

# CATALOGUE '09 AUTOMATIONS FOR HOUSE AND BUILDING

Gates Roller shutters Garages Industrial doors Roll-up doors Automatic doors Access control Barriers Rising bollards

EVERY DAY, FOR MORE THAN 25 YEARS,
WE AT BFT HAVE BEEN MAKING LIFE
FOR MILLIONS OF PEOPLE MORE COMFORTABLE AND MORE SECURE
IN MORE THAN ONE HUNDRED COUNTRIES WORLDWIDE.



# BFT. SMART AUTOMATION FOR MODERN LIVING

The quality of living grows every day thanks to innovative products which meet the increasing demands for simplicity, convenience and security.

BFT interprets these needs intelligently, studying and building a wide range of

technologically advanced and flexible products, capable of meeting any automation need in homes and buildings: gates, garages, shutters and doors. k



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BFT also offer car park management solutions.
Order the catalogue from us!



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### **ACCESSORIES**



Automatic gates, motorized overhead doors and, more generally speaking, all automated opening systems fall within the field of application of European Directives that govern the production and installation of finished products and components alike.

BFT put installers in a position whereby they can create a system in a professional manner to meet these standards. This we do by

manufacturing products boasting inimitable reliability and safety - as indeed we have been doing for over 25 years - which are constantly inspected and tested both by our own laboratories and by accredited certifying bodies.

The whole BFT range has been designed with painstaking care to assure ease of use and, at the same time, avoid putting people, pets or property at risk. Every single automated device undergoes

severe testing to ensure it is supremely functional and safe. Having a product that meets standards does not exempt the installer from certifying the system put together.

# ALWAYS AT YOUR SIDE



The intelligence of BFT solutions is not limited to the products. The service also makes the difference: BFT is always close to its customers with a capillary network of installers and professionals who operate throughout Italy and all over the world to resolve any technical or commercial question rapidly. Security that lasts and will

last with the passage of time: the quality of every one of our products is guaranteed by the exclusive BFT Warranty.



BFT protects its customers with an exclusive warranty valid for 30 months from the date of manufacture of the product. The return of a product covered by the terms of the warranty will result in its replacement with a newly manufactured equivalent product.

The calculation of the 30 months' warranty runs from the date of manufacture, shown on the product in the form of an impressed code or an applied adhesive label. Counterfeiting or deleting the date of manufacture voids the validity of the warranty.

To benefit from this special formula, the customer must accompany the returned goods with a transport document on which the following must obligatorily be indicated:

- the product code;
- -the detailed description of the product;
- -the quantity returned.

The warranty cannot be applied if:

- the failure has been caused by a system not installed in accordance with the instructions supplied by the company;
- components which are not original BFT parts have been used for installing the motorization:
- the failures are the result of tampering or improper repairs carried out by unauthorized personnel;
- the failures have been caused by improper or careless use:
- the causes of the failure are due to external agents such as: electrical discharges, tampering even accidental, impact even by accident, exposure to moisture or steam, use in extreme environmental or heat conditions, floods or other natural calamities.

The replacement of parts during the warranty period shall not give rise to an extension of the expiry date of the warranty itself. No compensation shall be payable for the period during which the faulty system is inactive.

BFT shall not be responsible for any damages, direct or indirect, caused to persons, things or pets by failure of the product, use for purposes not appropriate to its nature and/or its capacity, use over its capacity limit, and forced suspension in its use.

The rights expressly envisaged in the consumer's favour by the regulations governing the sale of consumer goods are not affected in any way by this warranty.

Effectiveness: these General Conditions of Sale replace the previous ones and are applicable to the orders for products bearing the BFT trademark or any other of its trademarks, addressed to BFT S.p.A. The following General Conditions of Sale govern all the sales by BFT to its customers, and constitute an integral part of the sales contract.

**Prices**: this new BFT price list cancels and replaces all previous price lists. The price list with the most recent month as the date on the cover shall be deemed to be the one in force. Prices are intended to exclude VAT but include packaging.

Payments: all payments must be made exclusively to BFT and made in accordance with the terms and procedures indicated in the invoice. Failure to pay in accordance with the agreed terms and procedures shall give rise, in favour of BFT S.p.A., of interest on arrears at the current bank rate increased by 3 points and shall entitle BFT to consider

itself released from all further delivery commitments.

**Ownership**: BFT is the owner of the goods sold until they have been paid for in full. The goods delivered are the full and exclusive property of BFT until their price has been paid in full. In the event of failure to pay, BFT shall be entitled to take immediate possession of the products sold wherever they are found even if they have been resold to third parties by the Customer in arrears. In this case, the Customer will be obliged to give notice of the names of the third-party purchasers of the products from whom BFT shall have the right to claim them back and resell them.

Transport: the material is shipped by the supplier carriage paid for orders in excess of ₱1,550 before tax or in the case of replacements under warranty. The material is shipped with the addition of transport costs in the case of orders of less than €1,550 or in the case of repairs and

replacements out of warranty.

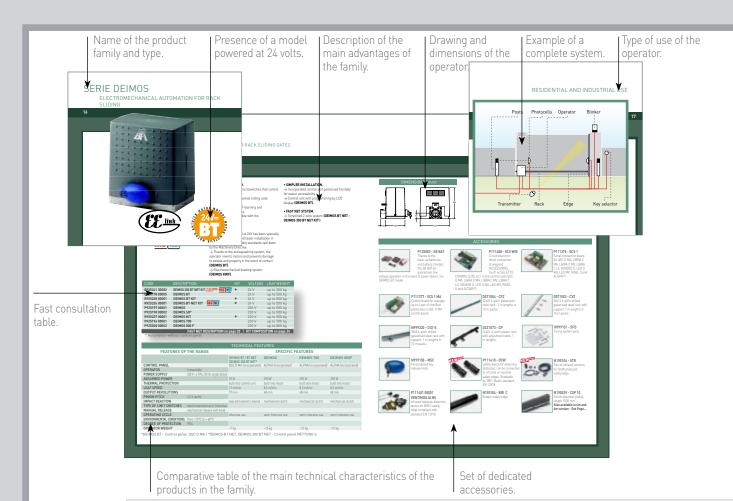
**Complaints**: at the moment of receipt of the goods it is necessary to check that the number of packs corresponds with the delivery note and inspect the state of the goods and packaging. In the case in which anomalies are noted, the associated complaints must be raised in written form by the purchaser and noted on the courier's delivery documentation at the moment of receipt of the goods themselves. A copy of this document must be sent by fax immediately to BFT within and no later than eight days from receipt of the goods, as must any complaints for other defects in the conformity of the goods not noticeable from the outward appearance of the packs. Products returned without prior agreement with BFT will be rejected in all cases. Furthermore, no claim can give any right to delays or suspensions of the terms of payments, which must in any case be made completely for all

the undisputed goods. All delays in payment shall give rise to the immediate and total forfeiture of the warranty.

Failure to transmit the complaints or disputes within the terms mentioned above, and/or the use of the product by the customer notwithstanding the discover of the defects, shall constitute unconditional acceptance of the product itself and waiver of any complaint or dispute with regard to the same.

Modifications: BFT reserves the right, at any moment, to make the technical changes it deems appropriate for the improvement of the products contained in this price list, with this giving the Customer the right to make any claim whatsoever

Competent court: It is agreed that Italian Law shall be applicable to any dispute arising out of this contract and that territorial competence shall lie exclusively with the Italian Judges of the Court of Vicenza.





**FASTNET. QUICK AND EASY INSTALLATIONS.** With Fast Net, installation becomes simple: • there are just two cables connecting all the peripheral devices to the control unit; • you are free to connect components at will (series, parallel, etc.); • the accessories installed are recognized automatically and you have the option of adding new ones at a later date;

• photocells are synchronized. The Fast Net bus system's non-polarized twisted pair cabling also means the connection order cannot get mixed up during installation. All devices contained in the Fast Net kits are configured to enable immediate installation.



**EELINK PROTOCOL. SMART MANAGEMENT.** EELINK is a special communication protocol that enables the BFT programming and diagnostics device - the Proxima handheld unit - to recognize and manage the operating parameters of control units, automated systems and transmitters. EELINK also allows you to create a backup copy of how the control unit's parameters and memorized remote controls are set up. BFT devices using the EELINK protocol can thus be programmed and monitored constantly.



### 24V. ACCURACY, SAFETY, RELIABILITY, FUNCTIONALITY.

24V. Accuracy, safety, reliability, functionality. Through their 24V technology, BFT can offer optimal performance: prompt adjustment of slow-down as the door or gate closes or opens: safe operation, by immediately stopping or reversing travel in the event any obstacle is electronically detected; reliability, delivering efficient operation even in heavy-duty situations. With a 24V power supply, any power outage can be detected automatically and the system switched to auxiliary battery power. This also means there are no risks of an electrical nature.



**ROLLING CODE. SECURE TRANSMISSION SYSTEM.** BFT transmitters use a rolling-code system, which manages commands entirely securely and prevents any kind of external breach. This means that every time a key on the transmitter is pressed, the resulting code sent to the control unit changes each time and is only identifiable by the receiver. The algorithm makes the code impossible to reproduce since each code is accepted by the receiver just once.



**DYNAMIC TRAVEL.** Intelligent torque management system based on the microprocessor technology used for BFT control panels. Use of the encoder means the minimum level of force required to perform the operation is instantly adopted, thus providing the utmost operating safety at all times and making the installation readily certifiable. Furthermore, the control units can detect small variations in the force of the gate or door, adjusting the torque supplied to the motor accordingly. All this translates into an unbeatably safe installation and a system that is guaranteed to work perfectly even as temperatures and the state of repair of the actual system vary!



### ER-READY

New code system based on microprocessor technology, enabling transmitters to be cloned directly. By taking any of the MITTO transmitters already memorized in the receiver, a clone can be created of it using a MITTO REPLAY transmitter. What the original actually does is "teach" the new transmitter the correct code so that it will automatically be memorized in the receiver the first time it is used.

1	FASTNET	FAST NET
2		AUTOMATIONS FOR RACK SLIDING GATES
3		ELECTROMECHANICAL AUTOMATIONS FOR SWING GATES
<b>4</b>		HYDRAULIC AUTOMATIONS FOR SWING GATES
5		ROLLER SHUTTER AUTOMATIONS
3		AUTOMATIONS FOR COUNTERWEIGHT AND SPRING-OPERATED OVERHEAD DOORS
7		AUTOMATIONS FOR ROLL-UP DOORS
8	(D)))	AUTOMATIONS FOR AUTOMATIC DOORS
9		AUTOMATIONS FOR FOLDING DOORS
10		AUTOMATIONS FOR INDUSTRIAL SECTIONAL DOORS
11		ACCESS CONTROL SYSTEM
12		AUTOMATIONS FOR ROAD BARRIERS
สค		

AUTOMATIONS FOR RISING BOLLARDS



EELINK is an exclusive programming system developed by BFT which, by means of connection to handheld programmers (Unipro, Uniradio and Proxima) makes it possible to transfer data from operators to PCs and vice versa. As a result, it is possible to keep a database (EEdbase) of the information memorized in the installed systems. The database also makes it possible to associate personal parameters with every system: name and surname of the proprietor,

address, telephone number, name of the maintenance engineer, name of the owner of the radio control device, etc., facilitating the management of customers and preventive maintenance, for example. Furthermore, potentially complex functions such as the reconfiguration of the control panel or of the radio receiver in the event of replacement, or the configuration of a control panel starting from a standard or customized configuration, become much simpler with

EElink as it is only necessary to press a few keys. Version 3 of EEdbase supports many functions for the Compass access control systems.

# Information managed by EElink for the control panels

- Operational parameters: work times, automatic closing time, phase displacement time, slowdown, torques, antisquashing sensitivity.
- Operating logic: 2/4 steps, pulse blocking on opening, photocell operation on opening, fast closure, prealarm, hold to run, photocell check.
- Operating statistics: number of manoeuvres, number of manoeuvres since the last maintenance, date of the last maintenance, identification

of the terminal that carried out the maintenance, name of the system and version of the software installed in the control panel.

- Self-diagnostic: in the state of rest, the control panel carries out a check of the state of all the inputs connected to it and, if any of them are in any state other than rest, this is communicated to the handheld programmer.
- Default configuration: EElink makes it possible to restore all the control panel configurations to the original factory default states with one single command.

### EElink for the radio receivers

- Receiver capacity: number of transmitters the receiver can memorize.
- Configuration of the outputs: monostable, bistable, timed.
- System code: makes it possible to create clones of the memorized radio control devices and manage installations comprising many receivers.
- List of the memorized transmitters, their position in the memory and association between the receiver's keys and outputs.

