	20
12120165	**COMPACT 800 AC BRAKE 140°**	30	0,5	800	4,0	45	10	20
12120170	**COMPACT 800 SB BRAKE 140°**	30	0,5	800	4,0	45	10	20
12121000	**COMPACT 800 AC BRAKE 180°**	30	0,5	800	4,0	45	10	20
12121010	**COMPACT 800 SB BRAKE 180°**	30	0,5	800	4,0	45	10	20

ACCESSORIES

12101055

BOXCI self- carrying box in stainless steel for COMPACT 400/800 and COMPACT 24V

12101060

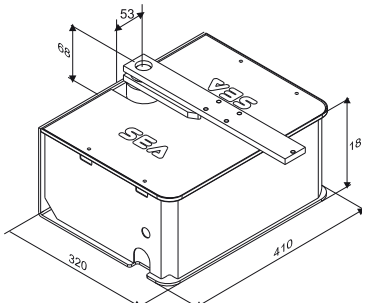
BOXC treated box (cataphoresis) with stainless steel lid

65000045

OILH green oil for hydraulic motors (5 liters)

12710270

LOCKINTS basic release



12710275

LOCKINTP Selease PLUS with cylinder and key

23105345

SAFETYGATE linear encoder kit for 220V swing operator for control units with encoder management (side wall)

23105335

SAFETYGATE encoder kit for 220V swing operator for control units with encoder management

12710425

PSC adjustable mechanical stops in opening and closing (2 pcs)

12710428

PSCE mechanical / eletronic stop (2 pcs) for better slowing down function and optimization work's time

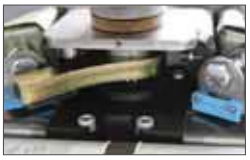
COMPACT 400/800 PACKAGE

N.1 Operator
N.1 Mounting accessories kit
N.1 Starting capacitor
N.1 Mounting instructions and general notice
N.1 Warning sign-board

Note: Gates with leaf lengths over 2m require the use of an electro-lock
*Not sold on BRAKE version

Compact 800 24V

HYDRAULIC UNDERGROUND 24V DC OPERATOR FOR RESIDENTIAL SWING LEAVES WITH MAX. LEAF LENGTH OF 4M OR 800KG MAX. WEIGHT.



Standard mechanical and electronic stops

PLUS release with lever and security

- Hydraulic quality and reliability
- Compact version with 24V hydraulic pump and jack
- Oil lubrication of all mechanical components
- Low noise and max. safety through amperometric obstacle detection and reversing.
- Operator compatible with old COMPACT foundation box. (On request)
- Release system on leaf with personalized key
- PLUS release with safety lock and activation lever
- Additional release on operator
- Slowdown and force adjustment on USER 24V DG HYDRO control unit
- (Cataphoresis) steel foundation box with brushed stainless steel lid
- On request stainless steel or hot galvanized foundation box
- Standard electronic limit switches with mechanical stops
- Optional batteries for operation during power cut
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied.

CODE	NAME	MAX CYCLES/ HOUR	PUMP (l)	MAX LEAF WEIGHT (KG)	MAX LEAF LENGTH (M)	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
12122005	**COMPACT 800 ELECTROHYDRAULIC** AC 110° 24V*	45	1 lt	800	4,0	45	10	20

ACCESSORIES

12101055

BOXCI self- carrying box in stainless steel for COMPACT 400/800 and COMPACT 24V

12101060

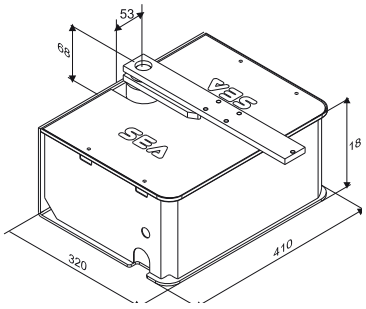
BOXC treated box (cataphoresis) with stainless steel lid

23101105

ESUN solar panel's control unit and battery - charger

65000045

OILH green oil for hydraulic motors (5 liters)



23106370

Kit SUNNY
20W solar panel + control unit + battery

12710270

LOCKINTS
basic release

12710275

LOCKINTP
PLUS release with cylinder and key

23106305(*)

BAT7
battery kit with box (7AH)

NB: ESUN 23101105 to combine with BAT7 23106305

ELECTROHYDRAULIC COMPACT 800 PACKAGE

N.1 COMPACT 800 Electrohydraulic operator
N.1 Starting Capacitor
N.1 Kit mounting accessories
N.1 Customized release key
N.1 Mounting instructions and general notice
N.1 Warning sign-board

KIT SUPER SUNNY for more power

16700025

LOCKELTOP
coupling plate for one leaf gate (horizontal gate)

16700015

CILINT cylinder key for inside applications

16700030
112,00

LOCKEL
electrolock for operators whitout lock 12V

16700020

LOCKELV
coupling plate for two leaves gate
(vertical gate)

16700010

CILEST cylinder key for outside applications

16700045

LOCKELDOWN
Vertical electrolock 220V

16700035

Horizontal coverting
for electrolock mounting

66300119

BYKEY by-pass valves calibration key

16700046

LOCKELDOWN
Vertical electrolock 24 V

16700040

Vertical coverting
for electrolock mounting

16700047

MAGLOCK
magnetic electriclock

Guide to the product

Mercury
WITH GREASE

400	up to 400 Kg
600	up to 600 Kg
800	up to 800 Kg

NATURE FRIENDLY kit Sunny compatible

pag. 45

SATURN
GEARMOTOR IN OIL-BATH

600 OIL	up to 600 Kg
600 G1	up to 600 Kg
600 E (grease)	up to 600 Kg

pag. 46

SATURN
GEARMOTOR IN OIL-BATH

1000 OIL	up to 1000 Kg
1500 24V OIL	up to 1500 Kg
2000 OIL	up to 2000 Kg

NATURE FRIENDLY kit Sunny compatible

pag. 47

BOXER
GEARMOTOR AND REDUCER IN OIL-BATH

1000	up to 2000 Kg
2000	up to 2000 Kg

pag. 48

LEPUS
GEARMOTOR IN OIL-BATH

600	up to 600 Kg
600 Reversing	up to 600 Kg
1600	up to 1600 Kg
2000 TRIFASE	up to 2000 Kg

pag. 49

LEPUS BOX

1600	up to 1600 Kg
REVERSING	up to 1000 Kg

BIG 4000 Three-phase

4000	up to 4000 Kg
4000 INVERTER	up to 4000 Kg

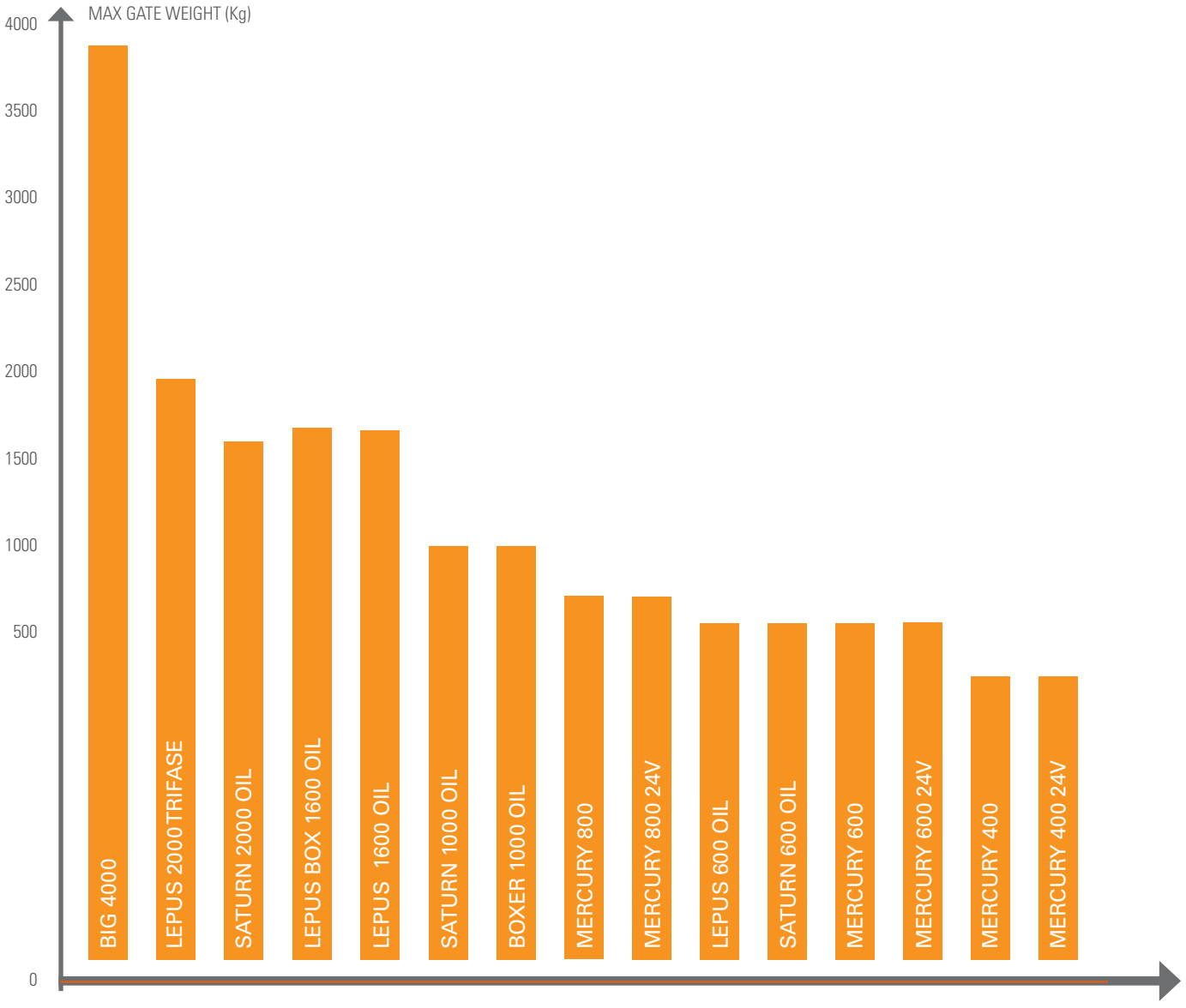
pag. 50-51-52

N.B: On request BOX 6000 version for sliding gates with max 6000 Kg weight

Techical specifications

SPECIFICATION	Mercury 400-600- 800 24 V	Mercury 400-600-800 230V	Saturn 600 OIL	Saturn 1500 OIL 24V	Saturn 1000 OIL Saturn 2000 OIL	Boxer 1000 OIL Boxer 2000 OIL
Supply voltage	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor Power	80W - 110W	320W	330W	150W Dc	550/750 W	550/750 W
Opening speed	regolabile	0,15 m/s	0,15 m/s (z16)	regolabile	0,15 m/s (z16)	0,15 m/s (z16)
Frequency on use	75%	40%- 30%	35%	70%	35%- 30%	55%
Max torque	0- 20 Nm (400) 0-30 Nm (800)	18 Nm (400) 25 Nm (800)	30 Nm	0/65 Nm	55/70 Nm	55/70 Nm
Operating T°	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	7,0 /7,5 Kg	6,8/7,2 Kg	12 Kg	14,5 Kg	13-14,5 Kg	14/15 Kg
Max leaf weight	400--600- 800 Kg	400-600-800 Kg	600 Kg	1500 Kg	1000/2000 Kg	1000/2000 Kg
Anti- crushing clutch	Electronic	Electronic	Mechanical Electronic	Electronic	MechanicalElectronic	Mechanical in oil bath Electronic
Protection class	IP55	IP55	IP55	IP55	IP55	IP55
Starting capacitor	-	8 µf- 10 µf	10µf	-	12,5µf	10/12,5µf
Limit switch	Mechanical*	Mechanical	Mechanical/Inductive	Mechanical/Inductive	Mechanical/Inductive	Mechanical/Inductive
Max leaf length	4m (400Kg) 6 m (600-800 Kg)	4m (400Kg) 6 m (600-800 Kg)	6 m	10 m	10-10 m	10 m

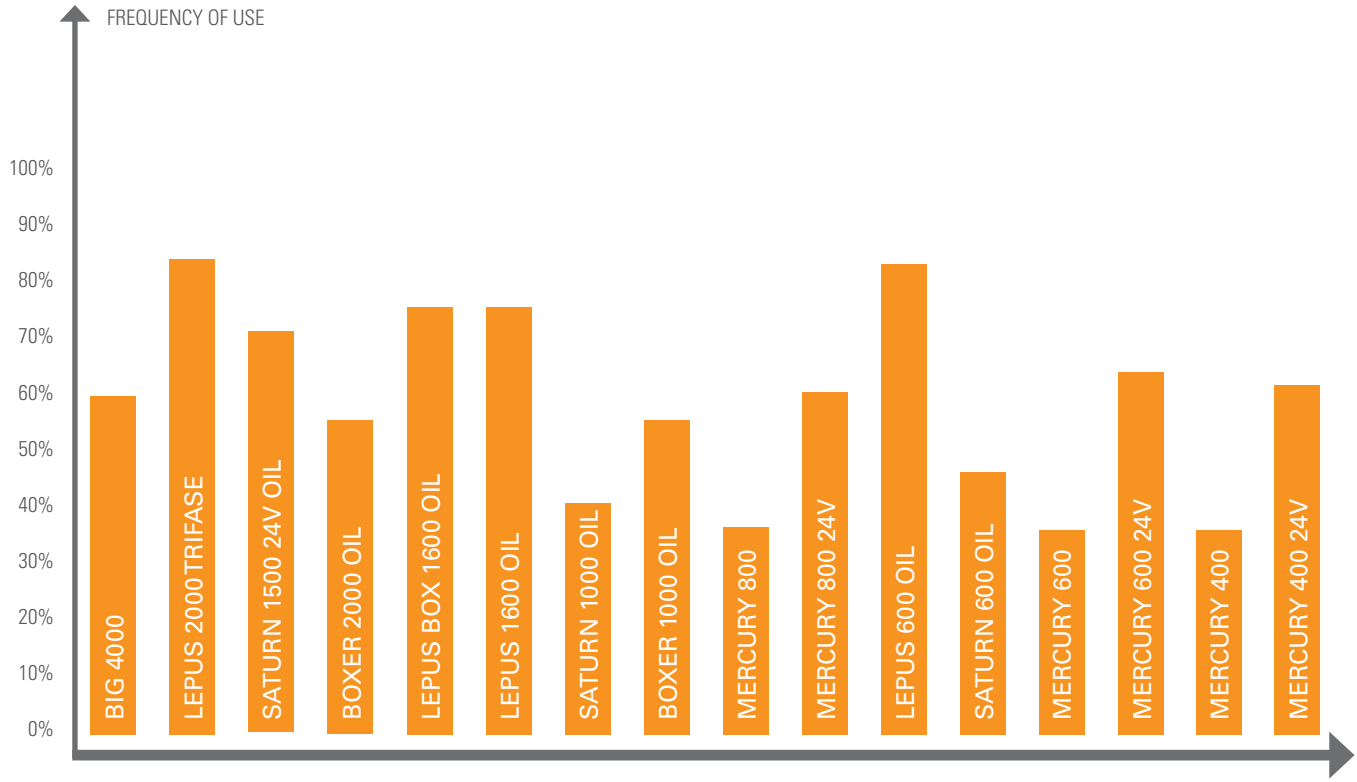
*On request magnetic limit switch



N:B.: Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreasses to the 60% of the declared performance (only for 220V operators)
For countries where the temperature often falls under 0°C/32°F it is recommended to use the THERMO accessory on page 126.
* In case of operation with NOT AUTOMATIC logics or with TIMER it is not recommended to install hydraulic products with lock.

Techical specifications

SPECIFICATION	Lepus 600 - 1600	Lepus 2000 Trifase	Lepus Box 1600	Big 4000 Trifase
Supply voltage	230Vac±5% 50/60Hz	230/380Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230/380Vac±5% 50/60Hz
Motor Power	330 - 450 W	450 W	450 W	900 W
Opening speed	10 m/min	10 m/min	10 m/min	10 m/min
Frequency on use	85-75% (intensive)	80% (intensive)	75% (intensive)	60%
Max torque	50 - 70 Nm	70 Nm	70 Nm	180 Nm
Operating T°	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	15 kg	15,5 kg	35 kg	48 kg
Max leaf weight	600 - 1600 Kg	2000 Kg	1600 Kg	4000 Kg
Anti- crushing clutch	Mechanical in oil-bath Electronic	Mechanical in oil-bath Electronic	Mechanical in oil-bath Electronic	-
Protection class	IP55	IP55	IP55	IP55
Starting capacitor	16/25µF	-	25 µF	-
Limit switch	Mechanical/Inductive	Mechanical with lever or inductive	Mechanical with lever	Mechanical with lever
Max leaf length	11 m	11 m	11 m	14 m



Note: Operation frequency valid only for the first hour
From the second hour on the frequency will decrease to 60% of the declared performances (only for 220V operators).
To comply with the new regulations on the impact force it is recommended to apply Z13 pinions on all sliding operators.
With Z20 pinions the opening speed increases about 25%. Versions with electric motor in oil bath are most suitable for more intensive use. (Lepus-Boxer)

Mercury

GEARMOTOR FOR RESIDENTIAL (230V VERSION) OR SEMI-INTENSIVE USE (24V VERSION) FOR SLIDING GATES WITH MAX. WEIGHT OF 800KG AVAILABLE VERSIONS: 400kg - 600Kg - 800kg.

- Refined design, compact and easy to install
- Die-cast aluminum body with external housing with innovative design
- Optional batteries kit 24V version
- Encoder (Obstacle detection sensor) for max. operation safety (optional 230V version)
- Simple and quick installation
- Electronic anti-crushing clutch
- Mechanical or magnetic limit switch (MAG version)
- Optional micro-switch on release lever
- Adjustable slowdown in opening and closing on USER 1 24V D G or GATE 1 (220V) control unit
- Emergency batteries and solar panel KIT SUNNY for recharge can be applied.
- Led light application on all models possible
- 230V or 24V version
- Release system through robust aluminium lever (optional metal lock)
- Optional external release system with stainless steel cable and safety box
- Optional battery of 1,2 AH (cod.12715295 € 35.00)

Led light application on all models possible (optional)

Release system through robust nylon lever (optional metal lock)

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
11304000	**MERCURY 400 G1** with GATE 1 control unit	400	4 m	20	30	10	20
11304005	**MERCURY 400 24V** with USER 1 - 24V DG control unit	400	4 m	30	30	10	20
11304050	**MERCURY 400 E*** with SLIDE control unit	400	4 m	20	30	10	20
11304100	**MERCURY 600 G1** with GATE 1 control unit	600	6 m	20	30	10	20
11304105	**MERCURY 600 24V** with USER 1 - 24V DG control unit	600	6 m	30	30	10	20
11304205	**MERCURY 800 G1** with GATE 1 control unit	800	6 m	20	30	10	20
11304210	**MERCURY 800 24V** with USER 1 - 24V DG control unit	800	6 m	30	30	10	20
11304215	**MERCURY 800 E*** with SLIDE control unit	800	6 m	20	30	10	20

For versions with magnetic limit switch write "MAG" after the code
* SLIDE control units max. 10 useers with fix code or 800 users with rolling code

ACCESSORIES

23106305

BAT7 battery kit with box (7AH)

11203005

ENC kit Encoder for MERCURY 400 (230V)

16101120

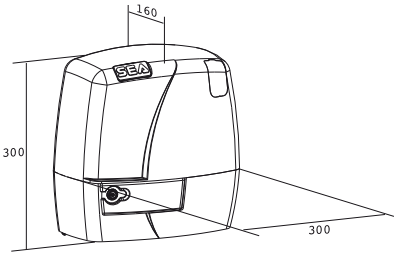
PZ13T Pinion Z13 for MERCURY

12715275

Microswitch on release lever for stop function

12710595

SECMER box + external release with cable



23101105

ESUN solar panel's control unit and battery -charger

23106370(*)

Kit SUNNY 20W solar panel + control unit +battery

12710645

LED light to be inserted into the MERCURY carter for motion detection

12710605

Lock with DIN key and lock cover for MERCURY/SATURN

12710615

Lock cover for basic lock

MERCURY - MERCURY 24V PACKAGE

N.1 Motorreducer MERCURY / MERCURY 24V
N.1 Pinion Z16 for rack
N.1 Control unit GATE 1 (USER 1 24V DG for MERCURY 24V)
N.1 Mounting accessories kit
N.1 Release key
N.4 Motor fixing nuts
N.1 Mounting instructions and general notice
N.1 Warning signboard
N.1 Foundation plate

Foundation plate included
NB: Version with SLIDE ROLL control unit
NB: ESUN 23101105 to combine with BAT7 23106305
(*)KIT SUPER SUNNY for more power

Saturn 600

GEARMOTOR FOR RESIDENTIAL SLIDING GATES.

- Solid, die-cast aluminum body
- OIL version with oil lubrication of the gears for longer life
- High quality mechanical or inductive limit switches (On request magnetic limit switches on "MAG" version)
- Release system with robust aluminium lever with lock in case of power cut
- Optional external release with metal box
- Standard encoder to comply with the rules (Optional on SATURN E)
- Standard, mechanical twin-disc clutch (OIL version)
- Micro-switch for stop function on release lever in case of assistance (OIL version)
- On request extra base painting (SM600 colour)
- Optional external release system with stainless steel cable and safety box

In option release with aluminium lever and lock (optional for SATURN E and G1)

The SATURN OIL versions are with oil lubrication of the gears for max duration

Mechanical twin-disc clutch (only for SATURN OIL)

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
12400210	**SATURN 600 OIL** inductive limit switch	600	6 m	25	25	10	20
12400215	**SATURN 600 OIL** mechanical limit switch	600	6 m	25	25	10	20
12400207	**SATURN 600 G1** mechanical limit switch	600	6 m	25	25	10	20
12400205	**SATURN 600 E*** with SLIDE control unit	600	6 m	25	25	10	20
12715255	supplementary painted base						

For versions with magnetic limit switch write "MAG" after the code
* SLIDE control units max. 10 useers with fix code or 800 users with rolling code

ACCESSORIES

65000055

OILGS yellow oil for SATURN (5 L)

16101047

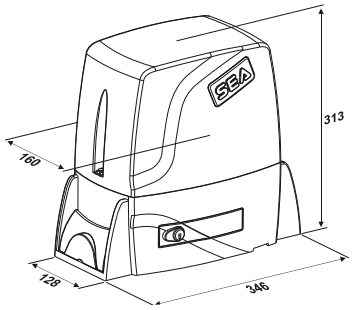
PZ20 pinion Z 20 mod 4 for SATURN

16101115

PZ13T pinion Z13 for SATURN

12715240

Cover INOX stainless cover for external release to combine with SECSAT



12710340

SECSAT security box and external release with cable of 2,5 m

12710605

Lock with DIN and lock cover (for SATURN G1 and E)

12710615

Cover lock for basic lock (for SATURN G1 and E)

12710405

Microswitch on release lever for STOP function (for SATURN G1 and E)

11203005

ENC kit Encoder for SATURN E

NB: Version SATURN oil whit GATE 1 ROLL control unit, serial encoder, mechanical clutch and oil lubrification, microswitch on lever of release and cover lock
The SATURN E G1 whit GATE 1 control unit, base of carter no painted, without encoder, without microswitch, without mechanical clutch, grease lubrification
Version SATURN with mechanical clutch has manual release with metal lock

For SATURN 600 OIL

For SATURN G1

Saturn

1000 OIL / 1500 24V OIL / 2000 OIL

GEARMOTOR FOR CONDOMINIUM SLIDING GATES

- Solid, die-cast aluminum body
- All SATURN OIL gears are oil lubricated for longer life.
- High quality mechanical or inductive limit switches
- Release system with robust aluminium lever with lock in case of power cut
- Optional external release with metal box
- Standard encoder to comply with the rules (Except for SATURN 1500 24V)
- Optional emergency batteries for operation in case of power failure (Only SATURN 1500 24 V)
- GATE 1 DG (SATURN 1000 - 2000) USER 1-24V ROLL (SATURN 1500 24V) control units
- Standard, mechanical twin-disc clutch on all models (except for SATURN 1500 24 V)
- Cataphoresis treated base
- Micro-switch for stop function on release lever in case of assistance
- On request extra base painting (SM600 colour)
- Optional external release system with stainless steel cable and safety box

In option release with aluminium lever and lock (optional metal release for SATURN G1 ed E)

The SATURN OIL versions are with oil lubrication of the gears for max duration

Mechanical twin-disc clutch (only for SATURN OIL)

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
12400115	**SATURN 1000 E*** whit SLIDE control unit and mechanical limit switches	1000	10 m	20	25	10	20
12400120	**SATURN 1000 G1** whit mechanical limit switch	1000	10 m	20	25	10	20
12400100	**SATURN 1000 OIL** whit mechanical limit switch	1000	10 m	25	25	10	20
12400105	**SATURN 1000 OIL** whit inductive limit switch	1000	10 m	25	25	10	20
12400026	**SATURN 1500 OIL 24V** whit mechanical limit switch	1500	10 m	40	25	10	20
12400025	**SATURN 1500 OIL 24V** whit inductive limit switch	1500	10 m	40	25	10	20
12400040	**SATURN 2000 OIL** whit mechanical limit switch	2000	10 m	25	25	10	20
12400045	**SATURN 2000 OIL** whit inductive limit switch	2000	10 m	25	25	10	20
12715255	Base painting supplement						

* SLIDE control units max. 10 useers with fix code or 800 users with rolling code

ACCESSORI

23106305

BAT7 battery kit with box (7AH)

65000055

OILGS yellow oil for SATURN (5 L)

16101047

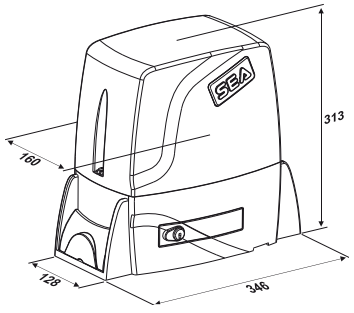
PZ20 pinion Z 20 mod 4

16101115

PZ13T pinion Z13

12715240

Cover INOX stainless cover for external release to combine with SECSAT



23101105

ESUN solar panel's control unit and battery -charger

23106370

Kit SUNNY 20W solar panel + control unit +battery

12710340

SECSAT security box and external release with cable of 2,5 m

12710605

Lock with DIN and lock cover (for SATURN G1 and E)

12710615

Cover lock for basic lock (for SATURN G1 and E)

12710405

Microswitch on release lever for STOP function

11203005

ENC kit Encoder for SATURN E

NB: Version SATURN oil whit GATE 1 ROLL control unit, serial encoder, mechanical clutch and oil lubrification, microswitch on lever of release and cover lock
Version SATURN 1000-2000 OILwhit GATE 1 control unit, base of carter no painted, without encoder, without microswitch, without mechanical clutch, grease lubrification
SATURN 1000 G1 with GATE 1 control unit. SATURN 1500 24V OIL with oil lubrication and USER 1 - 24V DG control unit.
The SATURN OIL motors with mechanical clutch have serial manual release with metal lock.
NB: 23101105 to combine with 23106305

Boxer 1000 / 2000

GEARMOTOR IN OIL BATH FOR SLIDING GATES
FOR CONDOMINIUM OR INTESIVE USE.

