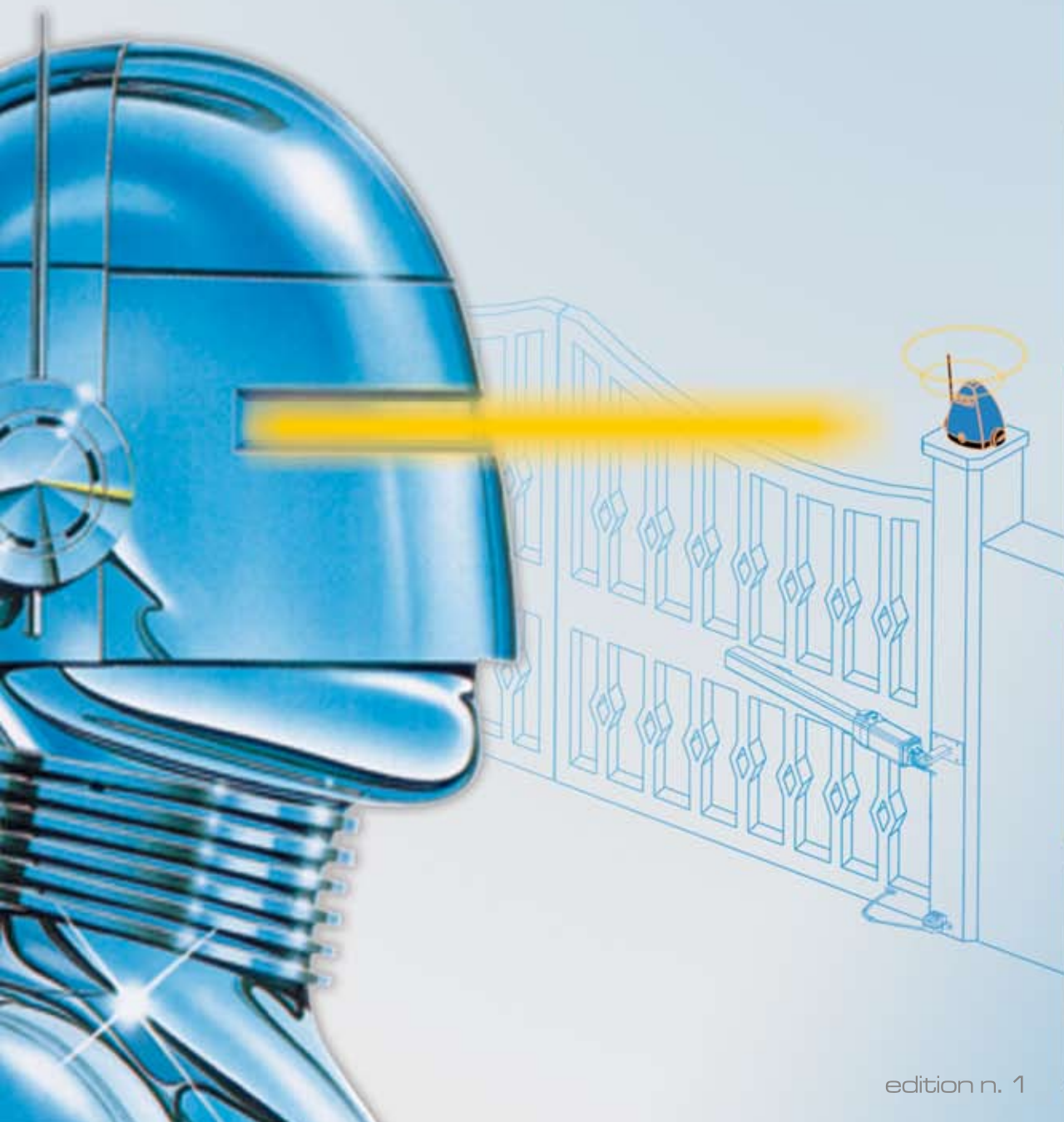


SEA[®]
electronic opening system

Catalogue 2011



accessories

control board














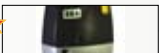

traffic barriers








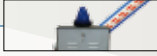






slide operators

swing operators

edition n. 1

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Doors and Gate Automations



1 ...” The Quality of the Real Manufacturer “...

SEA[®]

In slightly more than twenty years SEA has established itself in the field of automated doors and gates as a new reality equipped with an up-to-date manufacturing system located in a plant extending on a covered surface of more than 11.000 sq.m.

The successful strategy that made it possible to meet requirements and to achieve the loyalty of customers throughout over 50 countries is the high flexibility ensured by a unique manufacturing system which is fully internalized.

In SEA the purchased raw material is processed according to all the phases of the manufacturing process and it becomes a finished product after a series of progressive control.

Climatic room
For tests of functioning of the products under different climatic conditions



SEA[®] 2

TOTAL QUALITY is the final result guaranteed only by "OWN PRODUCTION".

Thanks to this strategy, SEA has managed to produce a wide range of reliable products, to gain 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 centres located on all sales markets. Its CORE BUSINESS is the manufacturing of hydraulic products, its differentiation factor against competitors is the direct supervision on the whole manufacturing cycle.



MECHANICAL PRODUCTION



FINAL TEST ON EACH PRODUCT



THE ROBOTS



TRAINING COURSES



ASSEMBLING



ELECTRONIC TEST



Swing Gate KITS

KIT MINI TANK

KIT MINI TANK SC

N.2 Hydraulic operators MINI TANK SC
 N.1 SWING 2 ROLL with RF ROLL 433 MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

10112009

KIT MINI TANK SC PLUS

N.2 Hydraulic operators MINI TANK SC
 N.1 GATE 2 ROLL with RF ROLL 433 MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

10112045

KIT MINI TANK AC

N.2 Hydraulic operators MINI TANK AC
 N.1 SWING 2 ROLL with RF ROLL 433 MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

10103120



KIT BETA 24V

KIT BETA 24V

KIT BETA 24V
 N.2 Operators BETA 24V
 N.1 USER 2 24V ROLL with RF ROLL 433 MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH 24V
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH 24V

11002005



KIT ALPHA STANDARD

KIT ALPHA 330

N.2 Operators ALPHA 330
 N.1 SWING 2 ROLL with RF ROLL 433 MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

10933230K



NOTE: The composition of the Kits is indicative and can vary in the future. Please contact the SEA sales offices for more information.

 The KITS can be bought with the formula QX (8 pieces), QX1 (16 pieces) - KIT BETA 24V - QX (10 pieces)- QX1 (20 pieces)

The pictures are indicative compositions (please read carefully the specific composition of the KIT that you have chosen)

Swing Gate KITS

KIT ALPHA PLUS

KIT ALPHA 330 PLUS

N.2 Operators ALPHA 330 PLUS
 N.1 SWING 2 ROLL with RF ROLL 433MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

1093323PK



KIT SURF

KIT SURF 250

N.2 Operators SURF 250
 N.1 SWING 2 ROLL with RF ROLL 433MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

11005100

KIT SURF 350

N.2 Operators SURF 350
 N.1 SWING 2 ROLL with RF ROLL 433MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

11005165



KIT SURF 350 24V X

N.2 Operators SURF 350 24 V
 N.1 USER 2 24V ROLL with RF ROLL 433MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

11005155

KIT SURF 350 X

N.2 Operators SURF 350
 N.1 GATE 2 ROLL with RF ROLL 433MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH

11005150

Note: X equipped with mechanical and electronic stops

KIT FLIPPER 24V

KIT FLIPPER SINGLE 24V PLUS

N.1 Operator Flipper 24V
 N.1 USER 2 24V ROLL B with RF ROLL 433 MHz receiver
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH 24 V
 N.1 Electronic/mechanical limit switch

10854505

KIT FLIPPER DOUBLE 24V PLUS

N.2 Operators Flipper 24V
 N.1 USER 2 24V ROLL B with RF ROLL receiver 433MHz (master vers)
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Kit Antenna for FLASH
 N.1 Key switch ASTER
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH 24 V
 N.2 Electronic/mechanical limit switches

10854500

KIT FLIPPER DOUBLE 24V BASIC

N.2 Operators Flipper 24V
 N.1 USER 2 24V B ROLL with RF ROLL receiver 433MHz (master vers)
 N.1 2 ch. 433 MHz transmitter Roll
 N.1 Pair of photocells SUNSET
 N.1 Warning lamp FLASH 24 V
 N.2 Mechanical limit switches opening only

10854525

Note: KIT FLIPPER DOUBLE 24V BASIC
 - without microswitch on release lever
 - Mechanical limit switch in opening



NOTE: The composition of the Kit is indicative and can vary in the future. Please contact the SEA sales offices for more information. The Kits can be bought with the formula QX (8 pcs,) QX1 (16 pcs).

The pictures are indicative compositions (please read carefully the specific composition of the KIT that you have chosen)



KIT FIELD

KIT FIELD OIL

- N.2 FIELD with box
- N.1 GATE 2 ROLL control unit
with RF ROLL receiver 433MHz Roll
- N.1 Pair of SUNSET photocells
- N.1 Kit Antenna for FLASH
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Keyswitch ASTER
- N.1 FLASH Warning lamp
- N.2 Standard release

12301035

KIT FIELD

- N.2 FIELD with box
- N.1 SWING 2 ROLL control unit
with RF ROLL receiver 433MHz Roll
- N.1 Pair of SUNSET photocells
- N.1 Kit Antenna for FLASH
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Keyswitch ASTER
- N.1 FLASH Warning lamp
- N.2 Standard release

12301070

KIT FIELD 24V OIL

- N.2 FIELD 24V OIL with box
- N.1 USER2 24V ROLL control unit
with RF ROLL receiver 433MHz Roll
- N.1 Pair of SUNSET photocells
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Keyswitch ASTER
- N.1 FLASH 24V Warning lamp
- N.1 Kit Antenna FLASH 24V
- N.2 Standard release

12301040



KIT CORONA

KIT CORONA 60 - 110

- N.1 Gear motor CORONA (60 or 110)
- N.1 MINI GATE 24V with plug-in receiver
SIGNAL 433MHz Roll
- N.1 2 ch. 433 MHz transmitter Roll
- N.3 Pieces 1 m aluminium guide
(total 3 meters)
- N.1 Internal release with rope
+ accessories

13320005 Kit Corona 60
13320010 Kit Corona 110

KIT CORONA 60 - 110 one piece guide

- N.1 Gear motor CORONA (60 or 110)
- N.1 MINI GATE 24V with plug in receiver
SIGNAL 433MHz Roll
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 3m piece of aluminium guide
- N.1 Internal release with rope
+ accessories

13320005-U Kit Corona 60
13320010-U Kit Corona 110

KIT PLUS CORONA 60 - 110

- N.1 Gear motor CORONA (60 or 110)
- N.1 MINI GATE 24V with 433 MHz
plug-in receiver SIGNAL Roll
- N.1 2 ch. 433 MHz transmitter Roll
- N.3 Pieces 1m aluminium guide (total 3m)
- N.1 Internal release with rope + accessories
- N.1 Addit. intern/extern. release with handle
- N.1 Warning lamp FLASH 24 V
- N.1 Photocells SUNSET
- N.1 Key switch ASTER
- N.1 Kit Antenna for FLASH
- N.1 Support of wall for warning lamp

13322040 Kit Corona PLUS 60
13322045 Kit Corona PLUS 110

KIT Garage Doors



KIT ERG NEW

KIT ERG G1

- N.1 Operator ERG G1 with limit switches
- N.1 RF ROLL 433 MHz
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Kit Antenna with cable
- N.1 Installation kit for 1 ERG

11316025

KIT ERG S

- N.1 Operator ERG with SLIDE
- N.1 Control unit SLIDE with
RF Roll 433 MHz
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Kit Antenna with cable
- N.1 Installation kit for 1 ERG

11316040

KIT ERG G1 PLUS

- N.1 Operator ERG G1 with limit switches
- N.1 Control unit GATE 1 ROLL
with RF ROLL 433 MHz plug in receiver
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Kit Antenna for FLASH
- N.1 FLASH Warning lamp
- N.1 ASTER keyswitch
- N.1 Installation Kit for 1 ERG
- N.1 SUNSET photocells
- N.1 Support for warning lamp

11316030



NOTE: The composition of the kits is indicative and can vary in the future. Please contact the SEA sales offices for more information



The Kits can be bought with the formula QX (8 pieces) QX1 (16 pieces) , except CORONA QX(10 pcs), QX1(20 pcs), QX2(40)

The pictures are indicative compositions (please read carefully the specific composition of the KIT that you have chosen)

Sliding Gate KITS

KIT MERCURY 300/600 24V



KIT MERCURY 300 G1

- N.1 Gear motor MERCURY 300 G1 and foundation plate
- N.1 Plug in RF ROLL receiver 433 MHz
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH

11304500

KIT MERCURY 300 24V (USER 24V B)

- N.1 Gear motor MERCURY 300 24V and foundation plate
- N.1 Plug in RF ROLL receiver 433 MHz
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH 24 V

11304505

KIT MERCURY 600 G1

- N.1 Gear motor MERCURY 600
- N.1 Plug in RF ROLL receiver 433 MHz
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Pair of photocells SUNSET
- N.1 Kit antenna for FLASH
- N.1 Warning lamp FLASH

11304510

KIT MERCURY 600 24V (USER 24V B)

- N.1 Gear motor MERCURY 600 24V and foundation plate
- N.1 Plug in RF ROLL receiver 433 MHz
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH 24 V

11304605



KIT SATURN 600 - SATURN 600 OIL SATURN 600 OIL 24V

KIT SATURN 600 G1 mechanical limit switch

- N.1 Gear motor SATURN 600 G1 with mechanical limit switch and foundation plate
- N.1 RF ROLL 433MHz receiver
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH

12401005

KIT SATURN 600 OIL mechanical limit switch

- N.1 Gear motor SATURN 600 OIL with mechanical limit switch and foundation plate
- N.1 RF ROLL 433MHz receiver
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH

12401015

KIT SATURN 600 OIL inductive limit switch

- N.1 Gear motor SATURN 600 OIL 24V with inductive limit switch and foundation plate
- N.1 Control unit GATE 1 ROLL with 433MHz receiver RF ROLL
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH

12401020

KIT SATURN 600 OIL 24V mechan.limit switch

- N.1 Gear motor SATURN 600 OIL 24V with mechanical limit switch and foundation plate
- N.1 RF ROLL 433MHz receiver
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH 24V

12401030

KIT SATURN 600 OIL inductive limit switch

- N.1 Gear motor SATURN 600 OIL 24V with inductive limit switch and foundation plate
- N.1 RF ROLL 433MHz receiver
- N.1 2 ch. 433 MHz transmitter Roll
- N.1 Key switch ASTER
- N.1 Pair of photocells SUNSET
- N.1 Kit Antenna for FLASH
- N.1 Warning lamp FLASH 24V

12401025



NOTE: The composition of the Kit is indicative and can vary in the future. Please contact the SEA sales offices for more information.

The Kits can be bought with the formula QX (8 pcs) QX1 (16 pcs)+ foundation plate

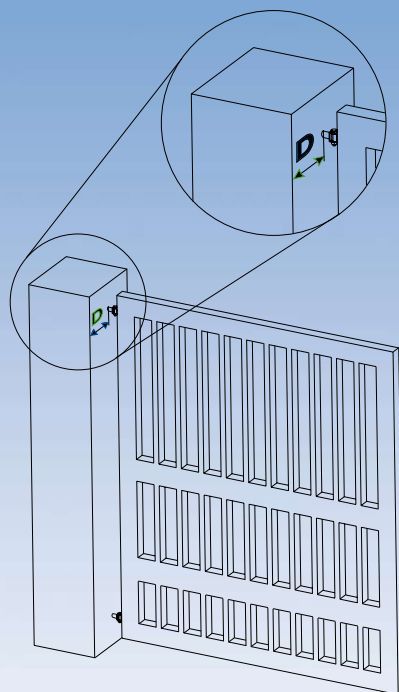
The pictures are indicative compositions (please read carefully the specific composition of the KIT that you have chosen)

Swing Gate

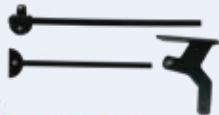
Swing Gate

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

*Note: In case of use of pantograph arm the distance will be 50 cm for 95° version.



PANTOGRAPH ARM



Code	max D
12710500 for 95° HALF TANK 270 *	50 cm
12710515 for 130° HALF TANK 270	/

* Available on request



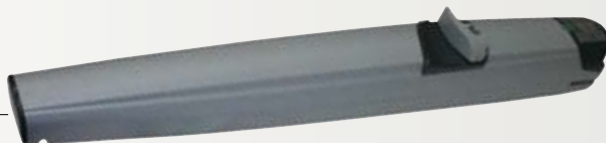
Guide to the PRODUCT

Electromechanical, surface mounted Swing Gate Operators

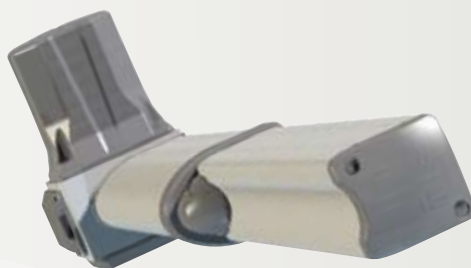
BETA up to 2,0 m **BETA 24V** pag.22



SURF up to 2,5 - 3,5 m **SURF 250-SURF350** pag.23
up to 3,5m **SURF 350 24V** pag.23



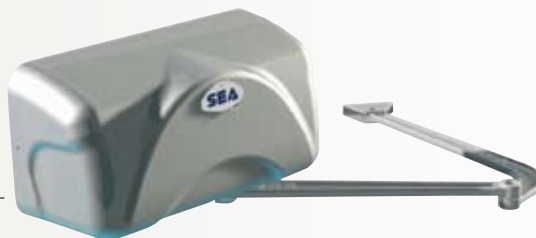
ALPHA up to 3,3 m **ALPHA 330** pag.21
up to 5,5 m **ALPHA 550 24V** pag.21



FLIPPER (jointed arms) up to 2,0 m **FLIPPER 24V** pag.24



GER up to 3,0 m **GER** pag.25



Guide to the PRODUCT

Hydraulic, surface mounted Swing Gate Operators



- MINI TANK**
- up to 1,8 m
 - up to 3 m with electronic lock
 - up to 3 m with electronic lock
- MINI TANK 270 SC** pag.17
 - MINI TANK 270 SB** pag.17
 - MINI TANK 270 AC** pag.17



- NEW HALF TANK**
- up to 1,8 m
 - up to 6 m with electronic lock*
 - up to 1,8 m
 - up to 6 m with electronic lock*
 - up to 6 m with electronic lock
- HALF TANK 270/390 AC** pag.18
 - HALF TANK 270/390 SC** pag.18
 - HALF TANK 270/390 SA** pag.18
 - HALF TANK 270/390 SB** pag.18

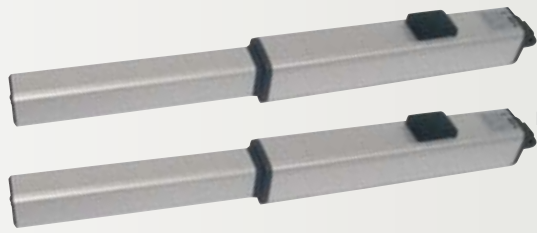


HT 270
HT 390

- HALF TANK ELECTRO-HYDRAULIC 24V**
- up to 1,8 m
 - up to 5 m with electronic lock
 - up to 6 m with electronic lock
- HT 24V 270 Electrohydraulic AC/SB** pag.19
 - HT 24V 390 Electrohydraulic AC/SB** pag.19



- FULL TANK**
- up to 2,2 m
 - up to 7 m with electronic lock
 - up to 2,2 m
 - up to 7 m with electronic lock
 - up to 7 m with electronic lock
- FULL TANK 270/390 SC** pag.20
 - FULL TANK 270/390 AC** pag.20
 - FULL TANK 270/390 SA** pag.20
 - FULL TANK 270/390 SB** pag.20

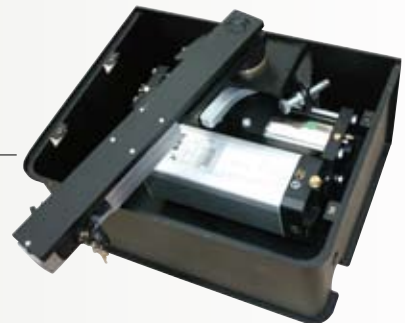
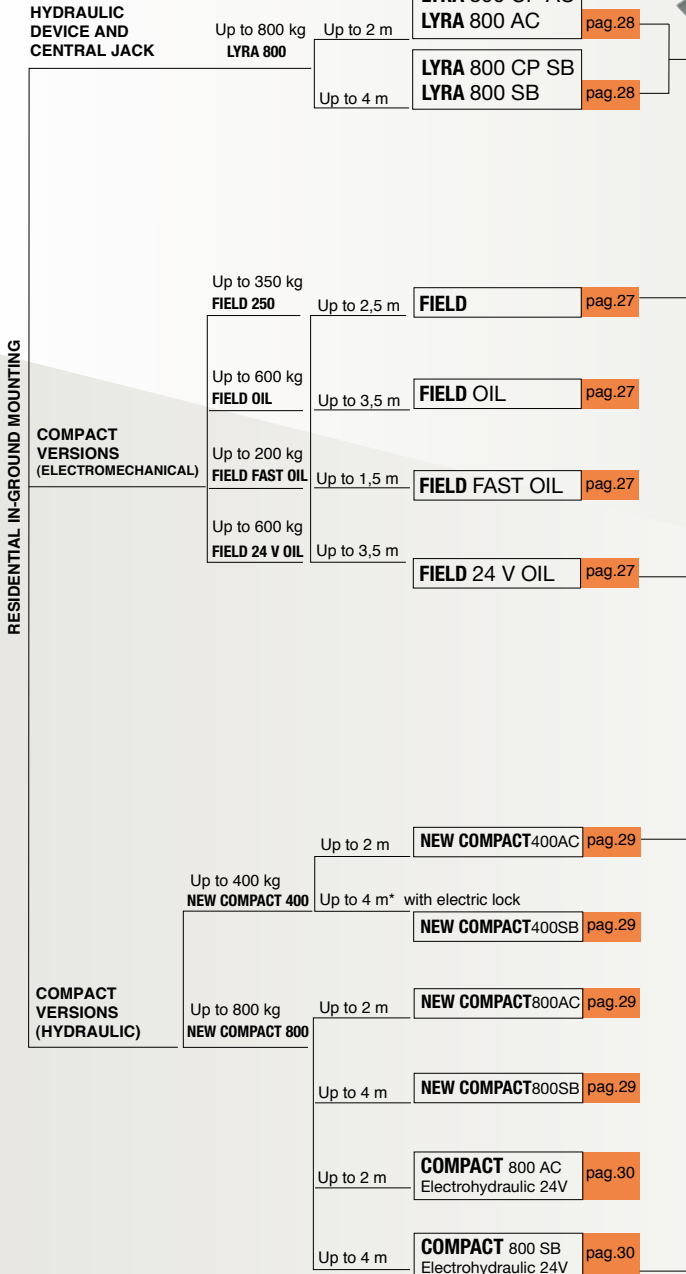


FT 270
FT 390

Note: For the special guarantee PLATINUM see general sales conditions on page 96
 *Over 1,8 m (2,2 m for Full Tank/Half Tank 200) SEA recommends to use versions without lock (SB) but with electric lock.

Guide to the PRODUCT

In-ground Swing Gate Operators



*Note: Over 2 m SEA recommends to use versions without lock (SB) but with electric lock.

Technical Specifications

Swing Gates

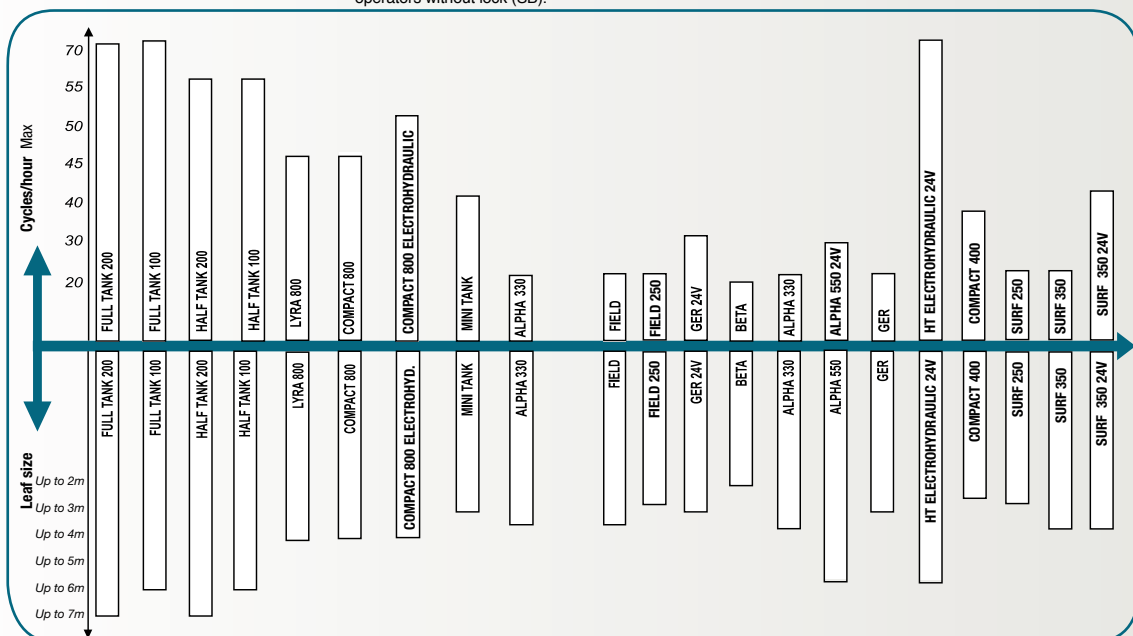
Specifications	Mini Tank	New Half Tank 100 New Half Tank 200	Full Tank 100 Full Tank 200	Ger 230Vac	Beta 24V	Surf 250-Surf 350 Surf 350 24V
Power supply	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz	230Vac±5% 50/60Hz
Motor power	180 W	220 W	220 W	200/90 W	48 W	70 W/230 W
Shaft Stroke	270 mm	270/390 mm	270/390 mm	-	290 mm	400 mm
Cycles/hour Max	40/50	55/70	70	15	15	20/40
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
Weight	10 kg	11,4/13,6 kg	12,8/15,2 kg	12,5 kg	3,4 kg	10,0 kg
Max leaf length	3,0 m	6,0/7,0 m (HT 200)	6,0/7,0 m (FT 200)	3,0 m	2,0 m	2,5/3,5 m
Opening degrees	90°- 120°	90°- 120°	90°- 120°	90°- 125°	90°- 110°	90°- 120°
Shaft speed	1,5cm/sec (pump 1l)	1 cm/sec (pump 1l) 1,5cm/sec (pump 1,5l)	1 cm/sec (pump 1l) 1,5cm/sec (pump 1,5l)	-	1,7cm/sec	(24V) 1,6 cm/sec.
Protection class	IP55	IP55	IP55	IP44	IP54	IP55
Starting capacitor	6,3µF	12,5µF	12,5µF	16/ - µF	-	6,3 µF
Max. thrust	250 daN	640 daN	640 daN	-	150 daN	200 daN
Page	17	18 - 19	20	25	22	23

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).

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

• = Lock available - = Lock not available

NOTE: In case of installations in very windy places or with closed panelled gates SEA recommends to choose operators without lock (SB).

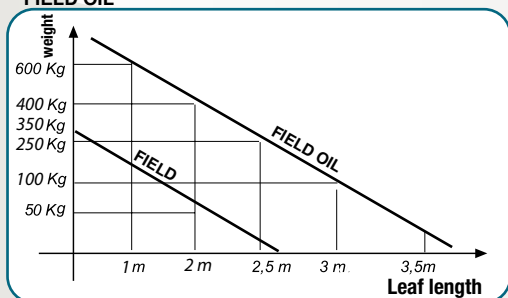


Note: Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V oper.). In case of installation in cold countries it is recommended to install the heater THERMO for both hydraulic and oil bath products.

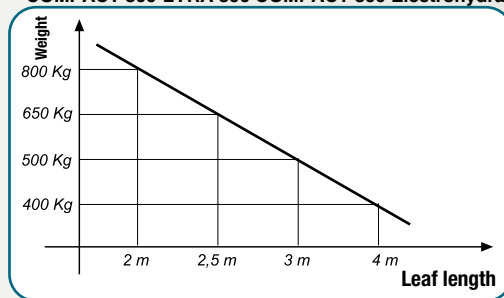
Swing Gates

Specifications	Alpha 330	Alpha 550 24Vcc	Field 24V dcc oil Field 230 Vac oil Field 230 Vac Fast oil	Field	Lyra 800 Lyra 800CP	Compact 400/ Compact 800/ Compact 800 Electr.	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	230 W	70 W	150/220/380 W	220 W	220 W	220/40 W	145 W
Shaft Stroke	400 mm	550 mm	-	-	-	-	-
Cycles/hour Max	20/40	40	50/20/20	16	45	30/45	20
Operation 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	9,0/9,5 kg	11 kg	12,3/13 kg	12 Kg	8 kg	11,6/13,8kg	12 kg
Max leaf length	3,3 m	5,5 m	3,5/1,5 m (FIELD FAST)	2,5 m	4,0 m	3,0/4,0 m	2,0 m
Opening degrees	90°- 120°	90°- 120°	100 ° - 180° optional	90°	100°- 180°	140°/180°	110°
Shaft speed	1,7 cm/sec	1,7 cm/sec	-	-	-	-	-
Angular speed	-	-	10°/sec	10°/sec	7°/sec	10°/sec-7°/sec-7°/sec	12°/sec
Protection class	IP54	IP54	IP67	IP67	IP67	IP67	IP44
Starting capacitor	6,3 µF	-	10/12,5 µF	10 µF	12,5µF	12,5 µF/-	-
Max thrust	250/350 daN	170 daN	20 daN	20 daN	56 daN	20/56/56 daN	180 daN
Page	21	21	27	27	28	29 - 30	24

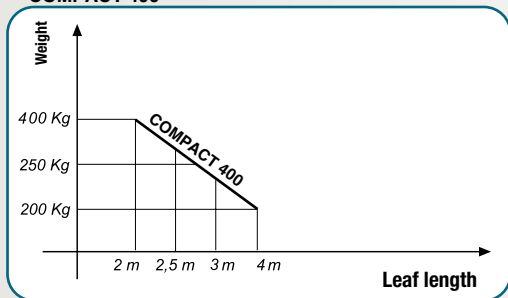
FIELD OIL



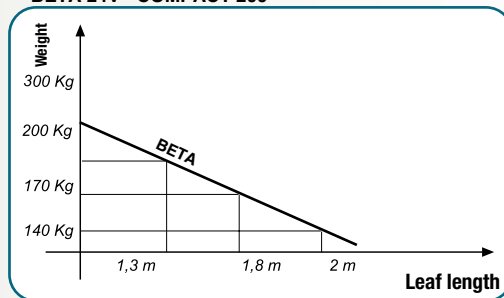
COMPACT 800-LYRA 800 COMPACT 800 Electrohydraulic



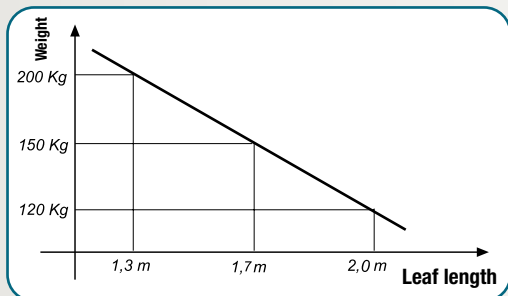
COMPACT 400



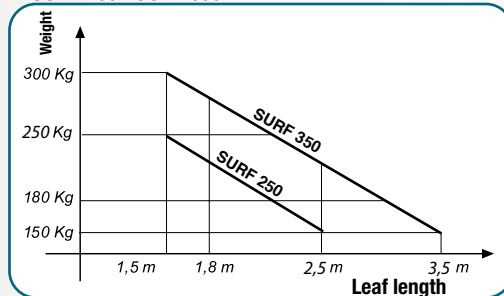
BETA 24V - COMPACT 200



FLIPPER 24V



SURF 250 - SURF 350



Note: In case of installations in very windy places or with closed panelled gates SEA recommends to choose operators without lock (SB).