### Information managed by EElink for the radio transmitters

- Serial number of the transmitter.
- Second rolling code cipher key.
- System code (for clones)

Evolution never stops in BFT. Once again 2009 sees the design and realization of new systems, capable of meeting growing demands in terms of comfort and security.

2009 NEW PRODUCTS





ARGO Electromechanical automation for sectional industrial doors up to 20m².

See page 112



MICHELANGELO 40 Electromechanical barrier for entrance/exit points up to 4 m.

See page 122



DEIMOS 300 BT NET KIT
Automation, employing
FAST NET technology, for sliding
gates weighing up to 300 kg.

See page 20



T-BOX
Remote control digital pushbutton panel for exterior use, with backlit light-touch keypad.

See page 146



<u>DCW</u>
Safety device for detecting obstacles, can be connected to infrared or resistive safety edges.
Rotatable by 180°. Meets standard EN 12978.

See page 149



MITTO REPLAY
Two-channel /Four-channel rolling
code copiable transmitter 12V

See page 146



STOPPY H Electromechanical bollard with 700mm operator travel.

See page 132



VISTA SL New automatic door.

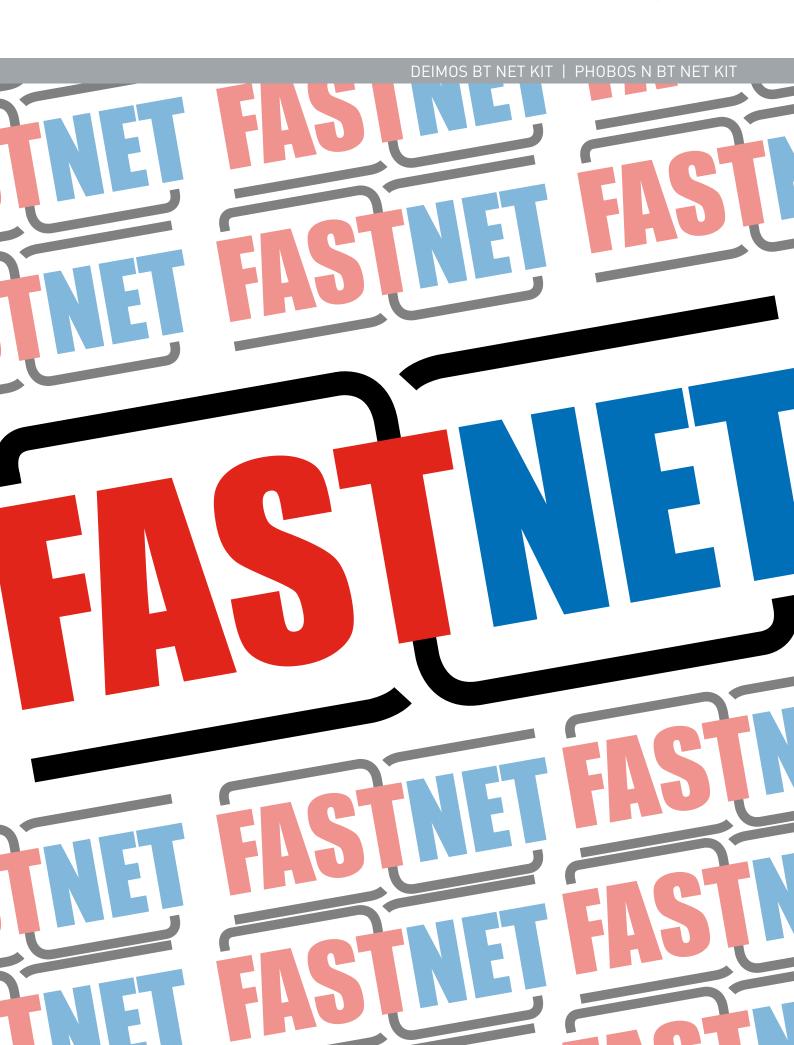
See page 90



 $\frac{\text{VISTA SEL}}{\text{Mode selector for VISTA SL}}.$ 

See page 93

Fast Net is a local network that makes it possible to connect one or more peripheral devices (slaves) powered by the connection line to any control unit (master). The network uses a nonpolarized pair on which the power for the proper operation of the node is transferred to the local node itself. Furthermore, a bidirectional communication signal passes on the network and the various connected devices exchange information with the control panel.



### DEIMOS BT NET KIT - PHOBOS N BT NET KIT

**FAST NFT** 



CODE	DESCRIPTION	KIT	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	PALLETS Q.TY
ELECTROMECHAI	NICAL AUTOMATION FOR RACK SL	IDING G	ATES - RESIDENTIAL	USE		
R925241 00002	DEIMOS 300 BT NET KIT NEW	09	24 V	up to 300 kg	-	27
R925236 00001	DEIMOS BT NET KIT		24 V	up to 500 kg	-	27
ELECTROMECHANICAL OPERATOR FOR SWING GATES - RESIDENTIAL USE						
R935249 00002	PHOBOS N BT NET KIT		24 V	up to 250 kg	up to 1,8 m	16

### • SMART TECHNOLOGY.

- → The unpolarized wire pair prevents connection order errors during installation.
- ightarrow Open system: automatic recognition of the accessories installed and possibility of adding more accessories later.
- ightarrow Exclusive BFT proprietary communications protocol protected by international patent.

### • SAFE USE.

- $\rightarrow$  The devices monitored by the bus protocol are continually checked over time.
- $\rightarrow$  The photocells are synchronized.

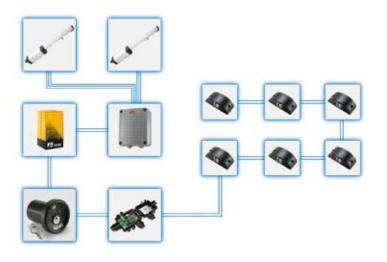
### • SIMPLER INSTALLATION.

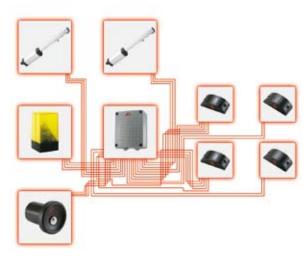
- $\rightarrow$  All the peripheral devices are connected to the control unit by just two wires.
- ightarrow All the devices contained in the same kit are confi- gured in such a way as to allow immediate installation.
- $\rightarrow$  The components can be connected freely: in series, parallel, etc.

- solid state blinker with integrated antenna
- receiver with possibility of installation in the blinker or in the control unit
- synchronized photocells for the possibility of installing several pairs close to each other.
- preprogrammed kits with no need for configuration for connecting the accessories contained in the kit.
- the first additional accessory for every category of accessories, is already configured and therefore connectable directly to the bus without any address configuration.

Technical specifications: number of devices connectable:

- up to 2 receivers
- up to 4 blinkers
- up to 4 control buttons per type (4 start, 4 pedestrian)
- up to 4 key selector switches









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### **DEIMOS BT NET KIT**

DEIMOS BT NET KIT comprises:

- n°1 DEIMOS BT NET, operator with incorporated NETTUNO S control board and rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of FL NET photocells
- n°1 SC NET key selector
- n.1 LAMP NET blinker with extractable self-learning FAST-NET receiver for MITTO series rolling code transmitters.

### **DEIMOS 300 BT NET KIT**

DEIMOS 300 BT NET KIT comprises:

- n°1 DEIMOS 300 BT NET, operator with incorporated NETTUNO S control board and rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of FL NET photocells
- n°1 SC NET key selector
- n.1 LAMP NET blinker with extractable self-learning FAST-NET receiver for MITTO series rolling code transmitters.

### **PHOBOS N BT NET Kit**

PHOBOS N BT NET KIT comprises:

- n°2 PH0B0S N BT NET operators
- n°1 NETTUNO B, control board
- n°1 MITTO 2 12Vdouble-channel rolling-code transmitter
- n.1 pair of FL NET photocells
- n.1 SC NET, key selector
- n.1 LAMP NET blinker with extractable self-learning FAST-NET receiver for MITTO series rolling code transmitters.



### **NETTUNO B**

- Control panel for one or 2 24V motors of the Phobos BT Net series.
- Easy wiring thanks to the BUS system. Only 2

wires to connect up to 16 peripherals. • Safety thanks to the electronic anti-squashing control with amperometric detection and continuous dialogue with peripherals. • Complete with two-channel receiver incorporated or positioned on the blinker, with optional back-up batteries • Total control of programming by digital display and three simple buttons. • Easy setting by means of the AUTOSET function for automatic setting of the functional parameter and auto-recognition of the accessories connected.

### **ACCESSORIES**



### P125002 - SB BAT

Thanks to the back-up batteries and battery charger, the SB BAT kit guarantees low voltage operation in the event of power failure. For DEIMOS BT model.



### P125005 - BT BAT

Thanks to the back-up batteries and battery charger, the BT BAT kit guarantees low voltage operation of the leaf in the event of power failure (LIBRA C MA, HYDRA R).



N999389 00001 FAST WIRE

Connecting cable for FAST NET system. Available in 100 m roll.



P121015 00001 - SW NET

Connecting interface to the FAST NET network for traditional push-buttons.



D111750 - MITTO 2 12V

Two-channel transmitter, 12 V, with rolling code.



P111382 - FL NET

Pair of FL NET photocells



D113696 00003 - LAMP NET

Lamp Net blinker with extractable self-learning FAST-NET receiver for MITTO series rolling code transmitters.



P121014 - SC NET Key switch SC NET.



P121019 - T-B0X

Remote control digital pushbutton panel for exterior use, with backlit light-touch keypad.



P121016 - RB

Four channels wall radio control with rolling code.



BFT proposes kits for the automation of sliding gates, swing gates and overhead doors in order to permit straightforward guided installation. Every kit not only includes the automation system but also all the accessories required for creating a complete system. DEIMOS KIT | DEIMOS BT KIT | VIRGO KIT | IGEA BT KIT | PHOBOS N KIT | PHOBOS N BT KIT | PHOBOS BT L KIT | ORO KIT











### **DEIMOS KIT R925227 00001**

The DEIMOS KIT is used to automate sliding gates weighing up to 500 kg for residential

### DEIMOS KIT comprises:

- n°1 DEIMOS SR, operator with incorporated control board and rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker with 230 V antenna

### **DEIMOS BT KIT R925228 00001**

DEIMOS BT KIT is used to automate sliding gates weighing up to 500 kg for residential

### DEIMOS BT KIT comprises:

- n°1 DEIMOS BT, operator with incorporated control board and rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 bliker 24 V with antenna

### VIRGO KIT R930130 00002

Is used to automate swing gates with the leaf length up to 2 m, and weight up to 200 kg, residential use.

### VIRGO KIT comprises:

- n°1 VIRGO, operator with incorporated control board and rolling-code receiver
- n°1 VIRGO SQ, (VIRGO without control unit)
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker 24 V with antenna



### PHOBOS BT L KIT R935243 00002

The PHOBOS BT L KIT is used to automate swing gates with leaf length up to 5 m and weight up to 250 kg, for residential use.

### PHOBOS BT L KIT comprises:

- n°2 PHOBOS BT L operators
- n°1 LIBRA C MA, control panel with incorporated rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker 24 V with antenna



### ORO KIT R935222 00002

The ORO KIT is used to automate swing gates with leaf length up to 1,80 m and weight up to 180 kg, for residential use.

### ORO KIT comprises:

- n°2 ORO hydraulic operators
- n°1 ALCOR N, control panel
- n°1 MITTO 2 12V double-channel rollingcode transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker 230 V with antenna





### PHEBE KIT R915126 00002

The PHEBE KIT is used to automate of counterweight overhead doors for residential use.

### PHEBE KIT comprises:

- n°1 PHEBE operator with incorporated control board and rolling-code receiver
- n°1 set of telescopic arms CBA
- n°1 wall support
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 blinker 24 V with antenna



### IGEA BT KIT R935229 00001

Is used to automate swing gates with the leaf length up to 2,5 m, and weight up to 200 kg, residential use.

### IGEA BT KIT comprises:

- n°2 IGEA BT, operators
- n°1 LIBRA C MA, control panel with incorporated rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker 24 V with antenna



### PHOBOS N KIT R935248 00002

The PHOBOS KIT is used to automate swing gates with leaf length up to 1,80 m and weight up to 250 kg, for residential use.