- Solid, die-cast aluminum body
- Powerful, reliable and great value for money
- All BOXER versions with electric motor and gears in oil lubrication for longer life
- High quality mechanical or inductive limit switches
- Release system with lever and lock in case of power failure.
- Optional external release with metal box.
- Standard, mechanical twin-disc clutch in oil bath on all models (except for BOXER G1)
- Cataphoresis treated aluminium base
- Standard encoder to comply with the rules
- Control units of GATE series
- On request extra base painting
- Optional external release system with stainless steel cable and safety box

Release with aluminium lever and lock (optional metal release for BOXER G1)

Electric motor and gears in oil lubrication

Mechanical twin-disc clutch

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
12405000	**BOXER 1000** whit mechanical limit switch	1000	10 m	35	30	10	20
12405005	**BOXER 1000** with inductive limit switch	1000	10 m	35	30	10	20
12405020	**BOXER 1000 G1** whit mechanical limit switch	1000	10 m	35	30	10	20
12405200	**BOXER 2000** whit mechanical limit switch	2000	10 m	35	30	10	20
12405205	**BOXER 2000** with inductive limit switch	2000	10 m	35	30	10	20
12715255	supplementary painted base						

ACCESSORIES

16101047

PZ20 Pinion Z 20

16101115

PZ13T Pinion Z13

12710405

Microswitch on release lever for STOP function (for BOXER G1)

12710605

Lock with DIN and lock cover (for BOXER G1)

12710340

SECSAT security box and external release with cable

12715240

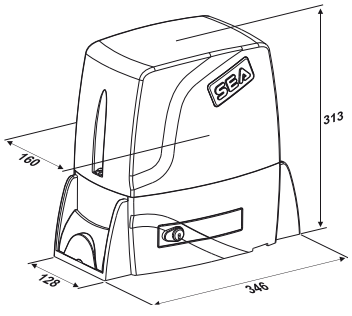
Cover INOX stainless cover for external release to combine with SECSAT

65000055

OILGS yellow oil for SATURN (5 L)

12710615

Cover lock for basic lock (for BOXER G1)



BOXER 1000/2000 PACKAGE

N.1 Motorreducer BOXER 1000/2000
N.1 Pinion Z16 for rack
N.1 Control unit GATE 1
N.1 Mounting accessories kit
N.1 Release key
N.4 Motor fixing nuts
N.1 Mounting instructions and general notice
N.1 Warning signboard
N.1 Foundation plate

NB: G1 version: GATE 1 control unit, basic, not painted carter, no encoder, no microswitch.
BOXER 1000-2000 with GATE 1 control unit, mechanical clutch and encoder, DIN lock for release key and lock cover.

Lepus 600/1600/2000

GEARMOTOR IN OIL BATH FOR INTENSIVE USE FOR SLIDING GATES WITH 1600KG MAX WEIGHT (2000Kg LEPUS 2000 THREEPHASE).

- Complete lubrication of motor and all mechanical components for longer life
- Manual release protected through a lid with key for more safety
  Optional external release with metal box
- Mechanical, twin-disc fiction in oil bath and (GATE 1) electronic control unit for double anti-crushing safety
- Standard encoder (Obstacles detection sensor) for max. anti-crushing operation safety
- Foundation plate adjustable in height and width
- GATE1 control unit for all demanding functions (LEPUS 600 and 1600), (LEPUS 2000 Three phase without control unit).
- LEPUS 600 reversing version (available also with electro-lock)
- Gears and stator sizes projected and produced for longer life and intensive operation cycles
- On request versions for very intensive operation cycles (LEPUS Continuous 600)

Release with metal lever DIN lock and lock cover. Microswitch for stop function

Internal photo

Mechanical twin-disk clutch

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
11102025	**LEPUS 600** with mechanical limit switch	600	11 m	40	30	10	20
11102030	**LEPUS 600** with inductive limit switch	600	11 m	40	30	10	20
11102035	**LEPUS 600 REVERSIBLE*** with mechanical limit switch	600	11 m	40	30	-	-
11102038	**LEPUS 600 REVERSIBLE EB** (BRAKE)** with mechanical limit switch and electrobrake	600	11 m	40	30	-	-
11110305	**LEPUS 1600** with inductive limit switch	1600	11 m	40	30	10	20
11110300	**LEPUS 1600** with mechanical limit switch	1600	11 m	40	30	10	20
11110505	**LEPUS 2000 TRIFASE 380V***** with inductive limit switch	2000	11 m	40	30	10	20
11110500	**LEPUS 2000 TRIFASE 380V***** with mechanical limit switch	2000	11 m	40	30	10	20

ACCESSORIES

16101047

PZ20 Pinion Z 20

16101115

PZ13T Pinion Z13

65000020

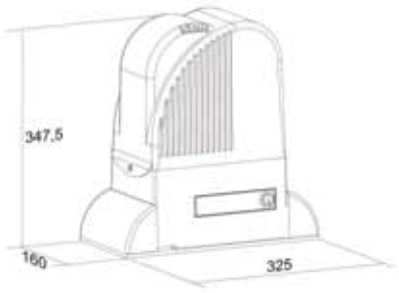
OILGS yellow oil for SATURN (5 L)

12710600

SECLEP safety box and external release with cable of 2,5 m

12715285

Cover INOX stainless cover for external release to combine with SECSAT



LEPUS PACKAGE

N.1 Geramotor LEPUS
N.1 Pinion Z16(Z13 pinion for reversible versions)
N.1 GATE 1 ROLL control unit (LEPUS 600 and 1600)
N.1 Mounting accessories kit
N.1 Release key
N.4 Motor fixing nuts
N.1 Mounting instructions and general notice
N.1 Warning signboard
N.1 Foundation plate

Foundation plate included .
* Version without electronic control unit.
SEA 380DG optional electronic control unit
** LEPUS 600 REVERSIBLE EB with electro-brake and without control unit
***LEPUS 2000 Trifase no control unit

Lepus Box 1600

GEARMOTOR IN OIL BATH FOR INDUSTRIAL SLIDING GATES WITH MAX. 1600KG WEIGHT.

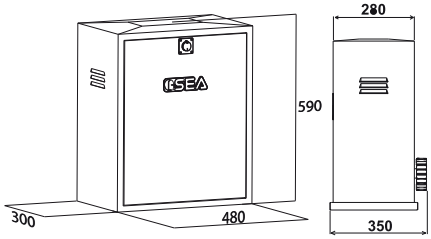
- Reliability of Gearmotors in oil bath
- All main parts were produced and tested in the SEA facilities
- Lubrication of the motor and main parts in oil bath for longer life.
- Robust, cataphoresis- treated polyester paint sheet housing for heavy-duty applications of industrial type.
- Manual release hidden behind a lid with key for max. safety.
- Mechanical twin-disk clutch in oil bath and electronic clutch for double anti-crushing safety
- Standard encoder (Obstacles detection sensor) for max. anti crushing operation safety
- GATE1 control unit for all demanding functions

Mechanical limit switch with leve r

Internal photo

Mechanical twin-disk clutch

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET
11110375	LEPUS BOX 1600 (GATE 1) whit mechanical limit switch with lever	1600	11 m	30	8
11110380	LEPUS BOX 1600 (GATE 2) whit mechanical limit switch with lever	1600	11 m	30	8



ACCESSORIES

12710060

SECHT security box and external release with cable of 2,5 m

23101125

KIT Microswitch on release lever for stop function

65000020

OILGL yellow oil for gear motors LEPUS (5 L)

LEPUS BOX 1600 PACKAGE

N.1 Gearmotor Lepus Box 1600
N.1 Pinion Z16 double shim module 4
N.1 Control unit GATE 1
N.1 Mounting accessories kit
N.1 Release key
N.1 Mounting instructions and general notice
N.1 Warning signboard
N.1 Foundation plate

Lepus Box Reversible

230V MONOPHASE GEARMOTOR IN OIL BATH FOR SLIDING GATES WITH MAX. 1000KG WEIGHT.

Platinum 5 YEARS WARRANTY

- Reliability of Gearmotors in oil bath.
- All main parts were produced and tested in the SEA facilities
- Lubrication of the motor and main parts in oil bath for longer life
- Carter in robusta lamiera con trattamento
- Robust, cataphoresis- treated polyester paint sheet housing for heavy-duty applications of industrial type.
- Manual release behind a lid with key for max. safety.
- Electronic friction for max. anti crushing safety
- Positive electro lock with release button
- GATE 2 DG control unit for all demanding functions

NEW

Available: Summer 2012

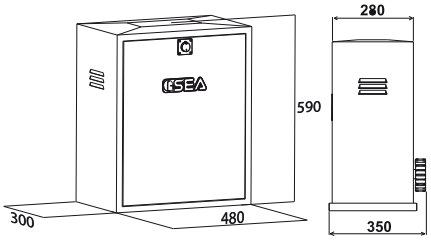
Mechanical limit switch with leve r

Internal photo

Electronic friction for max. anti crushing safety

CODE	NAME	MAX LEAF LENGTH (M)	MAX GATE WEIGHT (KG)	MAX CYCLES/ HOUR	PCS FOR PALLET
11115125	LEPUS BOX Reversible (GATE 2 DG) with mechanical limit switch with lever	11	1000	30	8

N.B. The reversing is automatically guaranteed in case of power failure or manually through activation of special button



ACCESSORIES

12710060

SECHT security box and external release with cable 2,5 m

23101125

Kit Microswitch on release lever for stop function

65000020

OILGL yellow oil for gear motors LEPUS (5 L)

PACKAGE

LEPUS Reversible 1000

N.1 Gearmotor Lepus Box 1000
N.1 Pinion Z13 double shim module 4
N.1 Control unit GATE 2 DG
N.1 Mounting accessories kit
N.1 Release key
N.1 Mounting instructions and general notice
N.1 Warning signboard
N.1 Foundation plate

BIG 4000 THREE-PHASE

GEARMOTOR IN OIL BATH FOR INDUSTRIAL SLIDING GATES WITH MAX. 4000KG WEIGHT.

- Reliability of gearmotors in oil bath
- Robust, cataphoresis- treated polyester paint sheet housing for heavy-duty applications of industrial type
- Manual release behind a lid with DIN key for max. safety
- Mechanical torque controller in oil bath
- Special heat treatment of all internal parts for max. industrial operation safety
- IP65 high quality mechanical limit switch with lever
- SEA 380 DG control unit programmable through extractable display
- On request BOX 6000 special version (for sliding gates with max. 6000Kg weight)
- Electro-lock kit for limit switch lock improvement (recommended optional)
- BIG 4000 Inverter version with slowdown and reversing through SEA 380 DG INV 230V three-phase control unit
- Module 6 galvanized rack

Gearmotor in oil bath.

Control unit SEA 380 DG programmable on display

CODE	NAME	MAX GATE WEIGHT (KG)	MAX LEAF LENGTH	MAX CYCLES/ HOUR	PCS FOR PALLET
11115045	BIG 4000(230V-400) Three-phase with digital control unit SEA 380 DG (with removable display only for the first programming	4000	14 m	60%	8
11115050	BIG 4000 INVERTER with inverter**	4000	14 m	60%	8
23101130	Display for SEA 380 DG control unit obligatory for the instalaltion				

ACCESSORIES

23101130(*)

Display for control unit SEA 380 DG obligatory accessory

65000020

OILGL yellow oil for gear motors LEPUS (5 L)

23101125

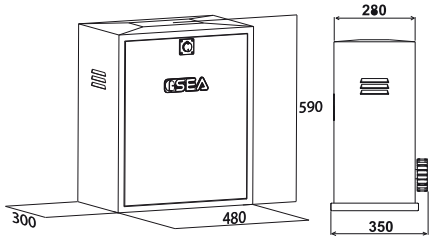
Safety microswitch kit on the door

16101106

PZ12 Pinion Z 12 mod. 6 for BIG 4000

12710815

Kit electro-brake for BIG 4000



BIG 4000 TRIFASE PACKAGE

N.1 Gearmotor BIG 4000 Trifase
N.1 Pinion Z16 modulo 6
N.1 Control unit SEA 380 DG
N.1 Mounting accessories kit
N.1 Release key
N.1 Mounting instructions and general notice
N.1 Warning signboard
N.1 Foundation plate
Available on request Z12 pinion for rack module 6

(*)Optional obligatory: Accessory for the 1°programming.
The display removalbe can be used also for other instalaltions
** New product availability will be communicated through SEA newsletter.

Accessories for Sliding Gates

12715016

RACKD Nylon rack (up to 600 Kg) metal core mod.4 (1m) + accessories (27,5 mm x 220mm)

16101047

PZ20 Pinion Z20 mod. 4 for SATURN/BOXER

16101115

PZ13 Pinion Z13 for SATURN/BOXER/LEPUS

12701010

R120V Wheel ø 120 V groove 30 mm with 2 ball bearings

12701035

R160V Wheel ø 160 V groove 30 mm with 2 ball bearings

12715010

RACKZ Galvanized rack mod. 4 (1m) + accessories (30 x 12mm)

16101007

PZ13 Pinion Z13 double mod. 4 for LEPUS and LEPUS 1600

16101016

PZ20 Pinion Z20 for LEPUS

12701005

R120U Wheel ø 120 U groove 30 mm with 2 ball bearings

12701030

R160U Wheel ø 160 U groove 30 mm with 2 ball bearingsi

12715017

RACKZ2 Galvanized rack mod. 4 (2 m) + accessories (30 mm x 12 mm)

16101021

PZ16 Pinion Z16 double mod. 4 forLEPUS- LEPUS BOX 1600

16101089

PZ20 Pinion Z20 for MERCURY 400/600/800

12701020

R140V Wheel ø 140 V groove 30 mm with 2 ball bearings

12701050

R200V Wheel ø 200 V groove 30 mm with 2 ball bearings

12715013

RACKZM6 Galvanized rack mod.6 (1m) + accessories (30 mm x 30 mm)

16101106

PZ12 Pinion Z12 mod. 6 for BIG 4000

12701015

R140U Wheel ø 140 U groove 30 mm with 2 ball bearings

12701045

R200U Wheel ø 200 U groove 30 mm with 2 ball bearings

Guide to the product

Lepus

OPERATORS FOR BALANCED SECTIONAL DOORS
IN OIL-BATH

1600 SECTIONALS	up to 30 m²
1800 SECTIONALS THREE-PHASE	up to 35 m²

pag. 56

Corona

OPERATORS FOR OVERHEAD DOORS WITH SPRINGS

Corona 60	up to H 2,3 m x L 3,0 m
Corona 110	up to H 2,3 m x L 4,0 m

OPERATORS FOR COUNTERBALANCED OVERHEAD DOORS

Corona 60	up to H 2,7 m x L 3,0 m
Corona 110	up to H 2,7 m x L 4,0 m

OPERATORS FOR SECTIONAL GARAGE DOORS

Corona 60	up to H 2,4 m x L 3,5 m
Corona 110	up to H 2,4 m x L 5,0 m

NATURE FRIENDLY kit Sunny compatible

pag. 57

Scuti

OPERATORS FOR OVERHEAD DOORS
HYDRAULIC RESIDENTIAL / INTENSIVE USE

AC - SB.	L max up to 3,5 m
2 Side Operators	L max up over 3,5 m

pag. 58

Erg

OPERATORS FOR OVERHEAD DOORS

Erg	L max up to 3,5 m
Erg 24V	L max up to 3,5 m

NATURE FRIENDLY kit Sunny compatible

pag. 59

Ara

OPERATORS FOR INDUSTRIAL FOLDING DOORS
HYDRAULIC INTENSIVE USE

AC	up to 1 m
SB	up to 1,5 m

pag. 60

Omega

OPERATORS FOR INDUSTRIAL FOLDING DOORS
ELECTROMECHANICAL NO INTENSIVE USE

Omega	up to 1 m

pag. 61

Technical specifications

SPECIFICATION	Corona 60/110	Lepus 1600 Lepus Sectional Three-phase	Song 200/240
Power supply	230Vac	230/380Vac	230Vac
Motor power	140/370 W	450 W	450/1100 W
Opening speed	adjustable	-	0,10/0,12 m/sec
Frequency of use	60% /40%	75% / 90%	25%
Max torque	600/1100 Nm	60 Nm	-
Working temperature	-20°C/60°C	-20°C/+55°C	-20°C/+55°C
Weight	13/14 kg	15,5 kg	8/16 kg
Door weight	60/110 kg	1600/1800 Kg	150/260 kg
Anti crushing clutch	Electronic	Mechanical Electronic	-
Protection degree	IP20	IP55	-
Starting Capacitor	-	-	20/25- µF
Limit switch		Mechanical	Mechanical

SPECIFICATION	Scuti	Erg Erg 24V	Ara	Omega
Power supply	230Vac	230Vac/ 24V	230Vac	230Vac
Motor power	220 W	200 W/60W	220 W	220 W
Pump capacity	0,75 l	-	-	-
Cycles/hour	60	30 / 40	50	30
Working temperature	-20°C/55°C	-20°C/55°C	-20°C/+55°C	-20°C/+55°C
Weight	12 kg	10,5 kg	-	-
Door weight	-	-	-	-
Anti crushing clutch	yes	Electronic	yes	Electronic
Protection degree	IP55	IP44	IP55	IP44-
Starting Capacitor	12,5µF	16µF /-	12,5µF	16µF
Limit switch	-	Electronic optional	-	Electronic optional

Lepus SECTIONAL

GEARMOTOR IN OIL BATH FOR SEMI-INTENSIVE AND INTENSIVE USE FOR SECTIONAL DOORS WITH MAX. DIMENSIONS OF 35M2 (LEPUS 1800 SECTIONAL) AND 30M2 (LEPUS 1600 SECTIONAL).

- Reliability of Gearmotors in oil bath
- SEA TOTAL QUALITY: All main parts are made and tested inside the SEA facilities.
- Lubrication of the motor and main parts in oil bath for longer life.
- Aluminium die-cast body
- Mechanical twin-disk clutch in oil bath (anti-crushing safety)
- Outside release through box (optional)
- GATE1 control unit for outside for all demanding functions
- Encoder (Obstacle detection sensor) for max. operation safety

Manual release with lever and 5m cable

Easily adjustable,mechanical limit switch with chain transmission

CODE	NAME	MAX DOORS DIMENSION (m^2)	FREQUENCY OF USE (%)	PCS FOR PALLETS
11110350	**LEPUS 1600** Sectional mono-phase (without control unit)*	30	70	-
11110400	**LEPUS 1800** Sectional three-phase (without control unit)*	35	80	-

ACCESSORIES

16101025

PDZ1620LS Pinion double Z16 Z20

16101026

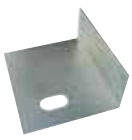
PDZ16-20S Pinion double Z16 Z20

12715015

GCATS Joint for chain for LEPUS

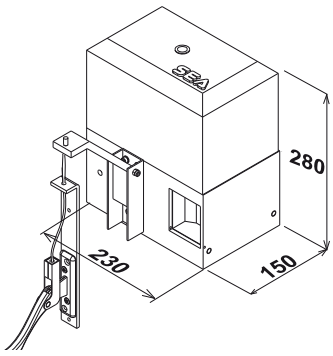
12715005

CATS Chain 1/2" x 5/16 (pack di 2 m) for LEPUS



16200071

PLATELS Fixing plate



LEPUS SECTIONAL PACKAGE

N.1 Gearmotor LEPUS Sectional
N.1 Z16 Z20 Pinion
N.1 Mounting accessories Kit
N.1 Release with handle Kit
N.1 Mounting instructions and general notice
N.1 Warning signboard

* GATE 1 recommended external control unit

Corona RP / S

ROBUST, LOW TENSION (24V) CEILING OPERATOR
EASY INSTALLATION -600 Nm AND 1100 Nm VERSIONS AVAILABLE.

- Secure, noiseless and universal
- Non reversing gear motor, no electro-lock needed, guaranteeing max. safety against break-in attempts.
- Slowdown during closing and opening phase
- Version with 3m one -piece steel quick coupling guide (CORONA RP) or 3x1m modular Aluminium guides (CORONA S)
- On request version with 2x1,5m modular steel guides (CORONA RP 2) and version also with belt (CORONA RPC)
- Adjustable speed
- Internal release with rope in case of power failure PLUS version also with additional internal/external release with handle
- USER 1 24V DG control unit with programming through dispaly (Compatible with OPEN, JOLLY, SP40)
- New one-piece quick coupling motor guide (CORONA RP)
- Adjustable anti-crushing sensitivity
- Courtesy LED light on all models

Quick coupling motor on new unique steel guide with chain (CORONA RP)

USER 1 - 24V DG control unit programmable with Led display and integrated warning light.

CODE	NAME	MAX FORCE (Nm)	MAX DOOR DIMENSION (Kg)	PCS FOR PALLET	QX (PCS)	QX1 (PCS)	QX2 (PCS)
13320065	**KIT CORONA 60 S** with aluminium guide n.3 pz 3 x1 m	600	2500* 3500*	45	-	-	-
13320070	**KIT CORONA 110 S** with aluminium guide n.3 pz 3 x1 m	1100	3500* 5000*	45	-	-	-
13320045	**KIT CORONA 60 RP** Quick coupling motor mounting on unique guide	600	2500* 3500*	45	10	20	-
13320050	**KIT CORONA 110 RP** Quick coupling motor mounting on unique guide	1100	3500* 5000*	45	10	20	-
13320085	**CORONA 60 RP - no guide** Quick coupling motor mounting	600	2500* 3500*	45	10	20	40
13320090	**CORONA 110 RP - no guide** Quick coupling motor mounting	1100	3500* 5000*	45	10	20	40

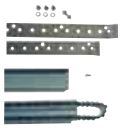
ACCESSORIES

13322006

BASC Kit for overhead doors (CORONA)

13322020

SECCOR external release kit for CORONA S



13322010

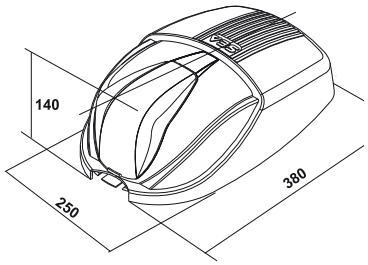
GUI guide with additional brackets (1 m extension) only for CORONA S

23106305

BAT7 battery kit with box (7AH)

23101105

ESUN solar panel's control unit and battery -charger



23106370(*)

Kit SUNNY 20W solar panel + control unit +battery

12710666

T3 3m one piece steel guide for CORONA RP

12710667

T3/2 1,5x2 m steel guide with joint m for CORONA RP

12710665

T4 4m one piece steel guide for CORONA RP

12710668

T3C One piece guide with belt for CORONA RP

CORONA KIT 60/110 PACKAGE

N.1 Operators CORONA (60 o 110) control unit USER 1 24V DG
N.1 Plug-In 433 MHz Roll receiver
N.1 433 Mhz Roll transmitter
N.1 3 m pieces of aluminium guide for chain 7
N.1 Mounting accessories Kit
N.1 Device for internal release with rope

N.B: CORONA RP with gearmotor and uSER 1 24V DG control unit with display, with RF UNI 433MHz plug-in receiver, 2 ch 433 MHz transmitter.
For CORONA 60 RP and CORONA 110 RP the t-shaped guides among the accessories are obligatory
N.B. : 23101105 to ber combined with 23106305
(*)KIT SUPER SUNNY for more power

Scuti

HYDRAULIC OPERATOR FOR OVERHEAD DOORS WITH MAX. WEIGHT OF 16 Kg/m2.