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 operators).

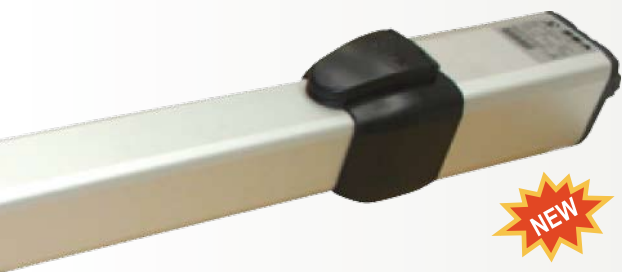
GATE OPERATORS & TRAFFIC BARRIERS



NEW MINI TANK

HYDRAULIC SWING GATE OPERATOR FOR RESIDENTIAL USE FOR LEAF LENGTH UP TO MAX 3M.

- The MINI TANK is a hydraulic operator for swing gates satisfying the requirements of discerning customers regarding quality and durability.
- **SEA TOTAL QUALITY:** All main parts are manufactured and tested in-house.
- The functioning of the operator through oil and the inner lubrication of all mechanical components ensures longevity
- Extremely silent
- Available in versions with lock in closing (SC) and without lock (SB), both directions (AC) with max 270mm stroke.
- Internal mechanical/electronic stop for limit switch best performance. Optional NEW.
- New design with protection cover
- New distributor with external locks for an easy installation.



Internal mechanical stop kit for the optimal operation of limit switches



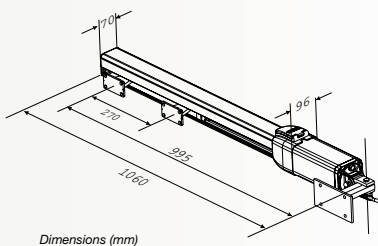
Bypass valves

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/HOUR
10103505	MINI TANK AC 270	400 kg	1,8 m	120°	40
10111505	MINI TANK SC 270	400 kg	1,8 m	120°	40
10101505	MINI TANK SB 270	400 kg	3,0 m	120°	40
10103010	MINI TANK DOUBLE AC	400 kg	1,8 m	120°	40
10112035	MINI TANK DOUBLE SC	400 kg	1,8 m	120°	40
10102005	MINI TANK DOUBLE SB	400 kg	3,0 m	120°	40
10111030	MINI TANK DOUBLE PLUS SC	400 kg	1,8 m	120°	40
10101015	MINI TANK DOUBLE PLUS SB	400 kg	3,0 m	120°	40
10103005	MINI TANK DOUBLE PLUS AC	400 kg	1,8 m	120°	40

NOTE: The versions DOUBLE are with 2 operators and one SWING 2 ROLL control Unit+ 433MHz receiver. The PLUS versions are equipped with GATE 2 Roll control Unit + 433 MHz receiver.

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
10111505	MINI TANK SC	2
23021093	SWING 2 ROLL control Unit	1
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23120470	RF ROLL 433 MHz radio frequency module	1
23104100	FLASH warning lamp	1
23101075	Kit Antenna 433MHz for FLASH	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2



NOTE: For leaves longer than 1,8 m it is suggested to use the SB version with electric lock

OTHER ACCESSORIES

Code	Name
12715115	PSM Kit mechanical stop MINI TANK
12710060	SECHT Box for external release for MINI TANK/HALF TANK (with box and lock)
65000045	OILH Green oil for hydraulic motors (5l)
23105345	LINEAR SAFETY GATE (Kit encoder for Swing Gate Operators To be combined with ROLL control Unit Gate 1/ Gate 2)
12715070	Adjustable back bracket BRA for Libra/Alpha (2 pcs)
12710345	Manual release PLUS with lock
12715270	LSMT Kit mechanical/electronic limit switch for MINI TANK

MINI TANK DOUBLE SB/SC/AC
 N.2 Operators MINI TANK SB/SC/AC
 N.2 Kit mounting accessories
 N.1 Control Unit SWING2 ROLL + 433MHz receiver (Control Unit GATE 2 for Double Plus)
 N.2 release keys

ACCESSORIES

Accessories for swing gates
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Note: For further information please contact SEA sales offices

HALF TANK

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

- HALF TANK is a hydraulic operator for swing gates satisfying the requirements of discerning customers regarding quality and durability.

- **Hydraulic silence and reliability**

- **SEA TOTAL QUALITY:** All main parts are manufactured and tested in-house.

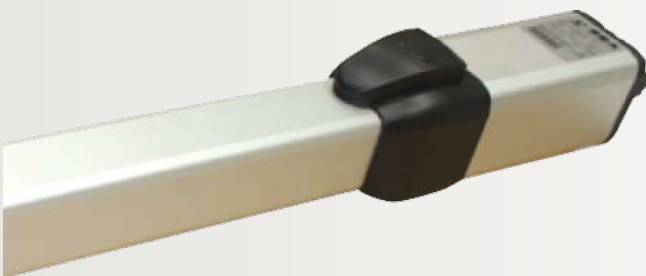
- The functioning of the operator through oil and the inner lubrication of all mechanical components ensure longevity

- Anti - crashing security through force adjusting by-pass valves.

- Available versions with hydraulic slow down in both opening and closing.

- Versions with lock in both directions (AC) only in closing (SC) only in opening (SA) and without lock (SB).

- Model 270 with 270mm stroke and model 390 with 390mm stroke for applications on pillars with long leaves.



Internal mechanical stop kit for the optimal operation of limit switches



New metal release system PLUS, accessible through lock for max security (standard version: DOUBLE and HT 390)

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/HOUR MAX
10401026	HALF TANK 270 AC	700 kg	1,8 m	120°	55
10431006	HALF TANK 270 SC	700 kg	1,8 m	120°	55
10411011	HALF TANK 270 SA	700 kg	6,0 m	120°	55
10421026	HALF TANK 270 SB	700 kg	6,0 m	120°	55
10401051	HALF TANK 270 DOUBLE AC*	700 kg	1,8 m	120°	55
10421041	HALF TANK 270 DOUBLE SB*	700 kg	6,0 m	120°	55
10501036	HALF TANK 390 AC*	700 kg	2,2 m	120°	55
10531006	HALF TANK 390 SC*	700 kg	2,2 m	120°	55
10511011	HALF TANK 390 SA*	700 kg	7,0 m	120°	55
10521016	HALF TANK 390 SB*	700 kg	7,0 m	120°	55

*with metal release PLUS

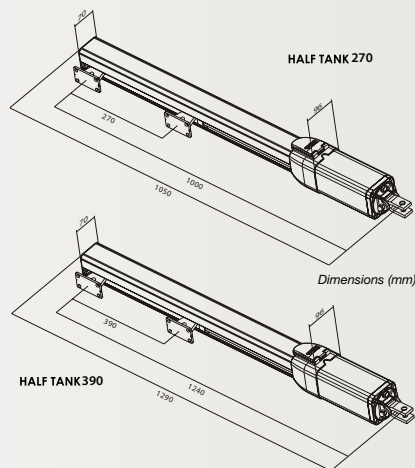
STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
10401026	HALF TANK 270 AC	2
23001125	GATE 2 ROLL control Unit	1
23110470	LADYBIRD ROLL 2 ch. 433Mhz Transmitter	1
23120420	RF ROLL 433 Mhz radio frequency module	1
23104100	FLASH warning lamp	1
23101075	Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2
12710345	Metal release PLUS with lock	2

NOTE : For leaves longer than 1,8 m it is suggested to use the SB versions with electric lock

OTHER ACCESSORIES

Code	Name
12715105	PS270 Kit mechanical stop HT-FT 270
12715110	PS360 Kit mechanical stop HT-FT 390
65000045	OILH Green oil for hydraulic motors (5l)
23105345	Linear Safety Gate (kit encoder for swing gate operators to couple with a ROLL control Unit GATE 1, GATE 2)
12715070	Adjustable back bracket BRA to screw for Libra/Alpha n.2 pcs
12710060	SECHT KIT external release for new HT with box, cable and lock
12710490	LSHT270 KIT mechan./elec. wireless limit switch
12710495	LSHT390 KIT mechan./elec. wireless limit switch
12710345	HTLOCK manual release PLUS with lock



HALF TANK DOUBLE AC/SB
N.2 Operators HALF TANK AC/SB
N.2 Kit mounting accessories
N.1 Control Unit GATE2 ROLL + 433MHz rec.
N.2 Manual release PLUS with lock cylinder

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HT24V Electrohydraulic



24V DC
HYDRAULIC
TECNOLOGY

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

- The electrohydraulic HALF TANK is a low voltage (24Vdc) hydraulic operator for swing gates satisfying the requirements of discerning customers regarding quality and durability.
- Hydraulic silence and reliability.
- SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.
- The functioning of the operator through oil and the inner lubrication of all mechanical components ensures longevity
- High Anti-crashing security through control unit with current sensing function
- Power and slow down adjustable on control unit USER ROLL.
- Versions with lock in both directions (AC) and without lock (SB).
- Application of emergency batteries for functioning in case of power failure and solare panel KIT SUNNY.
- Mechanical and electronic limit switches in opening and closing.



Internal mechanical stop kit for the optimal operation of limit switches



New metal release system PLUS accessible through lock for max security

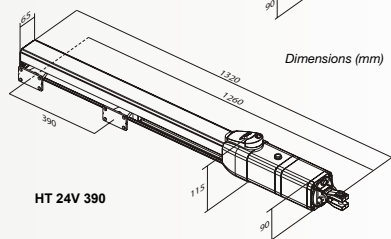
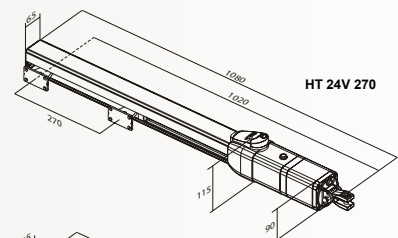
CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/ HOUR Max	QX	QX
10403000	HALF TANK 270 ELECTROHYDRAULIC AC	700 kg	1,8 m	120°	70		
10423000	HALF TANK 270 ELECTROHYDRAULIC SB	700 kg	5,0 m	120°	70		
10503000	HALF TANK 390 ELECTROHYDRAULIC AC	700 kg	2,2 m	120°	70		
10523000	HALF TANK 390 ELECTROHYDRAULIC SB	700 kg	5,0 m	120°	70		

* Complete with mechanical and electronic stops and metal release
NB: l'installation through JOLLY is recommended

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
10403000	HALF TANK ELECTROHYDRAULIC AC	2
23024020	USER 24V ROLL	1
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23120470	RF ROLL 433 Mhz radio frequency module	1
23104105	FLASH warning lamp 24V	1
23101075	Kit Antenna 433 Mhz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2

NOTE For leaves longer than 1,8 m it is suggested to use the SB versions with electric lock



ACCESSORIES

Accessories for swing gates
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Note: For further information please contact SEA sales offices

FULL TANK

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

- The FULL TANK is a hydraulic operator for swing gates satisfying the requirements of discerning customers regarding quality and durability.

• Hydraulic silence and reliability

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

- The functioning of the operator through oil and the inner lubrication of all mechanical components ensures longevity

- Anti –crashing security through force adjusting by-pass valves.

- Model 270 with 270mm stroke and model 390 with 390mm stroke for applications on pillars with long leaves.

- Available versions with hydraulic slow down in closing (adjustable on request).

- Versions with lock in both directions (AC), only in closing (SC) only in opening (SA) and without lock (SB).



Round joint for stroke adjustment



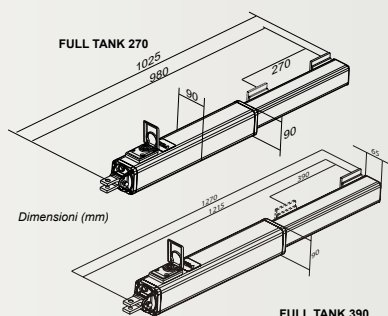
Release with lock in case of electric power cut

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/ HOUR
10601005	FULL TANK 270 AC	1000 kg	1,8 m	120°	70
10631005	FULL TANK 270 SC	1000 kg	1,8 m	120°	70
10611005	FULL TANK 270 SA	1000 kg	7,0 m	120°	70
10621010	FULL TANK 270 SB	1000 kg	7,0 m	120°	70
10601060	FULL TANK 270 DOUBLE AC	1000 kg	1,8 m	120°	70
10621050	FULL TANK 270 DOUBLE SB	1000 kg	7,0 m	120°	70
10701010	FULL TANK 390 AC	1000 kg	2,2 m	120°	70
10731005	FULL TANK 390 SC	1000 kg	2,2 m	120°	70
10711005	FULL TANK 390 SA	1000 kg	7,0 m	120°	70
10721005	FULL TANK 390 SB	1000 kg	7,0 m	120°	70

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
10601005	FULL TANK 270 AC	2
23001125	GATE 2 ROLL control Unit	1
23120470	RF ROLL 433 Mhz radio frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL Antenna 433 MHz for Flash	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2

NOTE: For leaves longer than 2.2 m it is suggested to use the SB versions with electric lock.



OTHER ACCESSORIES

Code	Name
12715105	PS270 Kit mechanical stop HT-FT 270
12715110	PS360 Kit mechanical stop HT-FT 390
65000045	OILH Green oil for hydraulic motors (5l)
23105345	Linear Safety Gate (kit encoder for swing gate operators) to combine with a ROLL control Unit GATE 1, GATE 2)
12715070	Adjustable back bracket BRA to screw for Libra/Alpha n.2 pieces

FULL TANK DOUBLE AC/SB

N.2 operators FULL TANK AC/SB
N.2 Kit mounting accessories
N.1 Control Unit GATE2 ROLL + 433MHz rec.
N.2 Release with key cylinder

ACCESSORIES

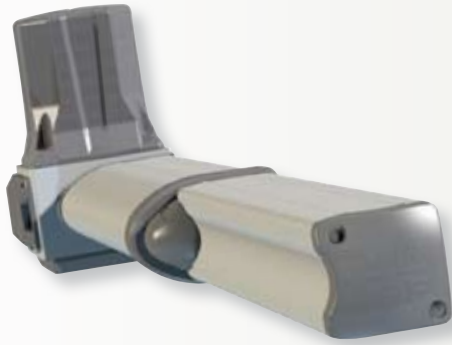
Accessories for swing gates
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Note: For further information please contact SEA sales offices

ALPHA 330/550

ELECTROMECHANICAL SWING GATE OPERATOR IRREVERSIBLE, STRONG, SAFE AND EASY TO INSTALL.



Release with key (se-
rial on PLUS version/
optional on the basic
version)



Adjustable, electro-
nic limit switch (only
PLUS version)

- High quality electromechanical operator for leaf lengths up to 5,5 m. Available in high and low voltage and in 2 versions: STANDARD AND PLUS
- Realized completely out of a strong aluminium pressure body for a long lasting resistance.
- Easy and fast to install thanks to the front door with the terminal board of the power supply cables.
- Low voltage version for more working cycles and higher security.
- Available in two models 330 for leaf length up to max 3,3 m and 550 for leaf length up to max 5,5 m.
- Cabling and capacitors inside the operator and accessible through front door.
- On request Kit adjustable (only for basic version) mechanical stop in opening and closing. Recommended in lack of ground stops.

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/HOUR
10933230D-1	ALPHA 330 right	330 kg	3,3 m	120°	20
10933230S-1	ALPHA 330 left	330 kg	3,3 m	120°	20
1093323PD-1	ALPHA 330 PLUS right	330 kg	3,3 m	120°	20
1093323PS-1	ALPHA 330 PLUS left	330 kg	3,3 m	120°	20
1095524PD-1	ALPHA 550 24V DC PLUS right	550 kg	5,5 m	120°	40
1095524PS-1	ALPHA 550 24V DC PLUS left	550 kg	5,5 m	120°	40

NOTE: The PLUS versions are equipped with electronic limit switch with micro switch and release lever with lock. On request 24V DC.

STANDARD INSTALLATION FOR TWO SWING LEAVES

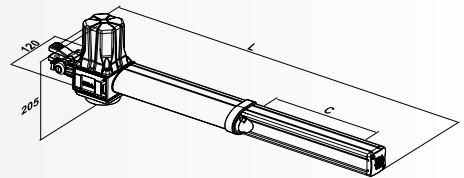
Code	Name	Quantity
10933230D-1	ALPHA 330 right	1
10933230S-1	ALPHA 330 left	1
23021093	NEW SWING 2 ROLL control Unit	1
23120470	RF ROLL 433 Mhz radio frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2

OTHER ACCESSORIES

Code	Name
12715070	Adjustable back bracket BRA to screw for Libra/Alpha n.2 pieces
12715100	KEY ALPHA Kit key release (for Alpha basic)
10900230	ENC ALPHA Kit encoder for Alpha 230
23105345	SAFETY GATE Linear (Kit encoder for swing gate operators to combine with the Roll control Unit GATE 1 Roll, GATE 2Roll)
12710306	PSA Kit mechanical stop ALPHA 330
23106305	BAT7 Battery kit with box (7 AH) (24V)
23106370	KIT SUNNY (20 W solar panel +charger+batteries)
23101105	ESUN Control for solar panel and USER 2 24V ROLL battery charger

Note: For further information please contact SEA sales offices

Note : 23101105 to combine with 23106305



	ALPHA 330	ALPHA 550
L	1060 mm	1220 mm
C	400 mm	550 mm

ACCESSORIES

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BETA 24V



ELECTROMECHANICAL, IRREVERSIBLE, LOW VOLTAGE (24V) OPERATOR FOR RESIDENTIAL USE.

- BETA has been designed for swing gates of small dimensions (2m or 200 Kg) with occasional use during the day

- **Simple, safe and easy to install.**

- Adjustable back fixations with fixing holes for a very easy installation.

- 24V DC power supply for highest security and easy adjustment during installation.

- Slow down in opening and closing with control unit (USER 2 24V ROLL).

- Inversion on obstacle with current sensing on control unit.

- Solar panel KIT SUNNY optional for batteries charging or for hybrid function

- BUS technology with USER 24 ROLL



Release with personalised key accessible through door

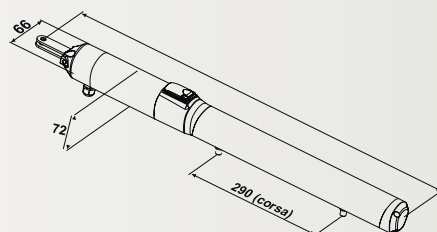


Adjustable, mechanical limit switch in opening and closing

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	OPENING TIME	WORKING FREQUENCY
11001000-1	BETA 24V	200 kg	2,0 m	adjustable	20%
11002010	BETA DOUBLE 24V	200 kg	2,0 m	adjustable	20%
11002005	Kit BETA 24V	200 kg	2,0 m	adjustable	20%
23106305	BAT7 Kit Batterie 7 Ah with box				
23106370	Kit SUNNY (20 W solar panel + charger+ batteries)				
23105276	JOLLY Palm for USER 24 ROLL logics management				
23101105	ESUN Control board for solar panel and USER 2 24V ROLL battery charger				

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
11002005	Kit BETA Control Unit GATE 2 24V PLUS ROLL + rec.433MHz 2 ch. 433MHz Transmitter FLASH warning lamp 24V Kit Antenna 433 MHz ASTER aluminium key switch SUNSET Photocell	1
12710205	PILAR aluminium column for SUNSET	2
23102076	SUNSET BUS photocell	1



Dimensions (mm)

- BETA DOUBLE 24V Package**
 N.2 operators BETA 24V
 N.1 control Unit USER 2 24V ROLL
 N.1 433Mhz (RF) receiver
 N.2 kit mounting accessories
 N.1 adjustable fixation with holes
 N.1 Release key
 N.1 Mounting instructions and general notice
 N.1 Warning sign-board

ACCESSORIES

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Note : 23101105 to combine with 23106305
 Note: For further information please contact SEA sales offices

SURF 250/350



Metal release
(in option)



Electronic limit switch
(standard series 350 X)

SWING GATE OPERATOR FOR LEAVES UP TO 3,5 M AND 300 KG MAXIMAL WEIGHT

- Surf combines on attractive shape(very similar to a surfboard) with reliable mechanincs.
- **Solid: electromechanical reduction gearbox made out of aluminium cast body with polyester coating for out-door use.**
- Release from outside with cable and security box (optional only for SURF 350).
- Versatile: 230V or 24V version available.
- Easy use with a separate plug board.
- Mechanical and electronic limit switch for best performance (standard in 350X version).
- Adjustable back bracket with holes.
- Solar panel KIT SUNNY for Surf 350 24V (optional).
- Reduced width of the operator for an easy installation in tight spaces.

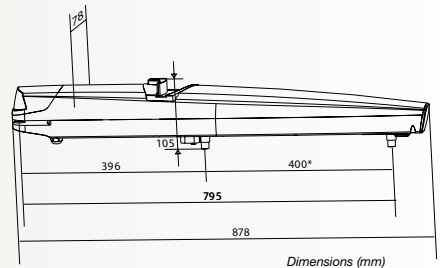
CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	WORKING FREQUENCY	CYCLES HOUR MAX
11005000	SURF 250	250 kg	2,5 m	120°	20
11005085	SURF 350	300 kg	3,5 m	120°	20
11005060	SURF 350 reversible	300 kg	3,5 m	120°	20
11005070	SURF 350 X	300 kg	3,5 m	120°	20
11005065	SURF 350 24V X	300 kg	3,5 m	120°	30
11005075	SURF 350 X with encoder	300 kg	3,5 m	120°	20

X : Mechanical and electronic limit switch to combine with control unit with limit switches (GATE or USER).

SURF 250 with release equipped with special key.

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
11005000	SURF 230	2
23021090	SWING 2 ROLL control Unit	1
23120470	RF ROLL 433 Mhz frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433Mhz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL Antenna 433 MHz for Flash	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2



OTHER ACCESSORIES

Code	Name
12715200	SECSURF external release (box with 2,5 m cable)
23105276	JOLLY PALM for USER management
23106360	KIT SUNNY (solar panel 20W + panel + batteries)
12715235	PSS opening/closing mechanical stops (2 pcs) for SURF 230 and SURF 300 reversible
23106305	BAT7 Battery kit with box (7 AH) (24V)
23101105	ESUN Control for solar panel and battery charger for USER 2 24V ROLL
12715265	BRASU adjustable banck fixation bracket no welding (2 pcs)
12715205	KEY SURF Metal lock cylinder with key and lever for release

Note: For further information please contact SEA sales offices

Note : 23101105 to combine with 23106305

ACCESSORIES

Accessories for swing gates
General accessories

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FLIPPER

IRREVERSIBLE, ELECTROMECHANICAL SWING GATE OPERATOR FOR BIG PILARS. MAX LEAF LENGTH 2,0 M OR MAX 200 KG WEIGHT.

- The ideal automation for gates on big pillars.
- Perfect for installations where the max. space between pivot of the gate and fixing point of the operator is less than 25 cm.
- Max length of only 16,5 cm for installations in reduced spaces.
- Serial mechanical limit switches adjustable in opening and closing.
- Mechanical limit switch in opening (KIT FLIPPER DOUBLE 24V BASIC) version.
- Low tension power supply for high security of use and for an easy adjustment of the approaching speed and of electronic obstacle detection.
- Back-up battery to be fitted into the motor to grant the functioning in case of power failure.
- On request external release with cable and security box.
- Micro-switch to disconnect power supply in case of activation of the release system during assistance (option KIT FLIPPER DOUBLE 24V BASIC).
- Separate seat for Control Unit USER 2 24V ROLL, programmable with push button for easy use.
- Solar panel kit optional for batteries charging or for hybrid function (SUNNY).



Release system through aluminium lever and security lock



Adjustable mechanical and electronic limit switches in opening and closing



BUS technology with USER 24V ROLL

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/HOURS
10854505	KIT FLIPPER SINGLE 24V PLUS	200 kg	2,0 m	120°	20
10854500	KIT FLIPPER DOUBLE 24V PLUS	200 kg	2,0 m	120°	20
10854525	KIT FLIPPER DOUBLE 24V BASIC	200 kg	2,0 m	120°	20
10854005-1	FLIPPER SLAVE (no control Unit) with jointed arm	200 kg	2,0 m	120°	20
10854000-1	FLIPPER MASTER (with jointed arm)	200 kg	2,0 m	120°	20
10854110	FLIPPER DOUBLE	200 kg	2,0 m	120°	20
23106370	Kit SUNNY (20 W solar panel + charger+ batteries)				
12715260	Arm and base painting supplement				

N.B: KIT FLIPPER DOUBLE 24V BASIC (without microswitch on release lever, mechanical limit switch in opening)

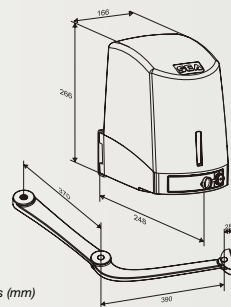
STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
10854500	Kit FLIPPER DOUBLE 24V PLUS Control Unit USER 2 24v ROLL + rec. 433 MHz 2 ch. 433 Mhz Transmitter Roll FLASH warning lamp 24V Kit Antenna 433 MHz ASTER key switch Jointed arm SUNSET synchronized photocell	1
12710205	PILAR aluminium column for SUNSET	2
23102076	SUNSET BUS synchronized photocell	1

OTHER ACCESSORIES

Code	Name
23106340	BAT1,2 small batteries for FLIPPER 1,2 AH
23105276	JOLLY Palm ext. functions for USER 24V ROLL
12710410	LSFL Kit electr. release lever (2pc) for KIT FLIPPER DOUBLE 24V BASIC
12710411	FME Electr. and mechan. limit switch (2pc) for KIT FLIPPER DOUBLE 24V BASIC
12710475	MSFL Microswitch lock for KIT FLIPPER DOUBLE 24V BASIC
23106360	KIT SUNNY(20W solar panel + ESUN control unit + BAT7 batteries)
12710470	SECFL External release (box + cable 2,5 m)
12710219	CLI Sliding arm for opening in case of wall side
23101105	ESUN Control for solar panel and USER 2 24V ROLL battery charger
23101075	KIT Antenna 433Mhz for Warning lamp FLASH
23106305	BAT7 Battery kit with box (7 AH) (24V)

For best performance SEA suggests to install the electronic limit switch kit
Note : 23101105 to combine with 23106305



Dimensions (mm)

KIT FLIPPER DOUBLE 24V PLUS Package

- N.2 operators FLIPPER 24V with elec./mech. limit switches
- N.1 control Unit USER 24V ROLL with receiver 433 Mhz (in the Master version)
- N.1 Kit antenna
- N.1 Key switch ASTER
- N.1 Pair of SUNSET photocell
- N.1 warning lamp FLASH 24V
- N.1 Mounting instructions and general notice
- N.1 Warning sign -board

ACCESSORIES

Accessories for swing gates
General accessories

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GER

ELECTROMECHANICAL SWING GATE OPERATOR FOR BIG PILARS. RESIDENTIAL USE FOR MAX. 3M LEAF LENGTH.



New jointed arm



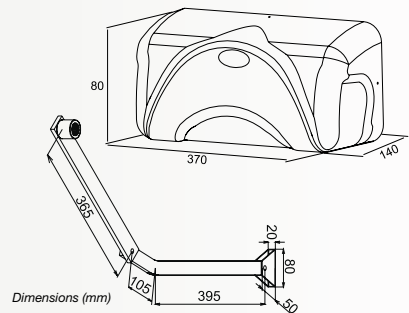
Internal foto

- The ideal automation for gates with big pillars
- Perfect for installations where the max. space between pivot of the gate and fixing point of the operator is less than 38 cm.
- Casing with new design.
- Release with personalized key.
- Simple and fast to install
- Low tension version for high security of use and for an easy adjustment of the approaching speed and of electronic obstacle detection.
- On request Kit encoder for inversion in case of obstacle available.
- Micro-switch for stop in opening and closing for a fast and precise adjustment of the leaves (on request).

CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	MAX OPENING DEGREE	CYCLES/HOUR
1131023DX	GER DX (with jointed arm)	400 kg	3,0 m	125°	15
1131023SX	GER SX (with jointed arm)	400 kg	3,0 m	125°	15

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
1131023DX	GER DX (with jointed arm)	1
1131023SX	GER SX (with jointed arm)	1
23001129	Gate 2 ROLL control Unit	1
23120420	RF 433 Mhz radio frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitt.	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102076	SUNSET synchronized photocells	2
12710205	PILAR aluminium column for SUNSET	2
12710135	LSGER Limit switch with electrical micro switch	2



OTHER ACCESSORIES

Code	Name
12710135	LSGER Limit switch KIT Ger

ACCESSORIES

Accessories for swing gates
General accessories

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Note: For further information please contact SEA sales offices

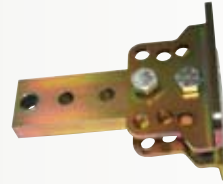
External Accessories for Swing gates



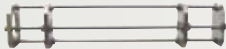
KEY ALPHA Key release kit (for basic ALPHA)
12715100



SECHT External release
NEW HALF TANK - electrohydraulic
HALF TANK- MINI TANK (with box, lock and
2,5 m cable)
12710060



Adjustable back bracket BRA to screw
for Libra/Alpha n.2 pieces (photo)
12715070
BRASU Adjustable back fixation bracket no welding
(2 pcs) for SURF
12715265



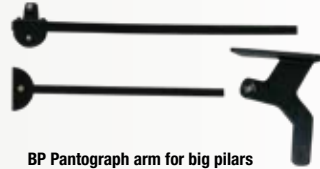
PS270 KIT mechanical stop FULL TANK 270
NEW HALF TANK 270
12715105

PS390 KIT mechanical stop FULL TANK 390/
NEW HALF TANK 390
12715110

PSM KIT mechanical stop MINI TANK
12715115

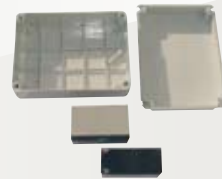
PSA KIT mechanical stop ALPHA 330
12710306

SECFL External release
for FLIPPER
(with box, lock and 2,5 m cable)
12710060



BP Pantograph arm for big pillars
12710500 for 95° for HALF TANK 270
12710515 for 130° for HALF TANK 270
12710530 for 95° for MINI TANK
12710535 for 130° for MINI TANK

ENCALPHA Encoder kit for ALPHA 230V
10900230



KIT BAT7 Batteries (BOX+ n.2 Batteries 7Ah)
23106305



LOCKELTOP Coupling plate for one leaf gate
(horizontal gate)
16700025

LOCKELV Coupling plate for two-leaves gate
(vertical gate)
16700020

Horizontal covering for electric lock mounting
16700035

Vertical covering for electric lock mounting
16700040



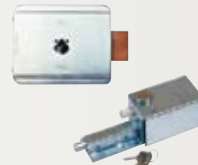
CILINT Cylinder with key for inside
applications
16700015

CILEST Cylinder with key for outside
applications
16700010

BYKEY By- pass valves calibration key
66300119



OILH Green oil for hydraulic
motors (5 liters)
65000045



LOCKEL 12V Electric lock for operators
without lock
16700030

LOCKELDOWN Vertical electric lock 220V
16700045

LOCKELDOWN vertical electric lock 24 V
16700046

MAGLOCK Magnetic electric lock
16700047 on request



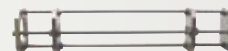
SAFETYGATE Linear
Encoder kit for swing operator
to combine with GATE ROLL
23105345 € 55,00

SAFETYGATE
Encoder kit for swing operator
to combine with GATE ROLL
23105335 € 49,00

Note: Particularly fit for new construction not panelled gates of max. 250 Kg - 2.50 m.
Sensitivity adjustment related to the single installation in different positions.



Electric lock cover
for FLIPPER 12710615 €
Electric lock with key DIN end **Electric**
lock cover for FLIPPER 12710610



LSHT270 KIT mechanical/electronic limit switches
for HALF TANK 270 12710490

LSHT390 mechanical/electronic limit switch for
HALF TANK 390 12710495

KIT mechanical/electronic limit switches for
MINI TANK 270 12715270

FIELD/FIELD OIL



Plus release with lever and security lock



Adjustable mechanical stop in opening and closing

ELECTROMECHANICAL IRREVERSIBLE IN-GROUND OPERATOR IN OIL-BATH FOR RESIDENTIAL USE FOR SWING GATES UP TO MAX 3,5 M LENGTH AND MAX 600 KG WEIGHT.

- The FIELD is an in-ground operator which has been designed to a high quality standard. Installations on pillars or where a hidden operator is requested for artistic gates.
- Oil-bath lubrication of the gears for max longevity (FIELD OIL only).
- Available in two versions: slow and fast and with power supply also in 24V low tension for max. security in use.
- Adjustable slow down in opening and closing with control unit GATE ROLL (version FIELD DOUBLE OIL).
- Universal for left and right hand side with cataphoresis box
- On request stainless steel box
- Adjustable mechanical stop in opening and closing. (In opening optional for FIELD)*. Optional electronic limit switches in combination with control unit with limit switches management (GATE 2 / USER)
- On request 180° version with chain transmission.

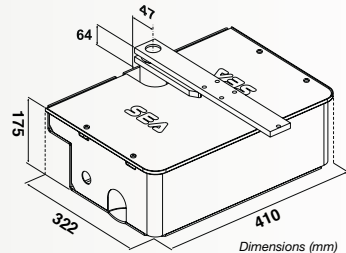
CODE	NAME	MAX LEAF WEIGHT	MAX LEAF LENGTH	OPENING TIME	FREQUE. OF USE
12300215	FIELD OIL	600 kg	3,5 m	20 sec/90°	30%
12300010	FIELD 24V OIL	600 kg	3,5 m	adjustable	70%
12300220	FIELD FAST OIL	200 kg	1,5 m	10 sec/90°	30%
12300240	FIELD	250 kg	2,5 m	20 sec/90°	25%
12301065	FIELD DOUBLE	250 kg	2,5 m	20 sec/90°	25%
12301030	FIELD DOUBLE OIL	600 kg	3,5 m	20 sec/90°	30%
12301025	FIELD DOUBLE 24V OIL	600 kg	3,5 m	adjustable	70%
12300305	BOX+accessories	-	-	-	-
12710270	LOCKINTS Basic release system	-	-	-	-
12710275	LOCKINTP Release system PLUS with lock	-	-	-	-

NB FIELD DOUBLE: 2 FIELD, 2 boxes, 2 basic releases, 1 control SWING 2 Roll, 1 receiver 433MHz Roll

FIELD DOUBLE OIL: 2 FIELD Oil, 2 boxes, 2 releases with lock, 1 control GATE 2 Roll, 1 receiver 433MHz Roll

STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
12301030	FIELD DOUBLE OIL	1
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL 433 Kit Antenna 433MHz	1
23105335	SAFETY GATE encoder	2
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2



Dimensions (mm)

OTHER ACCESSORIES

Code	Name
65000055	OILGS Yellow oil for FIELD/SATURN
23105345	Linear Safety Gate
12300315	BOXFI INOX box for Field with adjustable stop in open. and clos.
12710400	AP180 KIT openings up to 180° with chain (max 2 m leaf)
12715210	PSFO Mechanical stop in opening for FIELD Double
12710505	LEAFC lever
23101105	ESUN Control for solar panel battery charger for USER 2 24V
23106305	BAT Kit 7 Ah batteries with box
23106370	KIT SUNNY(20W solar panel + ESUN control unit+ BAT7 batteries)
12715245	Electronic limit switches (only for control unit with limit switch)
12710545	Crank for FIELD for electronic limit switches*

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 ROLL (USER 24V ROLL for FIELD 24V)

ACCESSORIES

- Accessories for swing gates
- General accessories

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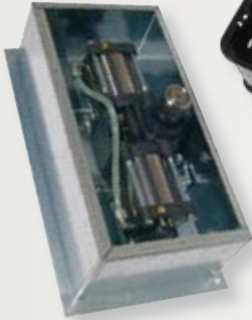


* Obligatory for FIELD for old versions Note : 23101105 to combine with 23106305

Note: On request special bracket for misaligned gates
Note: For further information please contact SEA sales offices

LYRA Jack 800 LYRA Jack 800 CP

Jack 800



Jack 800 CP



Lyra



Galvanized steel and polyester painted box (included)



Force adjusting valves

HYDRAULIC IN-GROUND OPERATOR FOR RESIDENTIAL USE. FOR MAX LEAF LENGTH UP TO 4 M AND 800 KG MAX WEIGHT.

- Hydraulic silence and reliability.
- Version with separate hydraulic unit and jack.
- SEA TOTAL QUALITY:** All main parts are manufactured and tested in-house.
- The functioning of the operator through oil and the inner lubrication of all mechanical components ensures longevity.
- Release with customized key in case of power failure.
- Version available with adjustable hydraulic slow down for a soft approaching of the leaf.
- Galvanized box for jack (included). The CP version is a self-carrying box out of steel (cataphoresis). (Jack or Jack CP)
- Available version with double lock (AC) or without lock (SB).
- Lyra 800CP lock with key and lever (required accessories) LOCK INTS or LOCK INTP.
- No-brake version and JACK 400 (with or without brake) on demand (see Nb.)

CODE	NAME	CYCLES/HOUR	ROTATION ANGLE	MAX. LEAF LENGTH	OPENING TIME
12001005	LYRA Unit AC with box	30	0,5 l	2,0 m	7,0 sec.
12002005	LYRA Unit SB with box	30	0,5 l	4,0 m	7,0 sec.

CODE	NAME	CYCLES/HOUR	ROTATION ANGLE	MAX. LEAF WEIGHT
12015010	JACK 800 jack brake 100° with box	30	100°	800 kg
12015050	JACK 800 jack brake 180° with box	30	180°	800 kg
12015020	JACK 800 CP jack brake 100° with carrying box	30	100°	800 kg
12015060	JACK 800 CP jack 180° with carrying box	30	180°	800 kg

Note: Versions without box - Version without brake Jack 800
Versions with Jack 400 available both with brake and without brake for 100°

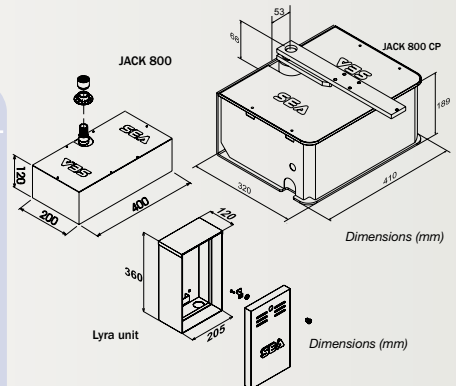
STANDARD INSTALLATION FOR TWO SWING LEAVES

Code	Name	Quantity
12001005	Unit AC with box	2
12015010	LYRA 800 jack with box 100°	2
23001129	GATE 2 ROLL control unit	1
23120470	RF ROLL 433 Mhz radio frequency module 1	1
12715020	COP5 Copper pipe 5m	2
23110470	LADYBIRD ROLL 2ch. 433 Mhz Transmitter 1	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 kit antenna 433 Mhz	1
23103065	ASTER key switch	1
23105335	SAFETY GATE encoder	2
23102070	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2

OTHER ACCESSORIES

Code	Name
65000045	OILH Green oil for hydraulic motors
12715020	LOP5 Copper pipe Ø 8 (5 m)
23105345	Linear Safety Gate (kit encoder for swing gate operator to be combined to GATE ROLL control units)
12710275	LOCKINTP key lock plus*
12710270	LOCKINTS key lock**
12710425	PSC Adjustable mech. stop in opening and closing for 1 Compact (2 pcs)

28 * only JACK CP (it is necessary one for each leaf) ** only JACK CP (optional)



LYRA Package

- N.1 Lyra Unit
- N.1 Box for unit
- N.1 Starting Capacitor
- N.1 Mounting accessories Kit
- N.1 Mounting instructions

JACK/CP Package

- N.1 Lyra 800 Jack
- N.1 Angular box / Carrying box
- N.1 kit mounting accessories
- N.1 Mounting instructions
- N.1 Warning sign board

ACCESSORIES

- Accessories for swing gates
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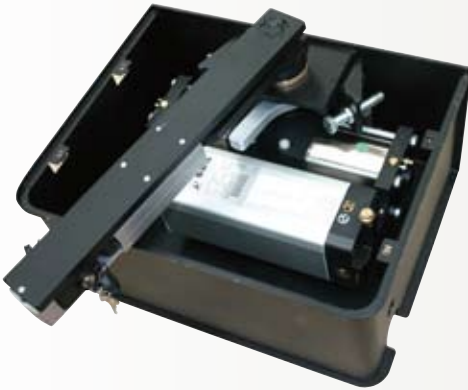
COMPACT 400/800

HYDRAULIC IN-GROUND OPERATOR FOR RESIDENTIAL USE. FOR MAX LEAF LENGTH UP TO 4M AND 800 KG MAX WEIGHT.

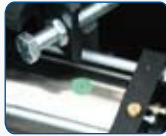
- Hydraulic silence and reliability.
- Compact version with hydraulic unit and jack.

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

- The functioning of the operator through oil and the inner lubrication of all mechanical components ensures longevity.
- Extremely silent. Operator compatible with old box COMPACT.
- New releasing system on leaf with customized key (basic release). PLUS release with security lock and operation lever. Additional release on operator.
- Optional: adjustable hydraulic slow down for soft approach of the leaf. Adjustable mechanical limit switches in opening and closing inside the box.
- Cataphoresis treated steel box with satin stainless steel lid. On request stainless steel or hot galvanized box.
- Optional mechanical /electronic limit switches for the precise functioning on physical stops.



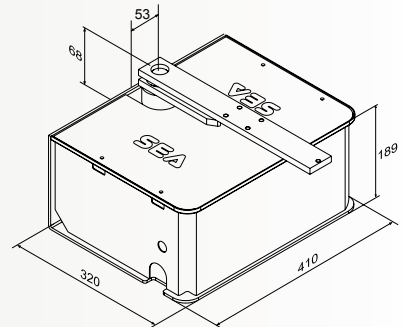
New Plus release with lever and security



Positive stops

CODE	NAME	CYCLES HOUR	PUMP	MAX LEAF WEIGHT	ROTATION ANGLE	MAX LEAF LENGTH
12112105	COMPACT 400 AC 140°	30	0,5l	400 kg	140°	4,0 m
12112110	COMPACT 400 SB 140°	30	0,5l	400 kg	140°	4,0 m
12120167	COMPACT 800 AC 140°	45	0,5l	800 kg	140°	4,0 m
12120175	COMPACT 800 SB 140°	45	0,5l	800 kg	140°	4,0 m
12120165	COMPACT 800 AC Brake 140°	45	0,5l	800 kg	140°	4,0 m
12120170	COMPACT 800 SB Brake 140°	45	0,5l	800 kg	140°	4,0 m
12120100	COMPACT 800 AC Brake 180°	45	0,5l	800 kg	180°	4,0 m
12121000	COMPACT 800 SB Brake 180°	45	0,5l	800 kg	180°	4,0 m
12101055	BOXCI INOX UNIVERSAL SELFCARRYING BOX with INOX lid					
12101060	BOXC CATAPHORESIS BOX INOX LID					
12710425	PSC Adjustable mech. stop in opening and closing for 1 Compact (2 pcs)					
12710270	LOCKINTS BASIC LOCK					
12710275	LOCKINTP PLUS RELEASE WITH LOCK					

For leaves over 2 m use an electric lock



Dimensions (mm)

OTHER ACCESSORIES

Code	Name
65000045	OILH Green oil for hydraulic motors
12101065	BOXCZ Hot galvanized box
23105345	Linear Safety Gate Linear Safety Gate (Kit encoder for swing gate operators to be combined to a GATE ROLL control unit)
12710428	PCSE Mechanical / electronic limit switches (2 pcs)

NOTE: For further information please contact the SEA sales offices.

COMPACT Package
 N.1 COMPACT operator
 N.1 Mounting accessories kit
 N.1 Starting capacitor
 N.1 Customized release key
 N.1 Mounting instructions and general notices
 N.1 Warning sign-board

ACCESSORIES

Accessories for swing gates
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COMPACT 800

24 V Electrohydraulic

LOW VOLTAGE(24Vdc) HYDRAULIC IN-GROUND OPERATOR FOR RESIDENTIAL USE. FOR MAX LEAF LENGTH UP TO 4 M OR 800 KG MAX WEIGHT.



24V DC
HYDRAULIC
TECNOLOGY



New Plus release with lever and security



Positive stops

- Compact version with hydraulic 24V unit and jack
- SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.
- The functioning of the operator through oil and the inner lubrication of all mechanical components grant a long time lasting.
- Extremely silent and maximum security with ammeter detection of the obstacles and inversion.
- New releasing system on leaf, customized key. PLUS release with security lock and operation lever. Additional release on operator.
- Slow-down and force adjustment on control unit USER 24V ROLL.
- Cataphoresis treated steel box with satiny stainless steel lid. On request stainless steel or hot galvanized box.
- Standard mechanical /electronic limit switches
- Optional battery for functioning in case of black-out.

CODE	NAME	CYCLES/ HOUR	PUMP	ROTATION ANGLE	MAX LEAF QX LENGTH	QX1
12122005	COMPACT 800 Electrohydr. AC 140° 24V*	45	0,50 l	140°	4,0 m	
12122000	COMPACT 800 Electrohydr. SB 140° 24V*	45	0,50 l	140°	4,0 m	
12101055	BOXCI INOX UNIVERSAL SELFCARRYING BOX with INOX lid					
12101060	BOXC CATAPHORESIS BOX INOX lid					
12710270	LOCKINT BASIC LOCK					
12710275	LOCKINTP PLUS RELEASE WITH LOCK					

* with mechanical /electronic limit switches

STANDARD INSTALLATION FOR TWO SWING LEAVES

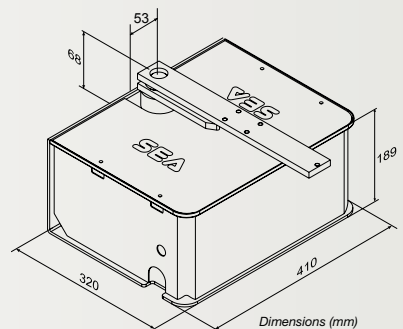
Code	Name	Quantity
12122005	Electrohydr. COMPACT 800 AC 140° 24V	2
12101060	BOXC Universal selfcarrying box INOX lid	2
23024020	USER HYDRO 2 24V ROLL control unit	1
23120470	RF ROLL 433 MHz radio frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433Mhz transm.	1
23104105	FLASH 24V warning lamp	1
23101075	ANTFL kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET photocell	2
12710205	PILAR aluminium column for SUNSET	2
12710270	LOCKINT Basic release	2

OTHER ACCESSORIES

Code	Name
65000045	OILH Green oil for hydraulic motors
12101065	BOXCZ hot galvanized box
23106370	KIT SUNNY (solar panel + control board + batteries)
12710505	LEAFC for not aligned leaves
23106305	BAT7 KIT 7Ah battery with box
23101105	ESUN Control board for solar panel and USER 2 24V ROLL charger

NOTE: For further information and for availability please contact the SEA sales offices.

30 N.B. : 23101105 da abbinare con 23106305



ELECTROHYDRAULIC COMPACT 800 Package

- N.1 COMPACT 800 operator
- N.1 Mounting accessories kit
- N.1 Starting capacitor
- N.1 Customized release key
- N.1 Mounting instructions and general notices
- N.1 Warning sign-board

ACCESSORIES

- Accessories for swing gates
- General accessories

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Accessories for in-ground swing gates



BOXC Self-carrying box for Compact 400/800 (Cataphoresis) with INOX lid
12101060

BOXCI Self-carrying box for Compact 400/800 INOX
12101055

BOXCZ Hot galvanized box for Compact 400/800
12101065

PSC Mechanical stop opening/closing (for 1 COMPACT 2 pcs.)
12710425



BOXF Box for Field for adjustable stop in opening and closing
12300305

BOXFI INOX box for Field for adjustable stop in opening and closing
12300315



LOCKINTP Release PLUS for Field/Compact 400/800 with cylinder and key
12710275

LOCKINT Basic release for Field/Compact 400/800
12710270



BASELYRA Foundation plate for LYRA
16200055



LOPS Copper pipe Ø 8 (5 m)
12715020



OILH Green oil for hydraulic motors (5 liters)
65000045

OILHG Yellow oil for FIELD/SATURN (5 liters)
65000050



AP180 KIT for openings up to 180° for FIELD (max. leaf opening 2 m)
12710400



Electronic limit switches (only for control unit with limit switch) IP67 per FIELD *
12715245 €

Guide to the PRODUCT

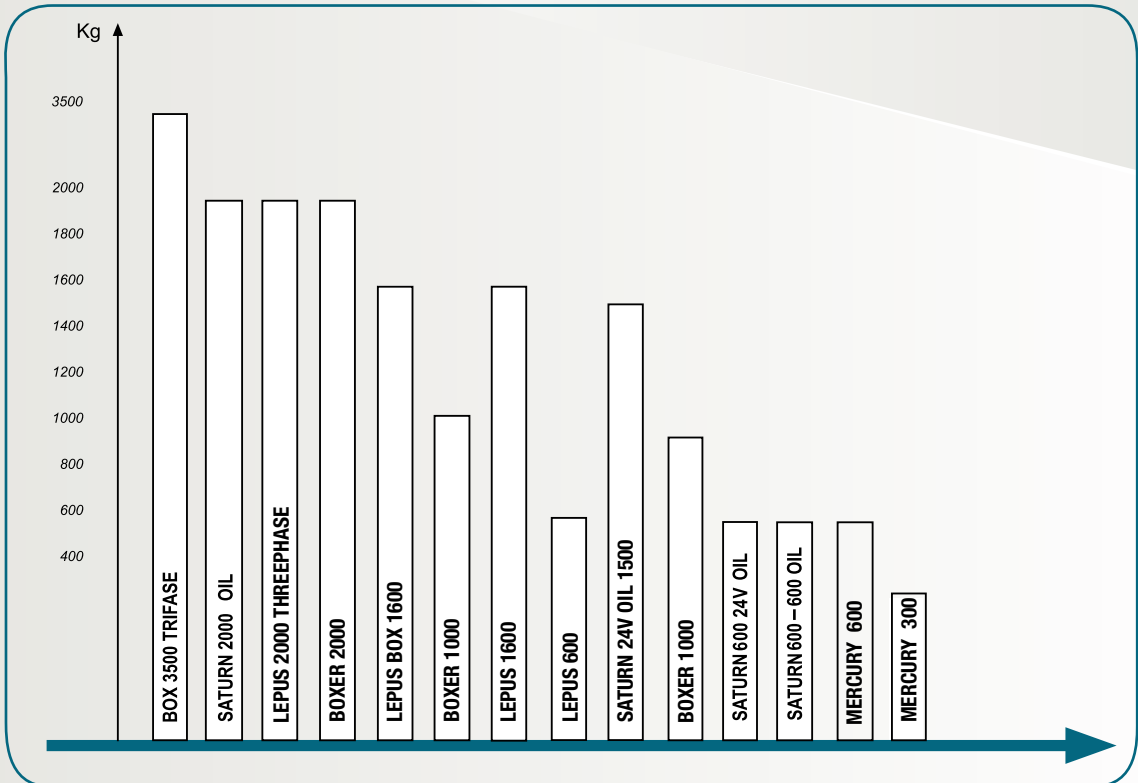


Note: On request BOX 6000 version (for sliding gates with max. 6000 Kg weight).

Sliding Gate

Specification	Mercury 24 V 300-600	Mercury 230V 300-600	Saturn 600 24V OIL Saturn 1500 24V OIL	Saturn 600 OIL Saturn 600 G1	Saturn 1000 OIL Saturn 2000 OIL	Boxer 1000 OIL Boxer 2000 OIL	Boxer 2000 OIL TRIFASE
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	230Vac±5% 50/60Hz
Motor Power	24 Vac	230 Vac	70/150 W	300 W	400-550 W	400-550 W	400W
Opening Speed	adjustable	12m/min	10 m/min(z16)	10 m/min(z16)	10 m/min(z16)	10 m/min(z16)	10 (11) m/min
Frequency of use	75%	40%- 30%	60%	30% - 40%	40%	55%	55%
Max Torque	0- 2 Nm (300) 0-18 Nm (600)	18 Nm (300) 25 Nm (600)	0 / 65 Nm	30 Nm	55/70 Nm	55/70 Nm	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	-20°C/+55°C
Weight	7,0-7,5 kg	6,8 -7,2 Kg	14,5 kg	14 Kg - 13 Kg	14 Kg	14 Kg	15 Kg
Max leaf weight	300-600 Kg	300-600 Kg	600/1500 Kg	600 Kg	1000/2000 Kg	1000/2000 Kg	2000 Kg
Anti-crushing clutch	Electronic	Electronic	Electronic	Mechanical/ Electronic	Mechanical/ Electronic	Mechanical/ Electronic	Mechanical in oil bath
Protection class	IP55	IP55	IP55	IP55	IP55	IP55	IP55
Starting Capacitor	-	12,5 µf- 16 µf	-	10µf	12,5µf	12,5µf	-
Limit switch	Mechanical	Mechanical	Mechanical	Mechanical/ Inductive	Mechanical/ Inductive	Mechanical/ Inductive	Mechanical/ Inductive
Page	35	35	36	36	37	38	38

MAX GATE WEIGHT

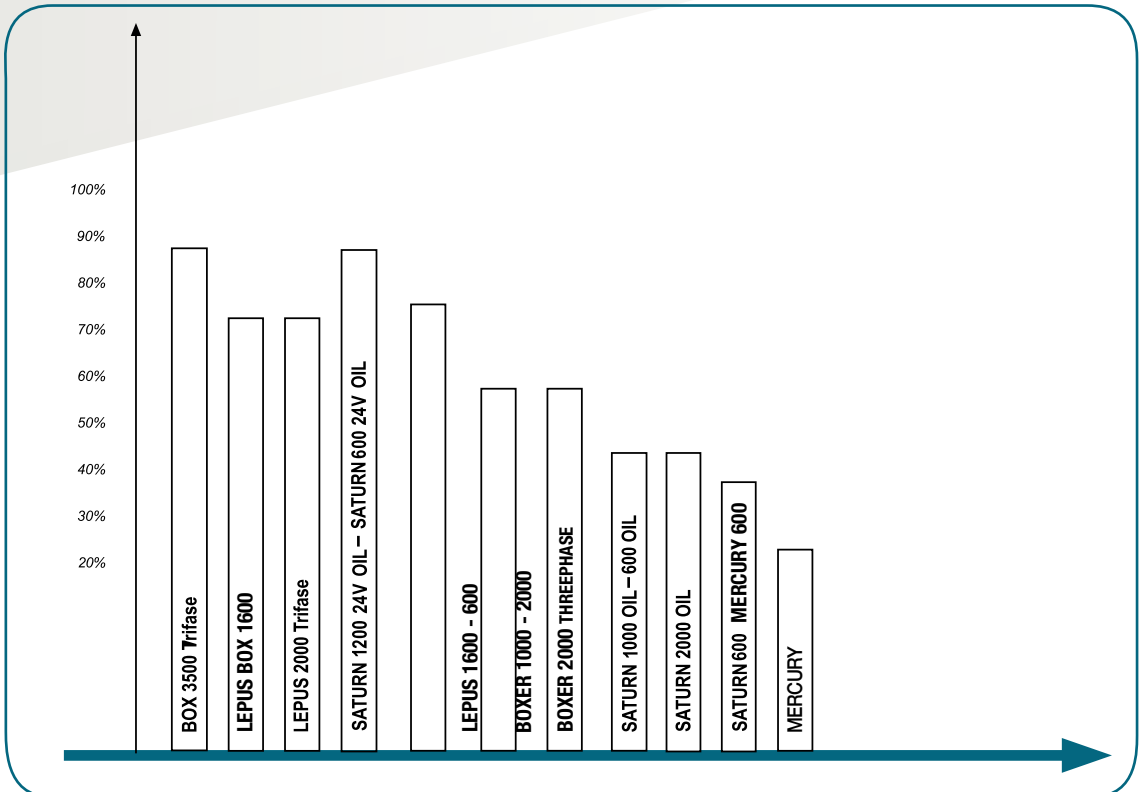


NOTE: Operating frequency is valid only for the first hour. Starting from the second hour the frequency decreases to the 60% of the declared performance (only for 220V operators) .
 To respect more easier the new rules on the strength of impact, SEA recommends to apply on all operators for sliding gates the Z 13 pinion.
 Opening speed faster of 25% with Z 20 pinion.

Sliding Gate

Specification	Lepus 600 - 1600	Lepus 2000 Threephase	Lepus Box 1600	Box 3500 Threephase
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	950 W
Opening Speed	10 m/min	10 m/min	10 m/min	10 m/min
Frequency of use	75% (intensive)	75% (intensive)	75% (intensive)	90% (intensive)
Max Torque	50 - 70 Nm	70 Nm	70 Nm	155 Nm
OperatingT°	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	15 kg	15,5 kg	35 kg	45 kg
Max leaf weight	600 - 1600 Kg	2000 Kg	1600 Kg	3500 Kg
Anti-crushing clutch	Mechanical in oil-bath Electronic	Mechanical in oil-bath Electronic	Mechanical in oil-bath Electronic	Maximal torque adjustment
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
Page	39	39	40	41

FREQUENCY OF USE



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 operators) .

To respect more easier the new rules on the strength of impact, SEA recommends to apply on all operators for sliding gates the Z 13 pinions. Opening speed 25% faster with Z 20 pinion.

MERCURY 300/600 24V



In option release with aluminium lever and lock. (to see pag.42)



MOTOR REDUCER FOR SLIDING GATES FOR RESIDENTIAL-INTENSIVE USE (24V VERSION). MAX GATE WEIGHT 600 Kg

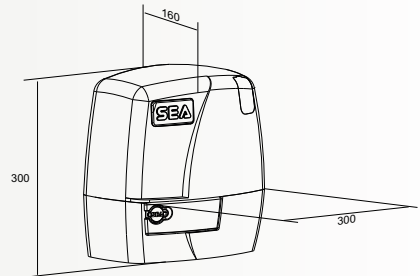
- Innovative design, compact and easy to install
- Die-cast pressure aluminium body
- Batteries kit, optional in 24V version
- Encoder (obstacles detector) for high safety use (optional 230V)
- Aluminium release lever and lock (optional)
- Fast and easy to install
- Electronic anti-crushing clutch. Mechanical anti-crushing clutch optional 230V
- Mechanical limit switch.
- Microswitch on release lever (optional)
- Adjustable slow down in opening and closing with control unit USER 1 24V ROLL and GATE 1 ROLL
- KIT SUNNY with solar panel for MERCURY24V

CODE	NAME	MAX LEAF LENGTH	MAX GATE WEIGHT	CYCLES/HOURS
11304000	MERCURY 300 mechanical limit switch	4,0 m	300 kg	20
11304005	MERCURY 300 24V mechanical limit switch (USER 1 24V ROLL)	4,0 m	300 kg	30
11304100	MERCURY 600 mechanical limit switch	6,0 m	600 kg	20
11304105	MERCURY 600 24V mechanical limit switch	6,0 m	600 kg	30

NOTE: Foundation plate included Manual release with special key for Mercury 300 -600 (metal lock optional)

STANDARD INSTALLATION FOR SLIDING GATES OF 300/600 KG

Code	Name	Quantity
11304000	MERCURY 300	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 Mhz radio frequency module	1
12715016	RACKP Plastic rack mod. 4 pack.1m	4
23110470	LADYBIRD ROLL Transmitter 2 ch. 433 Mhz	1
23104110	FLASH warning lamp	1
23101075	ANTLKit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET photocell	2
12710205	PILAR aluminium column for SUNSET	2



Dimensions (mm)

OTHER ACCESSORIES

Code	Name
11203005	ENCTAV Kit encoder for MERCURY 300 (230V)
23106305	BAT7 KIT 7Ah battery with box
23101105	ESUN Control for solar panel and USER 2 24V ROLL battery charger
16101120	PZ13T Z13 Pinion for MERCURY
23106370	KIT SUNNY (solar panel 20W + control unit ESUN + batteries BAT7) with MERCURY 24V for USER
12715275	Microswitch on release lever for Stop function
12710595	SECMER Security box with external release and cable

MERCURY / MERCURY 24V Package

- N.1 Motor-reducer MERCURY / MERCURY 24V
- N.1 Pinion Z16 for rack
- N.1 Control unit GATE 1 ROLL (GATE 1 24V ROLL/ USER1 24V ROLL 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

ACCESSORIES

Accessories for sliding gates
General accessories

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Note : 23101105 to combine with 23106305

NOTE: in case of external release to se pg. 36

NOTE: For further information please contact the SEA sales offices.