### PHOBOS N KIT comprises:

- n°2 PH0B0S N operators
- n°1 LIBRA C MA, control panel with incorporated rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker 230 V with antenna



### PHOBOS N BT KIT R935247 00002

The PHOBOS KIT is used to automate swing gates with leaf length up to 1,80 m and weight up to 250 kg, for residential use.

### PHOBOS N BT KIT comprises:

- n°2 PH0B0S N BT operators
- n°1 LIBRA C MA, control panel with incorporated rolling-code receiver
- n°1 MITTO 2 12V double-channel rolling-code transmitter
- n°1 pair of CELLULA 130 photocells
- n°1 INTRO key selector
- n°1 blinker 24 V with antenna

### KIT CONTENTS



**D113703 00002 ALTAIR P**See page 140



**D113672 00005 LIBRA C MA** See page 141



D113706 00002 - ALCOR N

See page 140



**D111750 - MITTO 2 12 V** Two-channel transmitter, 12 V, with rolling code.



P111273 - CELLULA 130 Flat self-aligning photocell receiver/transmitter pair for external application, range up to 30 m with 24 Vac/dc power supply.



**P121011 - INTRO**Key switch for exteriors.
Flush and column version.



D113719 00002 RAY X 230V Blinker powered at 230Vac with integrated antenna.



D113719 00003 RAY X 24V Blinker powered at 24Vac with integrated antenna.



**P123023 - RWS**Ray blinker support for wall applications.



N7331120 - CBA

Set of telescopic arms for 1 overhead door, including side drive elements.



Designed to measure, BFT operators for sliding gates work in any weather conditions. Tested for their entire life cycle, extremely practical and designed to permit simple and immediate maintenance, they guarantee the maximum reliability even with continuous service.

# SOLUTIONS FOR THE AUTOMATION OF SLIDING GATES



### <u>LEGEND</u>

SEMI INTENSIVE USE

INTENSIVE USE

VERY INTENSIVE USE





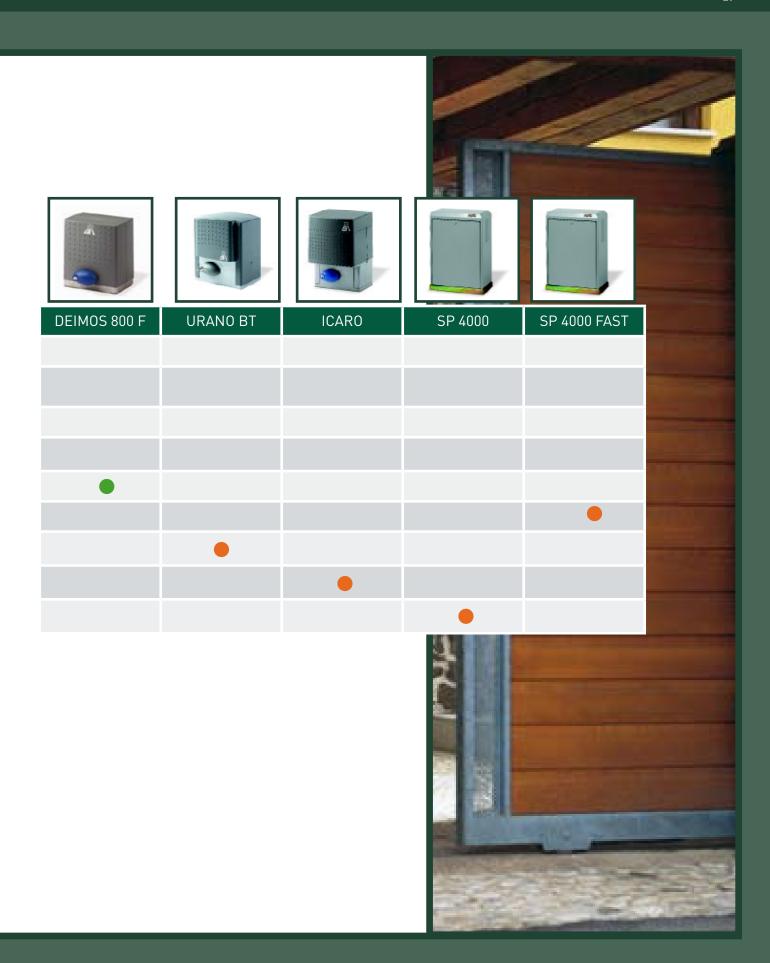




PESO MAX	DEIMOS 300 BT NET	DEIMOS	DEIMOS BT	DEIMOS 700
300 kg				
500 kg				
700 kg				
800 kg				
100 kg				
1200 kg				
2000 kg				
4000 kg				
AVAILABLE IN KIT	DEIMOS 300	DEIMOS KIT	DEIMOS BT KIT	

BT NET KIT





### **DEIMOS SERIES**

### ELECTROMECHANICAL AUTOMATION FOR RACK SLIDING GATES

30



### • SMART TECHNOLOGY.

- → Electromechanical microswitches that control the end stroke.
- → Incorporated two-channel rolling code radio receiver.
- → Control unit with self-learning and self-diagnostic functions.
- $\rightarrow$  Control unit compatible with the EElink protocol.

### • SAFE USE.

- → The version powered at 24V has been specially designed for simpler and faster installation in compliance with the safety standards laid down by the Machinery Directive.
- → Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact **(DEIMOS BT)**.
- → Electromechanical braking system **(DEIMOS 800F)**.

### • SIMPLER INSTALLATION.

- $\rightarrow$  Incorporated control unit positioned frontally for easier accessibility.
- $\rightarrow$  Control unit with programming by LCD display **(DEIMOS BT).**

### • FAST NET SYSTEM.

ightarrow Simplified 2-wire system (DEIMOS BT NET - DEIMOS 300 BT NET KIT )

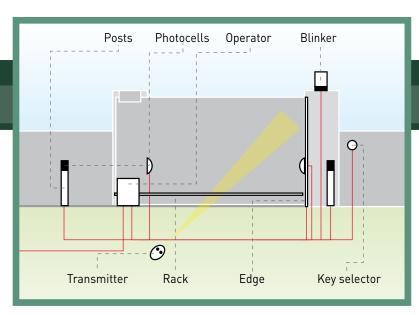
CODE	DESCRIPTION	KIT	VOLTAGE	LEAF WEIGHT	Q.TY PER PALLET
R925241 00002	DEIMOS 300 BT NET KIT NEW FASTNET	•	24 V	up to 300 kg	27
P925178 00005	DEIMOS BT		24 V	up to 500 kg	36
R925228 00001	DEIMOS BT KIT	•	24 V	up to 500 kg	27
R925236 00001	DEIMOS BT NET KIT FASTNET	•	24 V	up to 500 kg	27
P925197 00001	DEIMOS		230 V	up to 500 kg	36
P925198 00002	DEIMOS SQ*		230 V	up to 500 kg	36
R925227 00001	DEIMOS KIT	•	230 V	up to 500 kg	27
P925196 00001	DEIMOS 700		230 V	up to 700 kg	36
P925200 00002	DEIMOS 800 F		230 V	up to 800 kg	36
	EAG	TNETD	ESCRIPTION o	n nage 20   KIT Co	OMPOSITION on page 24

<sup>\*</sup> Automation without control panel

	TECHNICAL FEATURES						
FEATURES OF	THE RANGE		SPECIFIC FE	ATURES			
		DEIMOS BT / BT NET DEIMOS 300 BT NET*	DEIMOS	DEIMOS 700	DEIMOS 800F		
CONTROL PANEL		QSC D MA (incorporated)	ALPHA (incorporated)	ALPHA (incorporated)	ALPHA (incorporated)		
OPERATOR	irreversible						
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase						
ABSORBED POWER		70 W	290 W	290 W	290 W		
THERMAL PROTECTION		built into control unit	built into motor	built into motor	built into motor		
LEAF SPEED		12 m/min	8,5 m/min	8,5 m/min	8,5 m/min		
OUTPUT REVOLUTIONS		79 min	48 min	48 min	48 min		
PINION PITCH	4 (14 teeth)						
IMPACT REACTION		stops and movement is reversed	mechanical clutch	mechanical clutch	mechanical clutch		
TYPE OF LIMIT SWITCHES	electromechanical or inductive						
MANUAL RELEASE	mechanical release with knob						
OPERATING CYCLE		intensive use	semi intensive use	semi intensive use	semi intensive use		
<b>ENVIRONMENTAL CONDITIONS</b>	from -15°C to + 60°C						
DEGREE OF PROTECTION	IP24						
OPERATOR WEIGHT		~7 kg	~15 kg	~15 kg	~15 kg		

<sup>\*</sup>DEIMOS BT - Control panel QSC D MA | \*DEIMOS BT NET, DEIMOS 300 BT NET - Control panel NETTUNO S

# DIMENSIONS (mm)



### **ACCESSORIES**



### P125002 - SB BAT

Thanks to the back-up batteries and battery charger, the SB BAT kit guarantees low voltage operation in the event of

power failure. For DEIMOS BT model.



### P111408 - SCS WIE

Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units

QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



### P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



### P111377 - SCS 1 MA

Control board for manage up to 4 pair of checked photocells in QSC D MA control board.



### D571054 - CFZ

22x22 4-pitch galvanised steel rack. 2 m lengths in 10 m packs.



### D571053 - CVZ

30x12 4-pitch drilled galvanised steel rack with support. 1 m lengths in 10 m packs.



N999320 - CVZ-S

30x8 4-pitch drilled galvanised steel rack with support. 1 m lengths in 10 m packs.



D221073 - CP

22x22 4-pitch plastic rack with adjustment slots. 1 m lengths.



N999151 - SFD

Fixing system pack.



N999158 - MSC

Personalised key release knob.



### P111410 - DCW

Safety device for detecting obstacles, can be connected to infrared or resistive safety edges. Rotatable by 180°. Meets standard EN 12978.



N190106 - STR

Pair of infrared sensors, for DCW photocell safety edge.



P111401 00001 VENTIMIGLIA NS

Infrared obstacle detection device for BIR C safety edge compliant with standard EN 12978.



N190104 - BIR C Rubber safety edge.



N190039 - CSP 10

Shock absorber profile, length 1m.

Also available in 2m and 2,5m version - See Page 151

### ELECTROMECHANICAL AUTOMATION FOR RACK SLIDING GATES

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### • SMART TECHNOLOGY.

- $\rightarrow$  Electromechanical microswitches (inductive in the PROX version) that control the end stroke.
- → Incorporated two-channel rolling code radio receiver.
- $\rightarrow$  Control unit with self-learning and self-diagnostic functions.
- $\rightarrow$  Control unit compatible with the EElink protocol.

### • SAFE USE.

→ Specially designed for simpler and faster installation in compliance with the safety standards laid down by the Machinery Directive.

→ Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact.

### • SIMPLER INSTALLATION.

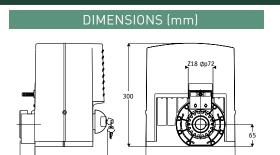
- $\rightarrow$  Incorporated control unit positioned frontally for easier accessibility.
- $\rightarrow$  Control unit with programming by LCD display.

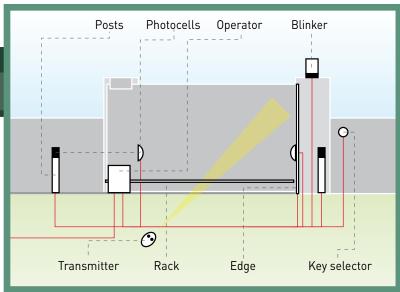
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	Q.TY PER PALLET
P926180 00001	URANO BT	24 V	up to 1200 kg	24

TECHNICAL FEATURES					
	URANO BT				
CONTROL PANEL	QSC D MA (incorporated)				
OPERATOR	irreversible				
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase				
ABSORBED POWER	80 W				
THERMAL PROTECTION	built into control unit				
LEAF SPEED	9 m/min				
OUTPUT REVOLUTIONS	39 min				
PINION PITCH	4 (18 teeth)				
IMPACT REACTION	stops and movement is reversed				
TYPE OF LIMIT SWITCHES	electromechanical or inductive				
MANUAL RELEASE	mechanical release with knob				
OPERATING CYCLE	very intensive use				
ENVIRONMENTAL CONDITIONS	from -15°C to + 60°C				
DEGREE OF PROTECTION	IP24				
OPERATOR WEIGHT	~20 kg				

### APARTMENT-BLOCK AND INDUSTRIAL USE







### ACCESSORIES



### P125009 - BT BAT2

The BT BAT 2 device ensures, through its back up batteries and battery charger, low-voltage operations when there is no power supply (URANO BT).