- Hydraulic reliability, noiseless and safety also for overhead doors
- All main parts were produced and tested in the SEA facilities
- The hydraulic operation of the operator and the internal lubrication of all mechanical parts guarantee longer life
- Very quiet thanks to the hydraulic system
- Hydraulic slowdown in closing and opening.
- Anti-intrusion safety through internal lock
- The tightness of hydraulic lock is guaranteed for doors of max. 3,5m length.
  For doors with over 3,5m width use 2 SCUTI operators
- **New**: Accessories for mountings with screws instead of welding

Manual, internal release system. Optional external release with customized key

Anti-crushing security thanks to the force adjusting by.pass valves

CODE	NAME	MAX DOOR DIMENSIONS (m)	MAX. WEIGHT LEAF (Kg) mq	FREQUENCY OF USE (%)	PCS FOR PALLET
11402015	**SCUTI SB***	H 3 x L 3,5 H 3 x L 5,0 **	16	60	24
11401025	**SCUTI AC**	H 3 x L 3,5 H 3 x L 5,0 **	16	60	24

ACCESSORIES

12710050

SEC75SCU external release system with 75 mm key length

12710045

SEC55SCU external release system with 55 mm key length

12710775

Spar for SCUTI 0.99 m (n.1 pcs RH, n.1 pcs LH) r adjustable with many fixing holes

12710800

Spar for SCUTI 1,75 m (n. 2 pcs) adjustable with many fixing holes

WELDING ACCESSORIES

12710745

Installation kit for 1 SCUTI motor with CURVED arms and n.2 pcs transmission tubes of 1,75m

12710755

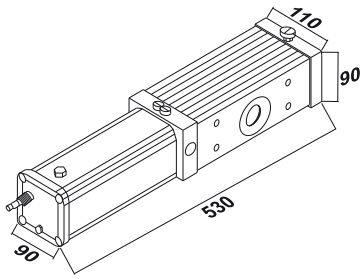
Installation kit for 1 SCUTI motor with STRAIGHT arms and n.2 pcs transmission tubes of 1,75m

12710750

Installation kit for 2 SCUTI motors with CURVED arms and n.2 pcs transmission tubes of 0,5m

12710760

Installation kit for 2 SCUTI motors with STRAIGHT arms and n.2 pcs transmission tubes of 0,5m



SCREW ACCESSOIRES

12710765

Installation kit for 1 SCUTI motor with CURVED arms and n.2 pcs transmission tubes from 1,75m.

12710770

Installation kit for 1 SCUTI motor with STRAIGHT arms and n.2 pcs transmission tubes from 1,75m

12710785

Installation kit for 2 SCUTI motors with CURVED arms and n.2 pcs transmission tubes from 0,5m

12710790

Installation kit for 2 SCUTI motors with STRAIGHT arms and n.2 pcs transmission tubes from 0,5m

SCUTI PACKAGE

N.1 SCUTI operator
N.1 Installation accessories kit
N.1 Starting capacitor
N.1 Instruction for installation and general notice
N.1 Warning signboard

*On operators without lock SCUTI SB mount an electrolock must be mounted.
**Size related to the use of two side operoters for doors of over 3,5m largeness.
N.B: The spar is not included in the installation kit and is an obligatory accessory to be ordered
2 models available: 0,99 m or 1,75 m spar

Erg - Erg 24V

OPERATOR FOR RESIDENTIAL OVERHEAD DOORS WITH MAX. WEIGHT OF 10Kg/m2.r

ERG 24V

ERG G1

- Simple to install, secure and reliable
- Slowdown in opening and closing
- For doors with 3,5m to 4,7m width (3m height) use 2 ERG operators
  With external control unit (GATE 2 DG or SWING 2)
- Optional encoder kit for reversing on obstacle (ERG G1 or ERG S/C)
- Timed courtesy Led light inside operator
- Optional limit switch group with micro switch, operator prepared for very easy mounting (standard on ERG G1)
- Metal release lever
- New : ERG 24V with USER 1 -24V DG control unit with warning led available

Release system with lever in case of power failure

Thermo treated gears on rotating arms supported by ball bearings

CODE	NAME	MAX DOOR DIMENSIONS (m)	MAX. WEIGHT LEAF (Kg) mq	FREQUENCY OF USE (%)	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
11315052	ERG G1 with limit switches and control unit	H 3 x L 3,5 H 3 x L 4,7 *	10	25	24	8	16
11315057	ERG S/C without control unit	H 3 x L 3,5 H 3 x L 4,7 *	10	25	24	8	16
11315070	ERG 24V with control unit	H 3 x L 3,5 H 3 x L 4,7 *	10	25	24	8	16

ACCESSORIES

11316005

LSERG limit switch group with microswitch (for ERG 24V)

12710071

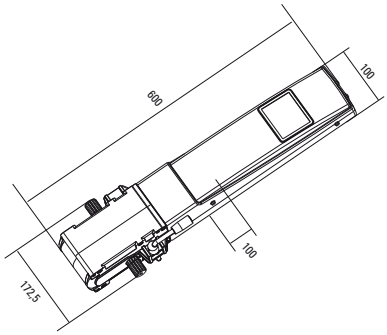
SECERG external release for ERG

11303005

ENCERG Encoder only for 220V version

12710104

Courtesy light + led (option ERG S/C)



WELDING ACCESSORIES

12710705

Installation kit for 1 ERG motor with CURVED arms and n.2 pcs transmission tube from 1,5 m

12710715

Installation kit for 1 ERG motor with STRAIGHT arms and n.2 pcs transmission tube from 1,5 m

12710710

Installation kit for 2 ERG motors with CURVED arms and n.2 pcs transmission tube from 0,5 m

12710720

Installation kit for 2 ERG motors with STRAIGHT arms and n.2 pcs transmission tube from 0,5 m

12710241

Spar 600 mm (n.1 pc) adjustable with many fixing holes

SCREW ACCESSOIRES

12710725

Installation kit for 1 ERG motor with CURVED arms and square tube 25x25 mm, length 3 m

12710735

Installation kit for 1 ERG motor with STRAIGHT arms and square tube 25x25 mm, length 3 m

12710730 *

Installation kit for 2 ERG motors with CURVED arms

12710740 *

Installation kit for 2 ERG motors with STRAIGHT arms

12710235

Spar 1600 mm (n.1 pc) adjustable with many fixing holes

N.B: The spar is not included in the installation kit and is an obligatory accessory to be ordered
2 models available: 600mm or 1600mm spar
(*) the square tube is not necessary as the motor is prepared for the bush to be welded

Ara

HYDRAULIC OPERATOR MOUNTED ON ONE LEAF FOR THE OPENING OF A FOLDING DOOR THROUGH TELESCOPIC ARM WITH PERFECTLY HARMONIC AND LINEAR MOVEMENT.

- Hydraulic reliability, noiseless and secure also for folding doors.
- SEA TOTAL QUALITY
  All main parts are produced and tested inside the SEA plants.
- The hydraulic operation of the operator and the internal lubrication of all mechanical parts guarantee longer life
- Max. silence thanks to the hydraulic system
- Anti intrusion safety through internal release
- Standard telescopic arm

Anti-crushing security thanks to the force adjusting by.pass valves

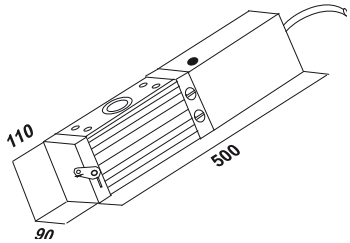
Release system with lever situated on the operator with cable

CODE	NAME	MAX DOOR DIMENSIONS (m)	PUMP (lt)	RELEASE	PCS FOR PALLER
11501030	**ARA AC** with telescopic arm	1,0 x 5,0	1,0	YES	40
11502020	**ARA SB** with telescopic arm	1,5 x 5,0	1,0	NO	40

ACCESSORI

12710073

SECARA
Externa release for ARA



ARA PACKAGE

N.1 ARA operator with telescopic arm
N.1 Installation accessories kit
N.1 Starting capacitor
N.1 Instruction for installation and general notice
N.1 Warning signboard

Omega

ELECTROMECHANICAL OPERATOR MOUNTED ON ONE LEAF FOR THE OPENING OF A FOLDING DOOR THROUGH TELESCOPIC ARM WITH PERFECTLY HARMONIC AND LINEAR MOVEMENT

- Simple, secure and silent
- Not reversing operator for max. safety
- Release with 6m rope
- Easy adjustable electronic limit switch in opening and closing
- Optional encoder Kit to guarantee the reversing in case of obstacle.
- Optional plastic protection

Electronic limit switches

Release system with lever on the operator with cable.

CODE	NAME	MAX WEIGHT LEAF (Kg)	DOOR DIMENSIONS LEAF (m)	MAX. LENGTH (m)	PCS FOR PALLET
11510000	**OMEGA** with arm, limit switch and internal release*	200	1,0 x 5,0 m	1,0	-

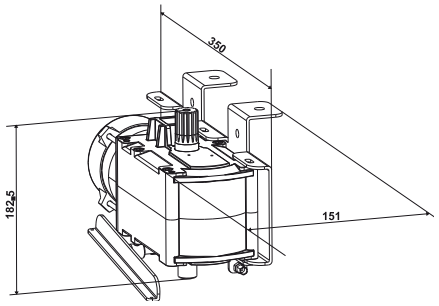
ACCESSORI

11303005

ENCOM KIT
encoder

12710430

SECOM KIT
external release



OMEGA PACKAGE

N.1 OMEGA operator with telescopic arm
N.1 Installation accessories kit
N.1 Starting capacitor
N.1 Instruction for installation and general notice
N.1 Warning signboard

Song

GEARMOTOR FOR ROLLING SHUTTERS SONG 200 FOR WEIGHT UP TO 150KG (SONG 200 Ø) OR
SONG 240 FOR WEIGHT UP TO 240KG (SONG 240 Ø)

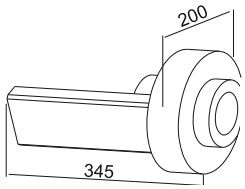
- Gearmotor for rolling shutters of easy installation
- Standard diameter of the shaft: 60mmx200mm for SONG 200 SONG 200 Ø
  (Optional reduction tubes for shutter diameter of 48mm or 42mm, 200mm or 220mm).
- Diameter of the shutter shaft:
  76mmx 240mm for SONG 240 Ø 240.
- Available with standard electro-brake for not reversing of the operator.
  (SONG 200 BRAKE) or optional on SONG 200 or SONG 240
- Release system in the case of power failure through cable with knob (standard in the version with electro-brake)
- Outside release with safety box (version with electro-brake) and pushbutton board available

Adjustable on board limit switch

Gear motor

CODE	NAME	SHUTTER SHAFT DIAMETER (mm)	MAX WEIGHT SHUTTER (Kg)	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
13301005	**SONG 200**	60	150	40	10	30
13301015	**SONG 200** with electro-brake	60	150	40	10	30
13301025	**SONG 240** with electro-brake	76	240	40	10	30

N.B: for shutter diameters of 220 mm use the adapter 200 mm x 220 mm
*N.B: use reduction tubes when the shaft diameter is different from the standard 60 mm



ACCESSORIES

13301105

EBRAKE60 electric brake with release ø 60

13301110

EBRAKE76 electric brake with release ø 76

13301125

TUBSONG reduction tubes 42 x 60 / 48 x 60 (6 pcs)

13301121

TASCOMPSONG Compensation rings 200x220

12710290
€ 85,00

SECSONG security box for external release SONG (whit push button board)

SONG (200 ø o 240 ø) PACKAGE

N.1 SONG gearmotor
N.1 Installation accessories kit
N.1 Instruction for installation and general notice
N.1 Warning signboard
PACKAGE SONG 200 ø FRENO
N.1 SONG 200 ø FRENO gear motor
N.1 Installation accessories kit
N.1 Release with cable
N.1 Instruction for installation and general notice
N.1 Warning signboard

ROLLING

13301150

(QX 20 pz. - QX1 50 pz. - QX2 100 pz.)

ROLLING with box

Description

- Management of one 230V motor
- Automatic, semi-automatic
- Extractable terminal
- Connection for plug-in receiver of SIGNAL series

12715035

CORZ36 CORONAZ36 + adapter ø 25.5

12715050

CORZ46 CORONA Z46 + adapter ø 25.5

12715040

CORZ36AD32 CORONA Z36 + adapter ø 32

12715055

CORZ46AD32 CORONA Z46 + adapter ø 32

12715045

CORZ46AD40 CORONA Z36 + adapter ø 40.2

12715060

CORZ46AD40 CORONA Z46 + adapter ø 40.2

Guide to product

Verg
24V ELECTROMECHANICAL BARRIER
2-5 SEC OPENING TIME

Verg 24V — Up to 5 m

pag. 68

Sprint
24V HYDRAULIC BARRIER
4-8 SEC OPENING TIME

Sprint 24V — Up to 5 m
Sprint 230V — Up to 5 m

pag. 72

NATURE FRIENDLY kit Sunny compatible

Storm
24V ELECTROMECHANICAL BARRIER
8-12 SEC OPENING TIME

Storm 24V — up to 7,5 m

pag. 70

Vela Industrial
24V HYDRAULIC BARRIER
8 TO 12 SEC OPENING TIME

Vela Industrial — up to 7,5 m

pag. 74

NATURE FRIENDLY kit Sunny compatible

Bull-Super Bull
AUTOMATIC BOLLARD

Cylinder diameter: 275 mm — Hight: 680 mm

pag. 76-77

Bull Anti-terrorism
AUTOMATIC BOLLARD

Cylinder diameter: 275 mm — Hight: 700 mm

pag. 78

SEA

BEAM AND SPRING COMBINATIONS

VERG

beam model	2,0 m	2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m
Light 3							
Light 4							
Light 5							

Spring type

(mm)	
Ø 6,0	
Ø 7,5	
Ø 8,5	

SPRINT

Beam model	2,0 m	2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m
Light /Light Sprint							
Light / Art							
Ksiepe							
Supl / Surl							

Spring type

(mm)	
Ø 5,5	
Ø 6,0	
Ø 6,5	
Ø 7,0	
Ø 8,0	

STORM 24V - VELA INDUSTRIAL

Beam model	4,5 m	5 m	5,5 m	6 m	6,5 m	7,0 m	7,5 m
SQXF rectangular							
SQ Linear							
SK Skirt		SK 4,5		SK 5,5		SK 6,5	
Juice 2 m + 4m Split							
Juice 3 m + 4m Split							

Spring type

(mm)	
Ø 10,5	
Ø 11,0	
Ø 11,5	
Ø 12,0	
Ø 12,5	

The colours in this table are reported in the package of the spring

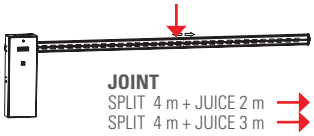
Barriers Technical Specifications

SPECIFICATIONS	SPRINT 24 V / 230 V	VELA INDUSTRIAL 24 V / 230 V	VERG 24 V	STORM 24 V	BULL SUPER BULL
Power supply	24 Vac / 230 Vac	24 Vac /230 Vac	24 Vac	24 Vac	230 Vac
Absorbed power	45 W/220W	230 W	90 W	150 W	330 W
Absorbed current	10/1,1 A	1,1 A	6 A	6 A	1,65 A
Opening delay	adjustable/ 10 sec.	8 - 12 sec.	adjustable	8 - 12 sec.	6 sec. - 8 sec.
Frequency of use	90 % / 75 %	85 % / 75 %	60 %	70 %	30 %
Thermal protection	130°C	130°C	-	-	130°C
Operation temperature	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C	-20°C / +55°C
Weight	51 kg	83 kg	51 kg	83 kg	-
Oil quantity	2 l -1 l	2 litri	-	-	3 litri
Max. beam length	5 m	7,0 side fixing 7,5 m fork fixing	5 m	7,0 side fixing 7,5 m fork fixing	-
Protection class	IP55	IP55	IP55	IP55	IP67 hydraulic unit
Starting capacitor	- / 6,5 µF	12,5 µF	-	-	16 µF

OPENING TIME (sec.) BEAM LENGTH (m)	2	2,5	3,0	4,0	5,0	6,0	7,0*	7,5*
VERG 24V	2	-	3	4	5	-	-	-
VELA INDUSTRIAL	-	-	-	-	8	9,5	11	12
SPRINT no hydraulic brake	-	-	4	5	6	-	-	-
STORM 24V	-	-	-	-	8	10	12	12
SPRINT FAST	2	2,5	3,0	-	-	-	-	-

* With oval beam and fork

VERG - SPRINT
LIGHT oval beam 3m - 4m - 5 m



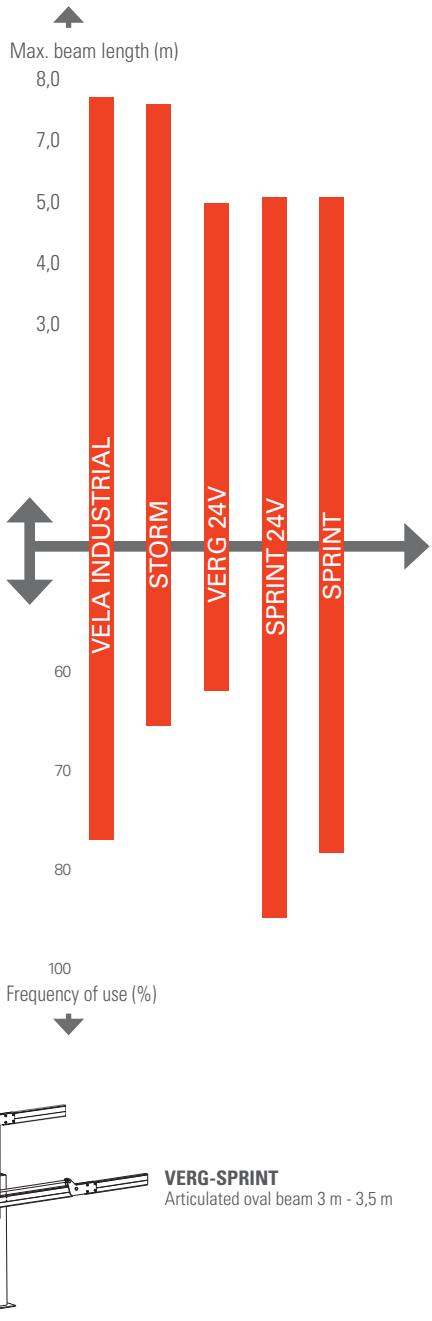
JOINT
SPLIT 4 m + JUICE 2 m → 6 m
SPLIT 4 m + JUICE 3 m → 7 m

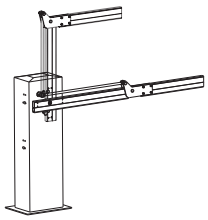
STORM - VELA INDUSTRIAL
Oval beam SPLIT + JUICE

STORM - VELA INDUSTRIAL
Oval beam with fork fixing 6 m - 7 m - 7,5 m

STORM - VELA INDUSTRIAL
LINEAR oval beam + kit skirt 4 m - 5,5 m - 6,5 m

STORM - VELA INDUSTRIAL
LINEAR oval beam 5 m - 6 m - 7 m





VERG-SPRINT
Articulated oval beam 3 m - 3,5 m

Verg 24V

24V ELECTROMECHANICAL BARRIER FOR BEAMS UP TO 5 M.

- Safe and fast low voltage automatic barrier.
- Slow down speed adjustable in opening and closing
- Low voltage motor for maximum safety.
- Reversing on obstacles with adjustable sensitivity.
- It is possible to add emergency batteries to guarantee the operating also in case of power failure without an additional control unit (24 V version).
  IOptional solar panel KIT SUNNY
- Control unit USER 1 24V DG.
- Mechanical limit switches.
- Cataphoresis treated and polyester painted steel box for longer life .
  INOX steel box available.
- New oval beam with double protection rubber and optional LED light (optional) CLED 12715215 + TLED tube 12715216.
- Casing pre-drilled for photocells SUNSET and key switch ASTER.
- Available with articulated beam of max 3m. (LIGHT ART3)

Internal view

Easy release system with key in case of power failure.

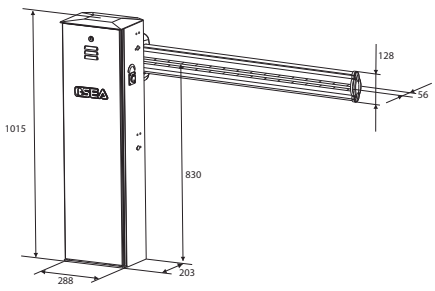
Led lights.
Flashing light.
Opening with key.

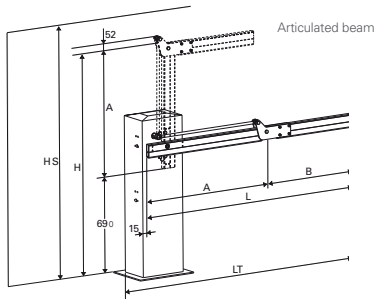
Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	FREQUENCY OF USE (%)	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
11320006	**VERG 24V**	regolabile	5,0	60	8	10	25

VERG 24V with USER1 24V DG control unit programmable with display

NOTE: On request stainless steel casing (1.100 Euros price increase)





PACKAGE

VERG
N.1 Operator VERG 24V
N.1 Control unit USER 1 24V
N.1 Installation accessories kit
N.1 Installation instruction and general notice
N.1 Foundation plate
N.1 Warning board

ASSEMBLED BEAMS

11903050

KIT LIGHT 3 3m beam + balancing spring + double blunt-free rubber (Tape not included)

11903055

KIT LIGHT4 4m beam + balancing spring + double blunt-free rubber (tape not included)

11903060

KIT LIGHT 5 5m beam + balancing spring + double blunt-free rubber (tape not included)

TO ASSEBLE BEAMS

11903090

LIGHT3 3m oval beam + balancing spring without blunt-free rubber

11903095

LIGHT4 43m oval beam + balancing spring without blunt-free rubber

11909098

LIGHT5 5m oval beam + balancing spring without blunt-free rubber

12710825

Blunt-free rubber 6 (Pack of 6m) with accessories *(obligatory accessory)*

12710830

Blunt-free rubber 8 (Pack of 8 m) with accessories *(obligatory accessory)*

12710835

Blunt-free rubber 10 (Pack of 10m) with accessories *(obligatory accessory)*

ACCESSORIES

12715216(**)

TLED Tube link LED light (1 meter) (price per meter)

12715215

CLED kit - power supply cable for TLED light (L= 1m)

11902035(***)

LIGHT-ART 3 Articulated oval beam up to max 3,0 m (beam and spring)

12715220(*)

STICKER Red Sticker for beam (pack of 50 m)

12710087

SUPL Pliable support for oval LIGHT beam

1620045

CSUPLIGHT Counter plate for fork support

16200100

SUPLIGHTP Fork support

23101105

ESUN Solar panels control unit and battery - charger for USER 2 - 24V

23106370

KIt SUNNY 20W solar panel + control unit +battery

23106325

BAT Kit Battery with box for VERG

12710795

LIGHT beam release

N.B:For blunt-free rubbe 40 m minimum purchasing quantity

*Same length of the beam needed
** To be ordered in combination with CLED 12715215
*** CLED and TLED can be used only for the first part of the beam just up to the articulation
Note: For 4/5m beams it is recommended to install 16200100 or 12710087
NB: LIGHT-ART on request cut up to 3m following the drawing
NOTE: Respect the opening times in relation to the length of the beam (see instruction manual)

KIT SUPER SUNNY for more power

Storm 24V

24V ELECTROMECHANICAL BARRIER FOR BEAMS UP TO 7 M.

- Solid and reliable gearmotor
- Slow down speed adjustable in opening and closing
- Low voltage motor for maximum safety
- Possibility to add solar panel KIT SUNNY
- Possibility to add emergency batteries to guarantee the operation also in case of power failure
- Control unit USER 1 24V ROLL*
- Mechanical and electronic limit switches.
- New oval aluminiun beam LINEAR with double bluntfree rubber and optional LED light kit (CLED 12715215 + TLED 12715216). Available also with modular SPLIT+ JUICE beam
- Casing pre-drilled for photocells SUNSET and key switch ASTER
- Available version with double fixing for rectangular or oval beam (STORM 24 F)

Double beam fixation with fork

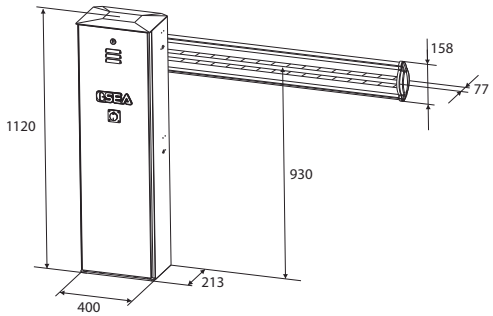
Easy Release system with key in case of power failure

Led lights. Flashing lamp. Opening with key.

Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	FREQUENCY OF USE (%)	PCS FOR PALLET	QX (PCS)
11330000	**STORM 24V**	8-12 sec.	7,0	70	6	10
11330010	**STORM 24V F ***	8-12 sec.	7,5	70	6	10

Foundation plate included



MODULAR BEAMS WITH JOINT

CODE	DESCRIPTION	BEAM
11903115 +11903125	SPLIT 4 m + JUICE 2 m	6 m
11903115 +11903120	SPLIT 4 m + JUICE 3 m	7 m

PACKAGE
STORM
N.1 operator STORM 24V
N.1 Control unit USER 1 24V DG
N.1 Installation accessories Kit
N.1 Installation instructions and general notice
N.1 Foundation plate included
N.1 Warning board

ASSEMBLED BEAMS

11903065

KIT LINEAR 5 m oval beam+ balancing spring+double blunt-free rubber
(Tape not included)

11903070

KIT LINEARE 6 m oval beam+ balancing spring+double blunt-free rubber
(Tape not included)

11903075

KIT LINEARE 7 m oval beam+ balancing spring+double blunt-free rubber
(Tape not included)

ASSEMBLED BEAMS

11903115

SPLIT oval beam 4 m+ accessories and joint
(Tape not included)

11903125

JUICE oval beam2 m+ balancing spring (for joint) + blunt-free rubber
(Tape not included)

11903120

JUICE oval beam3 m+ balancing spring (for joint) + blunt-free rubber
(Tape not included)

ASSEMBLED BEAMS

11903145

LINEAR 5 m oval beam + balancing spring without blunt-free rubber

11903150

LINEAR 6 m oval beam + balancing spring without blunt-free rubber

11903155

LINEAR 7 m oval beam + balancing spring without blunt-free rubber

12710840

Blunt-free rubber 10
(Pack of 10)
with accessories
(obligatory accessory)

12710845

Blunt-free rubber12
(pack of 12 m)
with accessories
(obligatory accessory)

12710850

Blunt-free rubber 14
(Pack of 14 m)
with accessories
(obligatory accessory)

ACCESSORIES

12710095

SK4,5 * KIT 4,5m Skirt + spring only for LINEAR

12710096

SK5,5 * KIT 5,5m Skirt + spring only for LINEAR

12710097

SK6,5 * KIT 6,5m skirt +spring for LINEAR

16200105

SUPLIGHTP Fork support

16200125

SUPINDR Adjustable support with fork

12710084

SUPL Pliable support for oval LIGHT beam

16200090

CSUPLIGHT Counter plate for fork support

23101105

ESUN Solar panels control unit and batte-ry - charger for USER 2 - 24V

23106370

KIt SUNNY
20W solar panel + control unit +battery

23106305

BAT 7 battery kit with box (7AH)

12715216(**)

TLED Tube link LED light (1 meter)
(price per meter)

12715215

CLED kit - power supply cable for TLED light (L= 1m)

12715220(*)

STICKER Red Sticker for beam (package 50 m)

FORK FIXING WITH RECTANGULAR BEAM

Disponibili fino ad esaurimento scorte

11905035

SQXF6 Kit rectangular beam+ spring+ 6 m STORM 24V F

11905040

SQXF7 Kit rectangular beam+ spring+ 7 m STORM 24V F

11905045

SQXF7,5 Kit rectangular beam+ spring+7,5m STORM 24V F

FORK FIXING WITH OVAL BEAM without blunt-free rubber

11905115

SQXF6-O KIT oval beam LINEAR 6 m + spring +fork fixing

11905120

SQXF7-O KIT oval beam LINEAR 7 m +spring + fork fixing

11905125

SQXF7,5-O KIT oval beam LINEAR 7,5 m + spring + fork fixing

FORK FIXING WITH OVAL BEAM with blunt-free rubber

11905135

SQXF6-O KIT lisse ovale LINEAR 6 m + ressort + double bras de fixation + double blunt-free rubber

11905140

SQXF7-O KIT lisse ovale LINEAR 7 m + ressort + double bras de fixation + double blunt-free rubber

11905145

SQXF7,5-O KIT lisse ovale LINEAR 7,5 m + ressort + double bras de fixation + double blunt-free rubber

N.B:For blunt-free rubbe 40 m minimum purchasing quantity

*Same length of the beam needed
** To be ordered in combination with CLED 12715215
Note: For 5-6-7 m beams it is recommended to install 16200125 or 12710084
Note : 23101105 to combine with 23106305
KIT SUPER SUNNY for more power

Sprint 24V - 230V

HYDRAULIC BARRIER FOR BEAMS UP TO 5 M

- Fast and reliable automatic hydraulic barrier. SEA TOTAL QUALITY: All main parts are manufactured and tested in the SEA plants. Longer life thanks to the operator working through oil and the inside lubrication of all the mechanical components
- Extremely silent thanks to hydraulic operating
- Adjustable mechanical limit switches. Also electronic limit switches on SPRINT24V and SPRINT 2L 230V (optional SPRINT 1L 230V)
- Cataphoresis treated and polyester painted steel casing for long time lasting
- INOX (316) steel casing available. New cover for beam attachement for more security and a better design
- Oval aluminium beam with double protection rubber and optional LED lights KIT (CLED 12715215 + TLED 12715216).
- Casing pre-drilled with holes for photocells SUNSET and key switch ASTER.
- Low voltage (24V) version for intensive use and possibilty to add emergency batteries with solar panel KIT SUNNY (optional only for SPRINT230V)
- Control unit USER 1 24V DG for SPRINT 24V Control unit GATE 1 ROLL for SPRINT230V
- Available with oval articulated beam (LIGHTS ART up to max 3.5m)
- Available FAST SPRINT version for intensive use

By pass valves

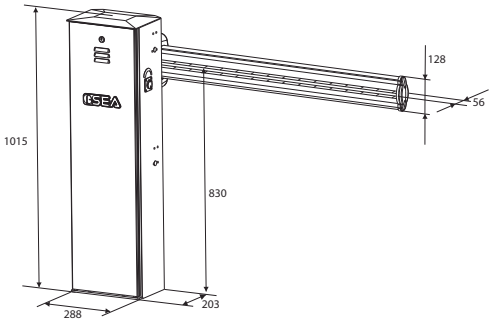
Easy Key release system in the case of power failure

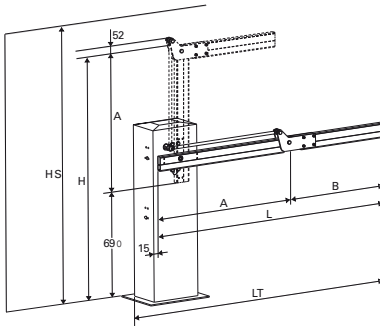
Led lights.
Flashing light.
Opening with key.

Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	PUMP (l)	FREQUENCY OF USE (%)	PCS FOR PALLET	QX (PCS)	QX1 (PCS)
11703005	**SPRINT 24V***	adjustable	5,0	-	90	8	10	20
11703000	**SPRINT 230V 1 L**	8 sec.	5,0	1,0	75	8	10	20
11703050	**SPRINT 230V* 2 L**	4,5 sec.	4,0	2,0	75	8	10	20
11703500	**SPRINT FAST 2 L**	2,0 sec.	3,0	2,0	90	8	10	20

*Electronic limit switches for slow down function
Foundation plate included. Round beam for SPRINT FAST
On request stainless steel casing (1.100 Euros price increase)





PACKAGE
SPRINT 24V
N.1 Operator SPRINT
N.1 Control unit USER 1 24V DG
N.1 Installation accessories Kit
N.1 Release Key
N.1 Installation instructions and general notice
N.1 Foundation plate
N.1 Warning signboard

ASSEMBLED BEAMS

11903100

KIT LIGHT S 3 3m oval beam + balancing spring with double anit-blunt rubber
(Tape not included)

11903105

KIT LIGHT S 4 4m oval beam + balancing spring with double anit-blunt rubber
(Tape not included)

11903110

KIT LIGHT S 5 5m oval beam + balancing spring with double anit-blunt rubber
(Tape not included)

ASSEMBLED BEAMS

11903160

LIGHT S 3 3m beam + balancing spring (no anit-blunt rubber)

11903165

LIGHT S 4 4m beam + balancing spring (no anit-blunt rubber)

11903170

LIGHT S 5 5m beam + balancing spring (no anit-blunt rubber)

12710825

Anti-blunt rubber 6 (Pack of 6 m) with accessories *(obligatory accessory)*

12710830

Anti-blunt rubber 8 (Pack of 8 m) with accessories *(obligatory accessory)*

12710835

Anti-blunt rubber 10 (Pack of 10 m) with accessoriesi *(obligatory accessory)*

ACCESSORIES

12710091

KSIEPE kit skirt 3 m + balancing spring

12710092

KSIEPE kit skirt 3,5 m + balancing spring

12710093

KSIEPE kit skirt 4 m + balancing spring

12710087

SURL pliable support for oval beam

12715220(*)

STICKER red sticker for beam (50 m package)

11902045(***)

LIGHTS-ART Articulated beam up to max 3,5 m

12715216(**)

TLED Tube link LED light (1 meter) (price per meter)

12715215

CLED kit - power supply cable for TLED light (L= 1m)

23101105

ESUN Solar panel's control unit and battery - charger

23106370

KIt SUNNY 20W solar panel + control unit +battery

23106305

BAT 7 battery kit with box (7AH)

12710798

Release for LIGHTS beams

16200100

SUPLIGHTP Fork support

16200045

CSUPLIGHT Counter plate for fork support

N.B:For blunt-free rubbe 40 m minimum purchasing quantity

*Same length of the beam
** To be ordered in combination with CLED 12715215
***LIGHT-ART On reuqest cut up to max. 3,5m following the drawing
N.B:For 4/5m beams it is recommended to install 16200100 or 12710087
N.B:23101105 to combine with 23106305
KIT SUPER SUNNY for more power

Vela Industrial

HYDRAULIC BARRIER FOR INDUSTRIAL BEAMS UP TO 7,5M

- The operation through oil and the inside lubrication of all mechanical components grant a longer life.
- Possibility to add a solar panel SUNNY KIT (only 24V version) .
- Adjustable mechanical limit switches.
- Cataphoresis treated, polyester painted steel casing for long time lasting.
- Stainless steel casing available.
- New oval aluminium beam LINEAR with double protection rubber and optional LED light KIT (CLED 12715215 + TLED 12715216).
  Also available modular beam SPLIT+JUICE (New) with connection joint for easy transportation.
- Version with double rectangular beam fixing (VELA INDUSTRIAL) with rectangular beam or LINEAR beam (on request)
- On request version with fixing for rectangular or oval beam linear (VELA INDUSTRIAL)

Double beam fixation with fork

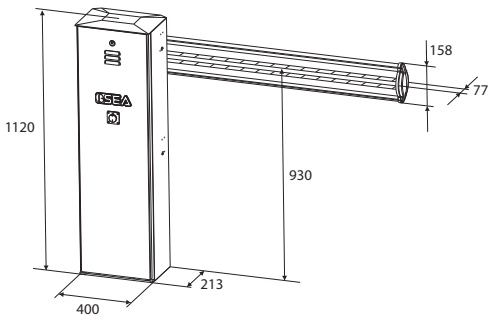
By pass valves

Bright Leds.
Flashing lamp .
Opening with key

Case opening.

CODE	NAME	OPENING TIME	MAX BEAM LENGTH (m)	PUMP (l)	FREQUENCY OF USE (%)	PCS FOR PALLET
11701120	**VELA INDUSTRIAL 230 V**	8 ,0 sec. - 12 sec.	7,0	2,0	70	8
11701125	**VELA INDUSTRIAL 230 V-F** with fork	8 ,0 sec. - 12 sec.	7,5	2,0	70	8
11701130	**VELA INDUSTRIAL 24 V**	8 ,0 sec. - 12 sec.	7,0	2,0	85	8
11701135	**VELA INDUSTRIAL 24 V-F** with fork	8 ,0 sec. - 12 sec.	7,5	2,0	85	8

230v version with GATE 1 ROLL control unit.
Foundation plate
"F" version (Double fork fixing oval beam for L)
Note: To choose left (SX) or right (DX): Vela operator is considered right-hinged if, when looking at the casing door accessing the motor, the beam is on the right;
To use the rectangular beam (over 6m) SEA recommends the installation of the fork coupling Kit (Fork).
LINEAR beam for VELA INDUSTRIAL.
SQXF beam for VELA INDUSTRAL F with fork
Reported opening times are without slowdown



MODULAR BEAM WITH JOINT

CODE	DESCRIPTION	BEAM
11903115 +11903125	SPLIT 4 m + JUICE 2 m	6 m
11903115 +11903120	SPLIT 4 m + JUICE 3 m	7 m

PACKAGE
VELA INDUSTRIAL
N.1 Operator VELA INDUSTRIAL
N.1 gate 1 Control unit
N.1 Installation accessories Kit
N.1 Installation instructions and general notice
N.1 Foundation plate
N.1 Warning signboard

ASSEMBLED BEAMS

11903065

KIT LINEARE 5m oval beam + balancing spring with double anit-blunt rubber
(Tape not included)

11903070

KIT LINEARE 6m oval beam + balancing spring with double anit-blunt rubber
(Tape not included)

11903075

KIT LINEARE 7m oval beam + balancing spring with double anit-blunt rubber
(Tape not included)

MODULAR BEAMS

11903115

SPLIT oval beam 4 m+ accessories and joint
(Tape not included)

11903125

JUICE oval beam2m + balancing spring (for joint) + blunt-free rubber
(Tape not included)

11903120

JUICE oval beam 3m + balancing spring (for joint) + blunt-free rubber
(Tape not included)

ASSEMBLED BEAMS

11903145

LINEAR 5m beam + balancing spring
(no anit-blunt rubber)

11903150

LINEAR 6m beam + balancing spring
(no anit-blunt rubber)

11903155

LINEAR 7m beam + balancing spring
(no anit-blunt rubber)

12710840

Blunt-free rubber10
(pack of 10 m)
with accessories
(obligatory accessory)

12710845

Blunt-free rubber12
(pack of 12 m)
with accessories
(obligatory accessory)

12710850

Blunt-free rubber14
(pack of 14 m)
with accessories
(obligatory accessory)

ACCESSORIES

12710095

SK4,5 * KIT Skirt 4,5m +for LINEAR

12710096

SK5,5 * KIT Skirt 5,5m +for LINEAR

12710097

SK6,5 * KIT Skirt 5,5m +for LINEAR

16200105

SUPIND Fixed support for fork

16200125

SUPINDR Adjustable support for fork

12710084

SUPL Pliable support for oval beam LINEAR

16200090

CSUPIND Counter plate for support fork

23101105

ESUN Solar panel control unit and battery - charger for USER 2 - 24V

23106370

KIt SUNNY
20W solar panel + control unit +battery

23106305

BAT 7 battery kit with box (7AH)

12715216

TLED Tube link LED light (1 meter)
(price per meter)

12715215

CLED kit - power supply cable for TLED light (L= 1m)

12715220

STICKER Red Sticker for beam (pack odf 50 m)

FORK FIXING WITH RECTANGULAR BEAM

Avaialble until supply lasts

11905035

SQXF6 Kit rectangular beam+ spring+ 6 m STORM 24V F

11905040

SQXF7 Kit rectangular beam+ spring+ 7 m STORM 24V F

11905045

SQXF7,5 Kit rectangular beam+ spring+7.5 m STORM 24V F

FORK FIXING WITH OVAL BEAM without blunt-free rubber

11905115

SQXF6-O KIT oval beam LINEAR 6 m + spring +fork fixing

11905120

SQXF7-O KIT oval beam LINEAR 7 m + spring +fork fixing

11905125

SQXF7.5-O KIT oval beam LINEAR 7.5 m + spring +fork fixing

FORK FIXING WITH OVAL BEAM with blunt-free rubber

11905135

SQXF6-O KIT lisse ovale LINEAR 6 m + ressort + double bras de fixation + double blunt-free rubber

11905140

SQXF7-O KIT lisse ovale LINEAR 7 m + ressort + double bras de fixation + double blunt-free rubber

11905145

SQXF7,5-O KIT lisse ovale LINEAR 7,5 m + ressort + double bras de fixation + double blunt-free rubber

N.B:For blunt-free rubbe 40 m minimum purchasing quantity

*Same length of the beam needed
** To be ordered in combination with CLED 12715215, (solo per aste LINEAR o SPLIT/JUICE)
N.B: For 5-6-7 m beams it is recommended to install 16200125 or 12710084
NB:23101105 to combine with 23106305

Bull Hydro - Bull Fix

HYDRAULIC BOLLARD FOR TRANSIT AND PARKING AREAS AND FOR THE PROTECTION OF PUBLIC ACCESS

BULL HYDRO INOX

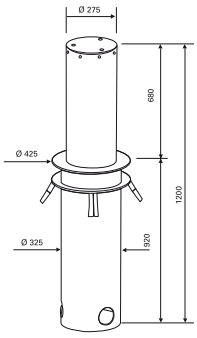
BULL HYDRO

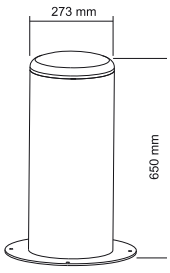
BULL FIX

system of lights

- TOTAL SEA QUALITY
  Bollard with hydraulic movement for max. silence and longer life produced inside the SEA plants.
- Compact version with incorporated hydraulic device for easy installation
- Easy release system with personalized key
- With lighting and sonorous system
- External control unit (SEA recommends GATE1 or GATE2) for BULL HYDRO
- Foundation box
- 5mm thickness
  On request also with stainless steel cylinder
- Electro-valve for automatic descent in the case of power failure (optional)

CODE	NAME	PCS FOR PALLETS
12500005	**BULL HYDRO** complete with lights	4
12500006	**BULL HYDRO INOX** complete with lights	4
12500011	**BULL FIX INOX** 680X273mm with support base	8
12500010	**BULL FIX** 680X275 mm with support base	8





HYDRAULIC UNIT

Hydraulic pump capacity	4 l/min
Average operation pressure	2.2 MPA (22 bar)
Maximum pressure adjustment	4.5 MPA (45 bar)
Operation temperature	-20°C + 55° C
Hydraulic oil	SEA
Protection class	IP55

ELECTRIC MOTOR	FREQU. OF USE
Power Supply	230V - 50 Hz 30%
Motor Current	1.65 A 30%
Motor Power	330 W 30%
Capacitor	12.5 mF 30%
Rotation speed	2800 rmp 30%

HYDRAULIC PISTON

Exit time of the rod	6 sec.
Rod effective stroke	720 mm
Rod diameter	16 mm
Piston diameter	30 mm
Max traction force during rod exit	275 kg
Max traction force during rod re-enter	147 kg
Power supply obstruction light (led)	24V
Shock resistance	9.000 Joule
Crashing resistance	120.000 Joule

MOUNTING ACCESSORIES

Release key
Mounting instructions

23105151

WLIGHT with red /green lights

12710360(*)

ZK Foundation with plate rag bolts

66201286

RAL Supplement RAL(grey anthracite)

12710350

CARBULL Vehicle manhole cover (550x550 mm)

12710376

BOX BULL Foundation form and rag bolts (1m)

PACKAGE
BULL

N.1 BULL operator complete with hydraulic unit, piston, lights kit and 10m connected cables

The standard installation: BULL+ZK or BULL+ BOX BULL

*Obliged accessories (ZK foundation plate or BOX BULL complete)

Eletrovalve EVALV cod.12710520 (price 445,00 euro) is mounted by SEA

N.B. The FIXED BULL comes with base which can be fixed on the foundation plate with rag bolts for more stability.

Super Bull Hydro

SHATTERPROOF, HYDRAULIC BOLLARDS FOR THE PROTECTION OF HIGH SECURITY AREAS, PARKING AREAS AND PUBLIC ACCESS

SUPER BULL HYDRO INOX

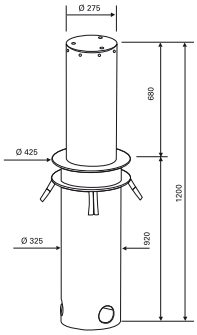
SUPER BULL HYDRO

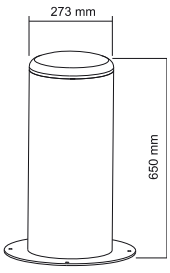
SUPER BULL FIX

system of lights

- TOTAL SEA QUALITY
  Bollard with hydraulic movement for max. silence and longer life produced inside the SEA plants
- Compact version with incorporated hydraulic device for easy installation
- Easy release system with personalized key
- With lighting and sonorous system
- External control unit (SEA recommends GATE1 or GATE2) for BULL HYDRO
- External control unit (SEA recommends GATE1 or GATE2) for SUPER BULL
- Foundation box
- 12mm thickness. Obligatory foundation plate also for fixed SUPER BULL
- Electro-valve for automatic descent in the case of power failure (optional)

CODE	NAME	PCS FOR PALLETS
12500025	**SUPER BULL HYDRO** complete with lights	4
12500026	**SUPER BULL HYDRO INOX** complete with lights	4
12500030	**SUPER BULL FIX**	8





HYDRAULIC UNIT

Hydraulic pump capacity	4 lt/min
Average operation pressure	2.2 MPA (22 bar)
Maximum pressure adjustment	4.5 MPA (45 bar)
Operation temperature	-20°C + 55° C
Hydraulic oil	SEA
Protection class	IP55

ELECTRIC MOTOR		**FREQU. OF USE**
Power Supply	230V - 50 Hz	30%
Motor Current	1.65 A	30%
Motor Power	330 W	30%
Capacitor	12.5 mF	30%
Rotation speed	2800 rmp	30%

HYDRAULIC PISTON

Exit time of the rod	8 sec
Rod effective stroke	720 mm
Rod diameter	16 mm
Piston diameter	30 mm
Max traction force during rod exit	275 kg
Max traction force during rod re-enter	147 kg
Power supply obstruction light (led)	24V
Shock resistance	10.000 Joule
Crashing resistance	180.000 Joule

MOUNTING ACCESSORIES

Release key
Mounting instructions

23105151

WLIGHT with red /green lights

12710360(*)

ZK Foundation with plate rag bolts

66201286

RAL Supplement RAL(grey anthracite)

12710350

CARBULL Vehicle manhole cover (550x550 mm)

12710376

BOX BULL Foundation form and rag bolts (1m)

PACKAGE SUPER BULL

N.1 BULL operator complete with hydraulic unit, piston, lights kit and 10m connected cables

The standard installation: BULL+ZK or BULL+ BOX BULL

*Obliged accessories (ZK foundation plate or BOX BULL complete)

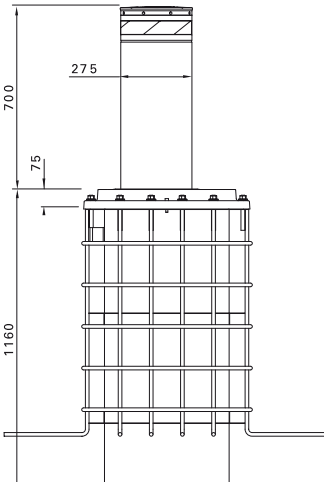
Electrovalve EVALV cod.12710520 (price 445,00 euro) is mounted by SEA

N.B. The FIXED BULL comes with base which can be fixed on the foundation plate with rag bolts for more stability.

Bull Antiterrorism

HYDRAULIC RETRACTABLE SHOCK RESISTANT **BOLLARD**, FOR THE SECURITY OF SENSITIVE AREAS WITH LIMITED ACCESS

- Hydraulic retractable shock resistant bollard, for the security of sensitive areas.
- Security system for sensitive areas:
  - Military bases
  - Embassies
  - Ministries
  - Government offices
  - Banks
- Steel cylinder, treated, painted, and driven by a hydraulic piston, allowing the vertical movement.
- Reinforced cage and cemented into the ground.
- Signalisation Leds blinking during the up and down movement of the bollard.
- Electro-valve for automatic drop in case of black out (optional device).
- Traffic light for transit management (optional).



CODE	NAME	PCS FOR PALLET
12500045	**BULL ANTITERRORISM***	1
12500050	**BULL ANTITERRORISM*** with multi LED flashing lamp*	1
12500055	**BULL ANTITERRORISM**** with multi LED flashing lamp and circuit	1

*on request
**: Circuit, which basically consists of a hydraulic accumulator that allows, in case of emergency and with a specific command, to lift the bollard immediatly

ACCESSORIES

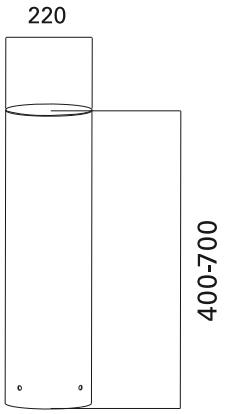
12710566	**12710571**	**12710576**
Well, sub frame and anchoring bolts	Metal manhole for sub frame with screws	RAL paint cylinder
12710581	**12710586**	**12710591**
Electric valve for automatic opening	Cylinder lid	Cylinder lid with flashing lamp

TECHNICAL SPECIFICATIONS	BULL ANTI-TERRORISM
Movement	AUTOMATIC
Dimensions	Diameter 275 mm / hight 700 mm/ wall thickness 10mm
Manual release	YES
Material	Steel Fe 510C
Painting	Polyester powder RAL 7021 grey anthracite
Motor	Hydraulic
Rise time	10 cm/s
Fall time	20 cm/s
Operation temperature	-40C° +60C°
Use	2000 cycles/days intensive
Shock resistance	30.000 Joule
Crashing resistance	700.000 Joule
Dimensions foundation case	650 x 650 x 1200 mm
Protection class	IP 67
Refracting sticker	YES - height 55 mm

Soft 400/700

NEW BOLLARD FOR PARKING AREAS AND AREA PROTECTION, FOR PUBLIC ACCESS AND STREET FURNITURE.

- 3mm thickness. Also available with INOX steel cylinder
- Dimensions 400x168mm or 700x168mm MINI BULL
- Ideal for street furniture in combination with the BULL series



CODE	NAME	PCS FOR PALLETS
12500015	SOFT 400 mm x 220 mm fixed	4
12500020	SOFT 700 mm x 220 mm fixed	4
12500016	SOFT INOX 400 mm x 220 mm fixed	4
12500021	SOFT INOX 700 mm x 220 mm fixed	4

Sun

NOT REVERSING GEARMOTOR FOR THE AUTOMATIC MOVEMENT OF SUN BLINDS AND ROLLING SHUTTERS Ø 45 SERIES.

