



2011 Catalogue

edition 01

2011 Catalogue



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10 How to use the catalogue

Name of the product family

Field of use*

Family

32 **Deimos**

Descrizione

Gamma di operatori residenziali estremamente semplici nell'installazione ed assolutamente sicuri nell'utilizzo grazie alla conformità totale alle normative europee vigenti. Disponibili con motorizzazioni in 24V o in 230V e con finecorsa elettromeccanici o induttivi.

24V ((CR-Resch))

FASTNET CC-Link

Centrale di comando con display di programmazione e sistema D-Track di gestione e controllo della coppia, della velocità e della posizione nelle versioni a 24V. Ricevente radio bicanale incorporata.

Finecorsa di prossimità per installazioni precise e sicure in ogni condizione ambientale

Sistema di alimentazione di emergenza a batterie, installabile a bordo macchina (nelle versioni a 24V)

Tabella riassuntiva

Codice	Nome	Kit	Tensione	Peso Anta	Prezzo (€)	Max	Legenda
R925227 00001	DEIMOS KIT ITA	•	230V	500kg	595,90	3	A
P925197 00003	DEIMOS PROX		230V	500kg	554,40	2	A
P925196 00001	DEIMOS 700		230V	700kg	502,60	2	A
P925200 00002	DEIMOS 800 F		230V	800kg	568,00	2	A
R925228 00001	DEIMOS BT KIT ITA	•	24V	500kg	537,10	2	A
P925178 00006	DEIMOS BT PROX		24V	500kg	525,90	2	A
P925236 00002	DEIMOS BT NET KIT ITA	•	24V	500kg	572,90	1	A

Accessori

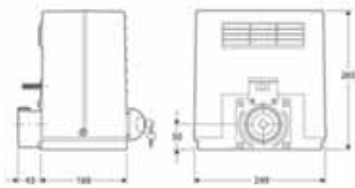
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Links to accessories, kits and complete systems

Drawing and dimensions of the actuator



Dimensioni



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Page number

Colour of the family

Caratteristiche tecniche

	DEIMOS	DEIMOS PROX	DEIMOS 700	DEIMOS 800 F	DEIMOS BT	DEIMOS BT PROX	DEIMOS BT NET
Unità di controllo	ALPHA	ALPHA	ALPHA	ALPHA	QSC-D MA	QSC-D MA	NETTUNO S
Alimentazione	230V	230V	230V	230V	24V	24V	24V
Potenza assorbita	270W	270W	290W	290W	70W	70W	70W
Velocità anta	8,5giri/min	8,5giri/min	8,5giri/min	8,5giri/min	12giri/min	12giri/min	12giri/min
Tipo finecorsa	Elettromeccanico	Induttivo	Elettromeccanico	Elettromeccanico	Elettromeccanico	Induttivo	Elettromeccanico
Modulo pignone	4 (14 denti)	4 (14 denti)	4 (14 denti)	4 (14 denti)	4 (14 denti)	4 (14 denti)	4 (14 denti)
Velocità stazione pignone	48giri/min	48giri/min	48giri/min	48giri/min	79giri/min	79giri/min	79giri/min
Rallentamento	No	No	No	No	Si	Si	Si
Reazione all'urto	Frizione meccanica	Frizione meccanica	Frizione meccanica	Frizione meccanica	Limitatore di coppia	Limitatore di coppia	Limitatore di coppia
Blocco	Meccanico	Meccanico	Meccanico	Meccanico	Meccanico	Meccanico	Meccanico
Sbocco	A manopola con chiave triangolare	A manopola con chiave triangolare	A manopola con chiave triangolare	A manopola con chiave personalizzata	A manopola con chiave triangolare	A manopola con chiave triangolare	A manopola con chiave triangolare
Frequenza utilizzo	Semi-intensivo	Semi-intensivo	Semi-intensivo	Semi-intensivo	Intensivo	Intensivo	Intensivo
Condizioni ambientali	da -15°C a +50°C						
Grado di protezione	IP24						
Peso dell'attuatore	11kg	11kg	15kg	15kg	7kg	7kg	7kg

Comparative table of the main technical features of the products in the family



Residential



Industrial



Joint ownership



Commercial

30 years

30 years of innovation, reliability, dynamism and flexibility.

30 years of constant commitment to installers, retailers and consumers, interpreting their real expectations, simplifying their life and improving their work.

30 years of research, covering all aspects of technological progress in the automation of doors, gates and garages for residential, commercial and industrial use.

30 years of advanced solutions that now guarantee the highest levels of comfort, safety, and reliability.

30 years as protagonists in Europe and throughout the world.

Since 1980, automation has found a home.

Quality is our choice

Research and innovation, a philosophy based on quality and the development of efficient, safe technology that is high-performance and yet intuitive and extremely 'user-friendly': these are what the market has always recognised as being the distinctive features of our company identity, the basis of a know-how that has made BFT a point of reference for the entire industry.

And, for us, quality, research and innovation are not just words, but authentic values that have led us into a process of continuous improvement and growth, into the design of ever more advanced, effective and sustainable solutions, in areas such as energy use. Solutions made possible by the tenacity, drive and professionalism of people working at every level in BFT in what can only be described as a "dream team", absolutely unrivalled.