### P111408 - SCS WIE

Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units

QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



### P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



### P111377 - SCS 1 MA

Control board for manage up to 4 pair of checked photocells in QSC D MA control board.



### D571054 - CFZ

22x22 4-pitch galvanised steel rack. 2 m lengths in 10 m packs.



### D571053 - CVZ

30x12 4-pitch drilled galvanised steel rack with support. 1 m lengths in 10 m packs.



### N999320 - CVZ-S

30x8 4-pitch drilled galvanised steel rack with support. 1 m lengths in 10 m packs.



### D221073 - CP

22x22 4-pitch plastic rack with adjustment slots. 1 m lengths.



N999156 - SFI

Fixing system pack.



### D531548 - KI

Release key blank for ICARO, URANO BT, IGEA, IGEA BT.



### P111410 - DCW

Safety device for detecting obstacles, can be connected to infrared or resistive safety edges. Rotatable by 180°. Meets standard EN 12978.



### N190106 - STR

Pair of infrared sensors, for DCW photocell safety edge.



### P111401 00001 VENTIMIGLIA NS

Infrared obstacle detection device for BIR C safety edge compliant with standard EN 12978.



### N190039 - CSP 10

Shock absorber profile, length 1m.

Also available in 2m and 2,5m version See Page 151



N190104 - BIR C Rubber safety edge.

### ELECTROMECHANICAL AUTOMATION FOR RACK SLIDING GATES

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- ightarrow Incorporated two-channel rolling code radio receiver ready for connecting a second receiver.
- → Control unit with self-learning and self-diagnostic functions of the parameters: brake, torque, antisquashing.
- $\rightarrow$  Control unit compatible with the EElink protocol.

### • SAFE USE.

 $\rightarrow$  Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact.

### • SIMPLER INSTALLATION.

- $\rightarrow$  Incorporated control unit positioned frontally for easier accessibility.
- $\rightarrow$  Control unit with programming by LCD display.

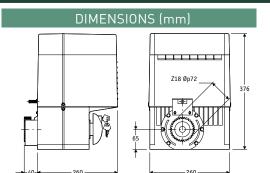


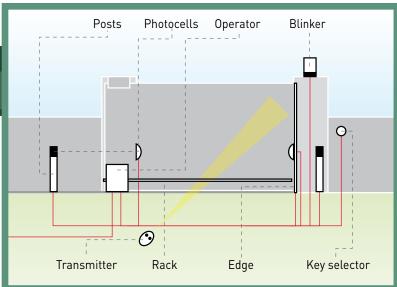


CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	Q.TY PER PALLET
P925180 00006	ICARO MA	230 V	up to 2000 Kg	16

TECHNICAL FEATURES						
	ICARO MA					
CONTROL PANEL	LEO D MA (incorporated)					
OPERATOR	irreversible					
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase					
ABSORBED POWER	750 W					
THERMAL PROTECTION	built into motor					
LEAF SPEED	9 m/min					
OUTPUT REVOLUTIONS	37 min					
PINION PITCH	4 (18 teeth)					
IMPACT REACTION	Stop and reverse on encountering obstacle with dynamic torque control curve					
TYPE OF LIMIT SWITCHES	electromechanical or inductive					
MANUAL RELEASE	mechanical release with knob					
OPERATING CYCLE	very intensive use					
ENVIRONMENTAL CONDITIONS	from -15°C to + 60°C					
DEGREE OF PROTECTION	IP24					
OPERATOR WEIGHT	~25 kg					

2





### ACCESSORIES



P111408 - SCS WIE

Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM,

etc) to the control units QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA. LIBRA C MV. LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D571054 - CFZ

22x22 4-pitch galvanised steel rack. 2 m lengths in 10 m packs.



D571053 - CVZ

30x12 4-pitch drilled galvanised steel rack with support. 1 m lengths in 10 m packs.



N999320 - CVZ-S

30x8 4-pitch drilled galvanised steel rack with support. 1 m lengths in 10 m packs.



N999156 - SFI

Fixing system pack.



D531548 - KI

Release key blank for ICARO, URANO BT, IGEA, IGEA BT.



P111410 - DCW

Safety device for detecting obstacles, can be connected to infrared or resistive safety edges. Rotatable by 180°. Meets standard EN 12978.



N190106 - STR

Pair of infrared sensors, for DCW photocell safety edge.



P111401 00001 **VENTIMIGLIA NS** 

Infrared obstacle detection device for BIR C safety edge compliant with standard EN 12978.



N190104 - BIR C

Rubber safety edge.



N190039 - CSP 10

Shock absorber profile, length 1m.

Also available in 2m and 2,5m version See Page 151



### • SMART TECHNOLOGY.

 $\xrightarrow{}$  Hydrodynamic joint for smooth gate starts and stops.

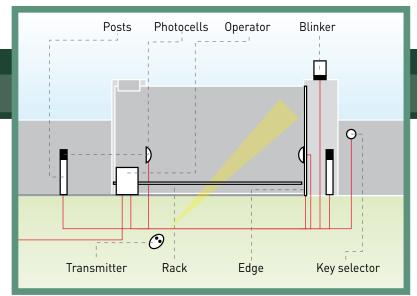
### • SAFE USE.

- ightarrow The strength and compactness of the structure guarantee the maximum reliability of operation over time.
- $\stackrel{\cdot}{ o}$  The operator makes it possible to automate any type of gate, even the heaviest.

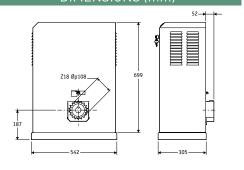
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	Q.TY PER PALLET
P925169 00001	SP4000	230/400 V three-phase	up to 4000 Kg	3
P925169 00003	SP4000 FAST	230/400 V three-phase	up to 1000 Kg	3

TECHNICAL FEATURES							
FEATURES OF	THE RANGE	SPECIFIC FEA	TURES				
		SP4000	SP4000FAST				
CONTROL PANEL	SIRIO TEL (incorporated)						
OPERATOR	irreversible						
POWER SUPPLY	230/400 V~ ± 10%, 50 Hz three-phase						
ABSORBED POWER	1500 W						
THERMAL PROTECTION	built into control unit						
LEAF SPEED		10 m/min	20 m/min				
OUTPUT REVOLUTIONS		30 min	60 min				
PINION PITCH	6 (18 teeth)						
TYPE OF LIMIT SWITCHES	electromechanical						
MANUAL RELEASE	mechanical release with knob						
OPERATING CYCLE	very intensive use						
<b>ENVIRONMENTAL CONDITIONS</b>	from -15°C to + 60°C						
DEGREE OF PROTECTION	IP 24						
OPERATOR WEIGHT	~85 kg						

## INDUSTRIAL USE



#### DIMENSIONS (mm)



#### **ACCESSORIES**



**D571491 - CFZ6** 30x30 6-pitch rack. 2 m lengths..



P125001 - BASP Adjustable anchoring base.



P111450 00002 - BAR C 2 Bord en caoutchouc double profil. Length 2m Also available in 4m and 6m version - See Page 150



P111401 00001
VENTIMIGLIA NS
Infrared obstacle detection
device for BIR C safety edge
compliant with standard
EN 12978.



N190104 - BIR C Rubber safety edge.



N190039 - CSP 10 Shock absorber profile, length 1m. Also available in 2m and 2,5m version See Page 151



Easy to install, BFT operators for swing gates ensure the maximum safety and ease of use. Their high versatility of use also makes them perfect in prestigious architectural contexts. Moreover, all the maintenance operations are particularly simple, fast and intuitive.

# ELECTROMECHANICAL SOLUTIONS FOR THE AUTOMATION OF SWING GATES



## ELECTROMECHANICAL SWING GATES

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## UNDERGROUND SWING GATES







LEAF LENGTH	LEAF WEIGHT	ELI 250 V	ELI 250	ELI 250 BT
2 m	150 kg			
2,5 m	300 kg		without electric lock	
2,3 111	400 kg			without electric lock
3,5 m	300 kg		with electric lock	
	400 kg			with electric lock

## ARTICULATED ARM SWING GATES

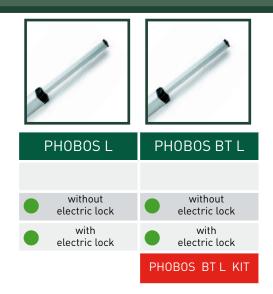


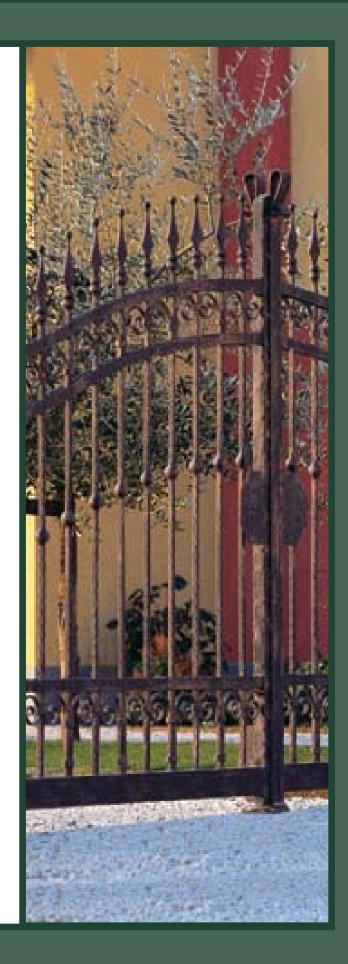






LEAF LENGTH	LEAF WEIGHT	E 5	VIRG0	IGEA	IGEA BT
1,8 m	200 kg				
2 m	200 kg				
2,5 m	250 kg				
KIT			VIRGO KIT		





### PHOBOS SERIES

#### ELECTROMECHANICAL OPERATOR FOR SWING GATES

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#### • SMART TECHNOLOGY.

- $\rightarrow$  Magnetic limit switches and release, efficient even at low temperatures (**PHOBOS N and PHOBOS N BT**).
- $\rightarrow$  Only 18 seconds for 90° opening (**PHOBOS N** and **PHOBOS N BT**)
- $\rightarrow$  Control unit compatible with the EElink protocol.

#### • SAFE USE.

→ The version powered at 24V has been specially designed for simpler and faster installation in compliance with the safety standards laid down by the Machinery Directive.



→ Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact (PHOBOS N BT, PHOBOS N BT NET, PHOBOS L BT, PHOBOS NL BT).

#### • SIMPLER INSTALLATION.

→ BFT's system of coded limit switches makes it possible to reduce the complexity of wiring the low-voltage motors: a single wire is carried to the control panel instead of the three normally required, thereby increasing the simplicity and speed of installation. Furthermore, the system is able

to automatically distinguish between the open limit switch and the closed one and hence prevent wasted time and wiring errors.