- Safe, practical and easy to install.
- Gearmotor with rescue operation in case of power failure.
- Easy and fast to install.
- Easy adjustable mechanical limit switch

70mm Ogive Roller

TUBULAR GEARMOTOR FOR ROLLER SHUTTERS

GUIDE TO THE PRODUCT

Arm protuberance **Ø Tubo 60/70 mm**

Number of arms	1.5	2	2.5	3	4	5
2	12 Nm	25 Nm	25 Nm	35 Nm	35 Nm	50 Nm
4	25 Nm	25 Nm	35 Nm	35 Nm	50 Nm	
6	35 Nm	35 Nm	50 Nm	50 Nm		
8		50 Nm				

Arm protuberance **Ø Tubo 78 mm**

Number of arms	1.5	2	2.5	3	4
2	25 Nm	35 Nm	35 Nm	50 Nm	50 Nm
4	35 Nm	35 Nm	50 Nm	50 Nm	50 Nm
6	50 Nm	50 Nm	50 Nm		

CODE	NAME	TORQUE (Nm)	NUMBER TURNS/min	NUMBER TURNS/ limit switches	PCS FOR PALLETS	QX (PCS)
11306105	**SUN 35**	35	12	30	90	10
11306110	**SUN 50**	50	12	30	90	10

ACCESSORIES

12715140

SP Wall support

12715145

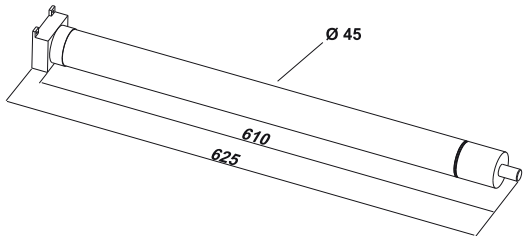
SP Wall star support

1271560

R070 Ogive roller of 70 mm

1271565

R078 Ogive roller of 78 mm



ELECTRONIC ACCESSORIES

23024000

BOARD Control unit for 5 tubular motors + 433MHz receiver 433 MHz

23024005

BOARD Control unit for tubular motor + 433 MHz rec.

23024010

BOARD Control unit for mini tubular motor + 433 MHz rec.

23103060

PUSH Radio 2 push button board for wall application with support

23102100

SENSOR Sun/wind sensor

PACKAGE SUN

N.1 Gearmotor SUN
N.1 Mounting accessories Kit
N.1 Mounting instructions and General notice

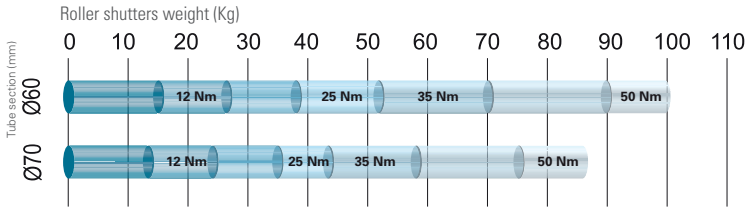
Easy

IRREVERSIBLE TUBULAR GEARMOTOR
FOR THE AUTOMATIC MOVEMENT OF ROLLING SHUTTERS Ø 45 SERIES.

- Safe, practical and easy to install.
- Easy and fast installation.
- Easy adjustable mechanical limit switch

TUBULAR GEARMOTOR FOR SUN BLINDS

GUIDE TO THE PRODUCTR



Weight in Kg/sqm of the roller shutter

MATERIAL	WEIGHT (Kg/mq)*
Extruded aluminium	7-12
Aluminium with expanded polyurethane	3-7
PVC	5-10
Steel	8-12
Steel with expanded polyurethane	10-15
Armored Sicofer steel	15-20
Wood	10-12

CODE	NAME	TORQUE (Nm)	NUMBER TURNS/min	NUMBER TURNS/ limit switches	PCS FOR PALLETS	QX (PCS)	QX1 (PCS)
11306005	**EASY 12**	12	12	30	90	10	30
11306010	**EASY 25**	25	12	30	90	10	30
11306015	**EASY 35**	35	12	30	90	10	30
11306020	**EASY 50**	50	12	30	90	10	30

ACCESSORIES

12715140

SP Wall support

12715145

SP Wall support star

12715130

SPA djustable support with bolt

12715135

SP Square wall support

12715150

Octagonal star roller 60mm

12715155

RO 60 Octagonal roller 60mm

ELECTRONIC ACCESSORIES

23024000

BOARD Control unit for 5 tubular motors + 433MHz receiver 433 MHz

23024005

BOARD Control unit for tubular motor + 433 MHz rec.

23024010

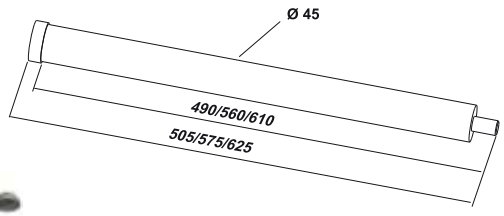
BOARD Control unit for mini tubular motor + 433 MHz rec.

23103060

PUSH Radio 2 push button board for wall application with support

23102100

SENSOR Sun/wind sensor



PACKAGE EASY

N.1 Gear motor Easy
N.1 Mounting accessories Kit
N.1 Mounting instructions and General notic

Lift

ELECTROMECHANICAL AUTOMATION FOR 1 OR 2 SLIDING DOOR LEAVES - 1 LEAF MAX. WEIGHT 160 KG, 2 LEAVES MAX. WEIGHT 100 KG PER LEAF.

CODE	NAME
13205172-I	LIFT 1 Leaf
13205167-I	LIFT 2 Leaves

STANDARD INSTALLATION

CODE	NAME	QUANTITY
13205172-I	LIFT 1 LEAF	1
13206321-I	***CAS-L** unrefined transom outline 4,4 m	1
13206327-I	***COVER-L anodized,** silver lid outline 4,4 m	1
13206345-I	**BRUSH14** Airtight brushes 14 mm (2,5 m	1
13206350-I	**Batteries and recharger card**	1
13206355-I	**Single-ray safety photocell**	1
13206360-I	**Basic selector**	1
13206370-I	**JET** Microwave radar	2
13206335-I	**Sliding guide profile 7 m**	1
13206331-I	**Gear belt 10 m**	1

*The cut of the profile, cover and guide profile on request.

ACCESSORIES FOR LIFT

CODE	NAME
13206321-I	**CAS-L** unrefined transom outline 4,4 m
13206327-I	**COVER-L** anodized, silver lid outline
13206345-I	**BRUSH14** Airtight brushes 14 mm (2,5 m)
13206350-I	**Power** including battery recharger and control card
13206355-I	**BL** Single-ray safety photocell
13206356-I	**BL2** Double –ray safety photocell
13206360-I	**KS** Basic logic selector
13206361-I	**KSP** Advanced logics selector
13206370-I	**JET** Microwave radar (for entrance up to 1,5 m)
13206375-I	**AVR** active infrared radar
13206380-I	**ELB-L** Leaf blocking device with Allen-key manual release, without electricity
13206367-I	**KBLOC** Kit 5 meter release cable
13206362-I	**KLICK** Device for connecting "Wind" series electronic cards to a PC with management software
13206328-I	**KTP-L** naturally anodized plugging outline Kit (4,4 m) + bracket*
13204005-I	**SE** emergency kit with CO48 elastic + 50m roll**
13216005-I	**SAFE** anodized anti panic kit for mobile wing
13216008-I	**SAFE PLUS** Kit anodized anti-panic device for small leaves
13216012-I	**SAFES Kit** anti panic kit for semi fixed wing
13216162-I	**KAV KIT** glass wing kit for 1 wing of 1600mm length 10mm glass thickness
12710280	**SECLS** security box for external release without cable***
12710290	**SECSONG** security box for external release SONG with button
13206340-I	**Rubber finishing touch for cover 2,5 m**
13206335-I	**Sliding guide profile 7 m**
13206331-I	**Gear belt 10 m**

*To be used with wings of less than 30mm thickness **For French market
*** To be combined with 13206367-I

Silver 2 YEARS WARRANTY

- The LIFT automatic door has been projected and produced for high performances of both light and heavy doors
- The extremely reduced overall dimensions make it elegant and suitable, improving the aesthetics of hotels' entrances, museums, hospitals, airports, shops, big shopping centers
- The micro processor electronic control unit verifies in time all the activities of the door: speed adjustment, pausing time adjustment, partial opening adjustment
- It can be interfaced with alarm and control systems. The reversing of the movement in case of impact guarantees the maximum safety against squeezing

TECHNICAL FEATURES:

Opening speed:
adjustable up to 70cm/sec (1 leaf) or up to 140 cm/sec. (2 leaves)

Closing speed:
70% of closing time

Maximum allowable payload:
1 leaf 160 Kg 2 leaves 120+120 Kg

Wing dimensions:
1 leaf 700÷3000 mm –2 leaves 450÷1500 mm

Working temperature:
Internal cross-piece from 0° C to +50°C

Anti-crushing:
Weight 9,3 Kg / linear meter

Use:
Intensive

Automation dimensions:
126 H X 192 W mm

Leaf width (mm) min.= 570	*SAFE	**SAFE PLUS
600	from 0 to 135 kg	
700	from 0 to 115 kg	
800	from 0 to 115 kg	
900	from 0 to 90 kg	from 50 to 125 kg
1000	from 0 to 80 kg	from 50 to 115 kg
1100	from 0 to 70 kg	from 50 to 110 kg
1200		from 50 to100 kg
1300		from 50 to 90 kg
1400		from 50 to 80 kg

Wind

ELECTROMECHANICAL AUTOMATION FOR 1 OR 2 SLIDING DOOR LEAVES - 1 LEAF MAX. WEIGHT 120 KG, 2 LEAVES MAX. WEIGHT 80 KG PER LEAF.

CODE	NAME
13205171-I	WIND 1 Leaf
13205166-I	WIND 2 Leaves

STANDARD INSTALLATION

CODE	NAME	QUANTITY
13205166-I	WIND 2 Leaves	1
13206320-I	***CAS** unrefined transom outline 4,4 m	1
13206325-I	***COVER anodized,** silver lid outline 4,4 m	1
13206345-I	**BRUSH14 Airtight brushes 14 mm**	1
13206350-I	**Batteries and recharger card**	1
13206355-I	**Single-ray safety photocell**	1
13206360-I	**Basic selector**	1
13206370-I	**JET** Microwave radar	2
13206335-I	**Sliding guide profile 7 m**	1
13206331-I	**Gear belt 10 m**	1

*The cut of the profile, cover and guide profile on request.

ACCESSORIES FOR WIND

CODE	NAME
13206320-I	**CAS** unrefined transom outline 4,4 m
13206325-I	**COVER** anodized, silver lid outline
13206345-I	**BRUSH14** Airtight brushes 14 mm (2,5 m)
13206350-I	**Power** including battery recharger and control card
13206355-I	**BL** Single-ray safety photocell
13206356-I	**BL2** Double –ray safety photocell
13206360-I	**KS** Basic logic selector
13206361-I	**KSP** Advanced logics selector
13206370-I	**JET** Microwave radar (for entrance up to 1,5 m)
13206375-I	**AVR** active infrared radar
13206366-I	**EB** Leaf blocking device with/ with out power supply
13206365-I	**ELB** Leaf blocking device with Allen-key manual release
13206367-I	**KBLOC** Kit 5 meter release cable
13206362-I	**KLICK** Device for connecting "Wind" series electronic cards to a PC with management software
13206326-I	**KTP** naturally anodized plugging outline Kit (4,4 m) + bracket*
13204005-I	**SE** emergency kit with CO48 elastic + 50m roll**
13216005-I	**SAFE** anodized anti panic kit for mobile wing
13216008-I	**SAFE PLUS** Kit anodized anti-panic device for small leaves
13216012-I	**SAFES Kit** anti panic kit for semi fixed wing
13216162-I	**KAV KIT** glass wing kit for 1 wing of 1600mm length 10mm glass thickness
12710280	**SECLS** security box for external release without cable***
12710290	**SECSONG** security box for external release SONG with button
13206340-I	**Rubber finishing touch for cover 2,5 m**
13206335-I	**Sliding guide profile 7 m**
13206331-I	**Gear belt 10 m**

*To be used with wings of less than 30mm thickness ** For French market
*** To be combined with 13206367-I

Silver 2 YEARS WARRANTY

- The WIND automatic door has been projected and produced for high performances of both light and heavy doors
- The extremely reduced overall dimensions make it elegant and suitable, improving the aesthetics of hotels' entrances, museums, hospitals, airports, shops, big shopping centers
- The micro processor electronic control unit verifies in time all the activities of the door: speed adjustment, pausing time adjustment, partial opening adjustment
- It can be interfaced with alarm and control systems. The reversing of the movement in case of impact guarantees the maximum safety against squeezing

TECHNICAL FEATURES:

Opening speed:
adjustable up to 70cm/sec (1 leaf) or up to 140 cm/sec. (2 leaves)

Closing speed:
70% of closing time

Maximum allowable payload:
1 leaf 120 Kg 2 leaves 80+80 Kg

Wing dimensions:
1 leaf 700÷3000 mm –2 leaves 450÷1500 mm

Working temperature:
Internal cross-piece from 0° C to +50°C

Anti-crushing:
Weight 8,5 Kg / linear meter

Use:
Intensive

Automation dimensions:
115 H X 180 W mm

Leaf width (mm) (mm) min.= 570	*SAFE	**SAFE PLUS
600	from 0 to 135 kg	
700	from 0 to 115 kg	
800	from 0 to 115 kg	
900	from 0 to 90 kg	from 50 to 125 kg
1000	from 0 to 80 kg	from 50 to 115 kg
1100	from 0 to 70 kg	from 50 to 110 kg
1200		from 50 to100 kg
1300		from 50 to 90 kg
1400		from 50 to 80 kg

Guide to the Product

Gate 1
FOR 1 SLIDING GATE, SWING GATE, BARRIER, SLIDING DOOR

pag. 85

Swing 2 Amp
FOR SWING OPERATORS WITH OR WITHOUT LIMIT SWITCH, RESIDENTIAL USE

pag. 85

Gate 1 DG
FOR 1 SLIDING GATE, SWING GATE, BARRIER, SLIDING DOOR.

pag. 86

Gate 2 DG
FOR 2 SLINDING GATES, SWING GATES,BARRIERS SLIDING DOORS CONDOMINIUM USE

pag. 86

User 1 24V DG
FOR 1 BARRIER OR SLIDING GATE, GARAGE DOOR

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User 2 24V DG
FOR 2 SWING GATES

pag. 87

SEA 380 DG trifase
FOR 1 SLIDING GATE 380V

pag. 88

Gate 1

CONTROL UNITS FOR ONE 230V MOTORS

- Management of one 230 Vac motor with or without limit switch
- Pedestrian opening
- Automatic logic (4 modalities), semiautomatic
- Slow down in opening and closing
- Motor couple adjustment
- Self-learning operating times
- Auto-test on photocells
- Auto-diagnostic
- Encoder management (also Safety Gate for swing gates)
- Diagnostic Leds on all outputs/inputs
- Extractable connectors
- Integrated radio decoding compatible with RF UNI receivers max 30 users fix code or 800 users rolling code
- Programming through palm
- Working time
- Pedestrian opening time
- SAFETY GATE (encoder) sensitivity
- N° cycles for assistance
- PUSH-OVER function administration
- AUX output administration
- Automatic closing with photocells crossing Administration

CODE	NAME	QX (PCS)	QX1 (PCS)	QX2 (PCS)
23001120	GATE 1 with box BL	10	20	50
23106230	MICRO Gate 1 dead man function	-	-	-

Swing 2 Amp

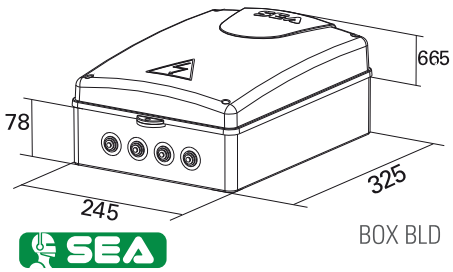
230V CONTROL UNIT FOR SWING GATES WITHOUT LIMIT SWITCH

Amperometric

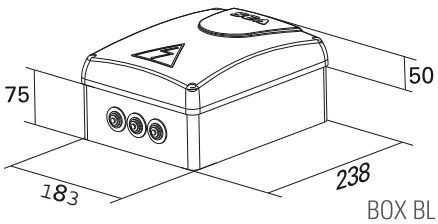
NEW

- Management of two 230Vac motors without limit switches
- Automatic, semi-automatic, safety automatic and semi-automatic
- Slowdown in opening and closing
- Motors torque adjustment
- Operation time self-learning
- Photocell auto-test
- Auto-diagnostic
- Automatic closing management with crossing of the photocell
- Timed courtesy light
- Electro-lock management
- Diagnostic leds on all in/outputs
- Extractible terminal
- Incorporated radio decoding for RF UNI (max. 30 users fixed code or 800 users with rolling code)
- Pedestrian opening
- Amperometric reversing on obstacle (electromechanical operators) on request
- Amperometric reversing on obstacle (electromechanical operators) on request
- Programming through PALM
- Operation time
- Leaf delay
- Numbers of maneuver for assistance
- PUSH-OVER function management
- Photocell in opening management

CODE	NAME	QX (PCS)	QX1 (PCS)	QX2 (PCS)
23021093	SWING 2 Amp with box BL , amperometric reversing on obstacle for eletromechanical operators	20	35	100



BOX BLD



BOX BL

CODE	NAME
23105350	BL Small box
23105355	BLD Big box

Gate 1 DG

CONTROL UNIT FOR ONE MOTOR
DIGITAL PROGRAMMING

*Available on 2013

- Management of one 230V motor
- Adjustable slowdown in opening and closing
- Adjustable pedestrian opening
- Led warning lamp
- Connector for radio RF receiver
- Working time self-learning
- Encoder management
- Simplified programming with buttons and display
- Inversion on obstacle with encoder
- Balanced or standard safety edge management
- Differentiated torque adjustment for opening and closing
- Programming through JOLLY
- Automatic, security and step by step type 1, step by step type 2, 2 buttons, dead-man logics
- Motor inversion and limit switch (right/left hand mounting)
- Automatic closing adjustment
- Start in pause adjustment
- Prepared for Master/Slave function
- Adjustable courtesy light output up to 4 minutes
- Number of performances for assistance
- Settable photocell inputs
- Extractable terminals
- Photocell self-test

...and many other functions

Gate 2 DG

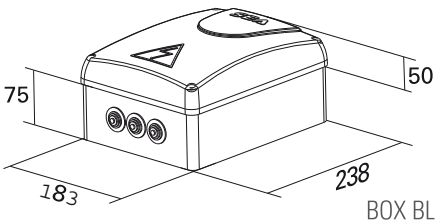
CONTROL UNITS FOR TWO MOTORS
DIGITAL PROGRAMMING

CODE	NAME	QX	QX1	QX2
23001129	GATE 2 ROLL with box BLD (Until supply lasts)	20	35	100
23023025	GATE 2 DG with box BLD and digital programming	20	35	100
23021100	SEM traffic ligth card for GATE 2 DG			

- Management of two 230 Vac motors with or without limit switch
- Adjustable pedestrian opening
- Automatic logic (6 modes), half-automatic (6 modes), dead-man, open and close logic
- Adjustable slowdown in opening and closing for each leaf and direction
- Adjustable motor torque for each leaf and direction
- Working times self-learning
- Photocells self-test
- Self-diagnostics
- Settable photocells inputs
- Adjustable courtesy light output up to 4 minutes
- Electro-lock management
- Led warning lamp
- Extractable terminals
- Connector for RF radio receiver
- Encoder/Amperometric sensitivity adjustment (for electromechanical operators)
- Programming through JOLLY
- Working time adjustable for each leaf and for opening and closing
- Leaf delay differentiated for opening and closing
- Number of performances for assistance
- PUSH-OVER function management with optional periodical push over
- 24V Aux output management
- Safety edge management in opening and closing
- Leaf stroke
- Optional external module for traffic light management

...and many other functions

BOX BLD



BOX BL

CODE	NAME
23105350	BL small box
23105355	BLD big box

User 1 24V DG

24V LOW VOLTAGE FOR SLIDING GATES AND BARRIERS
DIGITAL PROGRAMMING

CODE	NAME
Spare parts list	USER 1 24V DG without box (for spare parts)
23001220	KIT MASTER SLAVE for USER 1 24V DG

- Management of one 24V motor
- Adjustable slowdown in opening and closing
- Motor speed adjustment
- Adjustable pedestrian opening
- 24V Led warning lamp
- Emergency battery management through optional battery charging card
- Connector for RF radio receiver
- Working times self-learning
- Encoder management (only for CORONA)
- Simplified programming through buttons and display
- Programming through Jolly
- Adjustable ammeter type inversion on obstacle
- Photocells self-test
- **Balanced or standard safety edge management**
- Extractable terminals
- Differentiated torque adjustment for opening and closing
- Slowdown speed adjustment
- Automatic, security and step by step type 1, step by step type 2, 2 buttons, dead-man logics
- Motor inversion and limit switch (right/left hand mounting)
- Automatic closing setting
- Start in pause setting
- **Prepared for Master/Slave function**
- Low consumption in standby-by
- Adjustable courtesy light output up to 4 minutes
- Number of performances for assistance
- Settable photocell inputs

...and many other functions

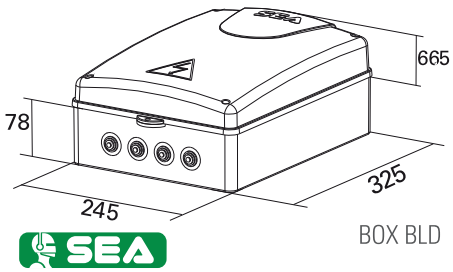
User 2 24V DG

C24V LOW VOLTAGE FOR FOR SWING GATES.
DIGITAL PROGRAMMING

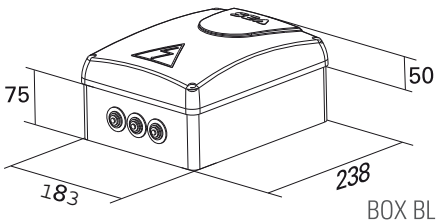
CODE	NAME
23024080	USER 2-24V HYDRO DG with box BLD and digital programming
23024025	USER 2-24V DG (for ALPHA/FIELD/SURF) with dispaly and box
23024030	USER 2-24V DG (for BETA) with dispaly and box
23021100	SEM Traffic lights card for USER 2 DG

- Management of two 24V motors
- **Adjustable slowdown in opening and closing**
- **Separate motors speed adjustment for each leaf**
- Adjustable pedestrian opening
- 24V Led warning lamp
- Electro-lock management
- Emergency battery management through optional battery charging card
- Working times self-learning
- Connector for RF radio receiver
- Prepared for encoder management
- Simplified programming through buttons and display
- Programming through Jolly
- Photocells self-test
- Adjustable ammeter type inversion on obstacle
- **Balanced or standard safety edge management**
- Extractable terminals
- **Differentiated torque adjustment for each leaf and for opening and closing**
- **Leaf delay adjustment differentiated between opening and closing**
- Dead-man, automatic, security, step by step type1, step by step type 2, half-automatic1, half-automatic 2.
- Adjustable courtesy light output up to 4 minutes
- Number of performances for assistance
- Settable photocells inputs
- Low consumption in standby-by
- Push over
- Leaf stroke
- Optional external module for traffic light management

...and many other functions



BOX BLD



BOX BL

CODE	NAME
23105350	BL small box
23105355	BLD big box

SEA 380 DG Three-phase

CONTROL UNIT FOR 380V MOTORS

DIGITAL PROGRAMMING

- Management of one 380V motor with limit switch
- 4 relays programmable with 28 functions
- Rotational direction detection
- Additional programming of the access position
- Position adjustment through limit switch
- Integrated cycle counter
- Optional extractable display with 3 buttons
- Condition and diagnostic message
- Max. transformer capacity 350mA accessories
- Low tension protection
- Protection lid with integrated hinge

CODE	NAME
23021022	**SEA 380 DG three-phase** with box
23101130	**Extractable display for control unit SEA 380 DG Three-phase**

Extractable display obbligatory, to use only during the 1 programming

Jolly

PROGRAMMER FOR CONTROL UNIT DG SERIES

CODE	NAME
23105276	**JOLLY**

- Self-learning time adjustment
- Deceleration and acceleration ramp adjustment
- Photocell auto-test activation
- Warning light activation
- Anti-intrusion activation
- Inversion stroke activation
- Linear modification of speed, torque and other parameters
- Cycle number signalisation and adjustment
- Pre-flashing activation
- Photocell in opening activation
- BUS photocell control
- Pedestrian opening adjustment
- Possibility to start the programming of the control unit without using the buttons on the control unit
- Possibility to adjust all parameters (pause, leaf delay, speed, slowdown speed, torque etc.) linearly and without using the buttons on the control unit.
- Possibility to adjust the torque differentiating it for single motor and for movement direction (different between opening and closing)
- Possibility to transform the PHOTO and PEDESTRIAN inputs into TIMER inputs
- Possibility to activate the reclosing with photocells “PhotoClose” function.
- Possibility to deactivate the electro- lock
- Possibility to change the flashing lamp output into continuous flashing or into warning light
- Possibility to visualise the last ten events occurred on the control unit
- Possibility to select the motor type, the type of leaf and the type of logic, without using the buttons of the control unit
- Possibility to choose the language from Italian, French, English and Spanish