SATURN

600 G1 / 600 OIL / 600 24V OIL

GEAR MOTOR FOR SLIDING GATES FOR RESIDENTIAL USE.

- Solid structure out of die-cast pressure aluminium body.
- The SATURN 600 OIL versions are with oil lubrication of the gears for max durability.
- High quality, mechanical limit switch or inductive on request.
- Release system with lever and lock in case of power failure. Optional external release with metal box.
- Serial Encoder for the respect of the regulations (only SATURN 600 OIL).
- Control unit GATE 1 ROLL (for Saturn 600 OIL and SATURN 600 G1), USER 1 24V ROLL (for SATURN 600 24V OIL),
- Serial, two-discs mechanical clutch (Only SATURN 600 OIL).
- Micro-switch to disconnect the power supply through release lever in case of maintenance (current on OIL version).
- All models with cataphoresis treated base (except SATURN 600 EG1)
- On request supplementary painted base (color SM600)



In option release with aluminium lever and lock. (to see pag.42)



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

CODE	NAME	MAX LEAF LENGTH	MAX LEAF WEIGHT	CYCLES/HOUR MAX
12400207	SATURN 600 G1 mechanical limit switch	6,0 m	600 kg	25
12400210	SATURN 600 OIL inductive limit switch	6,0 m	600 kg	25
12400215	SATURN 600 OIL mechanical limit switch	6,0 m	600 kg	25
12400235	SATURN 600 24V OIL mechanical limit switch	6,0 m	600 kg	40
12400230	SATURN 600 24 OIL inductive limit switch	6,0 m	600 kg	40
12715255	Supplementary painted base			

NOTE: 600 OIL Version with control unit GATE 1 ROLL, serial encoder, mechanical clutch and oil lubrication, manual release with lock.
600 G1 Version grease lubrication with control unit GATE1 ROLL release with special key. Foundation plate included.

STANDARD INSTALLATION FOR A SLIDING GATE OF 600KG

Code	Name	Quantity
12400207	SATURN 600 E G1 mechanical limit switch	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 Mhz radio frequency module	1
12715016	RACKP Nylon rack mod. 4 m pack 1m	5
23110470	LADYBIRD ROLL 2 c. 433 Mhz Transmitter	1
23104110	FLASH warning lamp with card	1
23101075	ANTFL Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocell	2
12710205	PILAR aluminium column for SUNSET	2

OTHER ACCESSORIES

Code	Name
11203005	ENCOSAT Kit Encoder for SATURN 600 E G1
12710340	SECSAT Security box with external release and cable
12715240	Inox Box for SATURN external release
65000055	OILGS Yellow Oil for FIELD/SATURN (5 L)
23106305	BAT7 KIT 7Ah battery with box
23101105	ESUN control solar panel and battery charger for USER 2 24V
12710405	MSSAT KIT Microswitch for SATURN 600
16101047	PZ Z 20 Pinion
16101115	PZ13 Z 13 Pinion
23106370	Kit SUNNY (solar pannel 20W + card ESUN + batteries BAT7)

Note : 23101105 to combine with 23106305

NOTE: When using the external release with box it is recommended to make a predisposition before the installation. KIT SUNNY for SATURN 600 24V

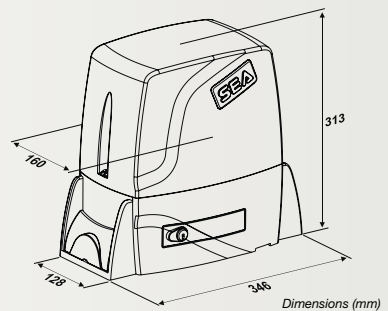
For further information please contact the SEA sales offices



for SATURN 600/600 G1



for SATURN 600 OIL/24V (Motor-reducer only)



Dimensions (mm)

SATURN 600 OIL/600 Package

- N.1 Motor-reducer SATURN 600
- N.1 Pinion Z16 for rack
- N.1 Control unit GATE1 ROLL (USER1 24V ROLL for SATURN 600 24V OIL)
- N.1 Mounting accessories Kit
- N.1 Release key
- N.4 Motor fixing nuts
- N.1 Mounting instructions and general notices
- N.1 Warning signboard
- N.1 Foundation plate

SATURN

1000 OIL / 1500 24V OIL / 2000 OIL
GEAR MOTOR FOR INTENSIVE USE FOR SLIDING GATES.



In option release with aluminium lever and lock.(to see pag.42)
 Micro switch standard



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

- Solid structure out of die-cast pressure aluminium body.
- All SATURN OIL versions are with oil lubrication of the gears for max durability.
- High quality, mechanical limit switch or inductive on request.
- Release system with lever and lock in case of power failure. Optional external release with metal box.
- Serial Encoder for the respect of the laws (except SATURN 1200 24 V).
- Optional battery back up for functioning in case of power failure (only SATURN 1500 24V).
- Control unit GATE 1 ROLL (for Saturn 1000-2000) and USER1 24V ROLL (for SATURN 1500 24V), see pages 79-80-81.
- Serial, two-discs mechanical clutch on all models (except SATURN 1500 24V).
- Cataphoresis treated base.
- On request supplementary painted base (colour SM600).

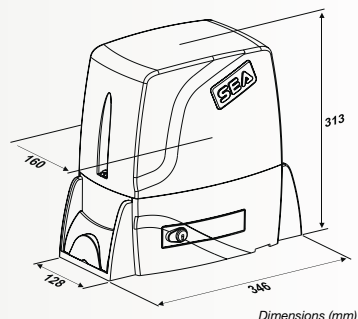
CODE	NAME	MAX LEAF ENGTH	MAX LEAF WEIGHT	CYCLES/HOUR MAX
1240026	SATURN 1500 OIL 24V mechanical limit switch	10 m	1500 kg	40
1240025	SATURN 1500 OIL 24V inductive limit switch	10 m	1500 kg	40
12400100	SATURN 1000 OIL mechanical limit switch	10 m	1000 kg	30
12400105	SATURN 1000 OIL inductive limit switch	10 m	1000 kg	30
12400040	SATURN 2000 OIL mechanical limit switch	10 m	2000 kg	25
12400045	SATURN 2000 OIL inductive limit switch	10 m	2000 kg	25
12715255	Supplementary painted base			

Foundation plate included.

NOTE: Version OIL with GATE 1 ROLL control board, serial encoder, mechanical clutch and oil lubrication.
 24 V version with oil lubrication and control board USER 1 24V ROLL

STANDARD INSTALLATION FOR A SLIDING GATE OF 1000 KG

Code	Name	Quantity
12400100	SATURN 1000 OIL mechanical limit switch	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 MHz radio frequency module	1
12715010	RACKP Galvanized rack mod. 4 pack.1m	5
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 Kit Antenna 433 MHz	1
23103065	ASTER aluminium key switch	1
23102076	SUNSET synchronized photocells	2
12710205	PILAR aluminium column for SUNSET	2



Dimensions (mm)

OTHER ACCESSORIES

Code	Name
12710340	SECSAT Security box with external release and cable
12715240	Inox Box for SATURN external release
65000055	OILGS Yellow Oil for FIELD/SATURN (5 L)
23106305	BAT7 KIT battery for SATURN 1500 24V OIL with box (7Ah)
23101105	ESUN Control solar panel and battery charger for USER
16101047	PZ Z 20 Pinion
16101115	PZ13 Z 13 Pinion
23106370	KIT SUNNY (solar panel 20W +control board ESUN + batteries BAT7)

SATURN 1000/1200 24V/2000 Package

- N.1 Motor-reducer Saturn 1000/1200 24V/2000
- N.1 Pinion Z16 for rack
- N.1 Control unit GATE1 ROLL(GATE 1 24V ROLL for SATURN 1200 24V)
- N.1 Mounting accessories Kit
- N.1 Release key
- N.4 Motor fixing nuts
- N.1 Mounting instructions and general notices
- N.1 Warning signboard
- N. 1 Foundation plate

ACCESSORIES

Accessories for sliding gates
 General accessories

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Note : 23101105 to combine with 23106305

NOTE: When using the external release with box it is recommended to make a predisposition before the installation.

NOTE: For further information please contact the SEA sales offices. KIT SUNNY for SATURN 24V



BOXER 1000/2000

GEAR MOTOR IN OIL-BATH FOR SLIDING GATES FOR CONDOMINIUM OR INTENSIVE USE.



Release with aluminium lever and lock.



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

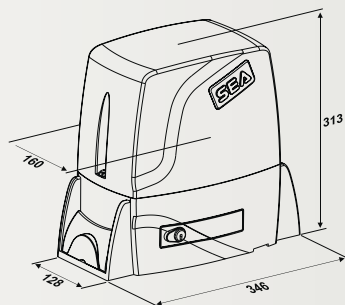
- Solid structure out of die-cast pressure aluminium body, allowing the motorisation of sliding gates of big dimensions.
- **Strong, reliable and with an optimum quality/price relationship.**
- The electric motor and the gears of all the BOXER versions are with oil lubrication for max. durability.
- High quality, mechanical or inductive limit switches
- Release system with lever and lock in case of power failure. Optional external release with metal box.
- Serial, two-discs mechanical clutch in oil-bath on all versions.
- Base with cathaphoresis treatment
- Serial Encoder for the respect of the laws
- Control units of the GATE ROLL series
- On request supplementary painted base (color SM600)

CODE	NAME	MAX LEAF LENGTH	MAX LEAF WEIGHT	CYCLES/HOUR
12405000	BOXER 1000 mechanical limit switch	10,0 m	1000 kg	35
12405005	BOXER 1000 inductive limit switch	10,0 m	1000 kg	35
12405200	BOXER 2000 mechanical limit switch	10,0 m	2000 kg	30
12405205	BOXER 2000 inductive limit switch	10,0 m	2000 kg	30
12715255	Supplementary painted base			

Foundation plate included. Each with control unit GATE 1 ROLL, mechanical clutch and encoder.

STANDARD INSTALLATION FOR A SLIDING GATE OF 1000KG AND BOXER 2000 THREE-PHASE

Code	Name	Quantity
12405000	BOXER 1000 mechanical limit switch	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 MHz radio frequency module	1
12715010	RACKZ Galvanized rack mod. 4 pack.1m	5
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23104100	ANTFL433 FLASH warning lamp	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	2
12710205	PILAR aluminium column for SUNSET	2



OTHER ACCESSORIES

Code	Name
12710340	SECSAT Security box with external release and cable
12715240	Inox Box for BOXER external release
65000055	OILGS Yellow oil for FIELD/SATURN (5 l)
16101047	PZ20 Pinion
16101115	PZ13 Pinion

- BOXER 1000/2000 Package**
- N.1 Motor-reducer BOXER 1000//2000
 - N.1 Pinion Z16 for rack
 - N.1 Control unit GATE 1 ROLL
 - N.1 Mounting accessories Kit
 - N.1 Release key
 - N.4 Motor fixing nuts
 - N.1 Mounting instructions and general notices
 - N.1 Warning signboard
 - N. 1 Foundation plate

ACCESSORIES

NOTE: When using the external release with box it is recommended to make a predisposition before the installation.
NOTE: For further information please contact the SEA sales offices.

Accessories for sliding gates
General accessories

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NEW LEPUS

GEAR MOTOR IN OIL-BATH FOR INTENSIVE USE FOR SLIDING GATES UP TO MAX 1600 KG. (2000 KG LEPUS 2000 THREE-PHASE).



- **Reliability of the oil-bathed gear motor.**
- **SEA TOTAL QUALITY:** All main parts are manufactured and tested in-house.
- Oil-bath lubrication of the motor and all components for a durability.
- Manual release protected by a door with key for high safety. External release optional.
- Mechanical and electronic oil-bath two-discs clutch for a double anti-crushing safety.
- Serial encoder (obstacles detector) for a high anti-crushing safety.
- Foundation plate adjustable in length and width (optional).
- GATE 1 ROLL control unit to satisfy all the working needs. (LEPUS 600 and 1600), without control unit (LEPUS 2000 Three-phase, reversible).
- Lepas Reversible to use with electric lock



Release with lever accessible through door with lock



Internal foto

CODE	NAME	MAX LEAF LENGTH	MAX GATE WEIGHT	CYCLES/HOURS
11102035	LEPUS 600 REVERSIBLE mechanical limit switch	11,0 m	600 Kg	50
11102025	LEPUS 600 inductive limit switch	11,0 m	600 Kg	50
11102030	LEPUS 600 mechanical limit switch	11,0 m	600 Kg	50
11110305	LEPUS 1600 inductive limit switch	11,0 m	1600 kg	50
11110300	LEPUS 1600 mechanical limit switch	11,0 m	1600 kg	50
11110505	LEPUS 2000 THREEPHASE inductive limit switch	11,0 m	2000 kg	50
11110500	LEPUS 2000 THREEPHASE mechanical limit switch	11,0 m	2000 kg	50

NOTE: LEPUS 2000 THREE-PHASE and 600 REVERSIBLE without control unit. Recommended GATE 1 ROLL THREE-PHASE for external use (see control units page 93)

LEPUS 600 and 1600 are sold with GATE1 ROLL, encoder and mechanical clutch.
Foundation plate included

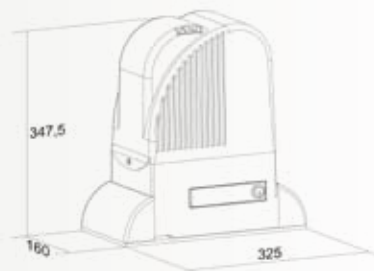
STANDARD INSTALLATION FOR A SLIDING GATE OF 1600 KG

Code	Name	Quantity
11110300	LEPUS 1600 mech. lim.sw. with lever	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 Mhz radio frequency module	1
12715010	RACKZGalv. Rack mod. 4 pack. 1m	8
23110471	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
23104100	ANTFL433 FLASH warning lamp	1
23101075	Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	2
12710205	PILAR aluminium column for SUNSET	2

OTHER ACCESSORIES

Code	Name
65000020	OILGL Yellow oil for gear motors Lepas series
16101015	PZ20 Pinion
16101005	PZ13 Pinion
12710600	SECLEP Security box with external release and cable
12715285	Inox Box for LEPUS external release

NOTE: For further information please contact the SEA sales offices.



Dimensions (mm)

LEPUS Package

- N.1 Gear motor Lepas
- N.1 Pinion Z16
- N.1 Control unit GATE 1 ROLL only (LEPUS 600 and 1600)
- N.1 Mounting accessories kit
- N.4 Release key
- N.1 Mounting instructions and general notes
- N.1 Warning signboard
- N.1 Foundation plate

ACCESSORIES

- Accessories for sliding gates
- General accessories

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LEPUS BOX 1600

GEAR MOTOR IN OIL-BATH FOR INDUSTRIAL USE
FOR SLIDING GATES UP TO MAX 1600 KG.



Mechanical limit switch



Internal Foto

● Reliability of the oil-bathed gear motor

● **SEA TOTAL QUALITY:** All main parts are manufactured and tested in-house.

● Oil-bath lubrication of the motor and all components for longrivity.

● Galvanized and polyester painted sheet steel enclosure designed for heavy industrial application.

● Access door to the manual release with key for more security.

● Mechanical and electronic oil-bath two-discs clutch for a double anti-crushing safety.

● Serial encoder (obstacles detector) for a high anti-crushing safety.

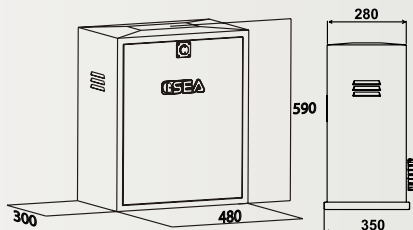
● GATE 1 ROLL control unit to satisfy all working needs.

CODE	NAME	MAX LEAF LENGTH	MAX GATE WEIGHT
11110375	LEPUS BOX 1600 G1 with mechanical limit switch with lever	11,00 m	1600 kg
11110380	LEPUS BOX 1600 G2	11,00 m	1600 kg

Note: Foundation plate included

STANDARD INSTALLATION FOR SLIDING GATES OF MAX 1600KG FOR INDUSTRIAL USE

Code	Name	Quantity
11110375	LEPUS BOX 1600 mechanical limit switch with lever	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 Mhz radio frequency module	1
12715010	RACKZ Galvanized rack mod. 4 pack. 1m	8
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	2
12710205	PILAR aluminium column for SUNSET	2



Dimensions (mm)

On request pinion Z16 for rack module 6 available (see accessories).

OTHER ACCESSORIES

Code	Name
65000020	Yellow OILGL for gear motor Lepus series (5l)
12710060	SECHT Box for external release for LEPUS BOX 1600

LEPUS BOX 1600 Package

- N.1 Gear motor Lepus Box 1600
- N.1 Pinion Z16 double shim module 4
- N.1 Control unit GATE 1 ROLL with on board receiver
- N.1 Mounting accessories kit
- N.1 Release key
- N.1 Mounting instructions and general notice
- N.1 Warning signboard

ACCESSORIES

Accessories for sliding gates
General accessories

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BOX 3500 THREE-PHASE



GEAR MOTOR IN OIL-BATH FOR INDUSTRIAL USE FOR SLIDING GATES UP TO 3500 KG.

- **Reliability of the oil-bathed gear motor.**

- Galvanized and polyester painted sheet steel enclosure, designed for heavy industrial application.
- Access door to the manual release with key for more security.
- Mechanical torque adjuster in oil-bath.
- Special thermo-treatment of the inner components for max resistance in the industrial use.
- High quality IP 65 mechanical limit switch in metal box.
- Control unit GATE 1 ROLL three-phase.
- On request special version BOX 6000 (for sliding gates of max 6000 Kg).
- For more safety it is recommended to install an electric or magnetic lock on the gate.



Gear in oil-bath



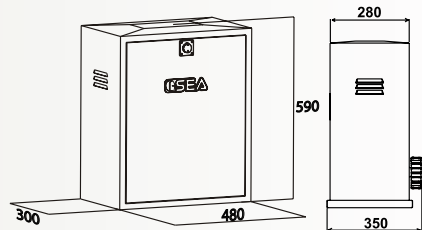
Internal view

CODE	NAME	MAX LEAF LENGTH	MAX GATE WEIGHT	CYCLES/HOURS
11115015	LEPUS BOX 3500 THREE-PHASE	14 m	3500 kg	40

Note: Foundation plate included

STANDARD INSTALLATION FOR SLIDING GATES OF MAX 3500 KG

Code	Name	Quantity
11115015	LEPUS BOX 3500 THREE-PHASE	1
12705050	COSTA 200 (rubber edge)	1
23120470	RF ROLL 433 Mhz radio frequency module	1
12715010	RACKZ Rack mod. 4 1m pack.	10
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL Kit Antenna 433 MHz	1
23103065	ASTER aluminium key switch	1
23102076	SUNSET synchronized photocells	2
12710205	PILAR aluminium column for SUNSET	2



Dimensions (mm)

OTHER ACCESSORIES

Code	Name
65000020	OILGL Yellow oil for gear motor Lepus series (5 l)
16101075	PZ16M6 Pinion for Lepus Box -Box 3500
16101070	PZ24M6 Pinion Z24 mod. 4 for Lepus Box -Box 3500

LEPUS BOX 4000 Three-phase Package

- N.1 Gear motor LEPUS BOX 4000 Three-phase
- N.1 Pinion Z24 module 4
- N.1 Control unit GATE 1 ROLL Three-phase
- N.1 Mounting accessories kit
- N.1 Release key
- N.1 Mounting instructions and general notice
- N.1 Warning signboard
- On request pinion Z16 for rack module 6 available
- N.1 Foundation plate

ACCESSORIES

Accessories for sliding gates
General accessories

Pag 42
Pag 90 -93

Accessories for Sliding Gates



RACKZ Galvanized rack mod. 4
(1 m) + accessories
12715010

RACKP Nylon rack (up to 600 Kg)
metal core mod. 4 (1 m) + accessories
12715016

RACKZM6 Galvanized rack mod. 6
(1 m) + accessories
12715013



PZ20 Pinion Z20 mod. 4 for SATURN/BOXER
16101047

PZ13 Pinion Z13 double mod. 4 for LEPUS and LEPUS 1600
16101007

PZ16 Pinion Z16 double mod. 4 for LEPUS- LEPUS BOX 1600
16101021

PZ16DLM6 Pinion Z16 mod. per BOX 3500
16101075

PZ13 Pinion Z13 for SATURN/BOXER/LEPUS
16101115

PZ20 Pinion Z20 per LEPUS
16101016

PZ12 Pinion Z12 mod. 6 for LEPUS 3500
16101106

PZ20 Pinion Z20 for MERCURY
16101089

R120V Wheel ø 120 V groove
30 mm shim with 2 ball bearings
12701010

R120U Wheel ø 120 U groove
30 mm shim with 2 ball bearings
12701005

R140V Wheel ø 140 V groove
30 mm shim with 2 ball bearings
12701020

R140U Wheel ø 140 U groove
30 mm shim with 2 ball bearings
12701015



R160V Wheel ø 160 V groove
30 mm shim with 2 ball bearings
12701035

R160U Wheel ø 160 U groove
30 mm with 2 ball bearings
12701030

R200V Wheel ø 200 V groove
30 mm shim with 2 ball bearings
12701050

R200U Wheel ø 200 U groove
30 mm with 2 ball bearings
12701045



ENCTAV Kit encoder for Taurus
11303005

ENCSAT Kit encoder for Saturn
11203005

MSSAT KIT Microswitch SATURN 600
12710405



SECMER Security box with external release and cable for MERCURY
12710595

SECSAT Security box with external release and cable for SATURN/BOXER
12710340

Inox Box for SATURN/BOXER external release
12715240

SECLEP Security box with external release and cable for NEW LEPUS
12710600

Inox Box for NEW LEPUS external release
12715285



OILGL Yellow oil for gear motors Lopus series (5 l)
65000020

OILGS Yellow oil for Saturn (5 l)
65000055



Electric lock cover for MERCURY end SATURN
12710615

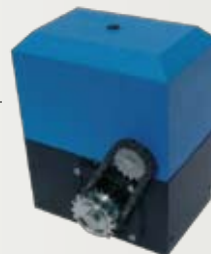
Electric lock with key DIN end Electric lock cover for MERCURY end SATURN
12710605

Guide to the PRODUCT

Sectionals, overhead, folding doors and operators for garage doors

OPERATORS FOR BALANCED SECTIONAL DOORS

MAX DOOR DIMENSIONS	Up to 20 sqm with grease	TORG 800 SEC.	pag.46
		LEPUS 1600 SEC.	pag.45
	Up to 30 sqm		
	Up to 35 sqm oil-bath	LEPUS 1800 TR. SEC.	pag.45



OPERATORS FOR OVERHEAD DOORS WITH SPRING

MAX DOOR DIMENSIONS	Up to 2,3 H x 3 L m	CORONA 60	pag.51
	Up to 2,3 H x 4 L m	CORONA 110	pag.51

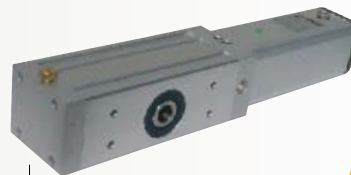
OPERATORS FOR COUNTERBALANCED OVERHEAD DOORS

MAX DOOR DIMENSIONS	Up to 2,7 H x 3 L m	CORONA 60	pag.51
	Up to 2,7 H x 4 L m	CORONA 110	pag.51



OPERATORS FOR SECTIONAL GARAGE DOORS

MAX DOOR DIMENSIONS	Up to 2,4H x 3,5 L m	CORONA 60	pag.51
	Up to 2,4 H x 5 L m	CORONA 110	pag.51



OPERATORS FOR OVERHEAD DOORS

MAX WEIGHT OVERH. DOORS	Up to 16 kg/sqm residential/intensive use	hydraulic residential/intensive use	Max width up to 3,5 m	SCUTI AC - SB	pag.48
			Max width over 3,5 m	SCUTI 2 SIDE OPERATORS	pag.48
			Max width up to 3,5 m	NEW ERG	pag.47
	Up to 10 kg/sqm residential use	electromech. residential use	Max width between 3,5 and 4,7 m	NEW ERG 2 side operators	pag.47



OPERATORS FOR INDUSTRIAL FOLDING DOORS

MAX LENGTH OF THE PANEL	Up to 1 m	Hydraulic intensive use	ARA AC	pag.49
	Up to 1,5 m	Hydraulic intensive use	ARA SB	pag.49
	Up to 1 m	Electromechanical intensive use	OMEGA	pag.50



Garage, sectional and folding doors

Specification	Corona 60/ Corona 110	Lepus 1800 Lepus Sectional Three-phase	Torg 800 Sectional	Song 200/ Song 240
Power supply	230Vac	230/380Vac	230Vac	230Vac
Motor power	140/370 W	450 W	310 W	450/1100 W
Opening speed	adjustable	-	-	0,10/0,12 m/sec
Frequency of use	60% 40%	70% - 80%	25%	25%
Max Torque	600/1100 N	60 Nm	30 Nm	-
Working temperature	-20°C/60°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	13/14 kg	15,5 kg	15,5 kg	8/16 kg
Max Door weight	60/110 kg	-	-	150/260 kg
Anti crushing clutch	Electronic	Electronic/mechanical	Electronic/mechanical	-
Protection degree	IP20	IP55	IP55	-
Starting capacitor	-	-	10µF	20/25- µF
Limit switch	Mechanical	Mechanical	Mechanical	Mechanical
Page	51	45	46	52

Specification	Scuti	Erg	Ara	Omega
Power supply	230Vac	230Vac	230Vac	230Vac
Motor power	220 W	200 W	220 W	220 W
Pump capacity	0,75 l	-	-	-
Cycles/hour	60	30	50	30
Working temp.	-20°C/55°C	-20°C/55°C	-20°C/+55°C	-20°C/+55°C
Weight	13 kg	9,5 kg	-	-
Max door weight	-	-	-	-
Anti-crushing clutch	yes	yes	yes	yes
Protection degree	IP55	IP44	IP55	IP44
Starting capacitor	12,5µF	16µF / -	12,5µF	16µF
Limit switch	-	Electronic optional	-	Electronic optional
Page	48	47	49	50

LEPUS SECTIONAL



GEAR MOTOR IN OIL-BATH FOR SEMI-INTENSIVE USE FOR SECTIONAL DOORS OF MAX 35 SQM (LEPUS 1800 SEC.) 30 SQM (LEPUS 1600 SEC.).

● **Reliability of the oil-bathed gear motor.**

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

- Oil-bath lubrication of the motor and all components for a time lasting duration.
- Die-cast pressure aluminium body.
- Two-discs, mechanical clutch in oil-bath (anti-crushing safety)
- External release through box (optional)
- GATE1 ROLL external control unit to satisfy all working needs.
- Serial encoder (obstacles detector) for a high anti-crushing safety.



Manual release with lever and 5 m cable



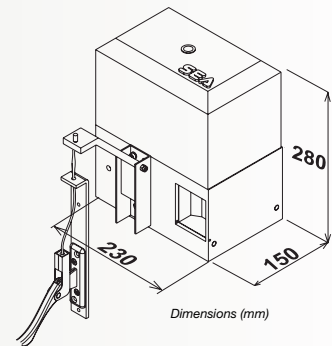
Mechanical limit switch with chain transmission of easy adjustment

CODE	NAME	MAX DOOR DIMENSION	FREQUENCY OF USE
11110050	LEPUS 1600 Sectional mono-phase (without control unit)*	30 sqm	70%
11110070	LEPUS 1800 Sectional three-phase (without control unit)*	35 sqm	80%

*Recommended external control unit GATE1 ROLL

STANDARD INSTALLATION FOR AN INDUSTRIAL DOOR OF MAX. 30 SQM

Code	Name	Quantity
11110050	LEPUS 1600 SECTIONAL	1
23001120	GATE 1 ROLL control unit	1
12710280	SECLS Security box for external release	1
23120470	RF Roll 433 Mhz radio frequency module	1
16200071	PLATELS Fixing plate for Lepus	1
12705060	Costa 300 (rubber edge)	1
23110470	LADYBIRD ROLL 2ch. 433MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	1



LEPUS SECTIONAL PACKAGE
 N.1 Gear motor Lepus Sectional
 N.1 Pinion Z16 Z20
 N.1 Mounting accessories Kit
 N.1 Release with handle Kit
 N.1 Mounting instructions and general notice
 N.1 Warning signboard

OTHER ACCESSORIES

Code	Name
12715005	CATS Chain 1/2"x 5/16 (2 m pack.) for Lepus and Torg Sec.
12715015	GCATS Joint for chain for Lepus and Torg Sectional
16101025	PDZ1620LS Double pinion Z16 Z20 for Lepus Sectional

ACCESSORIES

Accessories for garage, sectional, folding doors
 General accessories

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TORG 800 SECTIONAL

GEAR MOTOR FOR RESIDENTIAL USE FOR SECTIONAL DOORS OF MAX 20 SQM.

- Strong, reliable and with a optimum Quality/Price relation.
- Die-cast pressure aluminium body.
- Anti-crushing electronic clutch.
- Encoder (obstacle detector) for the maximum security in use (optional).
- External control unit GATE1 ROLL with receiver to satisfy all working needs.
- On request external release with security box.