The operator is supplied without cable to reduce the installation times (PHOBOS N and PHOBOS N BT)

### • FAST NET SYSTEM. FASTNET

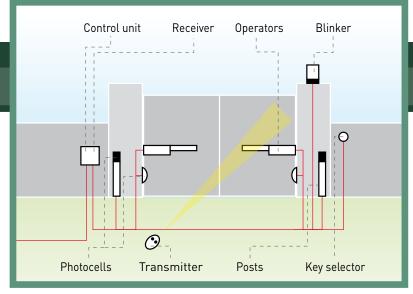
 $\rightarrow$  Simplified 2-wire system (**PHOBOS N BT NET**)

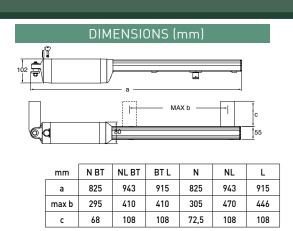
CODE	DESCRIPTION	KIT	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P935066 00004	PHOBOS N BT		24 V	up to 250 kg	up to 1,80 m	48
R935247 00002	PHOBOS N BT KIT	•	24 V	up to 250 kg	up to 1,80 m	16
R935249 00002	PHOBOS N BT NET KIT FASTNET		24 V	up to 250 kg	up to 1,80 m	16
P935074 00003	PHOBOS N L BT		24 V	up to 250 kg	up to 5 m (with electric lo	ock)* 48
R935243 00002	PHOBOS BT L KIT **		24 V	up to 250 kg	up to 5 m (with electric lo	ock)* <b>16</b>
P935067 00004	PHOBOS N	•	230 V	up to 250 kg	up to 1,80 m	48
R935248 00002	PHOBOS N KIT		230 V	up to 250 kg	up to 1,80 m	16
P935073 00003	PHOBOS N L		230 V	up to 250 kg	up to 5 m (with electric lo	ock)* 48
P935073 00002	PH0B0S L "		230 V	up to 250 kg	up to 5 m (with electric lo	ock)* <b>24</b>
				FAST NET DESCR	IPTION on page 20   K	T COMPOSITION on page 24

<sup>\*\*</sup> Available while stock last | \* 3 m (without electric lock)

TECHNICAL FEATURES								
FEATUR	ES OF THE RAI	NGE		SPECIFIC FEATURES				
		* PHOBOS N BT PHOBOS N BT NE	PHOBOS NL BT	PHOBOS BT L	PHOBOS N	PHOBOS NL	PHOBOS L	
CONTROL PANEL		LIBRA C MA/ NETTUNO B	LIBRA C MA	LIBRA C MA	ALTAIR P (suggested)	ALTAIR P (suggested)	ALTAIR P (suggested)	
OPERATOR	irreversible							
POWER SUPPLY		24 Vdc	24 Vdc	24 Vdc	230 V~ ± 10%, 50 Hz single-phase	230 V~ ± 10%, 50 Hz single-phase	230 V~ ± 10%, 50 Hz single-phase	
ABSORBED POWER		40 W	40 W	40 W	210 W	210 W	210 W	
THERMAL PROTECTI	ON	built into control unit	built into control unit	built into control unit	built into motor	built into motor	built into motor	
ROD WORKING STRO	KE	305 mm	410 mm	410 mm	305 mm	470 mm	470 mm	
ROD SPEED		20 mm/s	20 mm/s	14 mm/s	20 mm/s	20 mm/sec	13 mm/sec	
OPENING OR CLOSIN	G TIME	15 s	18s	26s	15 s	18s	22s	
IMPACT REACTION		stops and movement is reversed	stops and movement is reversed	stops and movement is reversed	torque limiter on control unit	torque limiter on control unit	torque limiter on control unit	
TYPE OF LOCK	mechanical on opening/closing							
MANUAL RELEASE	release key CLS							
OPERATING CYCLE		intensive use	intensive use	intensive use	semi intensive use	semi intensive use	semi intensive use	
ENVIRONMENTAL CO	INDITIONS	from -20°C to + 50°C	from -10°C to + 50°C	from -10°C to + 50°C	from -20°C to + 50°C	from -10°C to + 50°C	from -10°C to + 50°C	
DEGREE OF PROTECTION	IPX4							
OPERATOR WEIGHT		~5 kg	~5 kg	~5 kg	~5 kg	~7,7 kg	~7,7 kg	
*PHOBOS N BT - Ur	nità di controllo I	LIBRA C MA   PHO	BOS N BT NET-	Unità di controllo	NETTUNO B			







#### ACCESSORIES



D113672 00005 LIBRA C MA See page 141



D113703 00002 **ALTAIR P** See page 140



P125005 - BT BAT Thanks to the back-up batteries and battery charger, the BT BAT kit guarantees low voltage operation of the leaf in the

event of power failure (LIBRA C MA, LIBRA C LX, HYDRA R.



P111408 - SCS WIE Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units

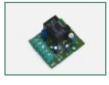
QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1 Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D111013 - ME 12 Vac electric lock board.



D111761 - ME BT 12/24 Vac electric lock board for BT operators.



P123001 00001 - EBP 230 Vac electric lock with zero stop resistance. Also





D121017 - ECB LEFT

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



N733286 - SFR

Adjustable back fixing bracket for PHOBOS N/ PHOBOS N BT.



N733347 - SFR L

Adjustable back fixing bracket for PHOBOS L/ PHOBOS BT L. PHOBOS NL/PHOBOS NL BT.



N999405 - CABLE N

Power supply cable for PHOBOS N / PHOBOS NL. Rolls of 100 m.



N999404 - CABLE N BT

Power supply cable for PHOBOS N BT / PHOBOS NL BT. Rolls of 100 m.



D730567 - PPE

Anchor plate used to weld PHOBOS model brackets



D610180 - CLS

Release key for LUX B, ORO, SUB, PHOBOS N and PHOBOS N BT models (10piece pack).

#### ELECTROMECHANICAL OPERATOR FOR SWING GATES

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#### • A MODEL FOR EVERY NEED.

 $\rightarrow$  Great versatility thanks to the levers that also permit installation on pillars of big dimensions and opening up to 120°.

#### • SMART TECHNOLOGY.

- ightarrow Incorporated mechanical stops and adjustable electric limit switches.
- → Separate programming of the two motors.
- $\rightarrow$  Control unit with self-learning and self-diagnostic functions.
- $\rightarrow$  If the motor with the control unit is on the side opposite the one the wires arrive at, the "motor logic inversion" functions makes it possible to avoid further wiring.
- $\rightarrow$  Control unit compatible with the EElink protocol.

#### • SAFE USE.

- → Specially designed for simpler and faster installation in compliance with the safety standards laid down by the Machinery Directive.
- → Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact.

#### • SIMPLER INSTALLATION.

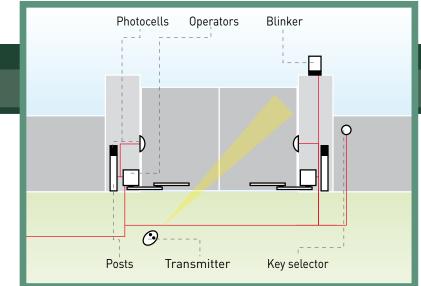
- $\xrightarrow{}$  Incorporated control unit positioned frontally for easier accessibility.
- $\rightarrow$  Control unit with programming by LCD display.
- → Ease of fixing to the pillar without welding.

CODE	DESCRIPTION	KIT	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P930116 00002	VIRG0		24 V	up to 200 kg	up to 2 m	18
P930117 00002	VIRGO SQ*		24 V	up to 200 kg	up to 2 m	18
R930130 00002	VIRGO KIT	•	24 V	up to 200 kg	up to 2 m	18
					KIT CO	MPOSITION on page 2/

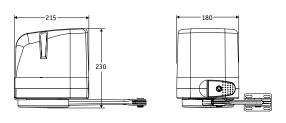
<sup>\*</sup> Automation without control panel

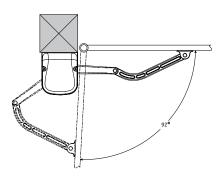
TECHNICAL FEATURES					
	VIRGO				
CONTROL PANEL	LINX (incorporated)				
OPERATOR	irreversible				
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase				
ABSORBED POWER	40 W				
THERMAL PROTECTION	built into control unit				
OPENING OR CLOSING TIME	14 s				
IMPACT REACTION	stops and movement is reversed				
TYPE OF LOCK	mechanical on closing and opening				
MANUAL RELEASE	release lever with CLS key				
OPERATING CYCLE	intensive use				
ENVIRONMENTAL CONDITIONS	from -15°C to + 50°C				
DEGREE OF PROTECTION	IP44				
OPERATOR WEIGHT	VIRGO ~8 kg - VIRGO SQ ~6 kg				

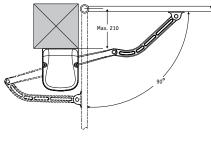


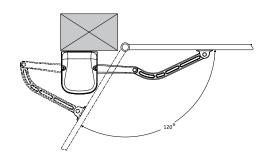


#### DIMENSIONS (mm)









#### ACCESSORIES



#### P125008 - VIRGO BAT

The VIRGO BAT device ensures, through its back up batteries and battery charger, low-voltage operations when there is no power supply (LINX).



#### D121017 - ECB LEFT

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



D111761 - ME BT

12/24 Vac electric lock board for BT operators.



N574005 - SIBOX

Empty safe for external release and control push-button panel. Dimensions: 179.5x122x92 mm.



N733036 - MOX

External release mechanism for SIBOX model.



#### N733103 00002 POX-SC

Push-button panel with two buttons and pilot light for direct connection when the operator is regulated by an electrical control panel.



#### • A MODEL FOR EVERY NEED.

 $\rightarrow$  Great versatility thanks to the levers that also permit installation on pillars of big dimensions and opening up to 125°.

#### • SMART TECHNOLOGY.

 $\rightarrow$  Control unit compatible with the EElink protocol.

#### • SAFE USE.

- → The version powered at 24V is specially designed for simpler and faster installation in compliance with the safety standards laid down by the Machinery Directive.
- → Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact [IGEA BT].

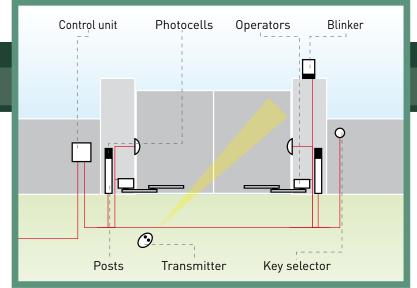
#### • SIMPLER INSTALLATION.

→ BFT's system of coded limit switches makes it possible to reduce the complexity of wiring the low-voltage motors: a single wire is carried to the control panel instead of the three normally required, thereby increasing the simplicity and speed of installation. Furthermore, the system is able to automatically distinguish between the open limit switch and the closed one and hence prevent wasted time and wiring errors [IGEA BT].

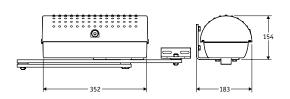
CODE	DESCRIPTION	KIT	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P935070 00002	IGEA BT		24 V	up to 250 kg	up to 2,5 m	20
R935229 00001	IGEA BT KIT	•	24 V	up to 250 kg	up to 2,5 m	12
P935065 00002	IGEA		230 V	up to 250 kg	up to 2,5 m	20
KIT COMPOSITION on page 24						

TECHNICAL FEATURES							
FEATURES OF	THE RANGE	SPECIFIC FEATURES					
		IGEA BT	IGEA				
CONTROL PANEL		LIBRA C MA	ALTAIR P (suggested)				
OPERATOR	irreversible						
POWER SUPPLY		24 Vdc	230 V~ ± 10%, 50 Hz single-phase				
ABSORBED POWER		40 W	300 W				
THERMAL PROTECTION		built into control unit	built into motor				
OPENING OR CLOSING TIME	15 s						
IMPACT REACTION		stops and movement is reversed	torque limiter on control unit				
TYPE OF LOCK	mechanical opening/closing						
MANUAL RELEASE	release knob with personalised key						
OPERATING CYCLE		intensive use	semi intensive use				
ENVIRONMENTAL CONDITIONS	from -15°C to + 60°C						
DEGREE OF PROTECTION	IP44						
OPERATOR WEIGHT	~16 kg						

3



#### DIMENSIONS (mm)



#### ACCESSORIES



**D113672 00005 LIBRA C MA** See page 141



**D113703 00002 ALTAIR P**See page 140



P125005 - BT BAT
Thanks to the back-up
batteries and battery charger,
the BT BAT kit guarantees
low voltage operation of the
leaf in the event of power

failure (LIBRA C MA, LIBRA C LX, HYDRA R).



P111408 - SCS WIE

Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units

QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



**D111013 - ME** 12 Vac electric lock board.



D111761 - ME BT

12/24 Vac electric lock board for BT operators.



D121017 - ECB LEFT

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



P123001 00001 - EBP

230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



N574005 - SIBOX

Empty safe for external release and control pushbutton panel.
Dimensions: 179.5x122x92



N733036 - MOX

External release mechanism for SIBOX model.



P135005 - LRV

Reduced levers (IGEA, IGEA BT).



D531548 - KI

Release key blank for ICARO, URANO BT, IGEA, IGEA BT.



N733103 00002 POX-SC

Push-button panel with two buttons and pilot light for direct connection when the operator is regulated by an electrical control panel.

#### ELECTROMECHANICAL OPERATOR FOR SWING GATES

48



#### • A MODEL FOR EVERY NEED.

ightarrow Multiple installation possibilities thanks to the optional articulated arms (BLE5 or BSE5) which allow the use of the operator on pillars of small dimensions or very tight spaces.

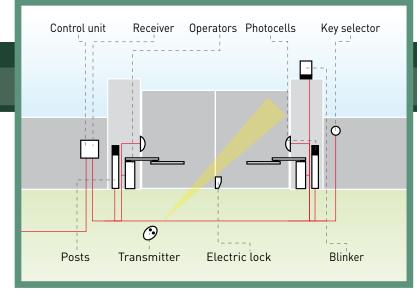
#### • SAFE USE.

 $\rightarrow$  Antisquashing protection guaranteed by the adjustable mechanical clutch.