INPUTS/OUTPUTS CLAMPS	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Start	•	•	•	•
Pedestrian star	•	•	•	•
Stop	•	•	•	•
M1 limit switch in opening	precabled with AMP	•	precabled with AMP	•
M1 limit switch in closing	precabled with AMP	•	precablaed with AMP	•
M2 limit switch in opening		•		•
M2 limit switch in closing		•		•
Photocells in opening	•	•	•	•
Photocells in closing	•	•	•	•
24V 500 mA max output	•	•		
24V Vac 500 mA max output				•
24V Vac 300 mA max output			•	
24V Aux 300 mA config. coutput	•	•	•	•
24V tX photocell (autotest) output	•	•	•	•
24V 3W max. control lamp	•	•	•	•
12V 15VA max. electro- lock output	c.s.r.	•	c.s.r.	•
Motor 1 (m1) output	•	•	•	•
Motor 2 (m2) output		•		•
230V 100W max. courtesy light			•	•
24V 100mA courtesy led light	•	•	•	•
24V 15W max. warning lamp	•	•	•	•
230V 50W max. warning lamp			with flashing card	with flashing card
24V 4W led warning lamp	•	•	•	•
Capacitor M1 output			•	•
Capacitor M2 output				•
230V 50/60hz power supply input			•	•
Antenna input	•	•	•	•
Encoder 1 input	only Corona	•	•	•
Encoder 2 input		•		•
24dc battery charge input	•	•		
External transformer input	•	•		
Safety edge (impost. 8k2)	•	•	•	double access
Socket for radio frequency module (RF)	•	•	•	•
Display terminal connector	•	•	•	•
Connector for control unit re-programming	•	•	•	•
Expansion cards for traffic-light output		•		•
Alarm signalisation on warning lamp	•	•	•	•

c.s.r.= with external relay card

Control units

ADJUSTABLE PARAMETERS ON DISPLAY WITH UP AND DOWN BUTTONS	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Motor type choice	•	•	•	•
Working logics choice	•	•	•	•
Aux. input configuration choice	•	•	•	•
Pausing time adjustment	•	•	•	•
Leaf delay exclusion	•			•
Pre-flashing activation	•	•	•	•
Automatic reclosing activation	•	•	•	•
Photocell auto-test activation	•	•	•	•
Encoder activation	•	•	•	•
Slow-down activation	•	•	•	•
Adjustable acceleration ramp	•	•	•	•
Adjustable deceleration ramp	•	•	•	•
Push over activation and management	•	•	•	•
Inversion stroke activation		•		•
Photcell input management (stop, park, close...)	•	•	•	•
Leaf delay adjustment		•		•
Start activation in pause	•	•	•	•
Closing direction	•	•	•	•
Timer function	•	•	•	•
Courtesy light timing	•	•	•	•
Motor torque adjustment for single leaf and direction	•	•	•	•
Working time adjustment			•	•
Anti-crushing sensitivity adjustment	•	•	•	•
Speed adjustment	•	•		
Slowdown speed adjustment	•	•		
Number of cycles setting	•	•	•	•
Cycles number display	•	•	•	•
Inertia recover	•	•	•	•
Antiintrusion alarm	•	•	•	•
Last 10 events diagnostic	•	•	•	•
Reversing after limit switch	•	•	•	•
Parameter blocking password insertion	•	•	•	•
Electrolock release timing		•		•
TX programming	•	•	•	•
Pedestrian pause adjustment	•	•	•	•
Pedestrian opening adjustment	•	•	•	•
Times selflearning	•	•	•	•

OPERATION LOGICS	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Automatic	•	•	•	•
2 Buttons (open and close)	•	•	•	•
Dead man	•	•	•	•
Safety	•	•	•	•
Step by step type 1	•	•	•	•
Step by step type 2	•	•	•	•

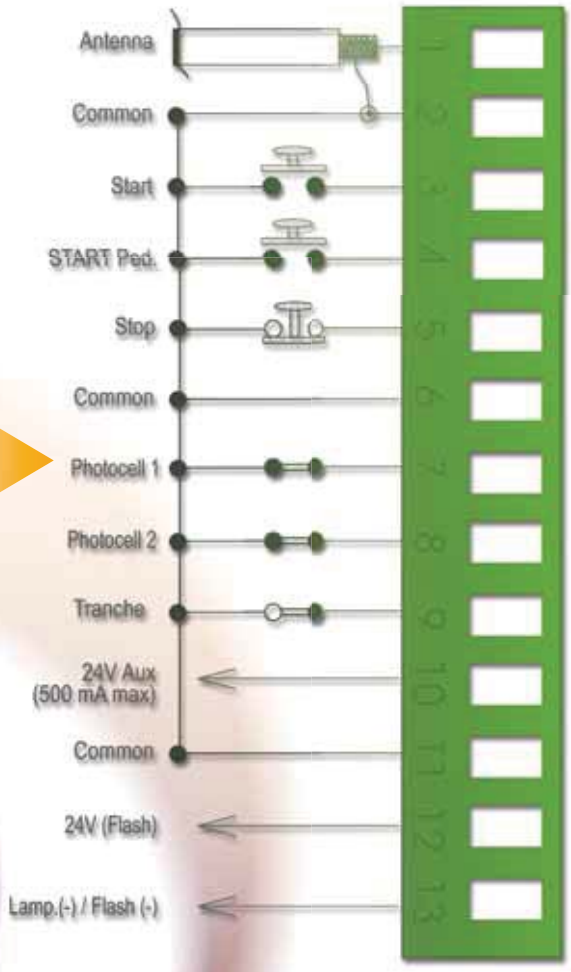
N.B: All logics can accept or not the start in pause and can be automatic and semi-automatic

PROGRAMMING MODE	USER 1 - 24V DG	USER 2 - 24V DG	GATE 1 DG	GATE 2 DG
Selflearning with limit switch	•	•	•	•
Selflearning without limit switch	•	•		•
Single and double leaf		•		•
With Encoder	on Corona	•	•	•
Modify times on display			•	•
With impulse on the stops			•	•

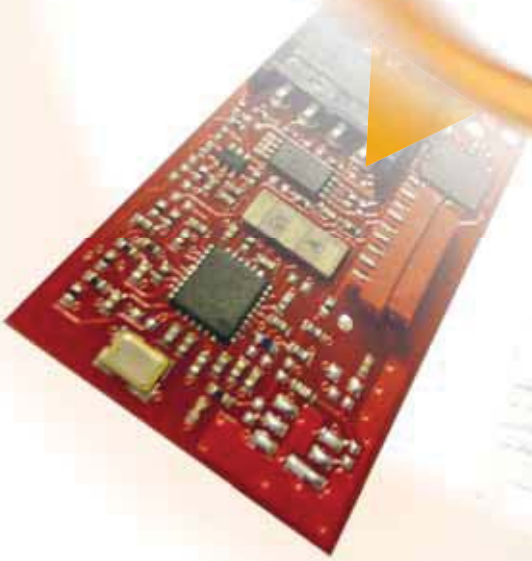
New digital control units

Advantages

STANDARDIZED INPUTS WITH THE SAME NUMBER



Standardized programming through LCD dispaly



Universal radio module compatible with fixed code or Rolling Code Plus Transmitters

Firmware upgrading through download

JOLLY
Standardized programmer

NEWS

On board LCD display allowing to set and to visualize all the functions in a simple way
Standardized programming same for all digital control units

STANDARDIZED PROGRAMMING

USER 2 24V DG

New control unit for the management of two 24V swing gates motors with or without limit switch

USER 1 24V DG

New control unit for the management of one 24V motor with or without limit switch

GATE 1 DG

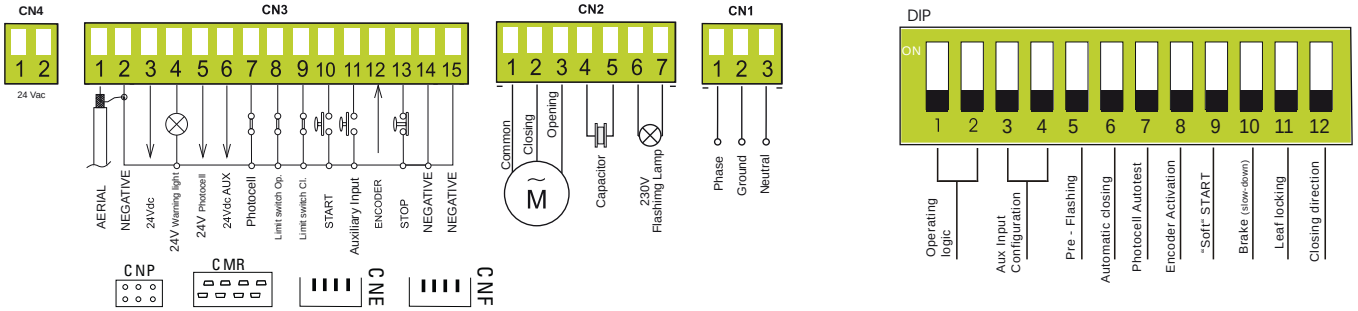
New control unit for the management of one 230 Vac motor with or without limit switch

GATE 2 DG

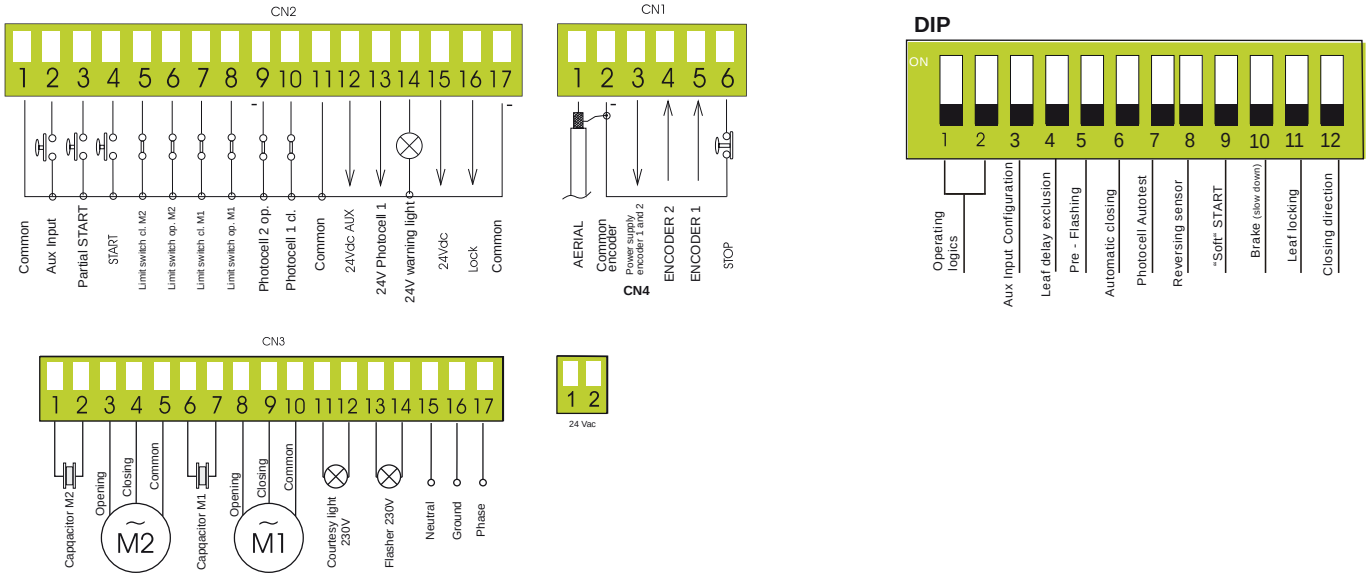
New control unit for the management of two 230 Vac swing gates motors with or without limit switch

Connections

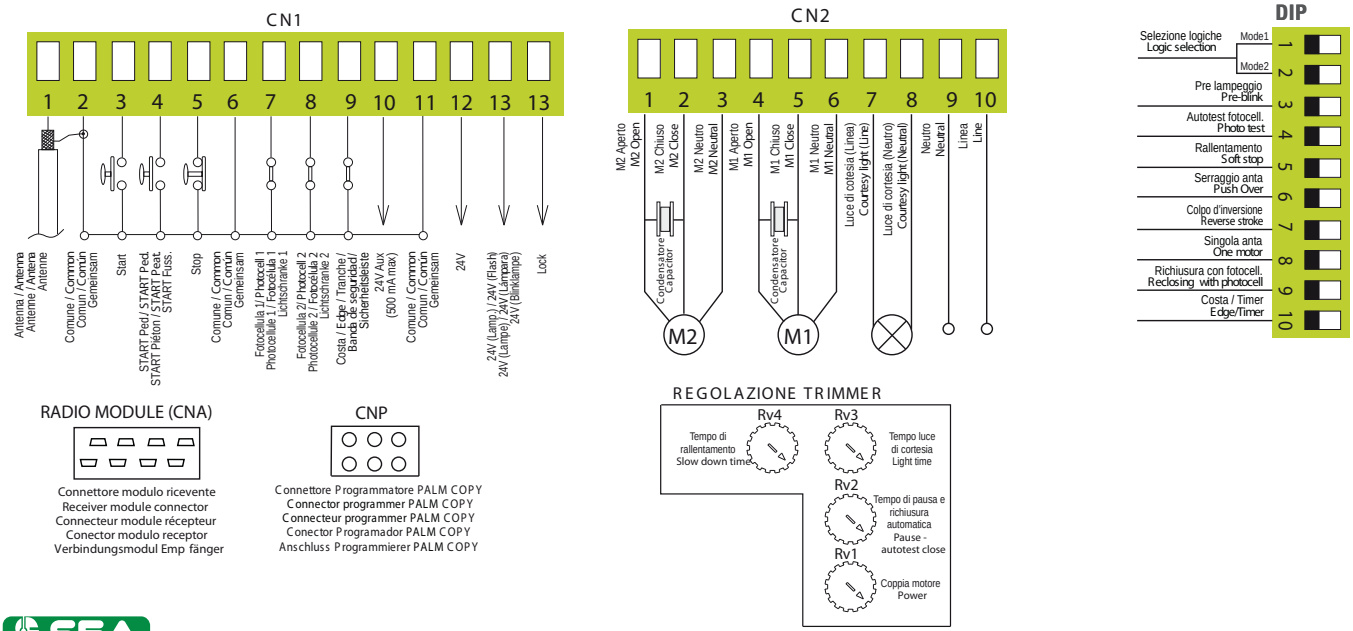
GATE 1



GATE 2



SWING 2 AMP



RADIO MODULE (CNA)

Connettore modulo ricevente
Receiver module connector
Connecteur module récepteur
Conector modulo receptor
Verbindungsmodul Emp fänger

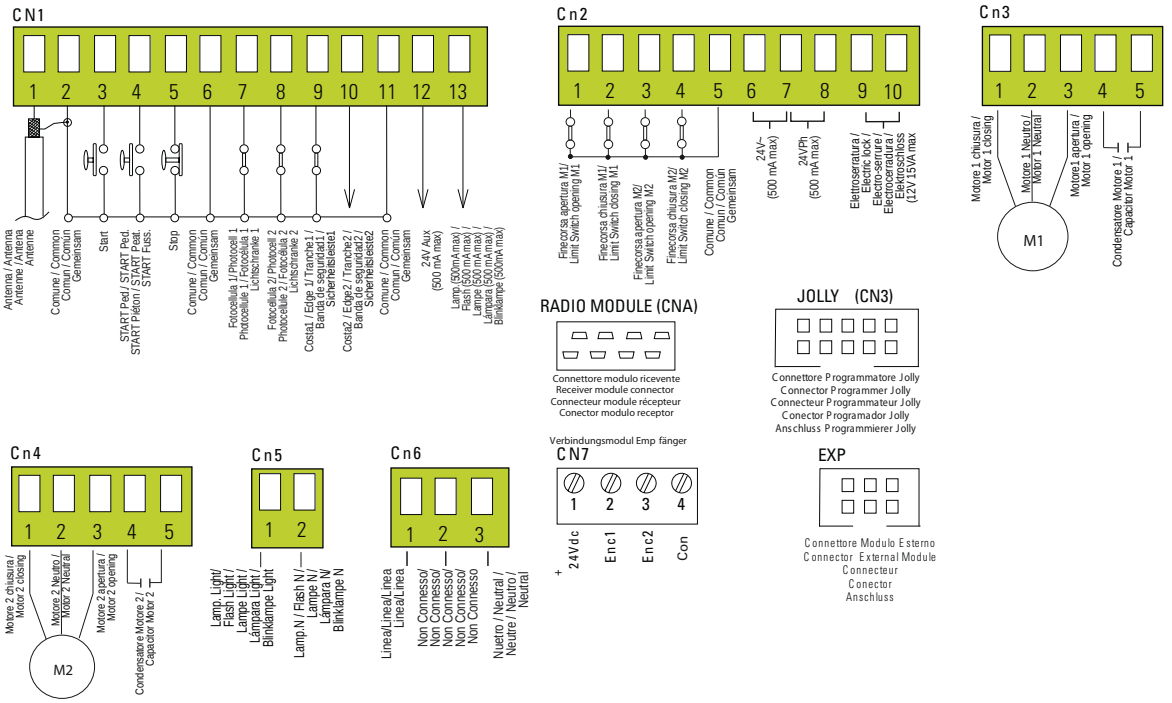
CNP

Connettore Programmatore PALM COPY
Connector programmer PALM COPY
Connecteur programmer PALM COPY
Conector Programador PALM COPY
Anschluss Programmierer PALM COPY

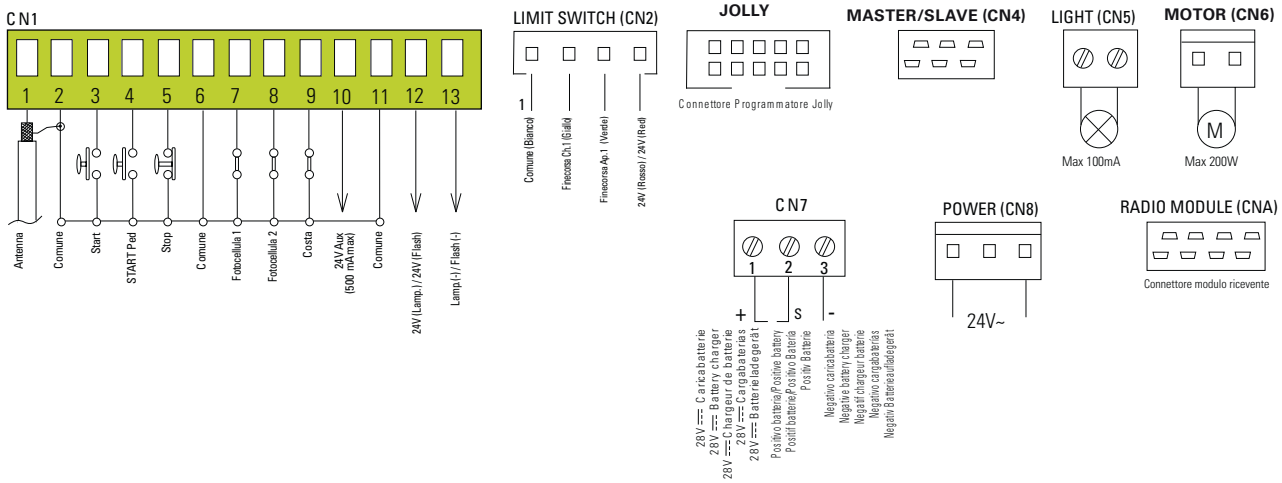
REGOLAZIONE TRIMMER

Connections

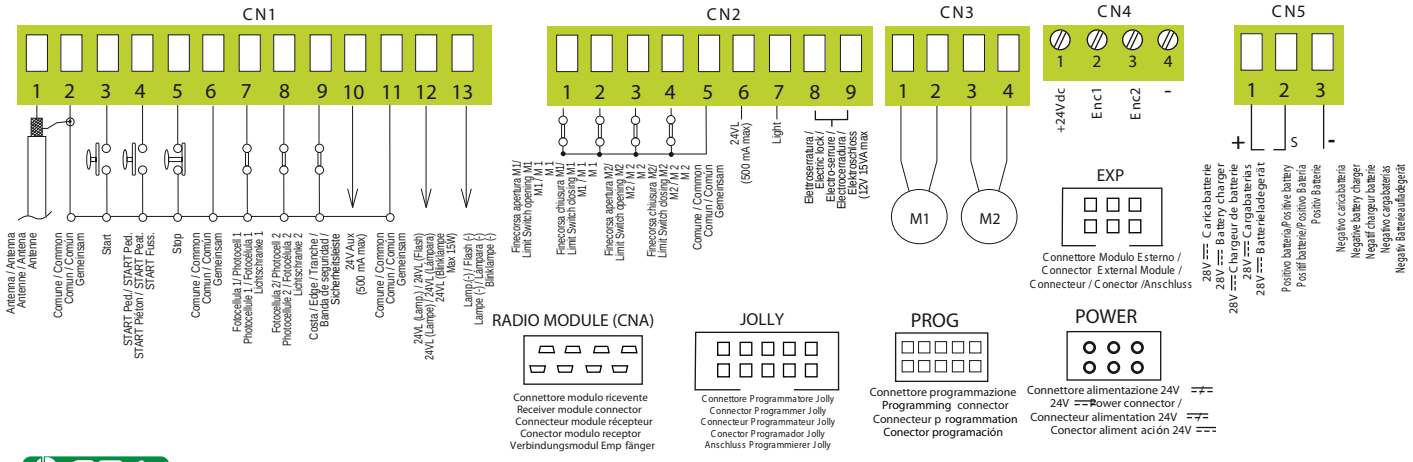
GATE 2 DG



USER 1 - 24V DG



USER 2 - 24V DG



Kit Sunny

Solar Panel

SUNNY

To be used on plants with very low number of cycles or with electricity network as a second energy source

SUPER SUNNY

In some cases and for residential use it allows to powering the installation completely autonomously (no grid). The energetic efficiency of the system depends on the daily number of cycles, on its geographic position and on the connected accessories, therefore a complete autonomy of the installation is not guaranteed.

NEW

The solar panel kit comes with a new 10A max battery charger with MPPT technology optimizing the performance of the photovoltaic panel and the recharging efficiency.

MPPT: MAXIMUM POWER POINT TRACKING
Recharging adjusters allow to constantly manage and to exploit the max power point, delivered by the photovoltaic panel according to the solar radiation to which it is exposed.

CODE	NAME
23106370	**KIT SUNNY DC** (for control unit USER 24V)
23106375	**KIT SUPER SUNNY DC** (for control unit USER 24V)

KIT SUPER SUNNY: Strengthend with MPPT technology version to optimize the solar panel and batteries charge batterie

NATURE FRIENDLY kit Sunny compatible

TECHNICAL DATA KIT SUNNY
Photovoltaic panel

- Nominal tension: 24V
- Max. power: 20Wp
- Size: 550 x 350 x 25 mm
- Weight: 2 Kg

Battery

- Nominal tension: 24V
- Max. current charge: 1A
- Battery capacity: 12Ah
- Size: 250 x 355 x 150 mm

PACKAGE
KIT SUNNY

N. 1 photovoltaic panel 24V - 20Wp
N. 2 batteries
N. 1 charge batteries ESUN
N. 1 Mounting accessories kit

TECHNICAL DATA KIT SUPER SUNNY
Photovoltaic panel

- Nominal tension: 24V
- Potenza max: 40Wp(*)
- Size: 665X537X35 mm
- Weight: 4 Kg

Battery

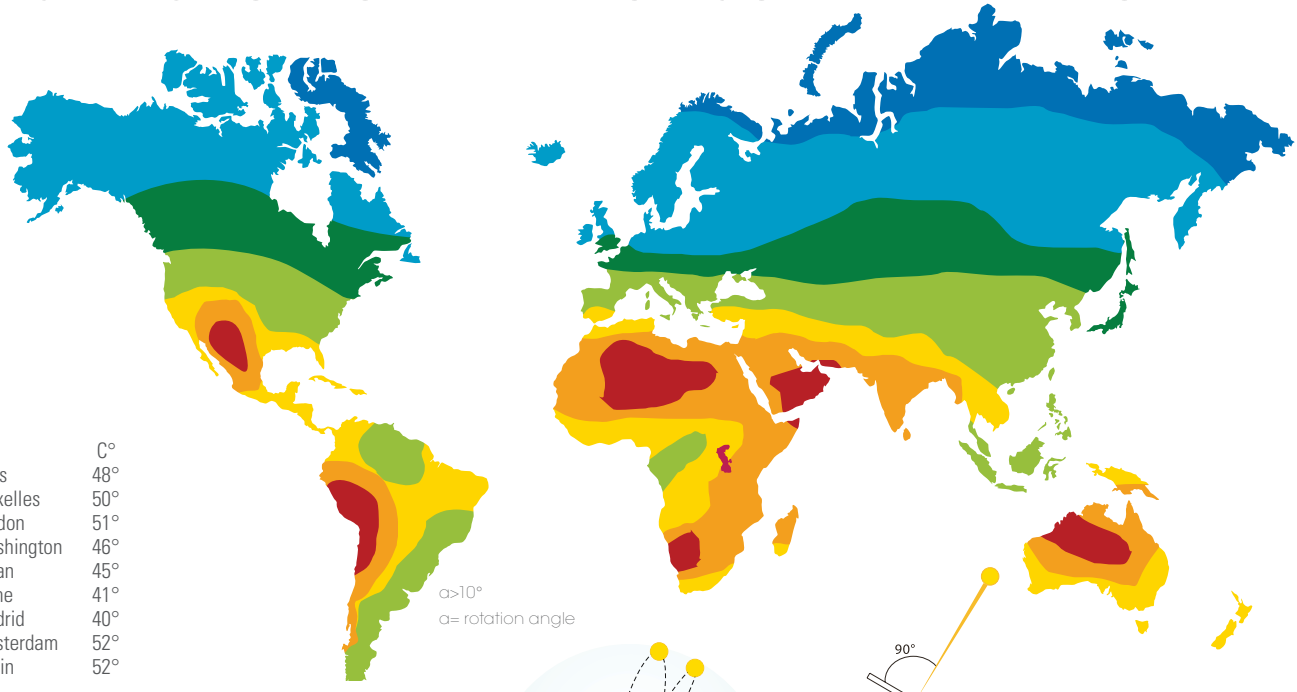
- Nominal tension: 24V
- Max. current charge: 10A
- Battery capacity: 18Ah(*)
- Size: 330x220x180 mm

PACKAGE
KIT SUPER SUNNY

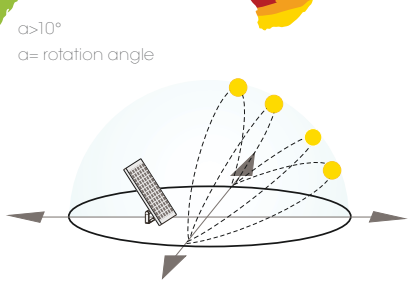
N. 1 photovoltaic panel 24V - 40Wp
N. 2 batteries
N. 1 charge batteries ESUN
N. 1 Mounting accessories kit

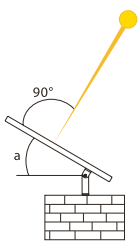
(*)on request more capacity

DISTRIBUTION OF AVERAGE SOLAR RADIATION



City	C°
Paris	48°
Bruxelles	50°
London	51°
Washington	46°
Milan	45°
Rome	41°
Madrid	40°
Amsterdam	52°
Berlin	52°





UNI Universal Receivers

COMPATIBLE WITH ROLLING CODE 800 USER OR 30 USER FIXED CODE

ASTER RF ROLL PLUS

ROCK RF ROLL PLUS
ROCK RF

COCCINELLA COPY

COCCINELLA ROLL PLUS

SMART DUAL COPY

SMART DUAL ROLL PLUS

HEAD DIP

HEAD ROLL Only with fixed code

HEAD ROLL Rolling Code Plus Code

SQUARE ROBOT

Rolling code not programmable with OPEN

UNI series receivers are also compatible with old transmitter models which are out of production:

- SMART ROLL 433/868 MHz (battery 3V)
- SMART DIP 433/868 MHz (battery 3V)
- SMART E-COPY 433 MHz (battery 3V)
- COCCINELLA DIP 433 MHz
- CODE RF (keypad)
- KEY RF (Built-in key switch)

PLUS
system

Plus System

MANAGEMENT, REMOTE PROGRAMMING AND CUSTOMIZATION OF THE INSTALLATION

System designed by SEA to offer multiple benefits to both the installer and the user of automatic installations.