Mechanical limit switch with chain transmission



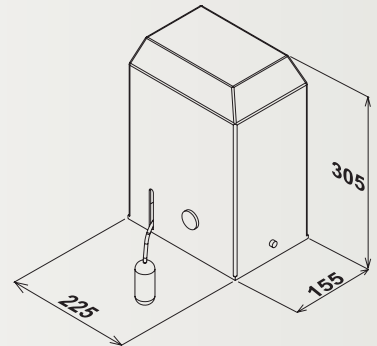
Manual release with lever and 5 m cable

CODE	NAME	MAX DOOR DIMENSIONS	FREQUENCY OF USE
11301065	TORG 800 Sectional (without control unit)*	20 sqm	25%

*GATE 1 ROLL recommended external control unit

STANDARD INSTALLATION FOR AN INDUSTRIAL DOOR OF MAX 20 SQM.

Code	Name	Quantity
11301065	TORG 800 SECTIONAL	1
23001120	GATE 1 ROLL Control unit	1
23120470	RF Roll 433 Mhz radio frequency module	1
12710280	SECLS External release for external lock	1
16200072	Fixation plate for sectional Torg	1
12705060	COSTA 300 (rubber edge)	1
23110470	LADYBIRD ROLL 2ch. 433MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL Kit Antenna 433 MHz for FLASH	1
23103065	ASTER aluminium key switch	1
23102076	SUNSET synchronized photocells	1



OTHER ACCESSORIES

Code	Name
12715005	CATS Chain 1/2"x 5/16 (2 m pack.) for Lepus and Torg Sec.
12715015	GCATS Joint for chain for Lepus and Torg Sectional
16101030	PDZ1620TS Double pinion Z17 Z20 for Torg Sectional

- TORG Package
 N.1 Gear Motor Torg Sectional
 N.1 Pinion Z17
 N.1 Mounting accessories Kit
 N.1 Kit release
 N.1 Mounting instructions and general notice
 N.1 Warning signboard

ACCESSORIES

Accessories for garage, sectional, folding doors
 General accessories

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ERG



OPERATOR FOR GARAGEDOORS FOR RESIDENTIAL USE WITH MAX 10KG/SQM WEIGHT.

- Easy to install, safe and reliable.
- Slow down in opening and closing
- New design
- For doors between 3,5m and 4,7 m length (3 m height) it is necessary to use 2 operators ERG with external control unit (GATE 2 ROLL or SWING 2 ROLL)
- Optional encoder Kit for inversion in case of obstacle
- Time adjustable courtesy lamp inside the operator (optional).
- On request limit switch group. Predisposition on the operator for very easy mounting. (standard in ERG G1)
- Available installation kit for square tube (25x25) without weldings and accessories.
- Aluminium release lever



Release system with lever in case of power failure



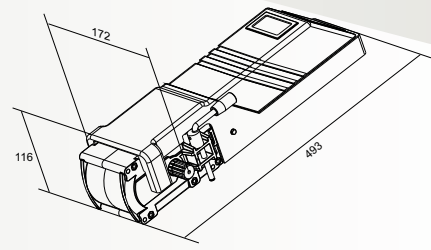
Thermo treated gears on rotating arms supported by ball bearings;

CODE	NAME	MAX DOOR DIMENSIONS	FREQUENCY OF USE	CYCLES/HOURS
11315051	ERG G1 (with limit switch)	3 h x 3,5 l - (3 h x 4,7)*	10kg/sqm	25
11315056	ERG (without control board)	3 h x 3,5 l - (3 h x 4,7)*	10kg/sqm	25
11315065	ERG S (with SLIDE)	3 h x 3,5 l - (3 h x 4,7)*	10kg/sqm	25

ERG G1: with control unit GATE 1 ERG S: with control unit SLIDE
 *NOTE: Dimensions related to the use of two side operators larger than 3,5 m.

STANDARD INSTALLATION FOR AN INDUSTRIAL DOOR OF MAX 20 SQM

Code	Name	Quantity
11316025	Kit ERG G1 (with installation Kit transmission tubes and brackets)	1
12710071	External release for ERG	1
23101075	ANTFL433 kit Antenna 433 Mhz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	1
23110470	RF ROLL 2 ch. 433 MHz Transmitter	1



Dimensions (mm)

OTHER ACCESSORIES

Code	Name
11316005	LSERG limit switch group with micro-switch
12710071	SECERG External release for ERG
12710111	ACC2ERGC Installation Kit for 2 motors ERG curved arm
12710106	ACC1ERGC Installation Kit for 1 motor ERG curved arm
12710110	ACC2ERG Installation Kit for 2 motors ERG
12710105	ACC1ERG Installation Kit for 1 motors ERG
12710232	TQ3 Square tube 25X25 L=3m
11303005	ENCERG KIT encoder (with fixation plate)
12710365	ACC1ERGTQ Installation Kit for 1 ERG motor for square tube with 1600mm bracket
12710370	ACC2ERGTQ Installation Kit for 2 ERG motors for square tube with 2 1600mm brackets
12710107	BRDR Straight arm for 1 motor
12710112	BRDR2 Straight arm for 2 motors
12710108	BRC1 Curved arm for 1 motor
12710113	BRC2 Curved arms for 2 motors
12710230	TUBTRAERG Transmission tubes for ERG
12710104	Courtesy light card + Led

ACCESSORIES FOR 1 MOTOR ERG WITH SQUARE TUBE:

- N.1 12710232 Square tube
- N.1 12710365 Installation Kit for 1 motor
- N.1 12710107 straight arm
- N.1 12710108 curved arm

ACCESSORIES FOR 2 MOTORS ERG WITH SQUARE TUBE:

- N.1 12710370 Installation Kit for 2 motors
- N.2 12710122 straight arms
- N.2 12710133 curved arms

ACCESSORIES

Accessories for garage, sectional, folding doors
 General accessories

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NOTE: The bracket in the installation kits is of 1600 mm.



SCUTI

HIGH QUALITY HYDRAULIC OPERATOR FOR A PERFECTLY HARMONIC MOVEMENT FOR OVERHEAD DOORS OF MAX 16KG/SQM WEIGHT.



- Hydraulic reliability, silence and security also for garage doors.

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

- The working of the operator through oil and the inner lubrication of all the mechanical components grant a long time lasting.
- Extremely silent thanks to the hydraulic system.
- On request hydraulic slow down in closing.
- Anti-intrusion safety through inner lock.
- The hydraulic lock tightness is warranted for doors which are under 3,5 m large. For doors over 3,5 m use 2 SCUTI operators.



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



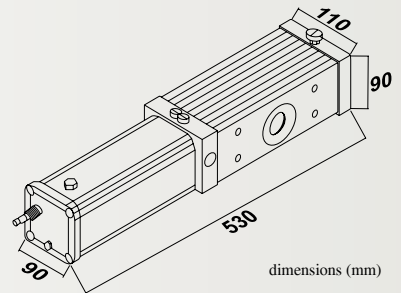
Anti-crushing security thanks to the force adjusting by-pass valves

CODE	NAME	MAX DOOR DIMENSIONS	FREQU.USE	CYCLES/HOURS
11402015	SCUTI SB*	3 h x 3,5 l - (3 h x 5 l)**m	16kg/sqm	60
11401025	SCUTI AC	3 h x 3,5 l - (3 h x 5 l)**m	16kg/sqm	60

*On the operator without lock SCUTI SB, it is necessary to install an electric lock
 **Dimensions related to the use of two side operators which are larger than 3,5 m.

STANDARD INSTALLATION FOR AN OVERHEAD DOOR OF MAX 3M HX3,5 M L

Code	Name	Quantity
11401025	SCUTI AC	1
23001120	GATE 1 ROLL control unit	1
23120470	RF ROLL 433 Mhz radio frequency module	1
12710025	ACC1SCU Installation kit for 1 SCUTI	1
12710045	SEC55SCU Ext. release key with key 55mm	1
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 kit Antenna 433 Mhz	1
23103065	ASET key switch	1
23102076	SUNSET synchronized photocells	1



ACCESSORIES

Code	Name
12710025	ACC1SCU Installation Kit for one motor Scuti
12710030	ACC2SCU Installation Kit for 2 motors Scuti
12710045	SEC55SCU Ext. Release system w/ key length 55mm Scuti
12710050	SEC75SCU Ext. Release system w/key length 75mm Scuti

SCUTI PACKAGE

- N.1 Scuti operator
- N.1 Installation accessories Kit
- N.1 Starting capacitor
- N.1 Instructions for installation and general notice
- N.1 Warning signboard

ACCESSORIES

Accessories for garage, sectional, folding doors
 General accessories

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ARA



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

- Hydraulic reliability, silent and safe also on folding doors.

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

- The working of the operator through oil and the inner lubrication of all the mechanical components grant a long time lasting.

- Extremely silent thanks to the hydraulic system.

- Current model telescopic arm

- Anti-intrusion safety through inside lock.



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



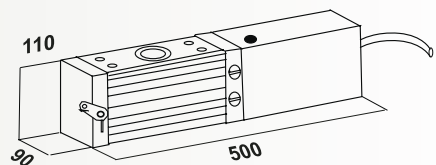
Release system with lever situated on the operator with cable

CODE	NAME	PUMP	DOOR DIMENSIONS	RELEASE
11501030	ARA AC (with arm)	1,0 l	1,0 x 5,0 m	YES
11502020	ARA SB (with arm)	1,0 l	1,5 x 5,0 m	NO

Telescopic arm included in the package

STANDARD INSTALLATION FOR AN INDUSTRIAL FOLDING DOOR OF MAX 1MX5M 2 MOBILE LEAVES

Code	Name	Quantity
11501030	ARA AC with telescopic arm	2
23001120	GATE 1 ROLL control unit	1
23120470	RF ROLL 433Mhz radio frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
12710070	SECARA External release	1
23104100	FLASH warning lamp	1
23101075	ANTFL433 Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	1



Dimensions (mm)

ACCESSORIES

Code	Name
12710070	External release for ARA

ARA PACKAGE

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

ACCESSORIES

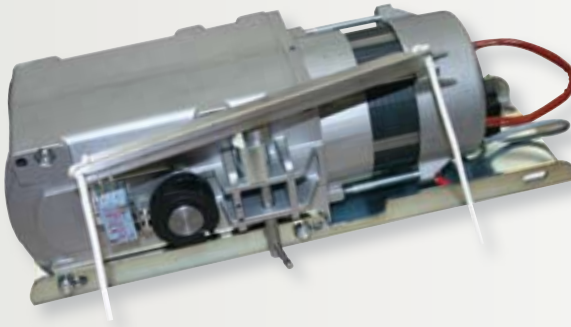
Accessories for garage, sectional, folding doors
General accessories

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OMEGA

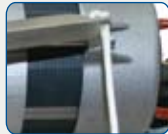
ELECTROMECHANICAL OPERATOR MOUNTED ON ONE LEAF TO OPEN FOLDING DOORS THROUGH A TELESCOPIC ARM WITH A PERFECTLY HARMONIC AND LINEAR MOVEMENT.



- Simple, safe and silent
- Irreversible operator for max security
- Release with 6m rope
- Easily adjustable electronic limit switch in opening and closing
- Optional encoder kit to guarantee the inversion in case of obstacle.



Electronic limit switches



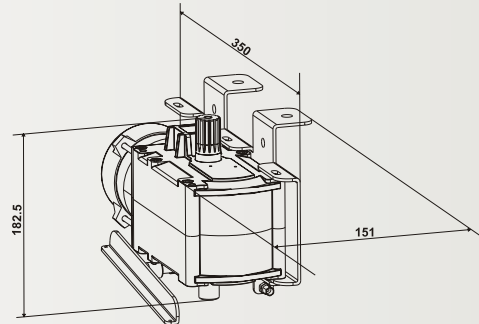
Release system with lever on the operator with cable

CODE	NAME	MAX. WEIGHT LEAF (Kg)	DOOR DIMENSIONS LEAF (m)	MAX. LENGTH
11510000	OMEGA with telescopic arm and limit switch with release for OMEGA	200 kg	1,0 x 5,0 m	1,0 m

Telescopic arm included in the package.

TYPICAL INSTALLATION FOR AN INDUSTRIAL FOLDING DOOR OF MAX 1MX5M

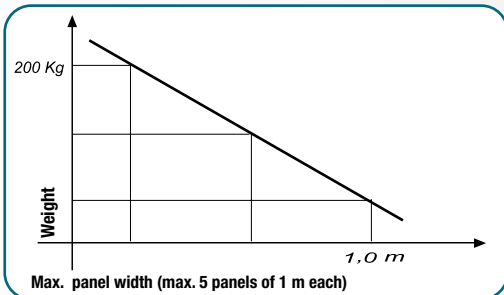
Code	Name	Quantity
11510000	Omega with telescopic arm	1
23001120	GATE 1 ROLL control unit	1
23120470	RF ROLL 433MHz radio frequency module	1
23110470	LADYBIRD ROLL 2 ch. 433 MHz Transmitter	1
23104100	FLASH warning lamp	1
23101075	ANTFL Kit Antenna 433 MHz	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	1



Dimensions (mm)

ACCESSORIES

Code	Name
11303005	ENCOM KIT encoder
12710430	SECOM KIT encoder



- 11510000 OMEGA with telescopic arm
- 23001120 GATE 1 ROLL control unit
- 23120420 RF 433MHz radio frequency module
- 23110351 SMART 2 ch. rolling code transmitter
- 23104100 FLASH warning lamp
- 23101075 KIT 433 MHz antenna
- 23103065 ASTER aluminium key switch
- 23102076 SUNSET photocell

ACCESSORIES

Accessories for garage, sectional, folding doors
General accessories

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CORONA 60/110



Aluminium guided profile for chain guarantying extreme silence



LOW TENSION OPERATOR FOR CEILING APPLICATION STRONG AND EASY TO INSTALL IN 2 VERSIONS 600 NM AND 1100 NM.

- Safe, silent and universal.
- Irreversible motor reducer which avoids the use of the electric lock guaranteeing high security during force attempt
- Slow down in closing and opening phase.
- Extremely silent thanks to the aluminium guide for chain. Available in 3 pieces of 1 meter each or 1 piece of 3 meters.
- Adjustable speed.
- Limit switch with micro-switch, easy to adjust.
- Inner release with pull cord in case of power failure. In the PLUS version additional inner/external release with handle.
- Serial encoder for double security in case of obstacle.
- Adjustable anti-crushing sensitivity

CODE	NAME	MAX FORCE	MAX DOOR DIMENSION
13320005	CORONA KIT 60	600 NM	2500* 3500*
13320010	CORONA KIT 110	1100 NM	3500* 5000*
13320005-U	CORONA KIT 60 (with one unique guide)	600 NM	2500* 3500*
13320010-U	CORONA KIT 110 (with one unique guide)	1100 NM	3500* 5000*
13322040	CORONA KIT PLUS 60	600 NM	2500* 3500*
13322045	CORONA KIT PLUS 110	1100 NM	3500* 5000*

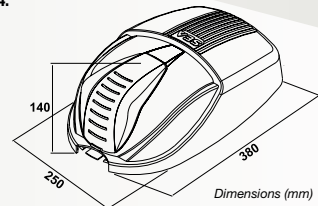
*NOTE: The above dimensions refer to sectional doors; for counterbalanced doors with spring see page 44.

STANDARD INSTALLATION FOR SECTIONAL GARAGE DOORS OF MAX 60 KG

Code	Name	Quantity
13322040	KIT CORONA 60 PLUS (complete with photocell, warning lamp, key switch, external release)	1

STANDARD INSTALLATION FOR SECTIONAL GARAGE DOORS OF MAX 60 KG

Code	Name	Quantity
13322040	KIT CORONA 60 PLUS (complete with photocell, warning lamp, key switch, external release)	1
13322006	BASC KIT for overhead doors 2,6 m	1



CORONA KIT (60 or 110) PACKAGE

- N.1 CORONA (60 or 110) operator with MINI GATE 1 24V control unit
- N.1 PLUG-IN 433 MHZ ROLL receiver
- N.1 433 MHZ ROLL transmitter
- N.3 1m pieces of aluminium guide for chain 6
- N.1 (3m pieces aluminium guide for chain version with unique guide)
- N.1 Installation accessories Kit
- N.1 Device for inner release with rope

CORONA KIT PLUS (60 or 110) PACKAGE

- N.1 CORONA (60 or 110) operator with MINI GATE 1 24V ROLL control unit, plug-in receiver
- N.1 PLUG-IN 433 MHZ ROLL receiver
- N.1 433 mhz ROLL transmitter
- N.3 1m pieces of aluminium guide for chain
- N.1 Installation accessories kit
- N.1 Device for inner release with rope
- N.1 Device for inner/external release with handle
- N.1 Couple of SUNSET photocells
- N.1 FLASH 24V flashing lamp
- N.1 ASTER key push button
- N.1 Support for warning lamp

ACCESSORIES

Code	Name
13322006	BASC Kit for overhead doors (Corona)
13322010	GUICOR Kit guide (1m extension) (Corona)
13322015	STAFCOR Kit addit. brackets (pack. 2 pieces) (Corona)
13322020	SECCOR Kit external release Corona
23106360	KIT SUNNY (solar panel CHGS + BAT7)
23101120	CHGS Control board for solar panel and MINI GATE 1 24V charger
23106305	BAT 7 Kit batteries 7 Ah

Note : 23101120 to combine with 23106305

ACCESSORIES

Accessories for garage, sectional, folding doors
General accessories

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SONG



Adjustable on board limit switch



Gear motor

ELECTROMECHANICAL MOTOR REDUCER FOR ROLLER SHUTTERS IN 2 VERSIONS FOR WEIGHTS UP TO 150 Kg (SONG 200 Ø) OR UP TO 240 KG (SONG 240 Ø).

Motor reducer for roller shutters, easy to install.

- Standard diameter of the shutter shaft: 60 mm x 200mm in SONG 200 Ø (reducing tubes for shutter diameter 48mm or 42mm, 200mm or 220mm optional). Diameter of the shutter shaft: 76mm x 240mm for SONG 240 Ø.
- Available with included serial electric lock for the irreversibility of the automation (SONG 200 Ø BRAKE) or optional with SONG 200 Ø and SONG 240 Ø.
- Release system in case of power failure through a cable connected to a knob (included in the version without electric brake).
- External release with safety box available (for versions with electric brake) and push button board.

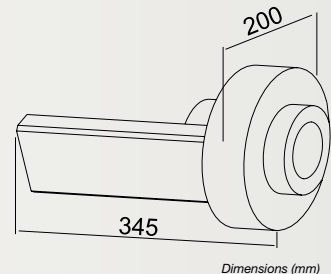
CODE	NAME	SHUTTER SHAFT DIAMETER	MAX WEIGHT SHUTTER
13301005-1	SONG 200 Ø	60mm - (48 o 42)*	150 Kg
13301015-1	SONG 200 Ø brake	60mm - (48 o 42)*	150 Kg
13301025-1	SONG 240 Ø brake	76 mm	240 Kg

*NOTE: for shutter diameters of 220mm use the adapter 200mm x 220mm

*NOTE: Use reduction tubes when the shaft diameter is different from the standard 60mm

STANDARD INSTALLATION FOR ONE ROLLER SHUTTER OF MAX 150 KG AND 200MM DIAMETER

Code	Name	Quantity
13301005-1	SONG 200 Ø	1
13301150	ROLLING control unit	1
23104110	FLASH warning lamp	1
23110470	LADYBIRD ROLL 2 ch. 433 Mhz Transmitter	1
23101075	ANTFL433 KIT Antenna 433 MHz for FLASH	1
23103065	ASTER key switch	1
23102076	SUNSET synchronized photocells	1
23120488	SIGNAL I 433Mhz ROLL	1
12710290	SECSONG Box external release (complete with push button board)	1



Dimensions (mm)

OTHER ACCESSORIES

Code	Name	Price
13301105-1	EBRAKE60 Electric brake with release ø 60	
13301110-1	EBRAKE76 Electric brake with release ø 76	
13301125-1	TUBSONG Reduction tubes 42x60/48x60 (6 pieces)	
13301121-1	ANESONG Compensation rings 200x220 for Song	
12710290	SECSONG Security box for external release Song (with push button board)	

SONG (200 Ø or 240 Ø) PACKAGE

- N.1 Song gear reducer
- N.1 Installation accessories kit
- N.1 Installation Instructions and general notice
- N.1 Warning signboard

SONG 200 Ø BRAKE Package

- N.1 Song gear motor 200 Ø BRAKE
- N.1 Installation accessories Kit
- N.1 Release with cable
- N.1 Mounting instructions and general notice
- N.1 Warning signboard

ACCESSORIES

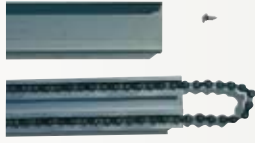
Accessories for garage, sectional, folding doors Page 54 - 54
General accessories Page 90 - 93

Accessories for Garage, Sectional and Folding Doors

CORONA



BASC KIT for overhead doors
2,6 m
13322006 € 99,00



GUI Guide KIT (1m extension)
13322010 € 44,00

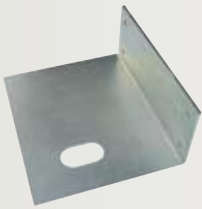


STAFCOR Additional shoes KIT
(package of 2 pcs)
13322015 € 11,00



SECCOR External release kit
Corona
13322020 € 20,00

LEPUS SECTIONAL AND TORG SECTIONAL



PLASTELS Fixing plate for
Lepus Sectionals
16200071



PLASTELS Fixing plate for
Torg Sectionals
16200072



GCAT Joint for chain
12715015



PDZ1620SD Double pinion Z16 Z20
Lepus Sectional
16101026



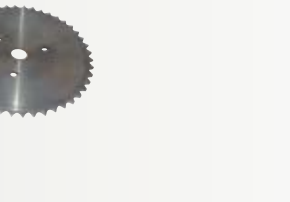
CAT Chain 1/2" x 5/16"
(package of 2 pcs.)
12715005



CORZ36 Corona Z36 + adapter ø 25.5
12715035

CORZ46 Corona Z46 + adapter ø 25.5
12715050

CORZ36AD32 Corona Z36 + adapter ø 32
12715040



CORZ46AD32 Corona Z46 + adapter ø 32
12715055

CORZ46AD40 Corona Z36 + adapter ø 40.2
12715045

CORZ46AD40 Corona Z46 + adapter ø 40.2
12715060

PDZ1720TS Double pinion Z17 Z20
Torg Sectional
16101030

Accessories for Garage, Sectional and Folding Doors

SCUTI, ERG, ARA



ACC1SCU Installation Kit for one SCUTI motor
12710025

ACC2SCU Installation Kit for two SCUTI motors
12710030



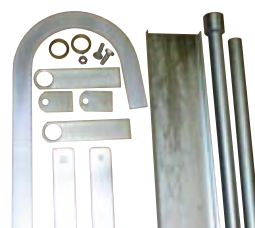
SEC55SCU External release system with 55mm key length for Scuti
12710045

SEC75SCU Release system with 75mm key length for SCUTI
12710050



AACC1ERG Kit for 1 ERG motor
12710105

ACC2ERG Kit for 2 ERG motors
12710110



ACC1ERGG Installation kit for one ERG motor curved arm
12710106

IACC2ERGG installation kit for two ERG motors curved arm
12710111

TUBTRAERG Transmission tubes for ERG
12710230



ACC2ERGTQ Installation KIT for square tube motor with 1600mm bracket
12710370

TQ3 Square tube 25x25mm
12710232

ACC1ERGTQ Installation kit for square tube 2 motors with 1600mm bracket
12710365



LSERG Limit switch group with Micro-switch for ERG
11316005



SECEERG External release for ERG
12710071

SECARA External lock for ARA
12710070



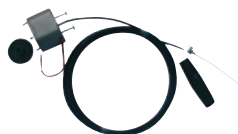
BRDR1 Straight arm for 1 motor
12710107

BRDR2 Straight arm for 2 motors
12710112

BRC1 Curved arm for 1 motor
12710108

BRC2 Curved arm for 2 motors
12710113

SONG



EBRAKE60 Electric brake with release ø 60
13301105-1

EBRAKE76 Electric brake with release ø 76
13301110-1



TUBSONG Reduction tube 42x60/48x60 (4 m)
13301125-1 € 3,00



TASCOMPSONG Compensation rings 200x220
13301120-1



SECSONG Security box for external release Song (with push button board)
12710290

Guide to the PRODUCT

Barriers

BARRIERS	ELECTRO-MECHANICAL 24V	VERG 24V	Opening time adjustable up to 5 m freq. of use 60%	VERG 24V	pag.58
	HYDRAULIC	SPRINT	Opening time from 4-8 s up to 5 m freq. of use 60% -90%	SPRINT 24V	pag.60
					SPRINT 230V
	ELECTRO-MECHANICAL 24V	STORM 24V	Opening time from 8 to 12 s up to 7.5 m freq. of use 70%	STORM 24V	pag.59
HYDRAULIC	VELA INDUSTRIAL	Opening time from 8 to 12s up to 7.5 m freq. of use 80%	VELA INDUSTRIAL	pag.61	



BOLLARD TRANSIT AREAS	HYDRAULIC	BOLLARD	Cylinder opening time cylinder 8 sec. Cylinder Ø 275 mm Cylinder height 680 mm freq. of use 30%	BULL-SUPER BULL	pag.62-63
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BULL ANTITERRORISM	HYDRAULIC	BOLLARD	Cylinder opening time cylinder 10 sec. Cylinder Ø 275 mm Cylinder height 700 mm freq. of use 2000 cycles	BULL ANTITERRORISM	pag.64
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Technical Specifications

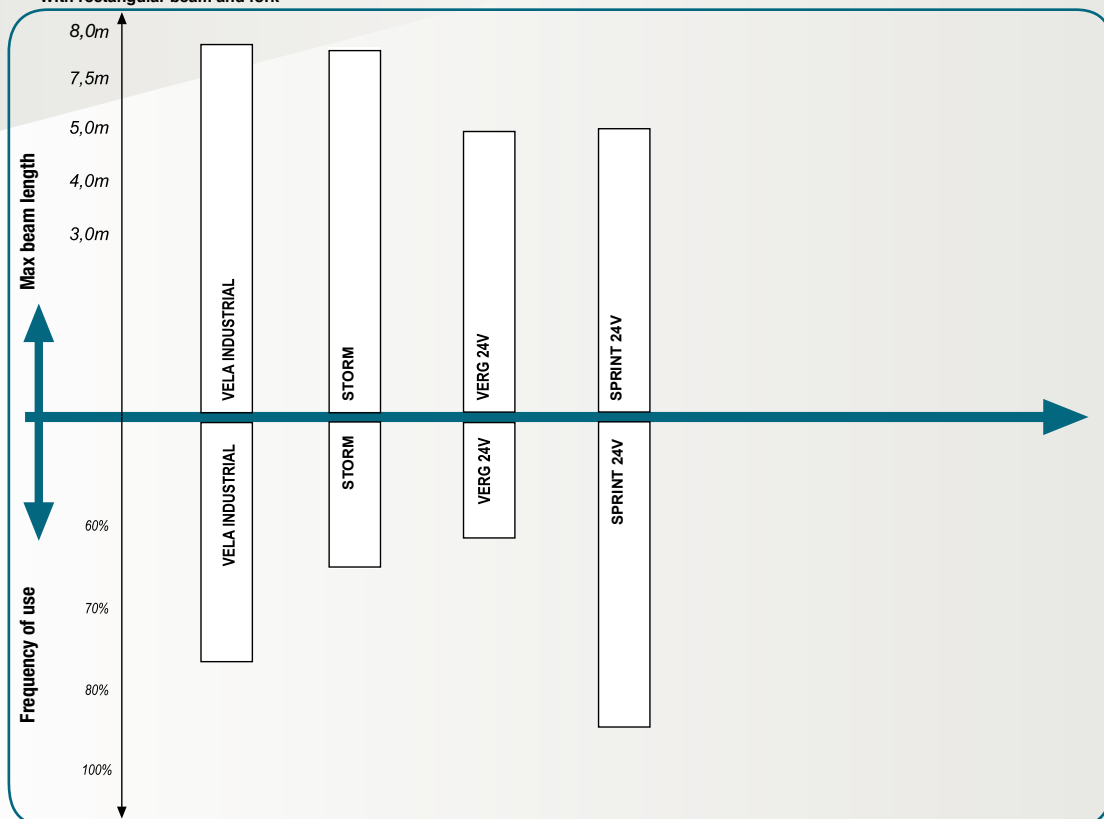
Barriers

Specification	SPRINT 24V/ 230 V	Vela Industrial	Verg 24 V	Storm 24V	BULL SUPER BULL
Power supply	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac
Motor power	270/40 W	230 W	90 W	45 W	330 W
Motor current	1,3 A	1,1 A	1,2 A	4 A	1,65 A
Opening speed	8sec 1lt 4 sec 2lt 24 V adjustable	8 - 12 sec	reglable	8 - 12 sec	6 sec - 8 sec
Frequency of use	60 / 90%	75% /85 %	60%	70 %	30%
Thermo protection	130°C	130°C	-	-	130°C
Working temperature	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C	-20°C/+55°C
Weight	51 kg	73 kg	51 kg	60 kg	-
Oil quantity	1-2 lt	2 l	-	-	3 l
Max. beam length	5 m	7,0/7,5 m	5 m	7 m	-
Protection Class	IP55	IP55	IP55	IP55	IP67 *
Starting capacitor	12,5 µF	12,5 µF	-	-	16 µF
Page	60	61	58	59	62 - 63

*hydraulic unit

BEAM LENGTH (m)	2	2,5	3,0	4,0	5,0	6,0	7,0*	7,5*
VERG 24 V	2 sec	-	3 sec	4 sec	5 sec	-	-	-
VELA INDUSTRIAL	-	-	-	-	8 sec	9,5 sec	11 sec	12 sec
SPRINT	-	-	4 sec	5 sec	6 sec	-	-	-
STORM 24 V	-	-	-	-	8 sec	10 sec	12 sec	12 sec

*With rectangular beam and fork



BEAM and SPRING Combination

VERG								Spring type	
Beam model	2m	2,5m	3m	3,5m	4m	4,5m	5m		
Light 3								Spring Ø 6	
Light 4								Spring Ø 7,5	
Light 5								Spring Ø 8,5	

SPRINT								SPRING TYPE	
Beam Model	2m	2,5m	3m	3,5m	4m	4.5m	5m		
LIGHT / LIGHT SPRINT								Spring Ø 5,5	
LIGHTS-ART								Spring Ø 6	
KSIEPE								Spring Ø 6,5	
SUPL / SURL								Spring Ø 7	
								Spring Ø 8	

STORM 24V / VELA INDUSTRIAL								SPRING TYPE	
Beam Model	4,5m	5m	5,5m	6m	6,5m	7m	7,5m		
SQXF ectangular								Spring Ø 10,5	
SQ linear								Spring Ø 11	
SK SKIRT		SK 4,5		SK 5,5		SK 6,5		Spring Ø 11,5	
JUICE 2m + 4m SPLIT								Spring Ø 12	
JUICE 3m + 4m SPLIT								Spring Ø 12,5	

VERG 24V

FAST 24V ELECTROMECHANICAL BARRIER FOR PASSAGES UP TO 5 METERS.