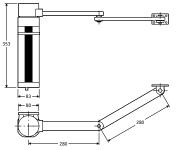
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P930003 00001	E5	230 V	up to 200 kg	up to 1,8 m	25

TECHNICA	TECHNICAL FEATURES						
	E5						
CONTROL PANEL	ALCOR N (suggested)						
OPERATOR	reversible						
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase						
ABSORBED POWER	200 W						
THERMAL PROTECTION	built into motor						
OPENING OR CLOSING TIME	22 s						
IMPACT REACTION	mechanical clutch						
TYPE OF LOCK	electric lock						
MANUAL RELEASE	reversible operator						
OPERATING CYCLE	semi intensive use						
ENVIRONMENTAL CONDITIONS	from -10°C to + 60°C						
DEGREE OF PROTECTION	IP44						
OPERATOR WEIGHT	~8 kg						

3



## DIMENSIONS (mm)



#### ACCESSORIES



**D113706 00002 ALCOR N** See page 140



D113693 00003 RIGEL 5 See page 141



P111408 - SCS WIE
Circuit board for direct
connection of wiegand
accessories (such as
SELETTO, COMPAS SLIM,
etc) to the control units QSC

D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D113050 - SPL

Preheating board for 1 or 2 LUX, SUB, ORO, P4,5-P7,BERMA and E5 operator models. With this accessory the operator is able to work at very low temperature.



D111704 - SSR5

Traffic light and preheating control board for RIGEL 5 control panel. The operator is able to work at -20° with this accessory.



P123001 00001 - EBP

230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



D111013 - ME

12 Vac electric lock board.



N733008 - BLE 5 Complete extended arm.



**N728011 - BSE 5** Slide lever.

## ELI 250 SERIES

#### ELECTROMECHANICAL OPERATOR FOR SWING GATES

50



#### • SMART TECHNOLOGY.

- → The incorporated magnetic limit switches allow positioning precision and constancy, remain unchanged with variations in climatic conditions and are not subject to wear [ELI 250 BT].
- → Control unit compatible with the EElink protocol.
- $\rightarrow$  Shorter times for the opening and closing operations (**ELI 250 BT and ELI 250 V**).

#### • SAFE USE.

 $\rightarrow$  The version powered at 24V is specially designed for simpler and faster installation in

compliance with the safety standards laid down by the Machinery Directive.

→ Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact (ELI 250 BT).

#### • SIMPLER INSTALLATION

ightarrow The special foundation case makes it possible to extract the operator without removing the gate leaf.



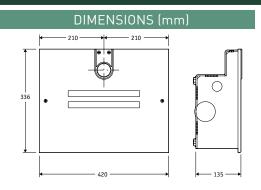


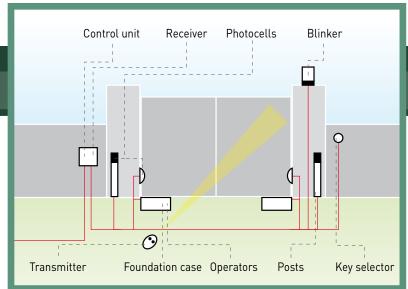
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER P	ALLET
P930118 00001	ELI 250 BT	24 V	up to 400 Kg	up to 3,5 m (with elect	ric lock )*	25
P930114 00001	ELI 250	230 V	up to 300 Kg	up to 3,5 m (with elect	ric lock )*	25
P930114 00003	ELI 250-V	230 V	up to 150 Kg	up to 2 m		25

<sup>\* 2,5</sup> m (without electric lock)

TECHNICAL FEATURES							
FEATURES OF	FEATURES OF THE RANGE SPECIFIC FEATURES						
		ELI 250 BT	ELI 250	ELI 250 V			
CONTROL PANEL		LIBRA C MA	ALTAIR P (suggested)	ALTAIR P (suggested)			
OPERATOR	irreversible						
POWER SUPPLY		24 Vdc	230 V~ ± 10%, 50 Hz single-phase	230 V~ ± 10%, 50 Hz single-phase			
ABSORBED POWER		175 W	280 W	280 W			
THERMAL PROTECTION		built into control unit	built into motor	built into motor			
OPENING ANGLE	from -10° to +110°						
OPENING OR CLOSING TIME		15 s /120°	28 s / 120°	14 s / 120°			
IMPACT REACTION		stops and movement is	torque limiter on control unit	torque limiter on control unit			
		reversed					
TYPE OF LOCK	mechanical						
MANUAL RELEASE	release key						
OPERATING CYCLE		intensive use	semi intensive use	semi intensive use			
ENVIRONMENTAL CONDITIONS	from -20°C to + 50°C						
DEGREE OF PROTECTION	IP67						
OPERATOR WEIGHT	~10 kg						

3





#### ACCESSORIES



**D113672 00005 LIBRA C MA** See page 141



**D113703 00002 ALTAIR P** See page 140



P125005 - BT BAT
Thanks to the back-up
batteries and battery charger,
the BT BAT kit guarantees
low voltage operation of the
leaf in the event of power

failure (LIBRA C MA, LIBRA C LX, HYDRA R).



P111408 - SCS WIE Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units

QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



N733397 - BTCF 120 E Universal foundation case for ELI 250 BT, ELI 250, ELI 250 V with levers. Without release.



N733398
BTCF 120 E INOX
Foundation case in stainless steel with levers. Without release.



**N733189 - SCT**Release for ELI250 with triangular spanner.



**N733392 - SCC** Release for ELI250 with lever spanner.



**N733345 - CFE** Stop pack ELI 250.



**N733368 - CFE BT** Stop pack ELI 250 BT.



N733304 - E180 180° opening kit for underground operator ELI 250, ELI 250 V.



**P123001 00001 - EBP** 230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



D121017 - ECB LEFT

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



D111761 - ME BT 12/24 Vac electric lock board for BT operators.



**D111013 - ME** 12 Vac electric lock board.



N733250 - BTCF 120 Universal foundation case for ELI 250 with levers. Available while stock last.



N733266 - BTCF 120 INOX

Foundation case in stainless steel with levers. **Available while stock last**.



BFT hydrodynamic operators for swing gates ensure the maximum reliability and durability over time. Their high frequency of use makes them particularly suitable for apartment block contexts. Moreover, all the maintenance operations are particularly simple, fast and intuitive.

## HYDRODYNAMIC SOLUTIONS FOR THE AUTOMATION OF SWING GATES

ORO | LUX and LUX BT | P7 and P4,5 | SUB



#### <u>LEGEND</u>

SEMI INTENSIVE USE

INTENSIVE USE

VERY INTENSIVE USE







LEAF LENGTH	LEAF WEIGHT	OR0	LUX BT	LUX
1,8 m	180 kg	• ORO		
2 m	300 kg		LUX BT - LUX BT 2B	LUX - LUX B - LUX 2B LUX R2BSN2
2,3 m	300 kg			LUX MB
2,5 m	200 kg	ORO E		
4 m	500 kg			LUX L
4,5 m	500 kg			
5 m	800 kg			LUX G
7 m	500 kg			
	KIT	ORO KIT		

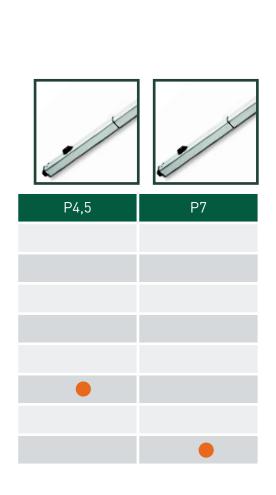
UNDERGROUND SWING GATES







LEAF LENGTH	LEAF WEIGHT	SUB SC	SUB R SC	SUB G SC
1,8 m				
2,5 m	800 kg			
3,5 m				









#### • A MODEL FOR EVERY NEED.

→ Versions are available that are irreversible when closing (**ORO model**) and reversible (**ORO E model**).

#### • SAFE USE.

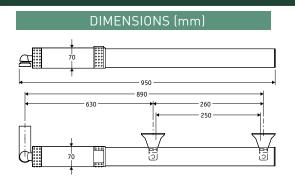
→ Antisquashing protection guaranteed by two adjustable bypass valves.

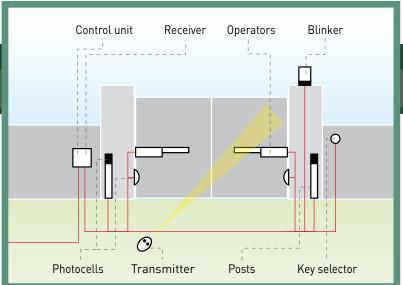
CODE	DESCRIPTION	KIT	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET	
P935059 00001	ORO		230 V	up to 180 Kg	up to 1,8 m	25	
R935222 00002	ORO KIT	•	230 V	up to 180 Kg	up to 1,8 m	10	
P935058 00001	ORO E		230 V	up to 200 Kg	up to 2,5 m	25	
KIT COMPOSITION on page 24							

TECHNICAL FEATURES							
FEATURES OF	THE RANGE	SPECIFIC FEATURES					
		ORO	ORO E				
CONTROL PANEL	ALCOR N (suggested)						
OPERATOR		irreversible	reversible				
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase						
ABSORBED POWER	240 W						
THERMAL PROTECTION	built into motor						
ROD WORKING STROKE	250 mm						
ROD SPEED		12 mm/s	8 mm/s				
OPENING AND CLOSING TIM	E	20 s	27 s				
IMPACT REACTION	hydraulic clutch						
TYPE OF LOCK		hydraulic on closing	electric lock				
MANUAL RELEASE		release key CLS	reversible				
OPERATING CYCLE	semi intensive use						
<b>ENVIRONMENTAL CONDITIONS</b>	from -10°C to + 60°C						
DEGREE OF PROTECTION	IP55						
OPERATOR WEIGHT	~5,3 kg						

#### RESIDENTIAL AND APARTMENT-BLOCK USE







#### **ACCESSORIES**



**D113706 00002 ALCOR N** See page 140



**D113693 00003 RIGEL 5** See page 141



P111408 - SCS WIE
Circuit board for direct
connection of wiegand
accessories (such as
SELETTO, COMPAS SLIM,
etc) to the control units QSC

D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D113050 - SPL
Preheating board for
1 or 2 LUX, SUB, ORO,
P4,5-P7,BERMA and E5
operator models. With this
accessory the operator is
able to work at very low



D111704 - SSR5
Traffic light and preheating control board for RIGEL 5 control panel. The operator is able to work at -20° with this accessory.



**D111013 - ME** 12 Vac electric lock board.



D121017 - ECB LEFT

temperature.

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



P123001 00001 - EBP

230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



N999131 - NAT

Adapter for inserting the cable spiral protection sheath.



D730178 - PLE

Anchor plate used to weld brackets to masonry pillars.



D610180 - CLS

Release key for LUX B, ORO, SUB, PHOBOS N and PHOBOS N BT models (10-piece pack).



#### • A MODEL FOR EVERY NEED.

→ Several versions available: irreversible with hydraulic locking (for holding when closed or closed and open) and reversible (with use of an electric lock).

#### • SAFE USE.

ightarrow Antisquashing protection guaranteed by two adjustable bypass valves.