The system consists out of the OPEN PLUS interface, the SP40 PLUS software or PCU software (only for distributers), the COCCINELLA ROLL PLUS or SMART DUAL ROLL PLUS transmitter and out of the SIGNAL BOX UNI or RF UNI, FLEX UNI, RADIODEC ROLLPLUS receiver.

Elements guaranteeing the remote management and programming and a high level customization of the installation.

PROGRAMMER + SOFTWARE + TRANSMITTERS+ RECEIVERS

COCCINELLA ROLL PLUS

TRANSMITTER

- 2 or 4 ch. version - Rolling Code
- 433 -868 MHz Frequencies
- 12V alkaline battery
- Signalisation led
- Silicon buttons pleasant to touch
- Customizable for customers
- Programmable with PC or Master TX
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible
- MASTER function (COCCINELLA MASTER) Allows the customization of installations with customized installer code

SMART DUAL ROLL

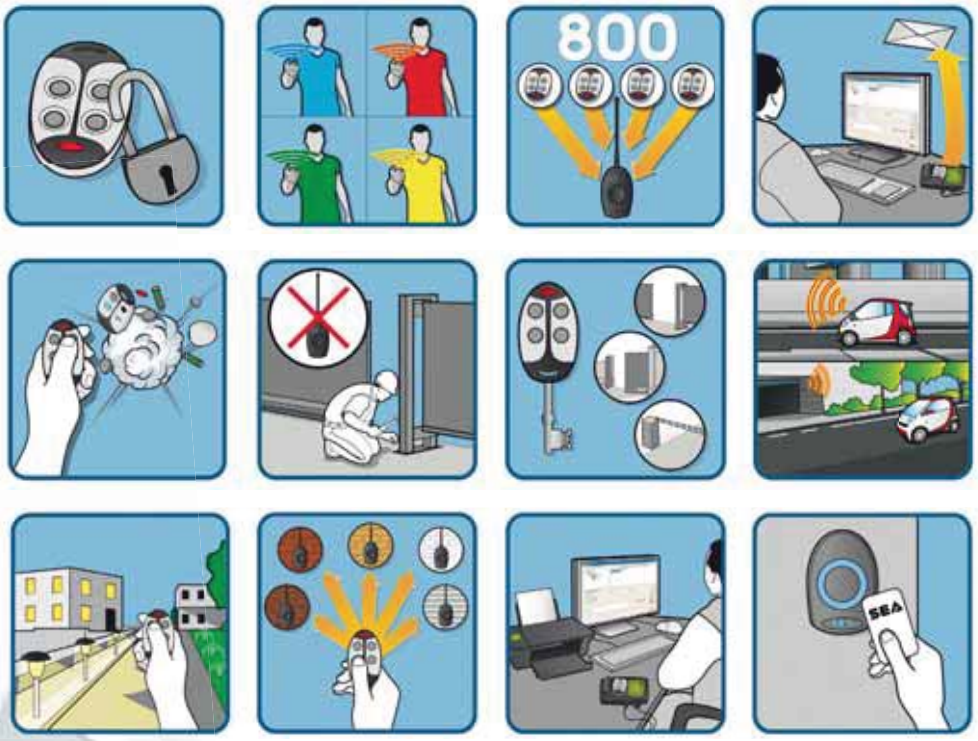
TRANSMITTER

- Silicon buttons pleasant to touch
- 433 -868 MHz Frequencies
- Easily replaceable battery 6V(2x3)
- Signalisation led
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible
- Programmable on PC or TX master

RF UNI

RECEIVER

- Tow channel receiver with narrow band 800 CODES (ROLL PLUS) or 30 users others TX versions
- 433 -868 MHz frequencies
- Simple and intuitive programming of the transmitters
- Compatible with all SEA transmitters (except of FM)
- Programmable with PC or Master TX
- Installation data management through OPEN PLUS systems



SIGNAL BOX UNI

RECEIVER

- Receiver with narrow band 800 CODES (ROLL PLUS) or 30 users other TX versions
- 433 -868 MHz Frequencies
- Simple and intuitive programming of the transmitters
- Compatible with all SEA transmitters (except of FM)
- Integrated Antenna
- **IP 55** Protection class
- Installation data management through OPEN PLUS systems
- Available in 2 or 4 ch

OPEN PLUS

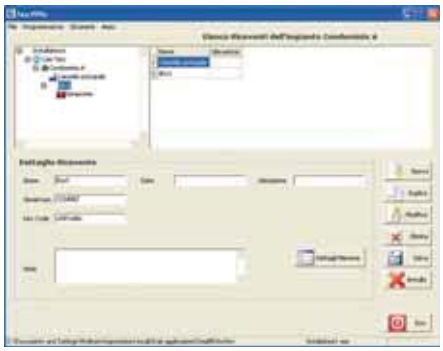
PROGRAMMER TRANSMITTERS

- Radio transmitters programming and management (Rolling code)
  COCCINELLA ROLL PLUS
  SMART DUAL ROLL PLUS
- Receiver programming and management
  SIGNAL BOX UNI - RF UNI,
  ASTER RF ROLL PLUS,
  ROCK RF ROLL PLUS
  (Rolling Code)
- Installation files management
- USB connection interface

RECEIVER PROGRAMMING DEVICE

- Add, delete, control, activate and deactivate codes
- Multiple insertion of codes
- Remote management on PC
- Compatible with rolling code PLUS transmitters and receivers

SOFTWARE



SP 40 PLUS SOFTWARE

- COCCINELLA **ROLL PLUS - SMART DUAL ROLL PLUS TRANSMITTERS**
  programming and management
- **SIGNAL BOX UNI**
  RF UNI
  FLEX UNI
  programming and management
- Installer files management
- Installations files management

COCCINELLA Roll Plus

433 - 868 MHZ FREQUENCIES
BILLIONS OF COMBINATIONS

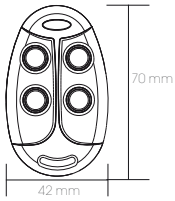
- 433 -868 MHz Frequencies
- Rolling Code 72 bit
- Hidden remote learning button
- Versione 2 o 4 acanli
- 12V alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation led
- Silicon buttons pleasant to touch
- Version to be combined with a UNI receiver (SIGNAL BOX UNI, RF UNI, FLEX UNI)

note: wings ladybird just for TX 4ch

433 Mhz 868 Mhz

TX MASTER (*)
To program a new transmitter with personalized installer code.
Universal for both 433 and 868 MHz

New transmitter with refined design shiny plastic wings with carbon effect



CODE	NAME	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23110650	**COCCINELLA MASTER PLUS***	100	500	1000
23110472	**COCCINELLA ROLL PLUS 2 channels-433 Mhz** (10 pcs)	100	500	1000
23110477	**COCCINELLA ROLL PLUS 4 channels-433 Mhz** (10 pcs)	100	500	1000
23110483	**COCCINELLA ROLL PLUS 2 channels-868 Mhz** (10 pcs)	100	500	1000
23110488	**COCCINELLA ROLL PLUS 4 channels-868 Mhz** (10 pcs)	100	500	1000
23110473	**COCCINELLA ROLL PLUS Carbon Look 4ch 433 Mhz** (10 pcs)	100	500	1000
23110478	**COCCINELLA ROLL PLUS Carbon Look 4ch 868 Mhz** (10 pcs)	100	500	1000
23110497	**COCCINELLA ROLL PLUS Root 4ch 433 Mhz** (10 pcs)	100	500	1000
23110498	**COCCINELLA ROLL PLUS Root 4ch 868 Mhz** (10 pcs)	100	500	1000
23110468	**FIX support COCCINELLA**	-	-	-

COCCINELLA FIXATION SUPPORT

54701200 BLUE **54701200 YELLOW** **54701200 GREY** **54701200 RED** **54701200 GREEN** **54701200 ORANGE** **54701200 DARK BLUE**	**COVER WINGS** **COCCINELLA TRANSMITTER** 4 channels personalized colour (min. lot 50 pairs) for 50 TX (50 wings DX+50 wings SX)	-	-	-

ANT433C Antenna 433 MHz adjustable with bracket and cable

CODE	NAME	QX1 (PCS)	QX2 (PCS)
23101070	**ANT433 Antenna 433 MHz** adjustable with bracket	30	60
54705250	**CABLE58** Cable RG 58 5 m	-	-
23101030	**ANT433C Antenna 433 MHz** adjustable with bracket and cable	30	60

ANT433 Antenna 433 MHz adjustable with bracket

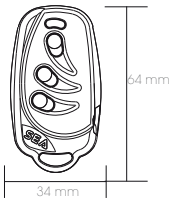
Smart Dual Roll Plus

AVAILABLE IN 433 AND 868 MHZ FREQUENCIES
BILLIONS OF COMBINATIONS

2 Channels

3 Channels

- Solid and compact radio transmitter
- LED signal
- Versions with 2 or 3 channels
- Silicon buttons pleasant to touch
- Available in 433 and 868 MHz frequencies
- Version with Rolling Code 72 bit codification
- Easily replaceable battery 6V(2x3)
- Remote programming through buttons combination RF UNI - SIGNAL BOX UNI FLEX UNI,RADIODEC PROX ROLL PLUS
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible
- Programmable through cable with OPEN for codes serialization
- Version to be combined with a UNI receiver (SIGNAL BOX UNI, RF UNI, FLEX UNI)



CODE	NAME	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23110571	**SMART DUAL ROLL PLUS 2 channels 433Mhz** (10 pcs)	100	500	1000
23110576	**SMART DUAL ROLL PLUS 3 channels 433Mhz** (10 pcs)	100	500	1000
23110591	**SMART DUAL ROLL PLUS 2 channels 868Mhz** (10 pcs)	100	500	1000
23110596	**SMART DUAL ROLL PLUS 3 channels 868Mhz** (10 pcs)	100	500	1000

ANT433C Antenna 433 MHz adjustable with bracket and cable

ANT433 Antenna 433 MHz adjustable with bracket

CODE	NAME	QX1 (PCS)	QX2 (PCS)
23101070	**ANT433 Antenna 433 MHz** adjustable with bracket	30	60
54705250	**CABLE58** Cable RG 58 5 m	-	-
23101030	**ANT433C Antenna 433 MHz** adjustable with bracket and cable	30	60

Universal Receivers
433 or 868 MHz

COMPATIBLE WITH FIXED CODE OR ROLLING CODE PLUS TRANSMITTERS

NEW

RF UNI 433 or 868 Mhz

- Plug-in receiver narrow band
- 800 codes for ROLL PLUS series transmitters and 30 codesfor transmitters with fixed code
- Radio module to be combined with control units of GATE and USER series
- 433 Mhz and 868 Mhz available frequencies
- Programmable and manageable through PC

CODE	NAME	QX (PCS)	QX1 (PCS)
23120540	**RF UNI 433 Mhz**	30	60
23120545	**RF UNI 868Mhz**	30	60

SIGNAL BOX UNI 433 or 868 MHz

- Narrow band receiver (super-heterodyne)
- 800 codes for ROLL PLUS series transmitters and 30 codes for transmitters with fixed code
- 433 MHz and 868 MHz available frequencies with RF UNI **(internal RF UNI extractable)**
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and/or temporized mode
- Compatible with all SEA fixed code or rolling code transmitters
- Possibility to make copies of the memory (all transmitters types) and to manage installation data, through OPEN PLUS system (only for Roll Plus series transmitters).
- Integrated antenna
- IP 55 protection class
- 2 and 4 channels available versions
- 12/24V AC/DC power supply
- Management also through OPEN programmer
- Size: 108x68x40mm (antenna not included)

CODE	NAME	QX (PCS)	QX1 (PCS)
23120550	**SIGNAL BOX UNI with antenna 433 MHz 2ch**	30	60
23120555	**SIGNAL BOX UNI with antenna 868 MHz 2 ch**	30	60
23120522	**SIGNAL BOX UNI with antenna 433 MHz 4ch**	30	60
23120527	**SIGNAL BOX UNI with antenna 868 MHz 4ch**	30	60
12710315	**SUPPORTO FIX for SIGNAL BOX UNI**		

FLEX UNI 433 or 868 MHz

- Two-channel narrow band (super-heterodyne) receiver
- 800 codes for ROLL PLUS series transmitters and 30 codes for transmitters with fixed code
- 433 MHz and 868 MHz available frequencies with RF UNI **(internal RF UNI extractable)**
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and/or temporized mode
- Programmable and manageable through PC (only for ROLL PLUS transmitters management)
- IP44 protection class (internal use)
- 12/24V AC/DC power supply
- Management also through OPEN programmer
- Size: 84 x 43 x 33 mm

CODE	NAME	QX (PCS)	QX1 (PCS)
23120431	**FLEX UNI 433 Mhz**	30	60
23120432	**FLEX UNI 868 Mhz**	30	60

Programmer with software

DG control units

OPEN PLUS

- Programmer for COCCINELLA ROLL PLUS and SMART DUAL ROLL PLUS, ASTER RF ROLL PLUS, ROCKRF ROLL PLUS transmitters
- Radio transmitters programming and management (only for transmitters of ROLL PLUS series)
- Universal receivers programming and management
- Installer files management
- Installation files management
- External module for traffic-light management
- USB connection interface
- SW control unit updating through WEB

CODE	NAME	QX (PCS)	QX1 (PCS)
23105293	**OPEN PLUS** programmer for transmitters	30	60
23105292	**OPEN** with GPRS for installation's remote controlling	30	60
23105291	**OPEN Bluetooth**	30	60
54710017	**Batteries 12V (50pcs)**	30	60

SOFTWARE SP40 PLUS

- Programmer for COCCINELLA ROLL PLUS and SMART DUAL ROLL PLUS, ASTER RF ROLL PLUS, ROCK RF ROLL PLUS transmitters
- UNI RECEIVER programming and management
- Installer files management
- Installation files management

CODE	NAME
13100005	**SP 40 PLUS** remote controls, trasponders and control unit's management software
13100010	**SOFTWARE CPU** management software for TX MASTER

Trasmitters Head Roll

18 MILLIONS OF COMBINATIONS

- Solid and compact radio transmitter
- Signal LED
- Versions with 2 or 4 channels
- Available in 433 and 868 MHz frequencies
- Version with Rolling Code 64 bit codification (Dip switch 2 channel 868MHz version available)
- Easily replaceable battery 12V
- Programming with internal push button with receivers ROBOT BOX - SQUARE in box
- Max. security thanks to the rolling code system which continuously modifies the code with billions of combinations to make cloning impossible

Head 2 channels 433MHz

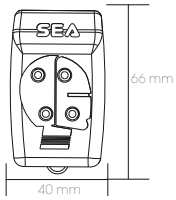
Head 4 channels 433MHz

CODE	NAME	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23110400	**HEAD 2 channels 433 MHz** (10 pcs)	100	500	1000
23110405	**HEAD 4 channels 433 MHz** (10 pcs)	100	500	1000
23110410	**HEAD 2 channels 868 MHz** (10 pcs)	100	500	1000
23110415	**HEAD 4 channels 868 MHz** (10 pcs)	100	500	1000

HEAD DIP SWITCH on request

Head 2 channles 868 MHz

Head 4 channels 868 MH z



ANT 433 and 868

WITH BRACKET, SUPPORT AND CABLE

CODE	NAME	QX1 (PCS)	QX2 (PCS)
23101070	**ANT433** Antenna 433 MHz with bracket	-	-
23101072	**ANT868** Antenna 868 MHz with bracket	-	-
54705250	**CABLE 58** Cable RG 58 (5 m)	-	-
12715225	Fixed support for adjustable antenna	-	-
23101030	**ANT433C** Antenna 433 MHz with bracket and 5 m cable	-	-
23101065	**ANT868C** Antenna 868 MHz with bracket and 5 m cable	-	-

ANT433 Adjustable antenna 433 MHz with bracket

CABLE58 Cable RG 58

Robot Box

IN BOX 50 USERS 433 OR 868 MHZ

- 2 ch. receiver with narrow band (super-heterodyne) 50codes
- Available in the 433 and 868 MHz Frequencies
- Easy and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with trasmetters HEAD Rolling Code
- Integraded Antenna

Square

IN BOX 800 CODES 433 OR 868 MHZ

- 2 ch. receiver with narrow band (super-heterodyne) 800 codes
- 433 and 868 MHz frequencies available
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with trasmetters HEAD Rolling Code
- Possibility to make security copies on memory modules
- Possibility to connect to a PC through RS-232 for code management

CODE	NAME	QX1 (PCS)	QX2 (PCS)
23120167	**ROBOT BOX** and 2 channels 433 MHz antenna, 50 users, Rolling Code	30	60
23120320	**ROBOT BOX** and 2 channels 868 MHz antenna, 50 users, Rolling Code	30	60
23120370	**SQUARE 433** MHz 800 users	-	-
23120340	**SQUARE 868** MHz 800 users	-	-

Coccinella FM

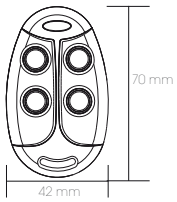
1024 1024 POSSIBLE COMBINATIONS

Note: WINGS LADYBIRD JUST FOR TX 4CH

- Transmitter with refined design
- FM fixed code operation for installations with radio interferences on other frequencies
- 4 channels versions
- 433 MHz Frequencies
- Cloning function
- 12V Alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation LED
- Silicon buttons pleasant to touch
- FM version to be combined to SIGNAL BOX FM receiver
- Large choice of colours for customization of the 4 channel version

CODE	NAME	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23110551	**COCCINELLA FM 4 channels 433 Mhz (10 pcs)**	100	500	1000
23110468	**Fixing support COCCINELLA for wall**	-	-	-
54701200 BLUE **54701200 YELLOW** **54701200 GREY** **54701200 RED** **54701200 GREEN** **54701200 ORANGE** **54701200 DARK BLUE**	**COVER WINGS LADYBIRD TRANSMITTER** 4 channels personalized colour (50 pairs) for 50 TX (50 wings DX+50 wings SX)	-	-	-

Coccinella Fixing support for wall



ANT 433

WITH BRACKET, SUPPORT AND CABLE

CODE	NAME	QX1 (PCS)	QX2 (PCS)
23101070	**ANT433** Antenna 433 MHz with bracket	-	-
54705250	**CABLE 58** Cable RG 58 (5 m)	-	-
12715225	Fixed support for adjustable antenna	-	-
23101030	**ANT433C** Antenna 433 MHz with bracket and 5 m cable	-	-

ANT433 Adjustable antenna 433 MHz with bracket

CABLE58 Cable RG 58

Signal Box FM 433

FOR COCCINELLA FM

- 2 ch. receiver with narrow band (super- heterodyne) 800 codes
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with transm tters COCCINELLA FM
- Integraded Antenna
- IP 55 protection class

CODE	NAME
23120401	**SIGNAL BOX FM**
12710315	Fixed support for SIGNAL BOX UNI

Dual Smart 433 MHz

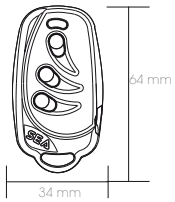
1024 POSSIBLE COMBINATIONS

- Small and light radio transmitter
- Silicon buttons pleasant to touch
- Fix code operation with cloning
- High brilliance leds
- Versions with 2 or 3 channels
- Available in the 433 MHz
- Double lithium batteries, simple to replace 6V (3Vx 2)
- Version to be combined with UNI receivers (SIGNAL BOX UNI, RF UNI, FLEX UNI)

Smart Dual 2 channels

Smart Dual 3 channels

CODE	NAME	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23110565	**SMART DUAL 3 channels 433 MHz (10 pcs)**	100	500	1000



SIMPLE AND INTUITIVE CLONING

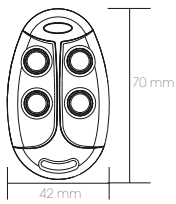
Hold for a few seconds the first 2 buttons of the receiving transmitter, as soon as the LED starts blinking rapidly the cloning function is enabled and you can select the button on which to clone the code of the other existing transmitter.
Once selected the button, just put the two transmitters next to each other and press the button of the existing transmitter.
At this point the LED will confirm the cloning.
The cloning function works only between SEA transmitters, even if they are of different models, provided they are of the same frequency.