Internal picture



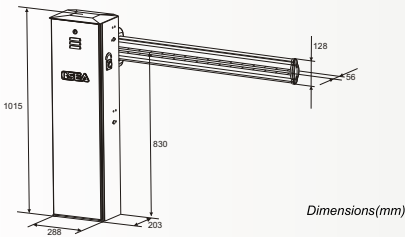
Easy release system with key in case of power failure.



- Safe and fast low voltage automatic barrier.
- Slow down speed adjustable in opening and closing.
- Low voltage motor for maximum safety.
- Inversion 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). In option solar panel KI SUNNY
- Control unit USER 1 24V ROLL.
- Mechanical limit switches.
- Cataphoresis treated and polyester painted steel box for longevity. INOX steel box available.
- New oval beam with light (optional) CLED 12715215 + TLED tube 12715216.
- Casing pre-drilled for photocells SUNSET and key switch ASTER.
- Available with articulated beam (LIGHT ART 3 m).

CODE	NAME	OPENING TIME	MAX BEAM TIME	FREQUENCY OF USE	QX	QX1
11320006	VERG 24V	adjustable	5 m	60%		

Foundation plate included



Dimensions(mm)

VERG ACCESSORIES

Code Name

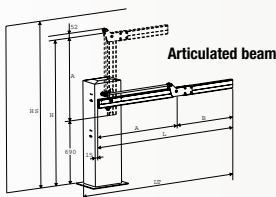
11903050	LIGHT3 beam of 3,0 m + balancing spring + double blunt-free rubber
11903055	LIGHT4 beam of 4,0 m + balancing spring + double blunt-free rubber
11903060	LIGHT5 beam of 5,0 m + balancing spring + double blunt-free rubber
16200100	SUPLIGHTP Fork support
12710087	SUPL pliable support for oval LIGHT beam
16200045	CSUPLIGHT counter plate for fork support
23106325	BAT KIT 7Ah battery with box for VERG
23101105	ESUN Control board for solar panel and USER 24V ROLL charger
12715220	STICKER Red Sticker for beam (package 50 m)*
12715215	CLED kit - power supply cable for TLED light (L= 1mt)
12715216	TLED Tube link LED light (1 meter) (price per meter)**
23106370	KIT SUNNY (solar panel + ESUN + BAT7)
11902035	LIGHT-ART 3 Articulated oval beam 3,0 m***

- * 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 : 23101105 to combine with 23106305

- PACKAGE VERG**
- N.1 Operator VERG 24V
 - N.1 Control unit USER 1 24V ROLL
 - N.1 Installation accessories kit
 - N.1 Installation instruction and general notice
 - N.1 Warning board

*NOTE: Respect opening times in relation to the length of the beam as foreseen in the manual



Articulated beam



STORM 24V



24V ELECTROMECHANICAL BARRIER FOR PASSAGES UP TO 7 METERS.

- Safe and fast low voltage automatic barrier.
- 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 operating also in case of power failure without an additional control unit.
- Control unit USER 1 24V ROLL*.
- Mechanical and electronic limit switches.
- New oval beam LINEAR with double blunt-free rubber and optional light kit (CLEL 12715215 + TLED 12715216) or double mounting rectangular beam with fork. Available also with connectable SPLIT+ JUICE(New) with joint for easy transportation.
- Only version of oval beam for STORM and VELA INDUSTRIAL.
- Casing pre-drilled for photocells SUNSET and key switch ASTER.
- Available version with double rectangular beam fixation. (STORM 24 F)



Easy Release system with key in case of power failure



Double beam fixation with fork



**New colour
New beam**

For availability contact
SEA

CODE	NAME	OPENING TIME	MAX BEAM LENGTH	FREQUENCY OF USE
11330000	STORM 24V	8-12 sec.	7 m	70%
11330010	STORM 24V F	8-12 sec.	7,5 m	70%

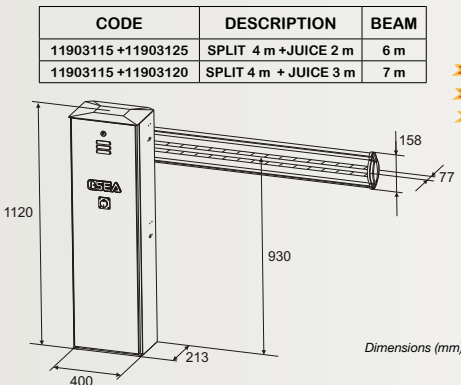
Foundation plate included. F = double fork fixation

Round beam LINEAR for STORM 24V

Rectangular beam SQXF for STORM 24V with fork

STORM ACCESSORIES BOARD

Code	Name
11903065	LINEAR 5 m oval beam+ balancing spring+double blunt-free rubber
11903070	LINEAR 6 m oval beam+ balancing spring+double blunt-free rubber
11903075	LINEAR 7 m oval beam+ balancing spring+double blunt-free rubber
11903115	SPLIT oval beam 4 m+ accessories for joint
11903120	JUICE oval beam3 m+ spring (for joint)
11903125	JUICE oval beam2 m+ spring (for joint)
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
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
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
12710525	Kit Electromagnetic for barrier
12715215	CLED kit - power supply cable for TLED light (L= 1mt)
12715216	TLED Tube link LED light (1 meter) (price per meter)**
12715220	STICKER red stickers for beam (package of 50 m)*
23106370	Kit SUNNY (solar panel + ESUN + BAT7)
23106305	BAT7 KIT 7Ah battery with box
23101105	ESUN Control board for solar panel and USER 24V ROLL charger



Dimensions (mm)

STORM PACKAGE

- N.1 STORM 24V operator
- N.1 USER 1 24V ROLL control unit
- N.1 Installation accessories Kit
- N.1 Installation instructions and general notice
- N.1 Warning board

* Same length of the beam needed
** To be ordered in combination with CLED 12715215
Note: Respect the opening times related to the length of the beam as foreseen in the manual.

Note : 23101105 to combine with 23106305



SPRINT 24V/230V

AUTOMATIC HYDRAULIC BARRIER FOR PASSAGES UP TO 5 METERS.

• Fast and reliable automatic hydraulic barrier.

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

• The operator working through oil and the inner lubrication of all the mechanical components ensures durability

• Extremely silent thanks to hydraulic operating

• Adjustable mechanical limit switches. Standard electronic limit switches SPRINT24 V and 2L SPRINT 230V (optional for 1L SPRINT 220V slow down management)

• Cathaphoresis treated and polyester painted steel casing for long time lasting.

• INOX (316) steel casing available. New protection for beam coupling for more security and a better design.

• Oval aluminium beam with double protection rubber and optional 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 possibility to add emergency batteries with solar panel KIT SUNNY (optional) .

• Control unit USER 1 24V ROLL for SPRINT 24V
Control unit GATE 1 ROLL for SPRINT230V

• Available with articulated beam (LIGHTS ART 3 -3.5m).



Inside Photo



Easy Key release system in case of power failure



CODE	NAME	OPENING TIME	MAX BEAM LENGTH	FREQUENCY OF USE
11703005	SPRINT 24V	adjustable	5 m	90%
11703000	SPRINT 230V 1I	8 sec.	5,0 m	75%
11703050	SPRINT 230V* 2I	4 sec.	4,0 m	75%

Foundation plate included

*Electronic limit switches for slow down function

SPRINT ACCESSORIES BOARD

Code	Name
11903100	LIGHT S 3 3,0 m beam+balancing spring+double blunt-free rubber
11903105	LIGHT S 4 4,0 m beam+balancing spring+double blunt-free rubber
11903110	LIGHT S 5 5,0 m beam+balancing spring+double blunt-free rubber
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
16200100	SUPLIGHTP fork support
16200045	CSUPLIGHT counter plate for fork support
12710087	SURL pliable support for oval beam
12715220	STICKER red sticker for beam (50 m package)*
12715215	CLED kit - power supply cable for TLED light (L =1mt)
12715216	TLED Tube link LED light (1 meter) (price per meter)**
11902040	LIGHTS-ART 3 Articulated beam 3,0 m ***
11902045	LIGHTS-ART 3,5 Articulated beam 3,5 m ***
23106370	Kit SUNNY (solar panel + ESUN + BAT7)
23106305	BAT7 KIT 7Ah battery with box
23101105	ESUN Control board for solar panel and USER 24V ROLL charger

Note : 23101105 to combine with 23106305

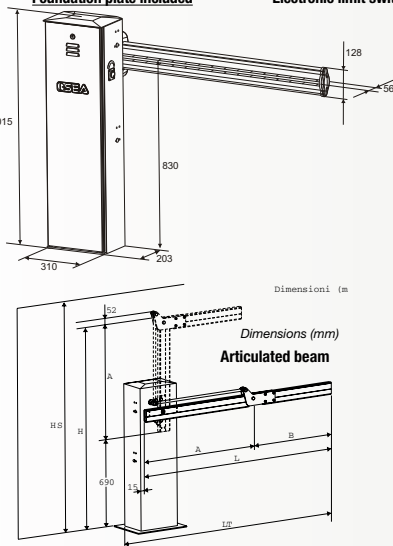
SPRINT 24V PACKAGE

- N.1 SPRINT operator
- N.1 USER 1 24V ROLL control unit
- N.1 Installation accessories Kit
- N.1 Release Key
- N.1 Installation instructions and General Notice
- N.1 Warning signboard

* 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.



VELA INDUSTRIAL

AUTOMATIC HYDRAULIC BARRIER FOR PASSAGES UP TO 7,5M FOR INDUSTRIAL USE.



Inner Photo



Double beam fixation with fork

- Silent and reliable automatic hydraulic barrier.

SEA TOTAL QUALITY: All main parts are manufactured and tested in-house.

- The operator working through oil and the inner lubrication of all the mechanical components ensures durability.
- Extremely silent thanks to hydraulic operating.
- Adjustable mechanical limit switches.
- By-pass valves for the adjustment of the force as anti-crushing safety system.
- INOX steel casing available.
- New oval beam LINEAR with double blunt-free rubber and optional light kit (CLEED 12715215 + TLED 12715216) or double mounting rectangular beam with fork. Available also with connectable SPLIT+ JUICE(New) with joint for easy transportation.
- Cataphoresis treated and polyester painted steel casing for durability.
- Available version with double rectangular beam fixation.
- Possible to add solar panel KIT SUNNY(24V version)

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

*With GATE 1 ROLL control unit. Foundation plate, F (Fork)

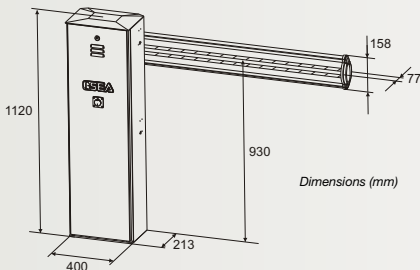
Note: To choose left (SX) or right (DX): Vela operator is considered right-hinged if, when looking at the casing door accessing the motor, the beam is on the right; To use the rectangular beam (over 6m) SEA recommends the installation of the fork coupling Kit (Fork).

LINEAR beam for VELA INDUSTRIAL.

SQXF beam for VELA INDUSTRIAL F with fork

VELA INDUSTRIAL ACCESSORIES BOARD

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



VELA INDUSTRIAL PACKAGE

- N.1 Vela Industrial operator
- N.1 GATE 1 ROLL control unit
- N.1 Mounting Accessories Kit (includes also the fixation of the beam)
- N.1 Instructions for installation and General Notice
- N.1 Warning sign-board

Code Name

11903065	LINEAR 5 m oval beam+ balancing spring+double blunt-free rubber
11903070	LINEAR 6 m oval beam+ balancing spring+double blunt-free rubber
11903075	LINEAR 7 m oval beam+ balancing spring+double blunt-free rubber
11903115	SPLIT oval beam 4 m+ accessoires for joint
11903120	JUICE oval beam3 m+ spring(for joint)
11903125	JUICE oval beam2 m+ spring(for joint)
16200105	SUPINDR 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
11905035	SQXF6 Kit rectangular beam+ spring+ 6 m VELA INDUSTRIALE F
11905040	SQXF7 Kit rectangular beam+ spring+ 7 m VELA INDUSTRIALE F
11905045	SQXF7,5 Kit rectangular beam+ spring+7.5 m VELA INDUSTRIALE F
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
12710525	Kit Electromagnetic for barrier
12715215	CLED kit - power supply cable for TLED light (L =1m)
12715216	TLED Tube link LED light (1 meter) (price per meter)**
12715220	STICKER Red sticker for beam (packaging for 50 m)*
23106370	Kit SUNNY (solar panel + ESUN + BAT7)
23106305	BAT7 KIT 7Ah battery with box
23101105	ESUN Control board for solar panel and USER 24V ROLL charger

* Same length of the beam needed
*** Just for lateral mounting beam

** To be ordered in combination with CLED 12715215
Note : 23101105 to combine with 23106305



BULL - BULL

HYDRAULIC FIXED

NEW RISING BOLLARD FOR TRANSIT AND PARKING AREAS CONTROL AND THE PROTECTION OF PUBLIC ACCESSSES.

SEA TOTAL QUALITY: With hydraulic movement manufactured in the SEA establishments. Durability silence and reliability.

- Compact version with on board hydraulic unit for a simple installation.
- Easy release system with customized key.
- With illumination and sonorous systems.
- External control unit (SEA recommends GATE 1 ROLL or GATE 2 ROLL), for BULL Hydraulic
- Foundation form out of inox material (1 m) on request.
- 5 mm thickness. Also available with INOX steel cylinder.
- Electric valve for automatic release in case of power failure (optional).



BULL HYDRAULIC



system of lights



FIXED BULL

HYDRAULIC UNIT

Hydraulic pump capacity	4 l/min
Average operating 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	IP67

ELECTRIC MOTOR

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 rpm	30%

FREQU. OF USE

CODE NAME

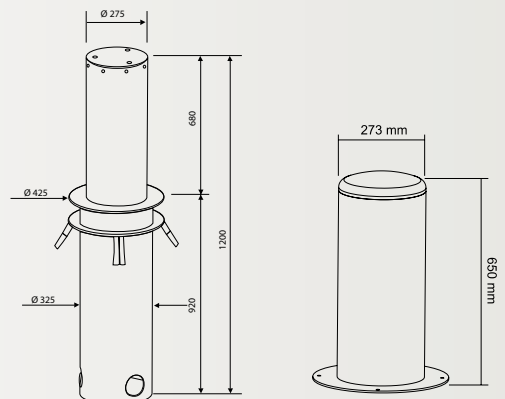
12500005	BULL HYDRO complete with lights
12710350	CARBULL Vehicle manhole cover (550x550 mm)
12710376	BOXBULL Foundation form and rag bolts (1m)
12500006	Hydraulic BULL INOX with lights and cylindrical box

CODE NAME

66201286	RAL Supplement RAL(grey anthracite)
12500010	FIXED BULL 680x275 mm with support base
12500011	BULL FIX inox 680x273 with support base
23105151	WLIGHT with red /green lights
12710360	*ZK Foundation plate rag bolts
12710520	**EVALV Kit Electric valve for BULL

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



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

MOUNTING ACCESSORIES
- Release key
- Mounting instructions
- General notice

***Obliged accessories (ZK foundation plate or BOX BULL complete)**
*** On request valve can be mounted by SEA.**

The standard installation: BULL+ZK or BULL+ BOX BULL
Note: The FIXED BULL comes with base which can be fixed on the foundation plate with rag bolts for more stability.

Electronic control units Pag 72

SUPER BULL

HYDRAULIC

SUPER BULL

FIXED

NEW ANTI-CRASHING RISING BOLLARD FOR TRANSIT AND PARKING AREAS CONTROL AND PROTECTION OF PUBLIC ACCESSES.

SEA TOTAL QUALITY: With hydraulic movement produced in the SEA establishments. Durability, silence and reliability.

- Compact version with on board hydraulic unit for a simple installation.
- Reinforced version resisting violent impacts.
- Easy release system with customized key.
- With lights and sonorous systems.
- External control unit (SEA recommends GATE 1 ROLL or GATE 2 ROLL) for hydraulic SUPER BULL.
- 12 mm thickness. Compulsory foundation plate also for fixed SUPER BULL.
- Electric valve for automatic release in case of power failure (optional).



Sistema luci

HYDRAULIC UNIT

Hydraulic pump capacity	4 l/min
Average operating 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	IP67

ELECTRIC MOTOR

FRQU. 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 rpm	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	10.000 Joule
Crashing resistance	180.000 Joule

CODE

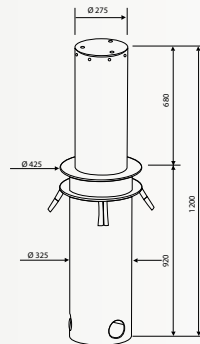
NAME

12500025	SUPER BULL HYDRO complete with lights
12710355	CARBULL Vehicle manhole cover (550x550 mm)
12710376	BOX BULL foundation form 1m)
12500026	SUPER BULL INOX HYDRAULIC with lights and cylindrical box

CODE

NAME

66201286	RAL Supplement RAL(grey anthracite)
12500030	FIXED BULL 680x275 mm with support base
23105151	WLIGHT with red /green lights
12710360	*ZK Foundation plate rag bolts
1210520	**EVALV Kit Electric valve for BULL



BULL PACKAGE

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

MOUNTING ACCESSORIES

- Release key
- Mounting instructions
- General notice

* On request valve can be mounted by SEA.

* Obligated accessories (only foundation plate + foundation form)

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

Electronic control units Pag72

BULL Antiterrorism



HYDRAULIC RETRACTABLE SHOCK RESISTANT BOLLARD, FOR THE SECURITY OF SENSITIVE AREAS

- Hydraulic retractable shock resistant bollard, for the security of sensitive areas.
- Security system for sensitive areas:
 - Military bases
 - Embassies
 - Ministries
 - Government offices
 - Banks
- Consisting of a cylindrical steel column, 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 lowering in case of black out (optional device).
- Traffic light for transit management (optional).

CODE NAME

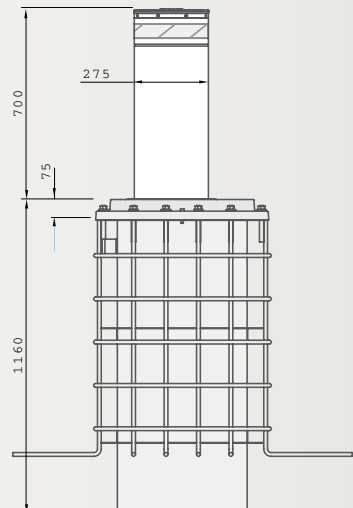
12500045	BULL ANTITERRORISM*
12500050	BULL ANTITERRORISM with multi LED flashing lamp*
12500055	BULL ANTITERRORISMO with multi LED flashing lamp and circuit ** * on request

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

CODE NAME

12710566	Well, sub frame and anchoring bolts
12710571	Metal manhole for sub frame with screws
12710576	RAL paint cylinder
12710581	Electric valve for automatic opening
12710586	Cylinder lid
12710591	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 - hight 55 mm



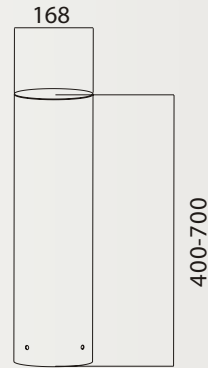
SOFT400/700

FIXED



NEW BOLLARD FOR PARKING AREAS AND AREA PROTECTION, FOR PUBLIC ACCESSES 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

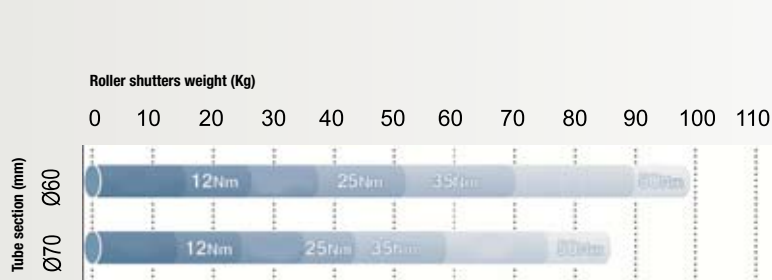
NAME

12500015	SOFT 400mmx200mm fixed
12500020	SOFT 700mmx200mm fixed
12500016	SOFT INOX 400mmx200mm fixed
12500021	SOFT INOX 700mmx220mm fixed



GUIDE TO THE PRODUCT TUBULAR MOTORS

GUIDE FOR THE CHOICE OF THE TUBULAR GEAR MOTOR FOR ROLLER SHUTTERS



Weight in Kg/sqm of the roller shutter

MATERIAL	WEIGHT(Kg/sqm)
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

GUIDE FOR THE CHOICE OF THE TUBULAR GEAR MOTOR FOR SUN BLINDS

Arm protuberance Ø Tube 60/70 mm

		1.5	2	2.5	3	4	5
Number of arms	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 Tube 78 mm

		1.5	2	2.5	3	4
Number of arms	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		
	8					

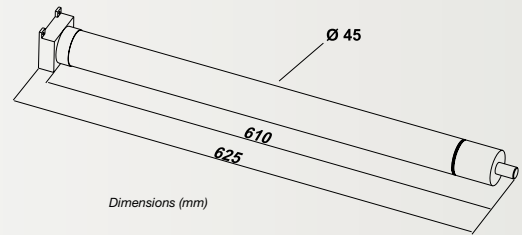
SUN

IRREVERSIBLE GEAR MOTOR FOR THE AUTOMATIC MOVEMENT OF SUN BLINDS AND ROLLING SHUTTERS Ø 45 SERIES.

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



70mm Ogive Roller



Dimensions (mm)

CODE	NAME	TORQUE (Nm)	NUMBER TURNS/MIN	NUMBER TURNS/LIM.SW
11306105	SUN 35	35	12	30
11306110	SUN 50	50	12	30

ACCESSORIES

Code	Name
12715140	SP Wall support
12715145	SP Wall star support
12715160	R070 Ogive roller of 70mm
12715165	R070 Ogive roller of 78mm



Star wall support

ELECTRONIC ACCESSORIES

Code	Name
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



Wall support

SUN PACKAGE
 N.1 Gear motor SUN
 N.1 Mounting accessories Kit
 N.1 Mounting instructions and General notice

EASY

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

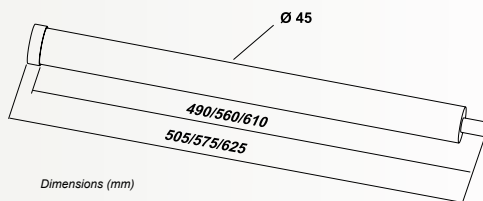
- Safe, practical and easy to install.
- Easy and fast to install.
- Easy adjustable mechanical limit switch



Adjustable support with bolt



Octagonal Roll 60mm



Dimensions (mm)

CODE	NAME	TORQUE (Nm)	NUMBER TURNS/MIN	NUMBER TURNS /LIM.SW
11306005	EASY 12	12	12	30
11306010	EASY 25	25	12	30
11306015	EASY 35	35	12	30
11306020	EASY 50	50	12	30

ACCESSORIES

Code	Name
12715130	SP Adjustable support with bolt
12715135	SP Square wall support
12715140	SP Wall support
12715145	Star wall support
12715150	SP Octagonal star roller 60mm
12715155	R060 Octagonal roller 60mm



Octagonal star roller 60mm

ELECTRONIC ACCESSORIES

Code	Name
23024000	BOARD Control unit for 5 tubular motors + 433MHz receiver
23024005	BOARD Control unit for tubular motor + 433 MHz receiver
23024010	BOARD Control unit for mini tubular motor + 433 MHz receiver
23103060	PUSH Radio 2 push button board for wall application with support
23102100	SENSOR Sun/wind sensor



Square wall support

EASY PACKAGE

N.1 Gear motor EASY

N.1 Mounting accessories Kit

N.1 Mounting instructions and General notice

WIND



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

- 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.

CODE	NAME	MAX LEAF WEIGHT	DIMENSIONS
------	------	-----------------	------------

13205166-I	WIND 2 leaves	80 Kg + 80 Kg	115 mm H x 1500 mm W
13205171-I	WIND 1 leaf	120 Kg	700 mm H x 3000 mm W

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	1
13206345-I	Airtight brushes 14 mm	2
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	

* The cut of the profile, cover and guide profile is made 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 Kit 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	Leaf blocking device with/ without power supply
13206365-I	ELB Leaf blocking device with Allen-key manual release
13206367-I	5 meter release cable
13206362-I	CLICK Device for connecting "Wind" series electronic cards to a PC with management software
13206326-I	KTP naturally anodized pluggin outline Kit (4,4 m) + bracket*
13204005-I	SE emergency kit with C048 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 anti panic kit for semi fixed wing
13216162-I	KAV 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

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

Service: Intensive

Automation dimensions: 115 H x 180 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 to 100 kg
1300		from 50 to 90 kg
1400		from 50 to 80 kg










* To be used with wings of less than 30mm thickness

** For French market

***To be combined to 13206367-I

Guide to the PRODUCT

Control units

ELECTRONIC CONTROL UNITS	GATE 1 ROLL	Condominium use pag.79 for 1 sliding gate, swing gate, barrier, sliding door	
	GATE 2 ROLL	Condominium use pag.79 for 2 sliding gates, swing gates, barriers, sliding doors	
	USER 1 24V ROLL	for 1 motor 24 V pag.80	
	USER 2 24V ROLL	for 2 24V motors pag.80	
	NEW-SWING 2 ROLL	swing operators w/out limit switch residential use pag.79	
	ROLLING	Song pag.80 for 1 rolling shutter	
MINI GATE 1 24 V	Corona pag.81 for one garage door or overhead door		

N.B: The control units GATE1 ROLL - GATE2 ROLL - NEW SWING 2-USER 1 24V- USER 2 24V ROLL are equipped with radio decoding and it is necessary to plug in the radio module RF Roll 433 (or RF Roll 868 MHz) to activate the Rolling Code receiving function.

The radio decoding has two channels (pedestrian II° channel) with 800 users.

For Fixed Code function just add the RF on GATE 1 - USER 1 24V - USER 2 24V and NEW SWING 2. On GATE 2 replace Micro with KIT RF + Micro € 33,00.

Control units

COMPARATIVE BOARD OF THE MAIN FUNCTIONS OF THE SEA COMMAND SYSTEMS

BOARD 1

INPUTS/OUTPUTS CONNECTING BOARDS	NEW SWING 2 ROLL	GATE1 ROLL	ROLLING	GATE 2 ROLL	MINI GATE1 24V	USER 2 24V ROLL	USER1 24V ROLL
AUXILIARY INPUT		√		√			
PEDESTRIAN START	√	opz.		√		√	√
START	√	√	√	√	√	√	√
STOP	√	√	√	√	√	√	√
LIMIT SWITCH M1 OPENING		√		√	√	√	√
LIMIT SWITCH M1 CLOSING		√		√	√	√	√
LIMIT SWITCH M2 OPENING				√		√	
LIMIT SWITCH M2 CLOSING				√		√	
PHOTOCELL IN OPENING	√	opz.		√		c.d. o bus	c.d. o bus
PHOTOCELL IN CLOSING	√	√	√	√	√	√	√
24V AUX OUTPUT 300 MA MAX		√		√			
24V AUX OUTPUT 300 MA MAX CONFIGURABLE							√
24V AUX OUTPUT 200 MA MAX	√				√	√	
24V OUTPUT TX PHOTOCELL (AUTOTEST)	√	√		√		√	c.d. o bus
COURTESY LAMP 24V 3W MAX	√	√		√		√	√
ELECTRIC LOCK OUTPUT 12V 15VA MAX	√	c.s.r.		√		√	
MOTOR1 (M1) OUTPUT	√	√	√	√	√	√	√
MOTOR2 (M2) OUTPUT	√			√		√	
COURTESY LIGHT 230V 100W MAX	√	c.s.r.		√		c.s.r.	c.s.r.
24V WARNING LAMP 15W MAX	√	√		√	√	√	√
230V WARNING LAMP 50W MAX	√	√	√	√			
COURTESY LAMP 24V LED	√	√		√	√	√	√
CAPACITORS EXIT M1		√		√			
CAPACITORS EXIT M2				√			
POWER SUPPLY INPUT 230V 50/60 HZ	√	√	√	√			
ANTENNA INPUT	√	√		√		√	√
ENCODER 1 INPUT		√		√	√	√	√
ENCODER 2 INPUT				√		√	
BATTERY CHARGER INPUT					√	√	√
EXTERNAL TRANSFORMER INPUT					√	√	√
SECURITY EDGE		opz.		opz.	√	√	√
CONNECTOR FOR PLUG IN RECEIVER SIGNAL			√		√		

BOARD 1

INPUTS/OUTPUTS CONNECTING BOARDS	NEW SWING 2 ROLL	GATE1 ROLL	ROLLING	GATE2 ROLL	MINI GATE1 24V	USER2 24V ROLL	USER1 24V ROLL
PLINTH FOR RADIO FREQUENCY (RF OR ROLL)	√	√		√		√	√
SOLAR PANEL INPUT					√	√	√
PALM COPY CONNECTOR	√	√		√		√	√
MEMORY INDICATOR RADIO TRANSMITTER						c.d.	c.d.
WORKING CYCLES INDICATOR	c.d.			c.d.		c.d.	c.d.
BUS SYSTEM		*		*		√	√
ALARMING SIGNALIZATION ON WARNING LAMPS	√	√		√		√	√

Note: It is possible to connect the Sunset Bus and the Flash led 24V Bus to the Bus.

BOARD 2

ADJUSTABLE PARAMETERS WITH DIP SWITCH JUMPER	NEW SWING 2 ROLL	GATE1 ROLL	ROLLING	GATE2 ROLL	MINI GATE1 24V	USER2 24V ROLL	USER1 24V ROLL
OPERATING LOGIC CHOICE	√	√	√	√	√	√	
AUX INPUT CONFIGURATION CHOICE		√		√			
LEAF DELAY EXCLUSION	in prog.			√		c.d.	
PRE-FLASHING ACTIVATION	√	√		√	√	c.d.	
AUTOMATIC RE-CLOSING ACTIVATION		√		√	√		√
PHOTOCELL AUTO-TEST ACTIVATION	√	√		√		c.d. o bus	c.d. o bus
ENCODER ACTIVATION		√		√		c.d.	c.d.
SOFT START ACTIVATION		√		√		c.d.	c.d.
SLOW DOWN ACTIVATION	√	√		√		c.d.	c.d.
ADJUSTABLE ACCELERATION RAMP						c.d.	c.d.
ADJUSTABLE DECELERATION RAMP						c.d.	c.d.
LEAF LOCK ACTIVATION	√	√		√			
INVERTION STROKE ACTIVATION	√	√		√		c.d.	c.d.
PHOTOCELL IN OPENING ACTIVATION		√		√		c.d.	c.d o bus
PHOTO STOP ACTIVATION		c.d.		c.d.		c.d.	c.d.
PHOTO PARK ACTIVATION							c.d.
PHOTO STOP CLOSING ACTIVATION							c.d.
CLOSE AFTER PHOTOCELL		c.d.	√	c.d.		c.d.	c.d.
LEAF DELAY ADJUSTMENT	in prog.			in prog.		c.d.	