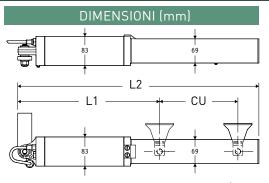
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P935009 00001	LUX	230 V	up to 300 kg	up to 2 m	25
P935010 00001	LUX B	230 V	up to 300 kg	up to 2 m	25
P935011 00001	LUX 2B	230 V	up to 300 kg	up to 2 m	25
P935046 00002	LUX R - 2B -SN2	230 V	up to 300 kg	up to 2 m	25
P935035 00001	LUX M-B	230 V	up to 300 kg	up to 2,3 m	25
P935012 00001	LUX L	230 V	up to 500 kg	up to 4 m	25
P935013 00001	LUX G	230 V	up to 800 kg	up to 5 m	21

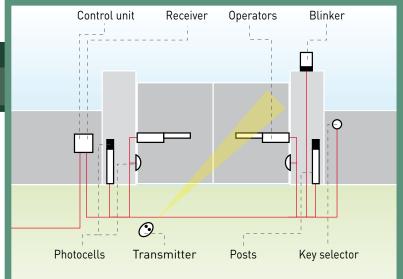
**B** locks closed | **2B** locks closed and open | **R** slow-down during closing | **SN2** double joint | **M** medium speed | **L** reduced speed | **G** large version

			TECHNIC	CAL FEATURES				
FEATURES	<b>OF THE RANGE</b>				SPECIFIC FI	EATURES		
CONTROL PANEL	ALCOR N (suggested)							
OPERATOR		reversible	irreversible	irreversible	irreversible	irreversible	reversible	reversible
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase							
ABSORBED POWER	250 W							
THERMAL PROTECTION	built into motor	LUX	LUX B	LUX 2B LUX F	R2BSN2 LUX MI	B LUX L	LUX G	
ROD WORKING STROKE		270 mm	270 mm	270 mm	250 mm	270 mm	270 mm	390 mm
ROD SPEED		14 mm/s	14 mm/s	14 mm/s	14 mm/s	10 mm/s	8,3 mm/s	8,3 mm/s
OPENING AND CLOSING TIME		17 s	17 s	17 s	16 s + slowdown	23 s	34 s	50 s
SLOWDOWN		-	-	-	closing	-	-	-
IMPACT REACTION	hydraulic clutch							
TYPE OF LOCK		electric lock	hydraulic closing	hydraulic opening/closing	hydraulic opening/closing	hydraulic closing	electric lock	electric lock
MANUAL RELEASE		reversible	release key	release key	release key	release key	reversible	reversible
OPERATING CYCLE	very intensive use			,	,	,		
ENVIRONMENTAL CONDITIONS	from -10°C to + 60°							
DEGREE OF PROTECTION	<b>I</b> IP57							
OPERATOR WEIGHT		~8,7 kg	~8,7 kg	~8,7 kg	~8,7 kg	~8,7 kg	~8,7 kg	~11,2 kg

#### RESIDENTIAL AND APARTMENT-BLOCK USE







	L1	CU	L2
LUX / LUX B / LUX 2B / LUX MB / LUX L	715	270	1025
LUX G / LUX FC 2B	850	390	1300
LUX R2BSN2	710	250	1050

#### **ACCESSORIES**



**D113706 00002 ALCOR N** See page 140



**D113693 00003 RIGEL 5** See page 141



P111408 - SCS WIE Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units QSC

D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1
Serial connection board
for QSC D MA, LIBRA C
MA, LIBRA C MV, LIBRA
C LX, VENERE D, LEO D
MA, LEO MV, RIGEL 5 and
ALTAIR P.



D113050 - SPL
Preheating board for
1 or 2 LUX, SUB, ORO,
P4,5-P7,BERMA and E5
operator models. With this
accessory the operator is
able to work at very low
temperature.



**D111704 - SSR5**Traffic light and preheating control board for RIGEL 5 control panel. The operator is able to work at -20° with this accessory.



**D111013 - ME**12 Vac electric lock board.



D121017 - ECB LEFT Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



P123001 00001 - EBP 230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



**D730178 - PLE**Anchor plate used to weld brackets to masonry pillars.



**N728003 - IDROLUX R**Red hydraulic oil, 2 lt can.
Always fill up with oil of the same colour.



**D610180 - CLS**Release key for LUX B,
ORO, SUB, PHOBOS N and
PHOBOS N BT models
[10-piece pack].





#### • A MODEL FOR EVERY NEED.

→ Comes in two versions:

LUX BT 2B with hydraulic locking that can be selected to produce an operator:

- -reversible
- -locks closed
- -locks open
- -locks closed and open

**LUX BT** reversible only (using solenoid lock).

#### • SMART TECHNOLOGY.

- → Management of limit switch stops using absolute encoder
- $\rightarrow$  Slowing on opening and closing managed by the control unit

Control unit with self-learning and self-diagnosis functions.

 $\rightarrow$  Control unit compatible with the protocol

#### • SAFE TO USE.

- ightarrow Specially designed for easier and faster installation, conforms to the safety requisites dictated by the Machinery Directive.
- $\rightarrow$  Thanks to the anti-crushing system, in the event of contact the system inverts the direction of movement, thus preventing injury and damage to persons or things).

#### • EASIER INSTALLATION.

ightarrow Control unit programmable using the LCD display.

CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P935080 00001	LUX BT	24 V	up to 300 kg	up to 2 m	21
P935079 00001	LUX BT 2B (with 2 locks)	24 V	up to 300 kg	up to 2 m	21

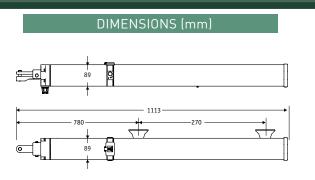
	TECHNICAL FEAT	URES	
FEATURES OF	THE RANGE	SPECIFIC	FEATURES
		LUX BT	LUX BT 2B
CONTROL PANEL	LIBRA C LX		
OPERATOR		reversible	reversible / irreversible*
POWER SUPPLY	24 Vdc		
ABSORBED POWER	300 W		
THERMAL PROTECTION	built into control unit		
ROD WORKING STROKE	270 mm		
ROD SPEED	14 mm/s		
OPENING AND CLOSING TIME	17 s		
SLOWDOWN	opening/closing		
IMPACT REACTION	Stop and reverse on encountering obstacle with dynamic torque control curve		
TYPE OF LOCK		electric lock	hydraulic opening/closing
MANUAL RELEASE		reversible	release key
OPERATING CYCLE	very intensive use		
ENVIRONMENTAL CONDITIONS	from -20°C to + 60°		
DEGREE OF PROTECTION	IP55		
OPERATOR WEIGHT	~8,7 kg		

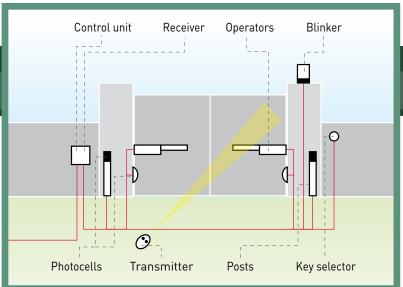
<sup>\*</sup>Option of selecting desired locking type on operator

4

#### RESIDENTIAL AND APARTMENT-BLOCK USE







#### **ACCESSORIES**



**D113715 00002 LIBRA C LX** See page 141



P125005 - BT BAT Thanks to the back-up batteries and battery charger, the BT BAT kit guarantees low voltage operation of the leaf in the

event of power failure (LIBRA C MA, LIBRA C LX, HYDRA R).



#### P111408 - SCS WIE

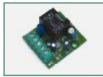
Circuit board for direct connection of wiegand accessories (such as SELETTO, COMPAS SLIM, etc) to the control units QSC

D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D111761 - ME BT 12/24 Vac electric lock board for BT operators.



D121017 - ECB LEFT

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



P123001 00013 - EBP 24

24Vac electric lock with 230/24V transformer to be inserted in the control panel



N999417
CABLE LX BT
Power supply cable for LUX BT. Rolls of 100 m.



N999443 - PL LX BT

Anchor plate used to weld brackets to masonry pillars for LUX BT.

### HYDRAULIC OPERATOR FOR SWING GATES

62



#### • A MODEL FOR EVERY NEED.

 $\rightarrow$  Two versions available, one for gates with leaves up to 4.5 m and one for leaves up to 7 m.

#### • SMART TECHNOLOGY.

- $\rightarrow$  Adjustable slowdown when closing.
- $\rightarrow$  Customized release key.

#### • SAFE USE.

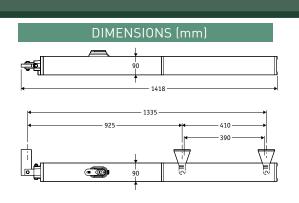
 $\xrightarrow{}$  Antisquashing protection guaranteed by two adjustable bypass valves.

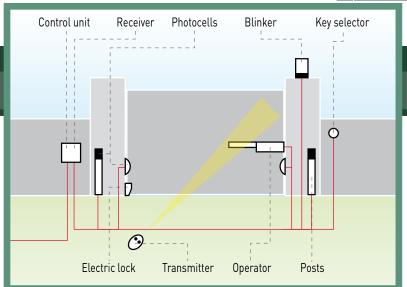
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P935061 00001	P4,5	230 V	up to 500 Kg	up to 4,5 m	20
P935060 00001	P7	230 V	up to 500 Kg	up to 7 m	20

TECHNICAL FEATURES							
FEATURES OF	THE RANGE	SPECIFIC FEATURES					
		P4,5	P7				
CONTROL PANEL	ALCOR N (suggested)						
OPERATOR	reversible						
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase						
ABSORBED POWER	250 W						
THERMAL PROTECTION	built into motor						
ROD WORKING STROKE	390 mm						
ROD SPEED		14 mm/s	8,3 mm/s				
OPENING TIME		30 s	45 s				
CLOSING TIME		28 s + slowdown	42 s + slowdown				
SLOWDOWN	hydraulic on closing						
IMPACT REACTION	hydraulic clutch						
TYPE OF LOCK	electric lock						
MANUAL RELEASE	reversible + release knob						
OPERATING CYCLE	very intensive use						
ENVIRONMENTAL CONDITIONS	from -10°C to + 60°C						
DEGREE OF PROTECTION	IP55						
OPERATOR WEIGHT	~12,25 kg						

#### APARTMENT-BLOCK AND INDUSTRIAL USE







#### ACCESSORIES



**D113706 00002 ALCOR N** See page 140



**D113693 00003 RIGEL 5** See page 141



P111408 - SCS WIE
Circuit board for direct
connection of wiegand
accessories (such as
SELETTO, COMPAS SLIM,
etc) to the control units QSC

D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1
Serial connection board
for QSC D MA, LIBRA C
MA, LIBRA C MV, LIBRA
C LX, VENERE D, LEO D
MA, LEO MV, RIGEL 5 and
ALTAIR P.



D113050 - SPL
Preheating board for
1 or 2 LUX, SUB, ORO,
P4,5-P7,BERMA and E5
operator models. With this
accessory the operator is
able to work at very low
temperature.



**D111704 - SSR5**Traffic light and preheating control board for RIGEL 5 control panel. The operator is able to work at -20° with this accessory.



**D111013 - ME** 12 Vac electric lock board.



**D121017 - ECB LEFT**Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



**P123001 00001 - EBP** 230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



N999131 - NAT
Adapter for inserting the cable spiral protection sheath.

## **SUB SERIES**

#### HYDRAULIC OPERATOR FOR SWING GATES

64



#### • A MODEL FOR EVERY NEED.

→ Several versions available: irreversible with hydraulic locking (for holding when closed and open) and reversible (with use of an electric lock).

#### • SAFE USE.

ightarrow Antisquashing protection guaranteed by two adjustable bypass valves.

#### • SIMPLER INSTALLATION.

ightarrow The special foundation case makes it possible to remove the operator without taking off the gate leaf.

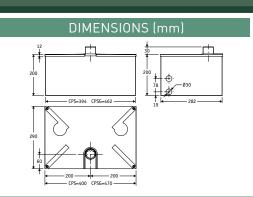
CODE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH	Q.TY PER PALLET
P930026 00001	SUB SC RIGHT	230 V	up to 800 kg	up to 1,80 m	24
P930026 00002	SUB SC LEFT	230 V	up to 800 kg	up to 1,80 m	24
P930012 00005	SUB R SC RIGHT	230 V	up to 800 kg	up to 1,80 m	24
P930012 00006	SUB R SC LEFT	230 V	up to 800 kg	up to 1,80 m	24
P930010 00005	SUB G SC RIGHT	230 V	up to 800 kg	up to 1,80 m	24
P930010 00006	SUB G SC LEFT	230 V	up to 800 kg	up to 1,80 m	24
P930013 00007	SUB E-R SC RIGHT	230 V	up to 800 kg	up to 2,50 m	24
P930013 00008	SUB E-R SC LEFT	230 V	up to 800 kg	up to 2,50 m	24
P930014 00005	SUB E-L SC RIGHT	230 V	up to 800 kg	up to 3,50 m	24
P930014 00006	SUB E-L SC LEFT	230 V	up to 800 kg	up to 3,50 m	24

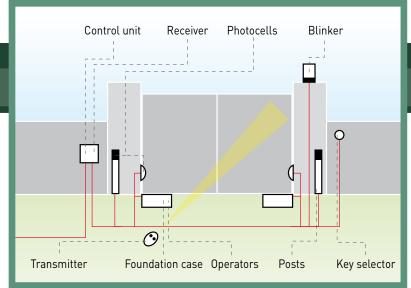
R slow-down during closing and opening | G large version - opens up to 180° | E reversible | L reduced speed

TECHNICAL FEATURES							
FEATURES OF THE RANGE		SPECIFIC FEATURES					
		SUB SC	SUB R SC	SUB G SC	SUB ER SC	SUB EL SC	
CONTROL PANEL	ALCOR N (suggested)						
OPERATOR		irreversibile	irreversibile	irreversibile	reversibile	reversibile	
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase						
ABSORBED POWER	250 W						
THERMAL PROTECTION	built into motor						
OPENING ANGLE		130°	130°	180°	130°	130°	
OPENING OR CLOSING TIME		24 s	14 s + slowdown	33 s	14 s + slowdown	33 s	
SLOWDOWN		-	opening/closing	-	opening/closing	-	
IMPACT REACTION	hydraulic clutch						
TYPE OF LOCK		hydraulic opening/closing	hydraulic opening/closing	hydraulic opening/closing	electric lock	electric lock	
MANUAL RELEASE		release key	release key	release key	reversible	reversible	
OPERATING CYCLE	very intensive use						
ENVIRONMENTAL CONDITIONS	from -10°C to + 60°C						
DEGREE OF PROTECTION	IP67						
OPERATOR WEIGHT		~22 kg	~22 kg	~24 kg	~22 kg	~22 kg	

#### RESIDENTIAL AND APARTMENT-BLOCK USE







#### **ACCESSORIES**



**D113706 00002 ALCOR N** See page 140



**D113693 00003 RIGEL 5** See page 141



P111408 - SCS WIE
Circuit board for direct
connection of wiegand
accessories (such as
SELETTO, COMPAS SLIM,
etc) to the control units QSC

D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111376 - SCS 1

Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D113050 - SPL

Preheating board for 1 or 2 LUX, SUB, ORO, P4,5-P7,BERMA and E5 operator models. With this accessory the

operator is able to work at very low temperature.