Coccinella Copy 433 MHz

1024 POSSIBLE COMBINATIONS

- Transmitter with refined design
- Fixed code with cloning function
- 4 channels versions
- 433 MHz Frequencies
- Cloning function
- 12V Alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation LED
- Silicon buttons pleasant to touch
- Version to be combined to UNI reveivers (SIGNAL BOX UNI, RF UNI, FLEX UNI)
- Large choice of colours for customization of the 4 channel version

CODE	NAME	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23110496	**COCCINELLA COPY 4Channrls 433 (10 pcs)**	100	500	1000
23110468	**COCCINELLA FIX SUPPORT for wall**	-	-	-
54701200 BLUE 54701200 YELLOW 54701200 GREY 54701200 RED 54701200 GREEN 54701200 ORANGE 54701200 DARK BLUE	**COVER WINGS COCCINELLA TRANSMITTER** 4 channels personalized colour (50 pairs) for 50 TX (50 wings DX+50 wings SX)	-	-	-



SEA

Photocells

Sunset

- Synchronized IR photocell for surface mounting
- 15m range
- Installation on wall or PILAR pillar
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size:85x57x32 mm

23102076

QX1 20 pcs • QX2 50 pcs

Sunset Bat

- Synchronized modulated active IR photocell for surface mounting.
- 10m range
- Transmitter power supply through solar panel or batteries
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size:85x57x32 mm

23102106

QX1 20 pcs • QX2 50 pcs

Wall

- Synchronized IR photocell for screened surface mounting
- EMI screen suitable to work in areas with high electromagnetic disturbances
- Methacrylate plastic cover
- 15m range
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size:107x68x37 mm

23102125

QX1 20 pcs • QX2 50 pcs

Ghost 50

- Built in photocell
- Methacrylate plastic cover
- 15m range
- Operation temperature -15° C+60°C
- 12V-24V power supply

23102080

QX1 20 pcs • QX2 50 pcs

C-GHOST box to be walled for GHOST 50

66301670

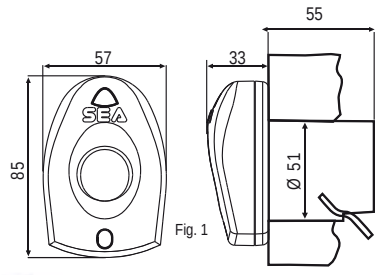


Fig. 1

Side to be walled
ø 55 mm
Length : 70 mm

Foto 50

- Built- in photocell
- 35m range
- Operation temperature -15° C+60°C
- 12V-24V power supply
- Size: 75x75 mm - Side to built-in **ø 65mm**

23102020

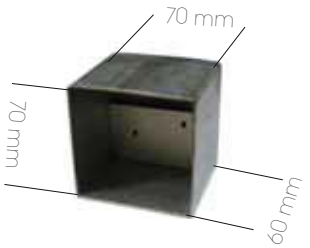
QX1 30 pcs

C-FOTO 50 box to be walled for FOTO 50

23102020

CM-FOTO 50 metal box to be walled for FOTO 50

16200030



Eyes

- Synchronized photocell for outside mounting
- Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes
- Ideal for installations on gates or leaves with limited **space for photocells**
- 30m range
- IP55 Protection class
- Relay output
- Perfect alignment thanks to the Leds
- With aluminium base and strong methacrylate plastic cover
- Optional anti-vandalism metal protection cover available
- Reduced size: 129x48x42mm
- 12V-24V power supply

23102130

QX 10 pcs • QX1 50 pcs

Available: Summer 2012

Anti-vandalism metal **protection cover**

23101140

QX 10 pcs QX1 50 pcs

Eyes Bat

- Synchronized photocell for outside mounting
- Adjustable antenna about 30° along the vertical axes and 210° along the horizontal axes
- Ideal for installations on gates or leaves with limited **space for photocells**
- (2x1,2V) Battery-powered transmitter with charge through mini solar panel, included in the package
- Prepared for mobile edge on leaf connection
- 10m range
- IP 55 Protection class
- Relay output
- Perfect alignment thanks to the Leds
- With aluminium base and strong methacrylate plastic cover
- Optional anti-vandalism metal protection cover available
- Reduced size: 129x48x42mm
- 12V-24V power supply

23102140

QX 10 pcs

General Accessories

Slim

- Slim infrared photocell (internal use)
- 10m range
- 12V-24V power supply
- Size:136x27x27 mm
- Portection class: IP55

23102095

Slim Plus

- Slim infrared photocell with metal cover (internal use)
- 10m range
- 12V-24V power supply
- Size:136x27x27 mm

23102145

Col 50

- Pillar for FOTO 50

16200010

Col 100

- Pillar for key switch KEY

16200020

Col EU 100

- Pillar for key switch EURO KEY

12710020

Pilar

- Aluminium pillar for photocells SUNSET 40 cm

12710205

QX1 30 pcs

CPLATE 100

- Foundation counter -plate for PILAR

16200170

Pilar Prox

- Aluminium pillar for READER PROX - ASTER key switch

12710210

QX1 30 pcs

CPLATE 50

- Foundation counter-plate for PILAR SUNSET 40

16200171

Mini Lamp

- Mini flashing lamp 230V **with flashing card**

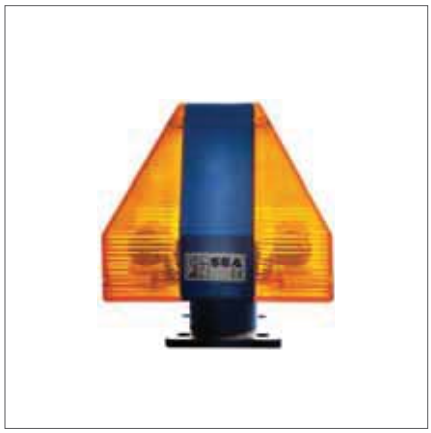
23104006

Mini Lamp 24V

- Mini flashing lamp 24V

23104011

General Accessories



Lamp

- Big flashing lamp **with flashing card** (for SLIDE ROLL-ROLLING)

23104065

Lamp 24V

- Big flashing lamp 24V

23104055

Flash 24V

- Flashing lamp 24V with polycarbone cover

23104105

QX1 20 pcs • QX2 50 pcs

Flash

- Flashing lamp 230V with polycarbone cover

23104100

QX1 20 pcs • QX2 50 pcs

Flash L

- Flashing lamp 230V with polycarbone cover and **flashing card**

23104110

Flash Led 24V

- Intense Led light flashing lamp
- High brilliance with only 3 W
- 24V power supply
- About 70% energy saving compared to white-hot bulbs
- Max. maintenance saving
- Polycarbonate cover in 2 colours:yellow and blue

FLASH LED 24V with blue cover **23104125**

FLASH LED 24V with yellow cover **23104126**

QX1 20 pcs • QX2 50 pcs

Fix Flash

- Wall support for FLASH-FLASH24V

12710260

Fix RX

- Wall support for SIGNAL BOX

12710315

ANTFL 433

- KIT antenna 433MHz for flashing lamp FLASH-FLASH 24V

23101075

QX1 30 pcs • QX2 60 pcs

ANTFL 868

- KIT antenna 868MHz for flashing lamp FLASH-FLASH 24V

23101080

QX1 30 pcs • QX2 60 pcs

Safety Edges

Costa 200 EN
2 m safety edge
EN 12978 Validated

12705050
QX 20 pcs

Costa 250 EN
2,5 m safety edge
EN 12978 Validated

12705055
QX 20 pcs

Costa 300 EN
3 m safety edge
EN 12978 Validated

12705060
QX 20 pcs

Costa Board EN
Control unit for up to 4 edges to respect the law

12705065
QX 20 pcs

Safety Edges 8,2k Ω

Transceivers system guaranteeing safety and contrustion of installations totally complying with EN 12445 - 12453 standards.

T-RADIO Transmitter
- Transmitter for radio edges for installation on the leaf
- 2x1,5V (AA) battery powered
- 868 MHz frequency

23103080
QX 20 pcs • QX1 40 pcs

R-RADIO Receiver
FOR 868 MHZ RADIO EDGES

- Receiver for radio edge to be connected to the electronic control unit
- 868 MHz frequency
- 8-T-RADIO (radio transmitters) storable
- 12/24Vac/dc powers supply

23103085
QX 20 pcs • QX1 40pcs

Resistive Edges

- Rubber profile 24x25 mm with sensor (package of 25m)
- 2m aluminium profile 0.25 cm
- Cable/connection cap (package of 10pcs + 2,5m cable)
- Cap with resistance (package of 10pcs)
- Head cap (2 pcs each edge)

CODE	NAME
12705095	**Rubber profile**
12705100	**2m aluminium profile**
12705105	**Cable/connection cap**
12705110	**Cap with resistance**
12705115	**Head cap**

Key - switches

Key Start Stop

Built-in key switch

Size:75x75 mm - side to built-in Ø 65mm

23103030

Eurokey

Key switch (for surface) witch european cylinder

23103010

Eurokey RF

Key switch (for surface) witch european cylinder
wireless 433 MHz

23103025

Key Plus Start Stop

Surface metal anti-vandal key switch with **led light always on**,
2 channels.
Dimensions: 90x65x37 mm

23103050

Control System

Aster

- Key-switch for surface mounting
- **Start-Stop with LED light**
- n. 2 channels
- Out of shock-resistant strong material
- Size: 101x67x40mm

23103065

QX 20 pz • QX1 50 pz

Aster RF Roll Plus

NEW

- Wireless key-switch for surface mounting with standard cylinder
- One channel
- Rolling code PLUS code (billions of combinations possible)
- Possibility of channel and code programming and management with SP40 software and OPEN through connector
- Out of shock-resistant strong material
- Blue signal light (only during use)
- 2x3V lithium batteries
- 433 MHz frequency
- Key switch to be combined with SIGNAL BOX UNI and RF UNI receivers
- Size: 101x67x40mm

23103090

QX 20 pcs • QX1 50 pcs

NEW

Cube

- Anti-vandalism STAND-ALONE aluminium keypad for access control management with up to 500 users through numerical codes up to four digits
- 12n blue back-lit aluminium buttons
- 2n relay outputs
- Resinated electronic circuit
- IP67 Protection class
- Programming through keypad
- Size: 120x76x27mm

23105189

NEW

Cube W

- Anti-vandalism aluminium keypad for access control management with up to 250 or 800 users through numerical codes
- 12n blue back-lit aluminium buttons
- WIEGAND Protocol
- Resinated electronic circuit
- IP67 Protection class
- Programming through keypad
- k250 or RADIODEC PROX PLUS decoder necessary
- Note: Up to 250 users through K 250 decoder
- Note: Up to 800 users through RADIODEC PROX PLUS decoder
- Size: 120x76x27mm

23105187

Standard Access Controls

K 1000

up to 1000 user codes
1 input
1 relay output
WIEGAND protocol

K 250

up to 250 user codes
1 input
1 relay output
WIEGAND protocol

K 2000

up to 2000 user codes
2 input
2 relay output
WIEGAND protocol

Advanced access controls

K 15000

up to 15000 user codes
2 inputs
Standard control unit connection to Pc
WIEGAND protocol
RS485 extension BUS up to 64 control units

Advanced Access Controls

K 15000

K15000 is a access control unit of new generation, which can manage up to 15.000 users of an off-line memory of 15.000 events. O manage more access the K 15000 can be connected to extensions modules K 15000 XP (max. 10 modules per control unit) or through "bus" to other K 15000 control units (max. 64 control units) .
The system configurations and the users programming, can be executed through the SW10 management software.

23105415

TECHNICAL SPECIFICATIONS

- 15.000 users
- 15.000 off-line events memorisation
- 2 reader inputs
- Bi-processor of new generation with redundancy function
- Anti-pass-back and anti-time-back function
- Simultaneous entries management, additional counting /subtraction
- Control unit PC connection through Ethernet: standard TCP/IP
- Opto-isolated RS485 extension BUS
- Flash memory module
- LED piloting: Condition of the door related to the reader
- Graphic supervisor

K 15000-XP

Expansion module able to manage 4 additional readers. To manage multiple access, it is possible to connect up to 10 K15000- XP modules on the same K15000 control unit, thus arriving to manage up to 42 readers.
The system configurations and the users programming, can be executed through the SW10 management software.

23105420

TECHNICAL SPECIFICATIONS

- Management of 4 readers
- Connection of up to 10 modules for each control unit
- Ethernet connection with K 15000 through RJ45
- RJ45 connection or spin through terminal among the expansion modules
- Opto-isolated RS485 extension BUS

SW10-SW40

Are software applications like Windows, developed for the management of the K 15000 control unit and of the related K15000-XP extension modules.

CODE	NAME
13100015	SW10
13100020	SW40

SW10 up to 10 access
SW40 up to 40 access

TECHNICAL SPECIFICATIONS

- Display of one or more sites
- Management up to 840 access
- Synoptic of the sites with active icons (graphic supervision)
- Database INPUT or SQL
- Multiuser (SQL)
- Events signalisation for vocal synthesis
- On-line events visualisation
- User data-base management divided into groups
- Functions creation "Automations"
- Management of up to 128 time slots

Standard Access Controls

NEW

K 250

- Access control decoder for the management of one access with up to 250 users-codes
- Data reception through WIEGAND format reader (accessory necessary for CUBE W and ROCK W keypad)
- One relay output
- Code self-learning function
- IP44 Protection class (inside use)

23105400

NEW

K 1000

- Access control unit with inputs for external readers
- 999users
- 1 reader-input; activation of the control unit through external reader or 433 MHz radio receiver
- 1 relay output (mode of the selectable contact)
- Integrated programming buttons and display
- Integrated ABS box with fixing for DIN bar
- Input for activation through button

23105405

NEW

K 2000

- Access control unit with two inputs for external readers
- 2000 users
- 2 reader-inputs, activation of the control unit through external reader or 433MHz radio receiver
- 2-relay outputs (mode of the selectable contact)
- Integrated programming buttons and display
- Integrated ABS box with fixing for DIN bar
- Input for activation through button
- Anti-pass-back function

23105410

Control System

Rock RF

- **Wireless keypad** for outside mounting with 12 lit buttons (only when used)
- 433 MHz frequency
- Two-channels (two different codes)
- Aluminium cover
- IP54 Protection class
- Compatible with UNI 12bit fixed code receivers
- 2x3V lithium batteries
- Size: 84x74x37mm

23105196

QX 20 pcs • QX1 50 pz

Rock RF Roll Plus

- **Wireless keypad** for outside mounting with 12 lit buttons (only when used)
- Rolling code PLUS (Billions of combinations possible)
- 433 MHz frequency
- Two-channels (two different codes)
- Aluminium cover
- IP54 Protection class
- **Compatible with UNI rolling code receivers and programmable with SP40 software and OPEN through connector**
- **2x3V lithium batteries**
- Size: 84x74x37mm

23105194

QX 20 pcs • QX1 50 pcs

Rock W

- Keypad for outside mounting via cable with 12 ever-lit buttons
- Max. 250 or 800 storable codes depending on the used decoder
- Aluminium cover
- IP54 Protection class
- WIEGAND protocol
- DEC W or RADIODEC PROX PLUS decoder necessary
- Up to 800 users through RADIODEC PROX PLUS decoder
- Up to 250 users through DEC W decoder
- Size: 84x74x37mm

23105193

Code

- Anti-forcing keypad with decoder (built in)
- n. 9 silicon buttons pleasant to touch
- Dimensions: 75x75 mm side to be walled ø 65 mm

23105167

Code RF

- Anti-forcing keypad with decoder (built in) and without cables
- n. 9 silicon buttons pleasant to touch
- Compatible with UNI series recievers
- Dimensions: 75x75 mm side to be walled ø 65 mm

23105166

Decoder

Additional decoder module for CODE

23105100

Control Systems

Touch | Touch Help

Touch

- Command button (N.O.) out of strong shock-resistant material
- With Led courtesy light
- Size: 101x67x60 mm
- To be connected to control units

23105360

Touch Help

- Emergency stop button (N.C.) out of strong shock-resistant material
- With Led courtesy light
- Size: 101x67x75 mm
- To be connected to control units

23105365

Desk

- Push button board for table without lights

23103040

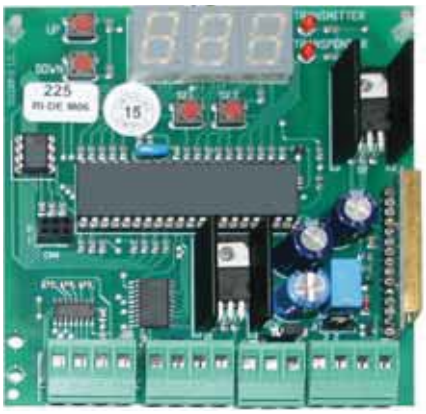
Desk Y

- Built in push button board

23103045

Proximity Readers

RADIODEC PROX



- Radio transmitter SMART and HEAD ROLL series administration
- Memory capacity 500 Users
- Display with led for user administration
- Power supply 12Vdc or 24 Vdc
- Relay output clean contact
- Possibility to manage 2 readers READER PROX

Models

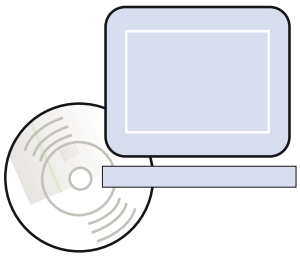
- Decoder/Receiver transponder and TX 433 500 Users
- Decoder/Receiver transponder and TX 868 500 Users

READER
Transponder Reader
Surface mounting
Fixable on PILAR PROX pillar

SMART PROX
Transmitter with internal transponder
- 433 MHz Rolling Code 2 channel (10 pcs)
- 868 MHz Rolling Code 2 channel (10 pcs)

CARD PROX
Transponder card

KEY PROX
Transponder key ring

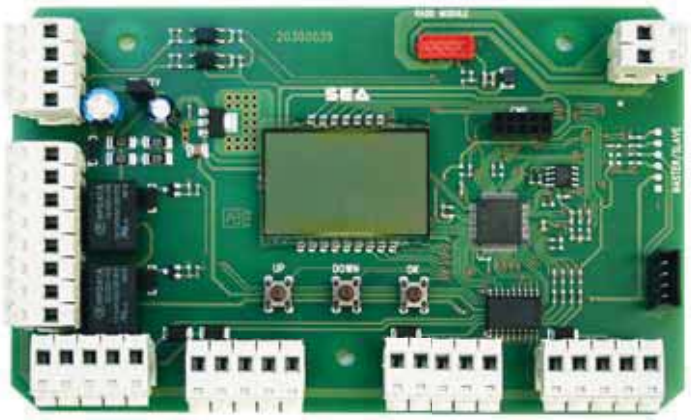


CD-ROM for the manage on PC of the transponder and tags with possibility to enter user name and time

CODE	NAME	QX (PCS)	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23105325	**RADIODEC PROX 433 MHz**	10	-	-	-
23105330	**RADIODEC PROX 868 MHz**	10	-	-	-
23105320	**READER** Transponder Reader	-	10	-	-
23110390	**SMART PROX 433 MHz** 10 Pcs	-	-	-	-
23110395	**SMART PROX 868 MHz** 10 Pcs	-	-	-	-
23105315	**CARD PROX**	-	100	500	1000
23105310	**KEY PROX**	-	100	500	1000
23105285	**CD-ROM**				

Rewritable Proximity Readers

RADIODEC PROX PLUS



- Transponder KEY PLUS, CARD PLUS e SMART DUAL ROLL PLUS, COCCINELLA ROLL PLUS, CUBE W e ROCK W administration
- Memory capacity 800 Users
- LED display for users administration
- 12Vdc or 24 Vdc power supply
- Relay 2 output clean contact
- Possibility to administrate 4 READER PLUS reader
- 2 Programmable inputs
- Completely programmable and manageable with OPEN and SP40 software

Modells

- Transponder Decoder/receiver and TX 433 800 users
- Transponder Decoder/receiver and TX 868 800 users

READER PLUS
Transponder Reader
Surface mounting
Fixable on PILAR PROX pillar

SMART PLUS DUAL ROLL
Transmitter with internal transponder
- 433 MHz Rolling Code 2 channel (10 pcs)
- 868 MHz Rolling Code 2 channel (10 pcs

CARD PLUS
Transponder card

KEY PLUS
Transponder key ring

SOFTWARE SP40

CODE	NAME	QX (PCS)	QX1 (PCS)	QX2 (PCS)	QX3 (PCS)
23105370	**RADIODEC PLUS 433 Mhz** with display, 2 ch	-	-	-	-
23105375	**RADIODEC PLUS 868 Mhz** with display, 2 ch	-	-	-	-
23105380	**READER PLUS** Transponder reader	10	-	-	-
23110600	**SMART TAG 433 Mhz** 10 pcs	-	-	-	-
23110605	**SMART TAG 868 Mhz** 10 pcs	-	-	-	-
23105316	**CARD RW** 10 pcs	-	100	500	1000
23103028	**KEY RW** 10 pcs	-	100	500	1000
23105295	**SP 40 PLUS** software				

N.B: The RADIODEC PROX PLUS is sold together with teh READER PLUS

No Touch

SOLUTION FOR REMOTE OPENING WITHOUT PRESSING ANY BUTTON!

868 MHz 100 m

No Touch RX

- 1.5m nominal detection range
- 125 KHz transmission frequency
- 12/24 ac/dc power supply
- Dimensions 87 x 78 x 15 mm.
- LED indicator
- Button to program the channels and groups
- Pre-wired cable
- Operating temperature from -20° C to + 55° C
- ABS plastic box.

125 KHz 5 m

No Touch 5

- 100m nominal distance
- 868 MHz transmission frequency
- Power supply: One 3V battery
- Battery life approximately 2 years
- Audible low battery signal and transmission of programming signals
- Button for voluntary activation or start in case of automatic disconnection
- Operation temperature from -20° C to + 55° C
- ABS plastic box
- Dimesion 65x55x10 mm
- Vehicle support and clip for clothes included

NO TOUCH 5

Activation of the tag at 5m distance sending a signal to the receiver at a distance of 100m.

CODE	NAME
23105385	**NO TOUCH 5** Signal activation
23105390	**NO TOUCH RX** receiver
23105395	**NO TOUCH TAG**

*On request NO TOUCH 5 with activation sensor (photocells , rubber edge ecc.) available. Price: 680,00 Euro

Power Supply

Additional power supply

23105010

Kit Bat7

24V control board batteries
KIT BAT7 Batteries (BOX+ 2 Batteries 7Ah)

23106305

Thermo

Heater for hydraulic motors with box

23105012

Star 500

Back up battery with 7Ah battery
dimensions 34,5x35,4x13,5

23105052

- Realized to intervene in case of power failure
- Protects the electronic unit from sudden net voltage variations (up to 187V)
- Eliminates temporary events on the supply net thanks to active/capacitive input filters
- 12 Ah battery back-up in case of power failure

Size:75x75 mm
side to be walled Ø 65mm

Container

Wall mounting plastic box for key

66300165

Wall mounting plastic box for Foto50

66300160

Metal box for Foto50/KEY

16200030

Wall mounting plastic box for GOST/KEY PLUS

66301670

Platinum Card

5 years warranty

67401600

General Accessories

Sup

Board to manage a magnetic lock (for GATE 1 ROLL and GATE 2 ROLL)

2315340

Loop Plug

23105159

QX1 10 pcs

Loop Module

Board to manage LOOP PLUG plug-in loop detector following various configurations

23105013

Loop

Magnetic loop reader

23105158

QX1 10 pcs

- Standard DIN attachment
- Oscillation frequency selection
- Sensitivity selection
- Relay output presence/impulse
- 24V dc power supply

Loop 2

Magnetic loop reader 2 channels

23105157

- Standard DIN attachment
- Oscillation frequency selection
- Sensitivity selection
- 2 Relay output presence/impulse
- 24V dc power supply

Esun

Batteries charger and control board for solar panel USER

23101105

TERMS OF SALE

GENERAL NOTICE The systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EM12453 – EM 12445) and with good installation practice releases SEA from any responsibilities. SEA shall not be held responsible for any failure to execute a correct and safe installation under the above mentioned standards.
1) PROPOSED ORDER The proposed order shall be accepted only prior SEA approval of it. By signing the proposed order, the Buyer shall be bound to enter a purchase agreement, according to the specifications stated in the proposed order. On the other hand, failure to notify the Buyer of said approval must not be construed as automatic acceptance on the part of SEA.
2) PERIOD OF THE OFFER The offer proposed by SEA or by its branch sales department shall be valid for 30 solar days, unless otherwise notified.
3) PRICING The prices in the proposed order are quoted from the Price List which is valid on the date the order was issued. The discounts granted by the branch sales department of SEA shall apply only prior to acceptance on the part of SEA. The prices are for merchandise delivered ex-works from the SEA establishment in Teramo, not including VAT and special packaging. SEA reserves the right to change at any time this price list, providing timely notice to the sales network.
The special sales conditions with extra discount on quantity basis (Qx, Qx1, Qx2, Qx3 formula) is reserved to official distributors under SEA management written agreement.
4) PAYMENTS The accepted forms of payment are each time notified or approved by SEA. The interest rate on delay in payment shall be 1.5% every month but anyway shall not be higher than the max. interest rate legally permitted.
5) DELIVERY Delivery shall take place, approximately and not peremptorily, within 30 working days from the date of receipt of the order, unless otherwise notified. Transport of the sold goods shall be at Buyer's cost and risk. SEA shall not bear the costs of delivery giving the goods to the carrier, as chosen either by SEA or by the Buyer. Any loss and/or damage of the goods during transport, are at Buyer's cost.
6))COMPLAINTS Any complaints and/or claims shall be sent to SEA within 8 solar days from receipt of the goods, proved by adequate supporting documents as to their truthfulness.
7) SUPPLY The concerning order will be accepted by SEA without any engagement and subordinately to the possibility to get it's supplies of raw material which is necessary for the production; Eventual completely or partially unsuccessful executions cannot be reason for complains or reservations for damage. SEA supply is strictly limited to the goods of its manufacturing, not including assembly, installation and testing. SEA, therefore, disclaims any responsibility for damage deriving, also to third parties, from non-compliance of safety standards and good practice during installation and use of the purchased products.
8) WARRANTY.
The standard warranty period is 12 months. This warranty time can be extended by means of expedition of the warranty coupon as follows:
SILVER: The mechanical components of the operators belonging to this line are guaranteed for 24 months from the date of manufacturing written on the operator. GOLD: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator.
PLATINUM: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator. The base warranty (36 months) will be extended for further 24 months (up to a total of 60 months) when it is acquired the certificate of warranty which will be filled in and sent to SEA s.r.l. The electronic devices and the systems of command are guaranteed for 24 months from the date of manufacturing. In case of defective product, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair centre. The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labour activities. The recognized defects, whatever their nature, shall not produce any responsibility and/or damage claim on the part of the Buyer against SEA. The guarantee is in no case recognized if changes are made to the goods, or in the case of improper use, or in the case of tampering or improper assembly. Furthermore, the warranty shall not apply if SEA products are partly or completely coupled with non-original mechanical and/or electronic components, and in particular, without a specific relevant authorization, and if the Buyer is not making regular payments. The warranty shall not cover damage caused by transport, expendable material, faults due to non-conformity with performance specifications of the products shown in the price list. No indemnification is granted during repairing and/or replacing of the goods in warranty. SEA disclaims any responsibility for damage to objects and persons deriving from non-compliance with safety standards, installation instructions or use of sold goods.
9) RESERVED DOMAIN A clause of reserved domain applies to the sold goods; SEA shall decide autonomously whether to make use of it or not, whereby the Buyer purchases propriety of the goods only after full payment of the latter.
10) COMPETENT COURT OF LAW In case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo. SEA reserves the faculty to make technical changes to improve its own products, which are not in this price list at any moment and without notice. SEA declines any responsibility due to possible mistakes contained inside the present price list caused by printing and/or copying. The present price list cancels and substitutes the previous ones. The Buyer, according to the law No. 196/2003 (privacy code) consents to put his personal data, deriving from the present contract, in SEA archives and electronic files, and he also gives his consent to their treatment for commercial and administrative purposes. Industrial ownership rights: once the Buyer has recognized that SEA has the exclusive legal ownership of the registered SEA brand, he will commit himself to use it in a way which does not reduce the value of these rights, he won't also remove, replace or modify brands or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any particularity on the products, unless preventive and expressed authorization by SEA.
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4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LAW

Note

SEA in the world

mosaica.it

We export our products to over 50 countries. Image and credibility of the SEA brand extend in Italy and abroad, thanks to its products quality, commercial reliability and after sales service.
Continuously pushing towards innovation, SEA focuses on industrial design, costs rationalization and protection of the environment.
The anticipation of market helps the customers to choose the most suitable products for their needs

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