BOARD 2

ADJUSTABLE PARAMETERS WITH DIP SWITCH JUMPER	NEW SWING 2 ROLL	GATE 2 ROLL	ROLLING	GATE 2 ROLL	MINI GATE1 24V	USER2 24V ROLL	USER1 24V ROLL
CLOSING DIRECTION		√					√
START ACTIVATION IN PAUSE							√
COURTESY LIGHT TIMING	trimmer	c.d.		c.d.	√	c.s.r.	c.s.r.

BOARD 3

APPLICABLE ACCESSORIES BOARDS	NEW SWING 2 ROLL	GATE 1 ROLL	ROLLING	GATE 2 ROLL	MINI GATE1 24V	USER 2 24V ROLL	USER1 24V ROLL
FOTO 50	√	√	√	√	√	√	√
FOTO 60	√	√	√	√	√	√	√
SUNSET	√	√	√	√	√	√	√
SUNSET BUS	*	*		*		√	√
GHOST 50	√	√	√	√	√	√	√
SUNSET BAT	√	√	√	√	√	√	√
WALL	√	√	√	√	√	√	√
SLIM	√	√	√	√	√	√	√
HEATER	√	√	√	√			
GSM radio transmitter	√	√	√	√	√	√	√
Radiodec Prox	√	√	√	√	√	√	√
KIT ANTENNA	√	√		√	su RX	√	√
230V warning lamp (Flash,lamp...)	√	√		√			
Warning lamp with flashcard			√				
FLASH 24V CON LED	√	√		√	√	√	√
Security edge		√		√	√	√	√
Key switch	√	√	√	√	√	√	√
PUSH BUTTON BOARDS	√	√	√	√	√	√	√
PALM COPY	√	√		√			
JOLLY						√	√
Administration card for magnetic loop	√	√	√	√	√	√	√
Backup battery	√	√	√	√	√		
ADDITIONAL POWER SUPPLY	√	√	√	√	√	√	√
Receiver plug in			√		√		
ELECTRIC LOCK	√	c.s.r.		√		√	√
BATTERY RECHARGE CARD					√	√	√

* READ INSTRUCTION MANUAL (ONLY WITH 230V WARNING LAMP AND NOT LED WARNING LAMP)

BOARD 3

APPLICABLE ACCESSORIES BOARD	NEW SWING 2 ROLL	GATE 1 ROLL	ROLLING	GATE 2 ROLL	MINI GATE1 24V	USER 2 24V ROLL	USER1 24V ROLL
MODULE RF 0 RF ROLL	√	√		√		√	√
EXTERNAL RELAY CARD	√	√	√	√		√	√
OPEN FOR SOFTWARE UPDATE						√	√
SAFETY GATE		√		√			

BOARD 4

ADJUSTABLE PARAMETERS THROUGH TRIMMER OR PUSHBUTTONS	NEW SWING 2 ROLL	GATE 1 ROLL	ROLLING	GATE 2 ROLL	MINIGATE1 24V	USER 2 24V ROLL	USER1 24V ROLL
PAUSING TIME ADJUSTMENT	√	√	√	√	√	√	√
MOTOR TORQUE ADJUSTMENT	√	√		√		√	√
LEAF DELAY ADJUSTMENT						√	
WORKING TIME ADJUSTMENT			√				
SLOW DOWN DURATION ADJUSTMENT		√		√			
SLOWDOWN SPEED ADJUSTMENT	√	√		√	√	√	√
ADJUSTMENT SPEED						√	√
SLOWDOWN SPEED ADJUSTMENT							√
SLOWDOWN TORQUE ADJUSTMENT							
PROGRAMMING TRANSMITTERS	√	√		√		√	√
FUNCTION LOGIC CHOICE						√	√
SELF LEARNING TIME	√	√		√	√	√	√
MOTOR SPEED ADJUSTMENT					√	√	√

BOARD 5

PROGRAMMING MODALITIES	NEW SWING 2 ROLL	GATE 1 ROLL	ROLLING	GATE 2 ROLL	MINI GATE 1 24V	USER 2 24V ROLL	USER 1 24V ROLL
SELF LEARNING WITH LIMIT SWITCH		√		√	√	√	√
SELF LEARNING W/OUT LIMIT SWITCH	√	√	√	√		√	√
SINGLE OR DOUBLE LEAF	√			√		√	√
WITH ENCODER		√		√	√	√	√
CHANGEMENT TIMES WITH EXTERNAL DISPLAY	√	√		√			
Manual time adjustment by trimmer			√				

BOARD 6

WORKING LOGICS	NEW SWING 2 ROLL	GATE 1 ROLL	ROLLING	GATE 2 ROLL	MINI GATE1 24V	USER2 24V ROLL	USER1 24V ROLL
AUTOMATIC			√		√	√	√
AUTOMATIC							
SEMIAUTOMATIC			√		√		√
SEMIAUTOMATIC 1	√	√		√		√	
SEMIAUTOMATIC 2	√	√		√		√	
2 BUTTONS EPENING /CLOSING		√*					√
DEAD MAN		√*				√	√
SECURITY	√	√		√		√	√
SEMIAUTOMATIC OF SECURITY	√	√		√			√
AUTOMATIC 1	√	√		√			√
AUTOMATIC 2	√	√		√			√
MANUAL	√	√		√			
STEP-BY-STEP							
STEP-BY-STEP TYPE 1						√	√
STEP-BY-STEP TYPE 2						√	√
CONDOMINIUM							
AUTOMATIC OF SECURITY							

BOARD 7

ON BOARD PUSH BUTTON	NEW SWING 2 ROLL	GATE 1 ROLL	ROLLING	GATE 2 ROLL	MINI GATE 1 24V	USER 2 24V ROLL	USER 1 24V ROLL
SELF-LEARNING	√	√		√	√	√	√
SELF-LEARNING RADIO TRANSMITTER	√	√		√	Su RX	√	√
PROGRAMMAZIONI FUNZIONI						√	√
MANUAL ADJUSTING PUSH BUTTON					√		
START PUSH BUTTON	√				√		

Legend:
c.d. = optional display
palm= with accessory terminal
In prog= programming phase
opz.= by choice on aux input
c.s.r.= with relay card
(*) as soon as available

- Automatic or automatic 2:** One start impulse opens, one start impulse in opening is refused, one start impulse during pause closes immediately otherwise closes again in automatic at the end of the pause, a start impulse in closing inverts.
- Automatic** a start impulse opens, a start impulse in opening is refused, a start impulse in pause closes immediately, one start impulse in closing stops the movement, a second impulse in closing inverts
- Semiautomatic:** a start impulse opens, at the end of the opening cycle a start impulse is necessary to close again, a start impulse in opening stops the movement a successive one inverts the movement, one in closing inverts the movement
- Dead man:** Hold start opens, pedestrian start hold closes, at the push button release the automation stops
- Security, autom. of security:** A start impulse opens, a start impulse in both opening and closing inverts
- Automatic 1** A start impulse opens, at the end of the opening cycle a start impulse is necessary to close again, a start impulse in both opening and closing inverts the movement.
- Step-by-step Type 1:** A start impulse opens, a start in opening is not accepted, one in pause is not accepted, one in closing inverts the movement
- Manuel:** The repeated start impulse executes the sequence open, stop, close, stop, open, stop close....
- Step-by-step:** A start impulse opens, a start impulse closes
- Step-by-step Type 2:** A start impulse opens, a start impulse during slow down, pause or stop on obstacle, stops the movement. A start impulse is necessary to close again. In closing a start impulse stops, the second one inverts
- Condominium** The repeated start executes the sequence open, stop, close, open, stop, close...

BOARD 8

(*) As soon as available

TECHNICAL SPECIFICATIONS PHOTOCELLS	NOMINAL ABSORBED CURRENT	RANGE	POWER SUPPLY	IP CLASS	OPERATING TEMP.	RELAY CAPACITY	DIMENSIONS
Foto 50	55 mA the couple	35m	12V/24V AC/DC	55	-15°C/55°C	1A 24V	75x75 mm Ø 65 mm
Foto 60	108 mA the couple	20m	12V/24V AC/DC	55	-15°C/60°C	1A 24V	75x75 mm Ø 65 mm
Sunset	60 mA the couple	15m	12V/24V AC/DC	55	-15°C/60°C	1A 24V	57x85x33 mm
Sunset Bus	50 mA the couple	15m	from BUS	55	-15°C/60°C		57x85x33 mm
Ghost 50	60 mA the couple	15m	12V/24V AC/DC	55	-15°C/60°C	1A 24V	57x85x88 mm
Sunset Bat	*			55	*	1A 24V	
SLIM for internal	95 mA the couple	10m	12V/24V AC/DC	55	-15°C/60°C	1A 24V	135x26x20

BOARD 9

TECHNICAL SPECIFICATIONS TRANSMITTERS	CARRYING	RANGE (*)	CODIFICATION	POWER SUPPLY	ABSORPTION	DIMENSIONS
SMART DUAL	433 Mhz	100 m 120 m	Fixed Code 12 bit	2X3V (1XCR2016)	20mA	64x35x14
LADYBIRD FM	433 Mhz	300 m	Fixed Code 12 bit	12V (1X23A)	20mA	70x42x14
HEAD Roll	433 Mhz 868 Mhz	150m 180m	Codification Rolling Code 64bit	12V (1X23A)	20mA	67x39x15
LADYBIRD Roll	433 Mhz 868 Mhz	150m 200m	Codification Rolling Code 64bit	12V (1X23A)	20mA	70x42x14
LADYBIRD	433 Mhz 868 Mhz	150m 200m	Fixed Code 12 bit	12V (1X23A)	20mA	70x42x14

(*) With tuned antenna: the range of those units can vary depending on the electromagnetic pollution entity, of the spurious RF signals, on the place of installation or of eventual obstacles which are placed between the radio transmitter and related receiver.

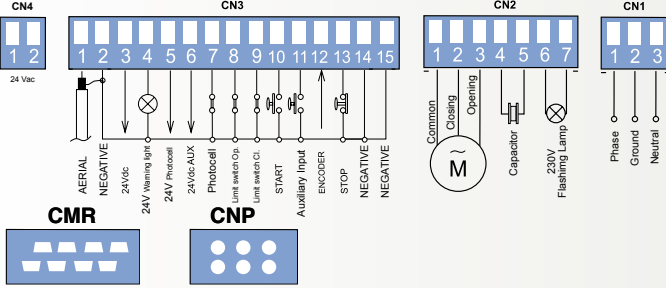
BOARD 10

TECHNICAL SPECIFICATION RECEIVERS	CARRYING FREQUENCY	INPUT IMPEDANCE	SENSITIVITY	ABSORB. IN PAUSE	DECODING	N. ADMIN. CODE	CHANNEL QUANTITY	DIMENSIONS	RELAY CONTACT
SIGNAL plug-in	433 Mhz 868 Mhz	50 Ohm	-100 dBm	15 mA	Multistandard	800	2 (2°ped.)	40x50 mm	-
SIGNAL BOX	433 Mhz 868 Mhz	50 Ohm	-100 dBm	15 mA	Multistandard	800	2 (1NC/Temp.)	107x74x33 mm	CH1/N.O. CH2/N.O.-N.C.
RADIODEC PROX	433 Mhz 868 Mhz	50 Ohm	-100 dBm	150 mA	Multistandard	500	1	170x115x75 mm	CH1/N.O. CH2/N.O.-N.C.
SIGNAL ROLL plug-in	433 Mhz 868 Mhz	50 Ohm	-100 dBm	20 mA	Rolling Code	50	2 (2°ped.)	40x50 mm	-
SIGNAL ROLL BOX + antenna	433 Mhz 868 Mhz	50 Ohm	-100 dBm	20 mA	Rolling Code	50	2 (Bistable)	107x74x33 mm	CH1/N.O. CH2/N.O.-N.C.
SIGNAL roll 800 in box	433 Mhz 868 Mhz	50 Ohm	-100 dBm	20 mA	Rolling Code	800	2 (Bistable/Temp.)	130x60x52 mm	CH1/N.O. CH2/N.O.-N.C.
RF MODULE	433 Mhz 868 Mhz	50 Ohm	-100 dBm	6 mA	On control unit	On control unit	On control unit	40x27 mm	-
FLEX	433 Mhz 868 Mhz	50 Ohm	-100 dBm	15 mA	Multistandard	800	2	-	CH1/N.O. CH2/N.O.-N.C.
RF FM MODULE	433 Mhz 868 Mhz	50 Ohm	-100 dBm	6 mA	On control unit	On control unit	On control unit	40x27 mm	-
RF ROLL	433 Mhz 868 Mhz								

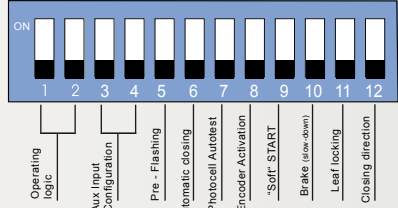
Connections

Control units

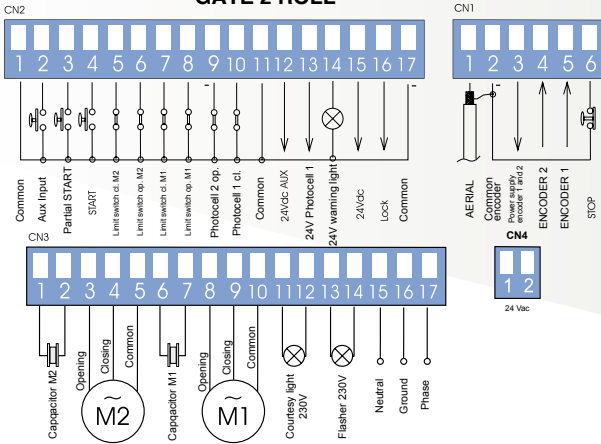
GATE 1 ROLL



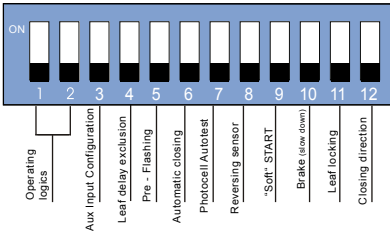
DIP



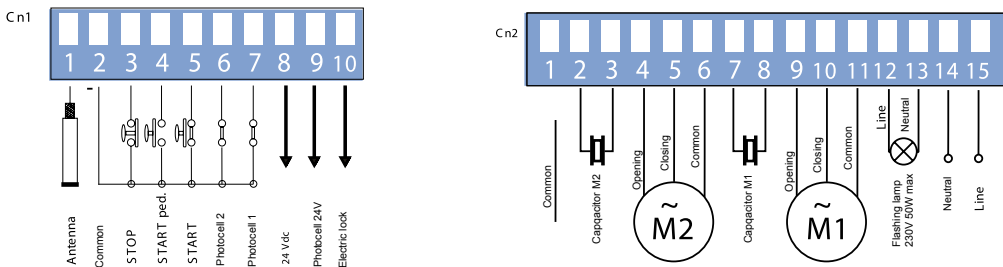
GATE 2 ROLL



DIP



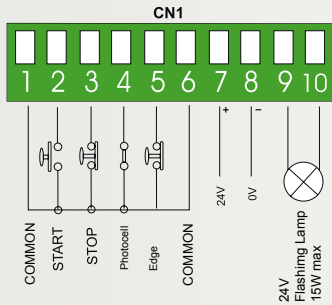
SWING 2 ROLL OLD MODEL



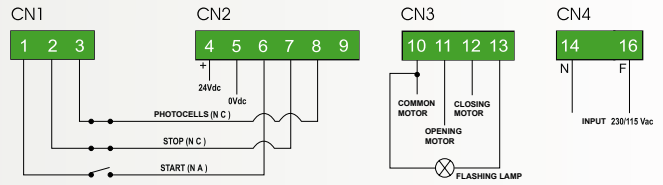
Connections

Control unit

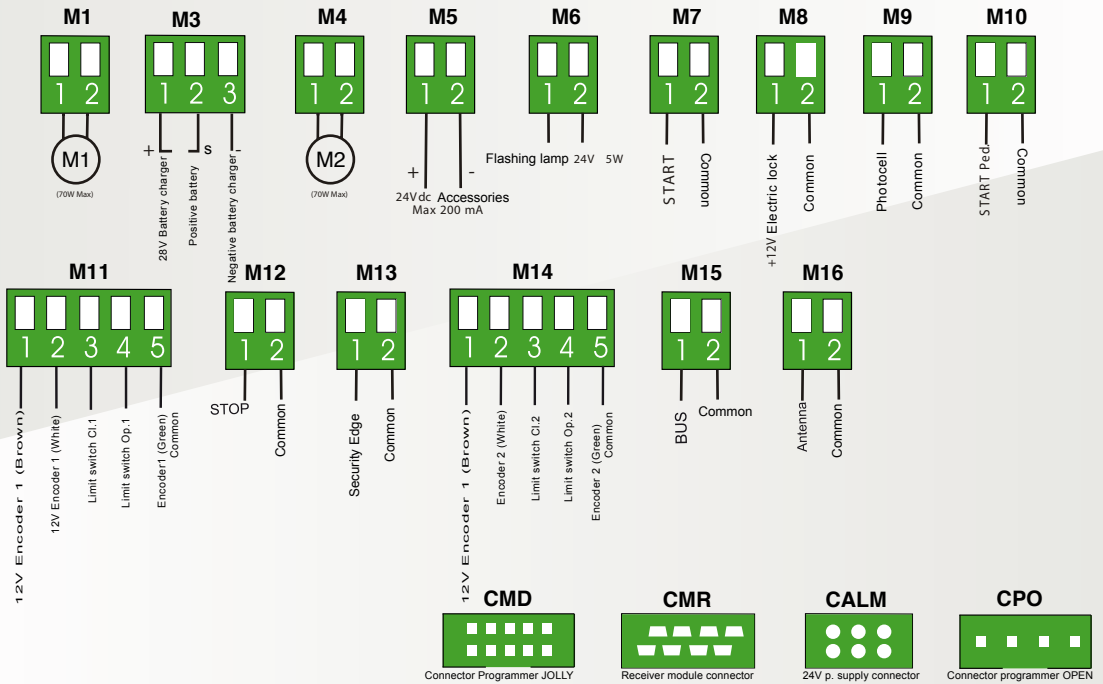
MINI GATE 1 24V



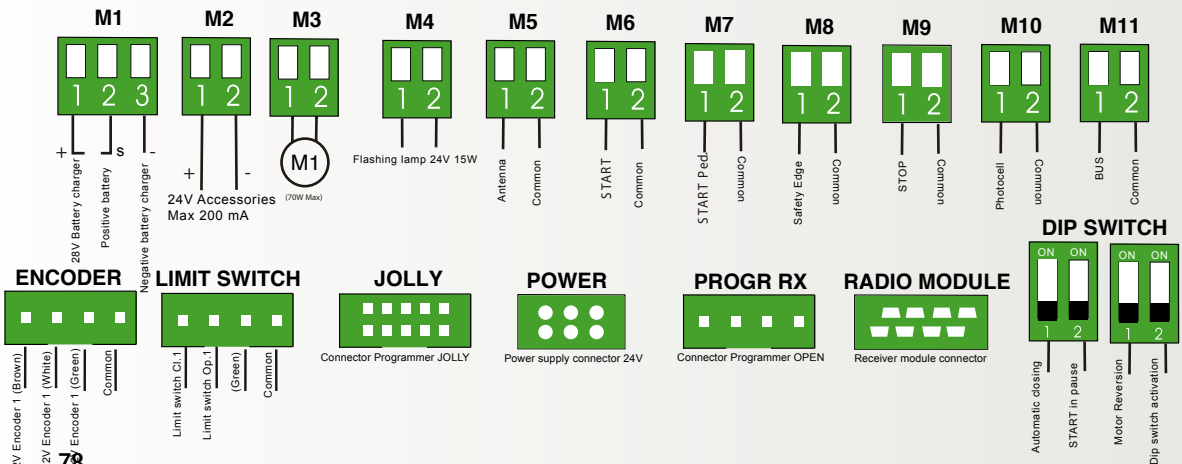
ROLLING



USER 2 24V ROLL



USER 1 24V ROLL



Control units for one or two motors (gate series)

GATE 1 ROLL

Description

- 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 radio transmitters LADYBIRD, HEAD ROLL, SMART DUAL (800 users) series with optional RF radio frequency module
- 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



Complete with IP55 box



BOX BL

GATE 2 ROLL

Description

- Management of two 230 Vac motors with or without limit switch
- Automatic logic (4 modalities), semiautomatic
- Slow down in opening and closing
- Motor torque adjustment
- Self-learning operating times
- Auto-test on photocells
- Auto-diagnostic
- Administration encoder (also Safety Gate for swing gates)
- Electric lock management
- Diagnostic Leds on all outputs/inputs
- Extractable connectors
- Integrated radio decoding compatible with radio transmitter SMARTHEAD, LADYBIRD (800 users) series with optional RF radio frequency module (RF)
- Programming through palm
- Working time
- Pedestrian opening time
- SAFETY GATE (encoder) sensitivity
- N° cycles for assistance
- Limit switch exclusion (to avoid bridges)
- Electric lock activation in closing
- PUSH-OVER function administration
- AUX output administration
- Automatic closing with photocells crossing administration
- Courtesy light timing mode
- Photocells in opening and closing



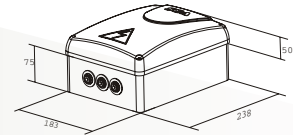
Complete with IP55 box



BOX BLD



BOX BLD



BOX BL

Electronic units for swing gates

(for all swing gates without limit switches) NEW SWING 2

AMPEROMETRIC

Description

- Management of two 230 Vac motors without limit switch
- Automatic, semiautomatic, automatic, semiautomatic of security
- Slow down in opening and closing
- Motor couple adjustment
- Self-learning working times
- Auto-test on photocell
- Auto-diagnostic
- Automatic closing with photocell crossing administration
- Courtesy light
- Electric lock management
- Diagnostic Leds on all outputs/inputs
- Extractable connectors
- Integrated radio decoding compatible (800 users) series with optional radio frequency module
- Pedestrian opening
- Max. transformer output capacity 200mA
- Programming through PALM:
- Working time
- Leaf slow down time
- N° cycles for assistance
- PUSH-OVER function administration
- Photocells in opening administration



Complete with IP55 box



BOX BL

* FOR SW UPDATING

N.B: The control units GATE1 ROLL - GATE2 ROLL - NEW SWING 2-USER 1 24V- USER 2 24V ROLL are equipped with radio decoding and it is necessary to plug in the radio module RF Roll 433 (or RF Roll 868 MHz) to activate the Rolling Code receiving function.

The radio decoding has two channels (pedestrian II° channel) with 800 users.
For Fixed Code function just add the RF on GATE 1 - USER 1 24V - USER 2 24V and NEW SWING 2. On GATE 2 replace Micro with KIT RF + Micro.

CODE	DESCRIPTION
23001120	GATE 1 ROLL with box
23001123	GATE 1 ROLL THEEPH. with box
23001129	GATE 2 ROLL with box
23021093	NEW SWING 2 ROLL with box
23105350	BL small box
23105355	BLD big box
23120424	KIT RF + Micro GATE2
23106230	Micro Gate 1 dead man function

24V low tension control unit

NEW

USER 1 24V ROLL

Description

- Administration of two 24V motors
- Slow down in opening and closing
- Motor speed adjustment
- Pedestrian opening
- 24V warning lamp on board
- Electric lock administration
- Emergency battery administration
- Working time self-learning
- Incorporated radio decoding comp. with radio transmitter SMART, HEAD, LADYBIRD series and SMART (800 users) with optional radio frequency module (RF)
- Encoder administration
- Simplified programming with push buttons
- Inversion on obstacle adjustable ammeter type
- Bus photocell management
- Safety edge administration
- Torque regulation
- Slow down speed regulation
- Automatic, safety, step by step type 1, step by step type 2, pushbuttons, dead man logics
- Motor and limit switch reverse with DIP
- Automatic closing setting
- Start in pause setting



BOX BL

-For Swing Gates- Digital programming

Description

- Administration of two 24V motors
- Slow down in opening and closing
- Motor speed adjustment
- Pedestrian opening
- 24V warning lamp on board
- Electric lock administration
- Emergency battery administration
- Working time self-learning
- Incorporated radio decoding comp. with radio transmitter SMART, HEAD, LADYBIRD series and SMART (800 users) with optional radio frequency module (RF)
- Encoder administration
- Simplified programming with push buttons
- Inversion on obstacle adjustable ammeter type
- Bus photocell management
- Safety edge administration
- Torque regulation
- Slow down speed regulation
- Dead-man, automatic, safety, step by step type 1, step by step type 2, semi-automatic1, semiautomatic2 logics

USER 2 24V ROLL



Complete with IP55 box



BOX BLD

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 electric 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



JOLLY

-For rolling shutters SONG-

ROLLING

Description

- Administration of one 230 Vac motor
- Automatic, semiautomatic logic
- Extractable connector
- Connector for plug in receivers SIGNAL series



CODE	DESCRIPTION	PRICE
------	-------------	-------

23024065	USER 1 24 V ROLL for SPRINT/VERG	
23024066	USER 1 24V ROLL for STORM/VELA INDUSTRIAL	
23024060	USER 1 24V ROLL for swing gates	
23024016	USER 2 24V ROLL with box for ALPHA/FIELD/SURF	
23024017	USER 2 24V ROLL with box (BETA)	
23024020	USER 2 24V ROLL HYDRO with box	
23105276	JOLLY Programmer for User	
23101105	ESJUN Solar panel control unit and battery charger (for USER 2 24V ROLL)	
23101120	CHGS Control board for solar panel and MINI GATE 1 24V charger	
23101106	CL Electronic control board for courtesy light and lock with bolt administration (USER 24V ROLL)	

CODE	DESCRIPTION			
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13301150	ROLLING with box			
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N.B: To activate the receiving function on the USER control units just add a RF or RF Roll module. To activate the receiving function on the Rolling control units it is necessary to add the SIGNAL plug-in receiver.

MINI GATE 1 24V

-For CORONA

Description

- Administration of one 24V motor
- Automatic, semiautomatic logic
- Extractable connector
- Pedestrian opening
- Administration control lamp open gate
- Administration courtesy light
- Motor couple adjustment
- Slow down in opening and closing (only with limit switch)
- Connector for plug in receivers SIGNAL series



CODE

DESCRIPTION

23021035	MINI GATE 1 24V	spare p.list
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ELETTROSWING 2

Description

1. Control unit Swing 2 roll + rec.
2. TX SMART DUAL
1. Couple of photocells SUNSET
1. Antenna+ cable



Kit electronic SWING 2 ROLL

ELETTROGATE1

Description

1. Control unit Gate 1 ROLL + rec.
2. TX SMART DUAL
1. Couple of photocells SUNSET
1. Antenna+ cable



Electronic Kit GATE 1 ROLL

ELETTROGATE 2

Description

1. Control unit Gate 2 ROLL + rec.
2. TX SMART DUAL
1. Couple of photocells SUNSET
1. Antenna+ cable



Electronic Kit GATE 2 ROLL

CODE

DESCRIPTION

CODE	DESCRIPTION			
23106025	KIT ELETTR. SWING 2 Roll 433 MHz			
23106005	KIT ELETTR. GATE 1 ROLL 433 MHz			
23106010	KIT ELETTR. GATE 2 ROLL 433 MHz			
23106210	RADIOKIT HEAD 433 MHz ROLL			
23106225	RADIOKIT LADYBIRD ROLL 433 MHz			
23106226	RADIOKIT LADYBIRD ROLL 868 MHz			
23106227	RADIOKIT SMART DUAL ROLL 433 MHz			
23106228	RADIOKIT SMART DUAL ROLL 868 MHz			

RADIO SMART DUAL ROLL

Description

Radiokit SMART DUAL ROLL 433 MHz*

2. TX SMART Rolling Code 433 MHz 2ch
 1. RX SIGNAL BOX ROLL 433 MHz
- With integrated antenna

Radiokit SMART DUAL ROLL 868 MHz*

2. TX SMART Rolling Code 838 MHz 2ch
 1. RX SIGNAL BOX ROLL 868 MHz
- With integrated antenna



* Complete with wall support for SIGNAL BOX ROLL

RADIO HEAD ROLL

Description

Radiokit HEAD 433 MHz ROLL*

2. TX HEAD Rolling Code 433 MHz 2ch
 1. RX ROBOT BOX 433 MHz
- With integrated antenna



* Complete with wall support for ROBOT BOX

RADIO LADYBIRD ROLL

Description

Radiokit LADYBIRD ROLL 433 MHz*

2. TX LADYBIRD Rolling Code 433 MHz
 1. RX SIGNAL BOX ROLL 433 MHz
- with integrated antenna

Radiokit LADYBIRD ROLL 868 MHz *

2. TX LADYBIRD Rolling Code 868 MHz
 1. RX SIGNAL BOX ROLL 868 MHz
- with integrated antenna



* Complete with wall support for SIGNAL BOX ROLL

SUNNY

Solar pannels

CODE	DESCRIPTION
23106360	KIT SUNNY DC (for MINI GATE 1 24V ROLL)*
23106365	KIT SUPER SUNNY DC (for Gate1 24V ROLL)*
23106370	KIT SUNNY DC (for User 24V ROLL)
23106375	KIT SUPER SUNNY DC (for User 24V Roll)

* only CORONA

Kit SUNNY content:
 n. 1 24V - 20Wp solar panel
 n. 2 batteries
 n. 1 charger
 n.1 kit assembling accessories

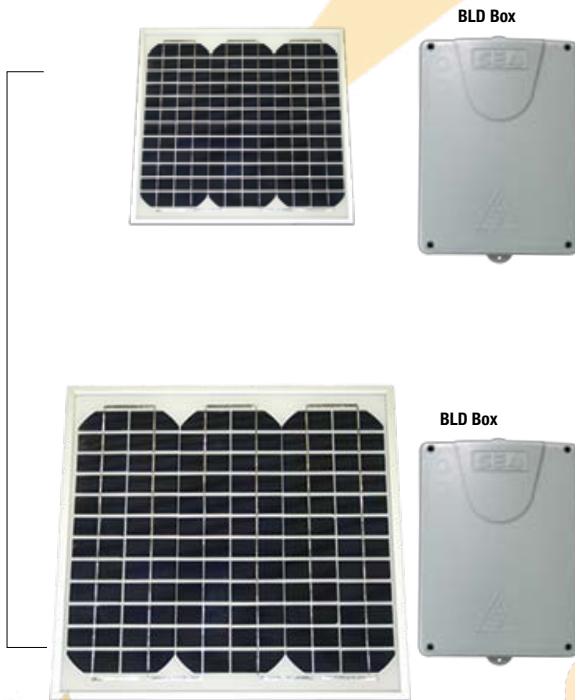
Kit Super SUNNY content:
 n. 1 24V - 40Wp solar panel
 n. 2 batteries
 n. 1 charger
 n. 1 kit assembling accessories

SUNNY

Fit for non-intensive installations or for installations provided with power supply like alternative energy source.