D111704 - SSR5

Traffic light and preheating control board for RIGEL 5 control panel. The operator is able to work at -20° with this accessory.



D111013 - ME

12 Vac electric lock board.



P123001 00001 - EBP

230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



D121017 - ECB LEFT

Left-hand horizontal electric lock, 12V. Also available in right-hand and vertical versions. See page 153.



N733066 00003 - FCS right

Bearing foundation case for SUB operator fitting. Maintenance can be carried out without disassembling the gate.



N733066 00004 - FCS left

Bearing foundation case for SUB operator fitting. Maintenance can be carried out without disassembling the gate.



N733092 - CPS G

Bearing foundation case for either left hand or right hand SUB G operator fitting. Maintenance can be carried out without disassembling the gate.



D610256 - CLS/82

Release key for SUB model (10-piece pack).



N728003 - IDROLUX R

Red hydraulic oil, 2 lt can. Always fill up with oil of the same colour.



N728002 - BSC

SUB arm outside hinge.



N733066 00002 - CPS left

Bearing foundation case for SUB operator fitting. Maintenance can be carried out without disassembling the gate.

Available while stock last.



N733066 00001 - CPS right

Bearing foundation case for SUB operator fitting.
Maintenance can be carried out without disassembling the gate. Available while stock last.



From small shutters to French windows, BFT offers models made to measure for every need. Everything is oriented towards the creation of a customized system: strong, powerful and reliable motors; a wide range of accessories; simplified assembly, installation and adjustment.

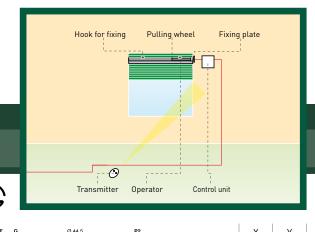
# SOLUTIONS FOR THE AUTOMATION OF ROLLER SHUTTERS



## **LOOP SERIES**

ROLLER SHUTTER AUTOMATION
RESIDENTIAL AND APARTMENT-BLOCK USE

68





→ Several versions available for shutters of any material (aluminium, steel, PVC, wood) and size (max. weight 88 kg with Loop 50/50, Loop 50/50M and octagonal tube with diameter 60).

LOOP 50/50 M

	Х	Y
LOOP 50/10	537	459
LOOP 50/15	537	459
LOOP 50/35	582	504
LOOP 50/50	582	504

#### • SMART TECHNOLOGY.

ightarrow Fast adjustment of the limit switches.

#### • SAFE USE.

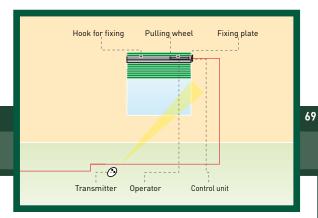
 $\rightarrow$  Compact and robust self-braking gearmotor.

CODE	DESCRIPTION	VOLTAGE	OPERATOR DIAMETER	ROLLER SHUTTER WEIGHT	Q.TY PER PALLET
P910028 00001	LOOP 50/10	230 V	60 mm	18 kg	10
P910028 00002	LOOP 50/15	230 V	60 mm	35 kg	10
P910028 00003	LOOP 50/35	230 V	60 mm	55 kg	10
P910028 00004	LOOP 50/50	230 V	60 mm	88 kg	10
P910029 00001	LOOP 50/50M	230 V	60 mm	88 kg	10

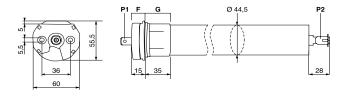
TECHNICAL FEATURES						
FEATURES OF THE RANGE SPECIFIC FEATURES						
		L00P 50/10	LOOP 50/15	LOOP 50/35	L00P 50/50	L00P 50/50M
CONTROL PANEL	ELBA, ELBA BU (suggested)					
OPERATOR	irreversible					
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase					
ABSORBED POWER		130 W	160 W	210 W	270 W	270 W
THERMAL PROTECTION	integrated					
ABSORBED CURRENT		0,5 A	0,5 A	1 A	1,1 A	1,1 A
MAX TORQUE		10 Nm	20 Nm	30 Nm	50 Nm	50 Nm
SHAFT OUTPUT RPM		16 min	16 min	16 min	12 min	12 min
LIMIT SWITCH RPM	28					
TYPE OF LIMIT SWITCHES	mechanical					
WEIGHT UP WITH ROLLER DIAM, 60		18 kg	35 kg	55 kg	88 kg	88 kg
MANUAL RELEASE		-	-	-	-	release with rod
ENVIRONMENTAL CONDITIONS	from -10°C to + 40°C					
DEGREE OF PROTECTION	IP44					
OPERATOR WEIGHT		~2,1 kg	~2,2 kg	~2,75 kg	~2,8 kg	~2,8 kg

## LOOP RADIO SERIES

**ROLLER SHUTTER AUTOMATION** RESIDENTIAL AND APARTMENT-BLOCK USE







#### • ONE MODEL FOR EACH REQUIREMENT.

→ Different versions available for roller shutters of any materials (aluminium, steel, pvc, wood) and dimensions (max weight 88 kg with Loop Radio 50/50 and octagonal pipe with 60 diameter).

#### • INTELLIGENT TECHNOLOGY.

→ Electronic limit device.

#### • SIMPLER INSTALLATION.

- $\rightarrow$  Minimum wiring needed.
- → Limit device setting from remote control.

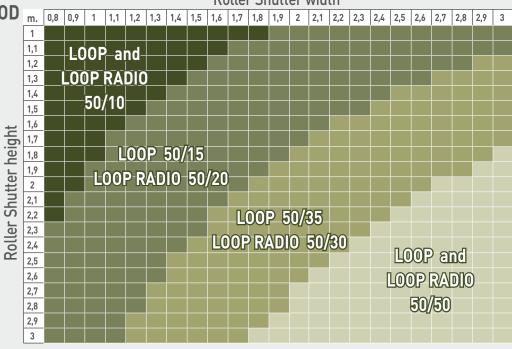
CODE	DESCRIPTION	VOLTAGE	OPERATOR DIAMETER	ROLLER SHUTTER WEIGHT	Q.TY PER PALLET
P910030 00001	LOOP RADIO 50/10	230 V	60 mm	18 kg	10
P910030 00002	LOOP RADIO 50/20	230 V	60 mm	35 kg	10
P910030 00003	LOOP RADIO 50/30	230 V	60 mm	55 kg	10
P910030 00004	LOOP RADIO 50/50	230 V	60 mm	88 kg	10

TECHNICAL FEATURES							
FEATURES OF	THE RANGE	SPECIFIC FEATURES					
		LOOP RADIO 50/10	LOOP RADIO 50/20	LOOP RADIO 50/30	LOOP RADIO 50/50		
CONTROL PANEL	incorporated						
OPERATOR	irreversible						
POWER SUPPLY	230 V~ ± 10%, 50 Hz single-phase						
ABSORBED POWER		130 W	160 W	210 W	270 W		
THERMAL PROTECTION	integrated						
ABSORBED CURRENT		0,5 A	0,5 A	1 A	1,1 A		
MAX TORQUE		10 Nm	20 Nm	30 Nm	50 Nm		
SHAFT OUTPUT RPM		16 min	16 min	16 min	12 min		
LIMIT SWITCH RPM	28						
TYPE OF LIMIT SWITCHES	electronic						
WEIGHT UP WITH ROLLER DIAM, 60		18 kg	35 kg	55 kg	88 kg		
ENVIRONMENTAL CONDITIONS	from -10°C to + 40°C						
DEGREE OF PROTECTION	IP44						
OPERATOR WEIGHT		~2,1 kg	~2,2 kg	~2,75 kg	~2,8 kg		

#### **SELECTION GUIDE**

#### Roller Shutter width





**ALLUMINIUM PVC** 

Roller Shutter width m. 0,8 0,9 1 1,1 1,2 1,3 1,4 1,5 1,6 1,7 1,8 1,9 2 2,1 2,2 2,3 2,4 2,5 2,6 2,7 2,8 2,9 3 1 1,1 1,2 1,3 LOOP and 1,4 1,5 LOOP RADIO 1,6 Roller Shutter height 1,7 50/10 LOOP 50/15 1,8 1,9 LOOP RADIO 50/20 2 2,1 LOOP 50/35 2,2 2,3 L00P RADIO 50/30 2,4 2,5 2,6 2,7 LOOP and 2,8 LOOP RADIO 2,9 50/50

#### ACCESSORIES



D113716 00002 - ELBA See page 140.



D113717 00002 - ELBA BU See page 140.

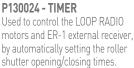


P130025 - ER1 External receiver used to control motors without an incorporated





Used to control the LOOP RADIO motors and ER-1 external receiver,





Wall-mounted remote control for the LOOP RADIO operator.

### RESIDENTIAL AND APARTMENT-BLOCK USE



#### ACCESSORIES



P130018 - KIT TL 60
Basic hardware kit for installing one LOOP operator, comprising: no. 1 wall bracket - no. 1 adapter for octagonal roller, size 60 - no. 2 hooks for fixing the belt to the winding roller.



P130020 - KIT TL 60M
Basic hardware kit for installing one L00P operator with manual release comprising:no. 1 wall bracket for manual release - no. 1 adapter for octagonal roller, size 60 - no. 2 hooks for fixing the belt to the winding roller.



P130001 - BLOCCANTI 40 40 mm anti-break-in block. Available for standard, mini and wooden slats. 1 block every 1.10 m of roller shutter.



P130013 - BLOCCANTI 50 50 mm anti-break-in block. Available for standard, mini and wooden slats. 1 block every 1.10 m of roller shutter



**P130010 - RUL 60/1,5** Octagonal shutter winding roller ø 60 x 1.5 m.



P130012 - RUL 60/3 Octagonal shutter winding roller ø 60 x 3 m.



P130008 - RUL 60/6 Octagonal shutter winding roller ø 60 x 6 m.



P130002 - CAL 60/100 Adjustable telescopic octagonal cover for ø 60 roller.



P130004 - CAL 60/30 Octagonal shaped cover for ø 60 roller.



**P130006 - GANC**Hook for fixing the belt to the winding roller.



**P130015 - SM504**Wall-mounted 50 support with bearing.



P130014 - SM505 Support 50 to be flush mounted.



**N999324 - SM5013** Revolving wall adapter for manual release.



N999325 - SM5014 Bracket with 10 mm shaft for direct coupling to motor and square-section snap-on shaft for mounting.



N999326 - SM5015

Dual-position revolving bracket with rounded shaft, with two positions and associated saddle for manual release.



N999323 - AD5027

Wheel+adapter pack for series 50 actuator for octagonal roller ø 60. Note: adapters for rollers of different form available on request.



**N999328 - MM8**Eye-ring for manual release.



**N999329 - MM9** 45° universal joint for manual release.



**N999330 - MM10** 90° universal joint to

90° universal joint for manual release.



N999331 - MM11

1.5 m articulated crank with hook for manual release.



N999332 - MM12

1.5 m rigid crank with hook for manual release.



P111182 - ANEM Wind sensor.



P111183 - CREP Twilight sensor.