SUPER SUNNY

Some times and for residential use allows the alimentation of the installation in complete autonomy (without powere supply). The energetic efficiency of the system depends on the daily cycles, on geographic position and on connected accessories, therefore is not garanted.



SUNNY

Solar pannel

- Nominal operating voltage: 24V
- Max power: 20Wp
- Dimensions: 550X350X25 mm
- Weight: 2 Kg

Accumulator

- Nominal operating voltage: 24V
- Max Current: 5A
- Capacity battery: 12Ah
- Dimensions: 330X250X140 mm

SUPER SUNNY

Solar pannel

- Nominal operating voltage: 24V
- Max power: 40Wp
- Dimensions: 665X537X35 mm
- Weight: 4 Kg

Accumulator

- Nominal operating voltage: 24V
- Max Current: 10A
- Capacity battery: 18Ah
- Dimensions: 310X240X190 mm

$a > 10^\circ$
 $a =$ rotation angle

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

Guide to the PRODUCT

Guide to the products radio transmitters and receivers

433 MHz and 868 MHz TRANSMITTERS AND RECEIVERS

FIXED CODE FUNCTIONING:

All transmitters
- Fixed code
(CF)
- dip switch

LADYBIRD
SMART DUAL
HEAD DIP SWITCH

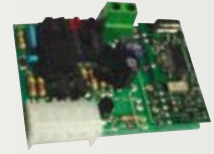
SIGNAL I plug-in pag.87

SIGNAL BOX + antenna pag.87

FLEX
universal receiver pag.87

RF
Radio frequency module pag.86-87

RADIODEC PROX pag.92



PURE ROLLING CODE FUNCTIONING:

HEAD ROLL

ROBOT I plug-in pag.86

ROBOT BOX pag.86

SQUARE ROLL with box pag.86



CUSTOMIZABLE PURE ROLLING CODE FUNCTIONING:

LADYBIRD
ROLL
SMART DUAL
ROLL

SIGNAL BOX ROLL pag.84

RF ROLL pag.84

SIGNAL ROLL I pag.84



LADYBIRD ROLL (Billions of combinations)

LADYBIRD

433 MHz/868 MHz two and four ch. transmitters

TRANSMITTERS



CODE	DESCRIPTION
23110471	LADYBIRD ROLL 2C-433 Mhz(10pcs)
23110476	LADYBIRD ROLL 4C-433 Mhz(10pcs)
23110481	LADYBIRD ROLL 2C-868 Mhz(10pcs)
23110486	LADYBIRD ROLL 2C-868 Mhz(10pcs)

Description

- New transmitter with refined design
- 2 or 4 ch. version
- 433 -868 MHz Frequencies
- Dip-switch, rolling code 64 Bit
- 12V alkaline battery
- Long range thanks to an antenna of big dimensions
- Signalisation led
- Silicon buttons pleasant to touch
- Large choice of colours for customization of the 4 channel version.

note: wings ladybird just for TX 4ch



CODE	DESCRIPTION
23110468	SUPPORTO FIX LADYBIRD fixation support

NEW

Package min. (10pcs)

Note: The Head transmitters can be bought with the special formula QX1 (100pcs), QX2 (500pcs) and QX3 (1000pcs).



CODE	DESCRIPTION
23101070	ANT433 Antenna 433 MHz adjustable with bracket
54705250	CABLE58 Cable RG 58 (5 m)

CODE	DESCRIPTION
23101030	ANT433 Antenna 433 MHz adjustable with bracket and 5 m cable
54701200BLUE 54701200YELLOW 54701200GREY 54701200RED 54701200GREEN 54701200ORANGE 54701200DARKBLUE	COVER WINGS Ladybird Transmitter 4 channels personalized colour *(min. lot 50 pairs) for 50 TX (50 wings DX+50 wings SX)

433 MHz receivers for LADYBIRD Roll and PROGRAMMER with SOFTWARE



RF ROLL 433 or RF 868 Mhz
- Radio module



SIGNAL BOX ROLL 433 and 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 LADYBIRD ROLL.
- Possibility to make a security copy of the memory with OPEN system
- Integrated Antenna
- IP 54 Protection class



OPEN LADYBIRD TRANSMITTERS PROGRAMMER
- LADYBIRD ROLL TRANSMITTERS programming and management
- RX ROLLING CODE programming and management
- installer files management
- installations files management
- USB connections interface



SP40 SOFTWARE
- LADYBIRD ROLL TRANSMITTERS programming and management
- RX ROLLING CODE programming and management
- Installer files management
- Installations files management

CODE	DESCRIPTION
23120470	RF ROLL 433 Mhz
23120480	RF ROLL 868 Mhz
23120465	SIGNAL BOX ROLL with antenna 433 Mhz
23120485	SIGNAL BOX ROLL with antenna 868 Mhz
23120488	SIGNAL ROLL I 433 Mhz PLUG-IN*
23120490	SIGNAL ROLL I 868 Mhz PLUG-IN*
54710017	Batteries 12V (50pcs)
23105290	OPEN Programmer Transmitter TX LADYBIRD ROLL
23105295	SP40 Software
23105291	OPEN with module BLUETOOTH
23105292	OPEN with module GPRS

*for control units MINIGATE - 24V ROLL version 2010 and ROLLING

SMART DUAL ROLL (Billions of combinations)



SMART

SMART DUAL ROLLING CODE 433 MHz

CODE	DESCRIPTION
23110570	SMART Dual Roll 2 ch. 433MHz (10 pcs)
23110575	SMART Dual Roll 3 ch. 433MHz (10 pcs)

SMART DUAL ROLLING CODE 868 MHz

CODE	DESCRIPTION
23110590	SMART Dual Roll 2 ch. 868MHz (10 pcs)
23110595	SMART Dual Roll 3 ch. 433MHz (10 pcs)

TRANSMITTERS



433 MHz



868 MHz

Description

- Solid and compact radio transmitter
- LED signal
- Versions with 2 or 4 channels
- Available in 433 and 868 MHz frequencies
- Version with Rolling Code 64 bit codification (available version dip switch 2 channel 868 MHz)
- Easily replaceable battery 6V(2x3)
- Receivers: SIGNAL ROLL - SIGNAL BOX ROLL - SIGNAL ROLL in box
- Max. security thanks to the rolling code system which modifies continuously the code with billions of combinations to make cloning impossible

Package min. (10pcs)

Note: The Head transmitters can be bought with the special formula QX1 (100pcs), QX2 (500pcs) and QX3 (1000pcs).



CODE	DESCRIPTION
23101070	ANT433C Antenna 433 MHz adjustable with bracket
54705250	CABLE58 Cable RG 58 (5 m)

CODE	DESCRIPTION
23101030	ANT433C Antenna 433 MHz with bracket and 5m cable

433 and 868 MHz Receivers for SMART DUAL ROLL



RF ROLL 433 or RF 868 Mhz

- Radio module

SIGNAL BOX ROLL 433 and 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 LADYBIRD ROLL.
- Possibility to make a security copy of the memory with OPEN system
- Integrated Antenna
- IP 54 Protection class

CODE	DESCRIPTION
23120470	RF ROLL 433 Mhz
23120480	RF ROLL 868 Mhz
23120465	SIGNAL BOX ROLL with antenna 433 Mhz
23120485	SIGNAL BOX ROLL with antenna 868 Mhz
23120488	SIGNAL PLUG-IN ROLL 433 Mhz *
23120490	SIGNAL PLUG-IN ROLL 868 Mhz *
54710018	6V Batteries (pack. 50pcs) (2X3V)

*Control unit MINIGATE - 12V ROLL version 2010 and Rolling

HEAD ROLLING CODE (Billions of combinations)

HEAD HEAD ROLLING CODE 433 MHz

CODE	DESCRIPTION
23110400	HEAD 2 channels (10 pcs)
23110405	HEAD 4 channels (10 pcs)

HEAD ROLLING CODE 868 MHz

CODE	DESCRIPTION
23110410	HEAD 2 channels (10 pcs)
23110415	HEAD 4 channels (10 pcs)

HEAD DIP SWITCH on request.

Description

- 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
- Programming with internal push button with receivers: ROBOT i - 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.

NEW Note: The HEAD transmitters can be bought with the special formulae QX 1 (100 pcs) and QX 2 (500 pcs)

CODE	DESCRIPTION
23101070	ANT433 Antenna 433 MHz with bracket
23101072	ANT868 Adjustable antenna 868 MHz with bracket
54705250	CABLE58 Cable RG 58 (5 m)
12715225	Fixed support for adjustable antenna

CODE	DESCRIPTION
23101030	ANT433C Antenna 433 MHz with bracket and 5 m cable
23101065	ANT868C Antenna 868 MHz with bracket and 5 m cable



433 and 868 MHz Receivers

ROLLING CODE

ROBOT BOX 50 users 433 and 868 MHz

- 2 ch. receiver with narrow band (super-heterodyne) 800 codes
- Available in the 433 and 868 MHz Frequencies
- Easy and intuitive programming of the transmitters
- Compatible with the transmitters SMART and HEAD, both Rolling Code and Dip switch

ROBOT 1 plug-in 433 and 868 Mhz (only for ROLLING and MINIGATE)

- 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 SMART, HEAD and both Rolling Code and Dip switch transmitters.

SQUARE in box 800 codes 433 and 868

CODE	DESCRIPTION
23120156	ROBOT I 433 MHz 50 users Rol. Co. plug-in
23120305	ROBOT I 868 MHz 50 users Rol. Co. plug-in
23120167	ROBOT BOX and antenna 2 ch 433 MHz 50 codes Rolling Code
23120320	ROBOT BOX and antenna 2 ch 868 MHz 50 codes Rolling Code
54710017	Batteries 12V (pack. 50 p.)
23120370	SQUARE 433Mhz 800codes
23120340	SQUARE 868Mhz 800codes

- 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 SMART, HEAD, both Rolling Code and Dip-switch
- Possibility to make security copies of the memory with PALM Easy

LADYBIRD (1024 possible combinations)

LADYBIRD

Transmitters 433 MHz 2 or 4 channels



CODE	DESCRIPTION
23110491	LADYBIRD 2C-433 (10 pcs)
23110496	LADYBIRD 4C-433 (10 pcs)

433 MHz DIP SWITCH 2 or 4 channels transmitters

CODE	DESCRIPTION
23110551	LADYBIRD FM 4C 433 (10 pcs)

Description

- New transmitter with refined design
- 2 or 4 ch versions
- 433 MHz Frequencies
- Dip-switch, rolling code personalized and with fixed code with 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.

note: wings ladybird just for TX 4ch



Package 10 pcs min.

N.B. : The LADYBIRD transmitters can be bought with the formula QX 1 (100 pcs), QX2 (500 pcs) and QX3 (1000 pcs)



CODE	DESCRIPTION
23110468	SUPPORT FIX LADYBIRD for wall



CODE	DESCRIPTION
23101070	ANT433 Adjustable antenna 433 MHz with bracket
54705250	CABLE58 Cable RG 58 (5 m)

CODE	DESCRIPTION
23101030	ANT433C Antenna 433 MHz with bracket and 5 m cable
54701200BLUE 54701200YELLOW 54701200 GREY 54701200RED 54701200GREEN 54701200ORANGE 54701200DARKBLUE	WINGS LADYBIRD personalized colour (min. lot 50 pairs) for 50 TX (50 wings DX+ 50 wings SX)

433 and 868 MHz Receivers for LADYBIRD



SIGNAL Plug in 433 Mhz (only for ROLLING and MINI GATE)

- 2 ch. receiver with narrow band (super-heterodyne) 800 codes
- Available in the 433 Frequencies
- Easy and intuitive programming of the transmitters
- Compatible with the transmitters SMART and HEAD, both Rolling Code and Dip switch
- Polarised plug in connector compatible with various control units SEA



RF 433 Mhz

- Radio module in combination with SWING 2 ROLL - GATE1 ROLL - GATE2 ROLL - SLIDE ROLL USER 2 24V ROLL control units



SIGNAL BOX 433 Mhz, FM

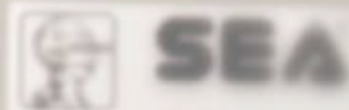
- 2 ch. receiver with narrow band (super- heterodyne) 800 codes
- Simple and intuitive programming of the transmitters
- Second channel programmable in bistable and or temporized modality
- Compatible with SMART, DUAL HEAD and LADYBIRD (FM version excluded –compatible only with Ladybird FM)
- Possibility to make a security copy of the memory with PALM Easy
- Integrated Antenna
- IP Protection class

FLEX 433 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 SMART, HEAD, and LADYBIRD
- Possibility to make security copies of the memory with PALM Easy



CODE	DESCRIPTION
23120380	SIGNAL ROLL 2 ch 433 Mhz
23120420	RF 433 MHz
23120400	SIGNAL BOX and anten. 433 Mhz
23120401	SIGNAL BOX FM 433
23120430	FLEX 433 Mhz
54710017	BAT Batteries 12V (package 50pcs)
23120423	KIT RF for SWING 2 Roll
23120424	KIT RF for GATE 2 Roll





SMART DUAL 433 MHz transmitters (1024 possible combinations)

SMART DUAL

Transmitters 433 MHz 2 and 3 channels



Smart Dual 2 channels

Smart Dual 3 channels



CODE	DESCRIPTION				
23110560	SMART DUAL 2 ch 433 Mhz(10pcs)				
23110565	SMART DUAL 3 ch 433 Mhz (10pcs)				

Description

- Small and light radio transmitter
- Silicon buttons pleasant to touch
- High brilliance leds
- Two and three channel version
- Available in the 433 MHz
- Easily replaceable battery (a coin is sufficient)

* Small package 10 pcs.



N.B. : The transmitters SMART DUAL can be bought with the formula QX 1 (100pcs), QX2 (500 pcs) and QX3 (1000 pcs)

TRANSMITTERS



Simple and intuitive cloning

Keep pressed for some seconds the first 2 push buttons of the transmitting receiver. As soon as the led begins to blink fast, the cloning function is activated and it is possible to proceed with the selection of the push button on which you want to clone the code of the other existing transmitter. After having chosen the push button, it is sufficient to bring the 2 transmitters next to each other and to press the push button of the existing transmitter. At this point the led will signalize the effectuated cloning. The cloning operation can function only between SEA transmitters, even between different models, provided that they are of the same frequency.



CODE	DESCRIPTION				
23101070	ANT433 Antenna adjustable 433 MHz with bracket				
54705250	CABLE58 Cable RG 58 (5 m)				



CODE	DESCRIPTION				
23101030	ANT433C Antenna 433 MHz with bracket and cable 5 m				

433 MHz Receivers



SIGNAL plug in 433 Mhz

- 2 ch. receiver with narrow band (super- heterodyne) 800 codes
- Simple and intuitive programming of the transmitters
- Compatible with SMART and HEAD, both Rolling Code and Dip switch
- Polarized plug in connector compatible with various SEA control units (MINI GATE, ROLLING)



RF 433 Mhz

- Radio module in combination with SWING 2 ROLL - GATE1 ROLL- GATE2 ROLL - SLIDE ROLL USER 2 24V ROLL control units
- 433 and 868 MHz frequencies available

SIGNAL BOX 433 Mhz

- 2 ch. receiver with narrow band (super- heterodyne) 800 codes
- 433 and 868 MHz frequencies available
- Second channel programmable in bistable and or temporized modality
- Compatible with SMART, DUAL HEAD and LADYBIRD CF
- Possibility to make security copies of the memory with PALM
- Integrated Antenna
- IP Protection Class



FLEX 433 Mhz

- 2 ch. receiver with narrow band (super- heterodyne) 800 codes
- Simple and intuitive programming of the transmitters
- Second channel progr.in bistable and or temporized modality
- Compatible with SMART, DUAL HEAD and LADYBIRD transmitters
- Possibility to make security copies of the memory with PALM Easy



CODE	DESCRIPTION				
23120380	SIGNAL plug-in 2 ch. 800 users 433 MHz*				
23120423	KIT RF + MICRO SWING 2 ROLL				
23120424	KIT RF + MICRO GATE 2 ROLL				
23120420	RF 433 MHz				
23120400	SIGNAL BOX box and anten. 800 users 433 MHz				
23120430	FLEX 433 MHz				
54710018	6V Batteries (pack. 50pcs) (2X3V)				

*only MINIGATE 1 24V and ROLLING version 2010

N.B. For compatibility with GATE 2 ROLL control unit, it is necessary to purchase the MICRO KIT for fixed coding . Price € 33,00

Accessories

JOLLY

programmer for USER 2 24V ROLL control board



Description

Advanced professional management of the following parameters

- Motors speed
- Motors torque
- Slow-down duration and speed
- Pedestrian leaf opening mode
- Cycles numbers
- BUS devices management
- Self-learning speed

it also allows to set the following functions

- Photocell in opening
- Reverse stroke
- Ant-intrusion
- Warning lamp with pre-flashing administration
- Photocell autotest
- Warning lamp

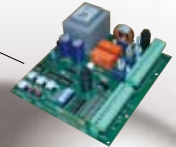
CODE	DESCRIPTION
23105276	JOLLY Programmer for USER 24V ROLL

PALM

Additional functions management on GATE1 ROLL - GATE2 ROLL - SWING 2 ROLL control boards

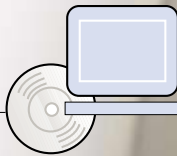


- Visualization and modification of the following param.
- Working time
- Leaf delay speed
- Pedestrian opening time
- Adjustment cycles N° for maintenance
- Anti-crushing sensitivity SAFETY GATE
- Limit switch exclusion (to avoid bridges)
- With Dead man logic (GATE 2 ROLL)
- Electric lock activation in closing (GATE2 ROLL)
- PUSH-OVER function management (GATE 1 ROLL- GATE 2 ROLL- SWING 2 ROLL)
- AUX output administration (GATE1 ROLL- GATE2 ROLL)
- Automatic closing with photocell crossing administration (GATE 1 ROLL- GATE 2 ROLL- SWING 2 ROLL)
- Photocell in opening administration (GATE 1 ROLL- GATE 2 ROLL- SWING 2 ROLL)
- Courtesy light timing mode (GATE ROLL)
- Courtesy light relay output as 2nd TX channel



CODE	DESCRIPTION
23105275	PALM
23105280	CDRom

FIRMWARE UP-DATE CONTROL BOARDS USER series



CODE	DESCRIPTION
23105292	OPEN
23105295	SP40 software

General accessories



SUNSET Synchronized surface photocell 15 m range
CODE 23102076



GOST 50 built-in photocell 15m range
CODE 23102080

Built in box for **GHOST 50**
CODE 66301670



FOTO 50 built-in photocell 30m range
CODE 23102020

For built in plastic box for **KEY**
For built in plastic box for **FOTO 50**
For built in metal box for **FOTO 50 /KEY**
See pag. 102



FOTO 60 Surface photocell with orientable circuit, 30 m range
CODE 23102090
n.b: it will be replaced with **EYES**



SLIM extra slim photocell for surface
CODE 23102095



WALL
Photocell for surface infrared and synchronized range up to 15 mt
CODE 23102125

EYES Synchronized photocell orientable with 15 or 30 m range
CODE 23102130

EYES-BUS Synchronized photocell bus orientable with 15 or 30 m range
CODE 23102135

EYES-BUT Synchronized photocell with batteries orientable, 15 or 30 m range
CODE 23102140

COVER aluminium 23103075



SUNSET BUS
Synchronized photocell for surface(only) for **USER 2 24V ROLL**
CODE 23102075



SUNSET BAT
Photocell with infrared modulate active rays, 10m range, for surface mounting, transmitter power supply for edge on mobile leaf (with solar panel)
CODE 23102105



FLASH LED 24V
Warning lamp
CODE 23104125 Dark Blue Cover
CODE 23104126 Yellow Cover



MINI LAMP Mini
Warning lamp 230V
CODE 23104006

MINI LAMP Mini warning lamp without flashing card 24V
CODE 23104011

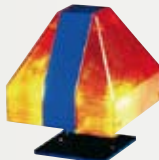


COSTA 200 2 m Thread security edge
Validated EN 12978
CODE 12705050

COSTA 250 EN 2,5m Thread Security edge
Validated EN 129758
CODE 12705055

COSTA 300 EN 3m Thread security edge
Validated EN 12978
CODE 12705060

COSTA Board EN Control unit for up to 4 edges to respect the law
CODE 12705065



LAMP big warning lamp without flashing card 230V (for **SLIDE ROLL-ROLLING**)
CODE 23104065

LAMP big warning lamp without flashing card 24V
CODE 23104055



FLASH 24 New Warning lamp 24V
CODE 23104105

FLASH New Warning lamp 230V
CODE 23104100

FLASH New warning lamp with flashing card 230V
CODE 23104110



KIT Antenna 433 MHz for Warning lamp **FLASH**
CODE 23101075
QX₁ 30 pcs QX₂ 60 pcs QX 100 pcs

KIT Antenna 868 MHz for Warning lamp **FLASH**
CODE 23101080
QX₁ 30 pcs QX₂ 60 pcs QX 100 pcs



Wall support for Warning lamp **FLASH**
CODE 12710260

Wall support for **SIGNAL BOX**
CODE 12710315



PILAR Aluminium column for photocells **SUNSET** 40 cm
CODE 12710205

PILAR PROX aluminium column for **READER PROX- ASTER** key switch
CODE 12710210

CPLATE100 Counter foundation plate for **PILAR 1m** CODE 16200170

CPLATE50 Counter foundation plate for **PILAR SUNSET 40**
CODE 16200171

Column for **FOTO 50**
CODE 16200010

Column for key switch **KEY**
CODE 16200020

Column for key switch **EUROKEY**
CODE 12710020

NOTE: The marked products can be bought with special formula QX1 and QX 2.

Systems of command

Key switches, Push button board



KEY START built in key switch
CODE 23103015
KEY START STOP Built in
Key switch
CODE 23103030



NEW

ASTER START-STOP
Key switch (for surface)
Crash-proof
CODE 23103065
COVER aluminium 23103070



EUROKEY Key switch
(for surface) with european cylinder
CODE 23103010

EUROKEY RF RF Key switch
(for surface) with european cylinder
wireless 433 MHz
CODE 23103025



CODE keypad
anti-forcing with decoder
(built in)
CODE 23105167

CODE RF KEYPAD
anti-forcing wireless
(built in)
CODE 23105166



DESK Push button board for table
(without lights)
CODE 23103040

DESK Y Built in push button board
CODE 23103045

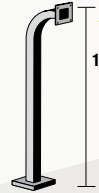


DECODER Additional decoder module
for CODE 23105100



NEW

PUSH
Metal keypad
From 100 to 1000 different users pin
Metal casing with metal keypad
Led signals 24V DC voltage
Dimensions: 12x8,3x3
CODE 23105198



NEW

POST
Column for push button board
PUSH
CODE 12710208

106 cm



SIGNAL BOX
(receiver)



READER
(proximity reader)



ASTER
(key switch)



NEW

TOUCH HELP
Push button for surface
CODE 23105360
Cover aluminium 23103070



SUNSET



SUNSET BAT



NEW

TOUCH HELP
Button for emergency
CODE 23105365
Cover aluminium 23103070

Note: The marked products can be bought with the special formula QX1 and QX 2.

Proximity readers



Complete with box IP55

MODELS

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

RADIODEC PROX 433 Mhz

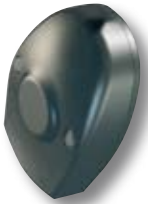
CODE 23105325

RADIODEC PROX 868 Mhz

CODE 23105330

Description

- KEY PROX, CARD PROX and SMART PROX administration
- 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 administrate 2 readers READER PROX



MODELS

Transponder Reader

Surface mounting
Fixable on PILAR PROX column

READER

CODE 23105320



MODELS

- Transponder key ring

KEY PROX

CODE 23105310 (10 pcs)

MODELS

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

CD-ROM



MODELS

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

SMART PROX

CODE 23110390 (10pcs)433Mhz

CODE 23110395 (10pcs)868Mhz

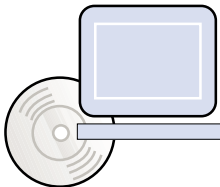


MODELS

- Transponder card

CARD PROX

CODE 23105315



Note:

The RADIODEC- can be sold only together with the READER



Note: The marked products can be bought with the special formula QX1 and QX 2.

REWRITABLE PROXIMITY READERS



MODELS

- Transponder Decoder/receiver and TX 433 500 users
- Transponder Decoder/receiver and TX 868 500 users



Complete with box IP55

RADIODEC RW 433 Mhz

CODE 23105370

RADIODEC RW 868 Mhz

CODE 23105375

Description

- Transponder KEY PROX, CARD PROX and SMART PROX admin.
- SMART and HEAD ROLL series transmitters administration
- Memory capacity: 500 users
- LED display for users administration
- 12Vdc or 24 Vdc power supply
- Relay output clean contact
- Possibility to administrate two READER PROX readers



READER RW (transponder)

MODELS

- Transponder reader
- Surface mounting
- Applicable on PILAR PROX column

READER RW

CODE 23105380

MODELS

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



SMART RW

CODE 23110600 (10 pcs) 433Mhz

CODE 23110605 (10 pcs) 868Mhz



MODELS

- Transponder key ring

KEY RW

CODE 23103028



MODELS

- Transponder card

CARD RW

CODE 23105316

Note:
The RADIODEC RW can be sold only together with the READER RW



SP 40 SOFTWARE

CODE 23105295

SP40 SOFTWARE

- LADYBIRD ROLL TRANSMITTERS programming and management
- RX ROLLING CODE programming and management
- Installer file management
- Installations file management

REMOTE CONTROL SYSTEMS



MODELS

- OPEN GPRS
- OPEN BLUETOOTH

OPEN GPRS

CODE 23105292

OPEN BLUETOOTH

CODE 23105291

Description

- Integrated antenna
- Two relay outputs clean contact
- Two opto-isolated digital inputs
- Possibility to command an output at "zero cost"
- Recognition of calls
- Output activation through SMS
- Output activation with DTMF / SMS tones call
- SMS after inputs/outputs activation
- Buffer battery management
- Capacity: 800 users (expandable)
- Management with SP40

Note: The marked products can be bought with the special formula QX1 and QX 2.

NO TOUCH

Solution for remote opening without pressing any button!



NO TOUCH RX

- 1.5m nominal detection range
- 125 KHz transmission frequency
- 12/24 ac/dc power supply
- LED indicator
- Button to program the channels and groups
- Wired cable
- Operating temperature from -20° C to + 55° C
- ABS plastic box
- Dimensions 87x78x15mm

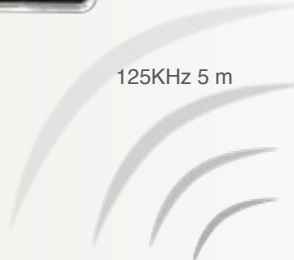
868MHz 100 m



NO TOUCH TAG

- 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
- Operating temperature from -20° C to + 55° C
- ABS plastic box
- Dimensions 65x55x10mm
- Vehicle support and clothing clip included

125KHz 5 m



NO TOUCH 5



The activator activates the tag at 5m distance which sends a signal to the receiver at a distance of 100m.

CODE	DESCRIPTION
23105385	NO TOUCH 5
23105390	NO TOUCH RX
23105395	NO TOUCH TAG

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

GENERAL ACCESSORIES



MODELS

- Additional power supply

POWER SUPPLY

CODE 23105010

Description

- 12 Vac, 24 Vac, 24 Vdc exit.
- Plug-in connector compatible with RX Signal or DECODER
- Power relay to control electric lock or max 500W charges



MODELS

- 24V control board batteries

KIT BAT7 Batteries (BOX+ n.2 Batteries 7Ah)

CODE 23106305

CHGS - ESUN

CHGS Batteries charger and control board for solar panel Mini Gate 24V (CORONA)

CODE 23101120

ESUN Batteries charger and control board for solar panel USER 2 24V ROLL

CODE 23101105



Description

- 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.



MODELS

Back up battery
- Star 500 with 7Ah battery
dimensions 34,5x35,4x13,5

STAR 500

CODE 23105052

Description

- Keeps the temperature of the hydraulic operator over 0°C
- Adjustable intervention temperature from -3°C to +3°C
- Temperature sensor with cable which must be applied in contact with the operator

MODELS

- Heater for hydraulic motors

THERMO

CODE 23105012



MODELS

- 1-Wall mounting plastic box for key
- 2-Wall mounting plastic box for Foto50
- 3-Metal box for Foto50/KEY
- 4-Wall mounting plastic box for GOST/KEY PLUS

CONTAINER

CODE 66300165

CODE 66300160

CODE 16200030

CODE 66301670



LOOP

- Magnetic loop reader
- Standard DIN attachment
- Oscillation frequency selection
- Sensitivity selection
- Relay output presence/impulse
- Power supply 24V dc

LOOP

CODE 23105161 LOOP



SUP

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

SUP

CODE 23105340 SUP



LOOP PLUG

CODE 23105159 LOOP Plug



LOOP MODULE

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

LOOP MODULE

CODE 23105013



PLATINUM CARD

CODE 67401600
5 years warranty



N.B: The marked products can be bought with the special formula QX1 and QX 2.

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 its 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.

In accomplishment with art. 1341 of the Italian Civil Law it will be approved expressly clauses under numbers:

4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LAW



SEA[®]

electronic opening system

SEA srl - ITALIA 64020 TERAMO Zona Industriale S. Atto
Tel. +39 0861 588341 r.a. Fax +39 0861 588344
seacom@seateam.com - www.seateam.com

SERVIZIO CLIENTI
840-000-440