We've got what it takes.

The reliability of our products is further borne out by the important international certificates obtained. ISO 9001, ISO 14001 and CE-CSA – guaranteeing safety on the North American market as well.

Perfection is the next step.

Bft, technologies, instruments, protocols

The adoption of exclusive and safe technologies and protocols ensures optimum performance at all times and makes BFT automation systems the essence of innovation, quality and reliability.



24v

Precision, safety, reliability, functionality.

BFT 24V technology ensures optimum performance:

- precise slowdown control during opening or closing;
- safety, thanks to the stopping or immediate reversal when an obstacle is detected electronically;
- reliability, guaranteed by the efficient operation even in intensive use conditions.

The 24V power supply is able to detect a power failure automatically and switch to the back-up batteries.

Also, electrical hazards are ruled out.



Er - ready

A new coding system, based on microprocessor technology, that allows the direct cloning of remote controls.

- Each MITTO remote control stored in the receiver can be cloned with a MITTO REPLAY remote control.
- The first remote control "teaches" the second one the correct code which is automatically saved in the receiver the first time it is used.



Ecosol

Complete solar-powered system for low voltage installations.

Ecosol is ideal for doors and gates that are not easily reachable from the electricity mains; thanks to its compatibility with all 24V systems, both old and new, it can be installed in any situation.

Plus:

- Installation times and costs are drastically reduced, thanks to an extremely simple wiring system. No connections to the electricity mains are needed and no digging or building work is required.
- The automation system runs on solar power alone and electricity costs are thus reduced to zero.
- Ecosol is compatible with all BFT low voltage installations, either new or already installed.



Rolling code

Safe transmission system.

- BFT transmitters use a rolling code system that manages the commands in a completely secure way and prevents any type of external violation.
- When a transmitter key is pressed the command is sent to the control unit with a different code each time, identifiable only by the receiver and accepted only once.
- The algorithm generated then prevents the reproduction of the code.

D-TRACK

Dynamic path tracking

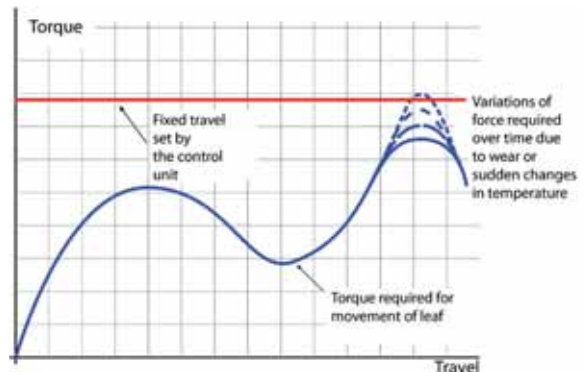
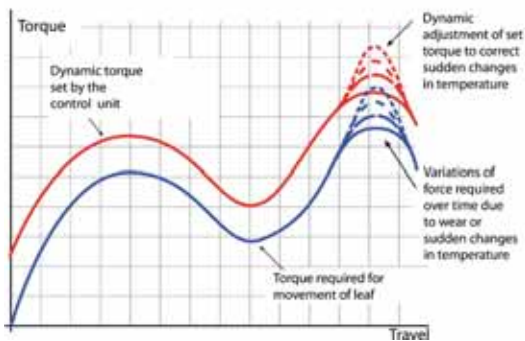
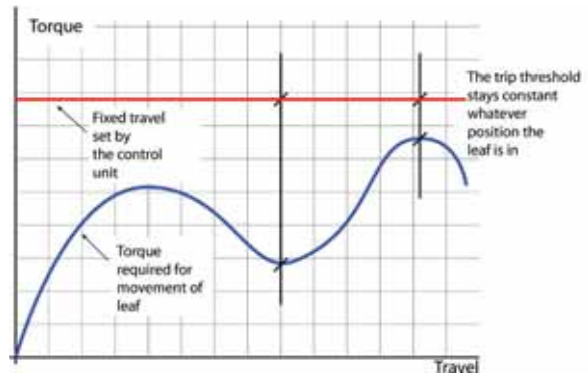
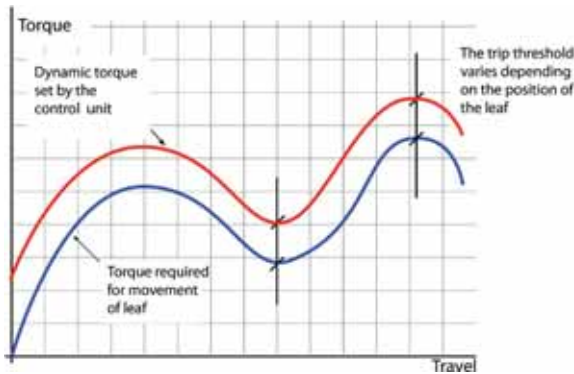
Intelligent torque management system based on the microprocessor technology of BFT control units.

The system acquires the data in different forms and then instantly sets the minimum thrust level required to run the cycle, in absolute safety conditions at all times. This also makes it easier for the installer to prepare for the required certification procedures.

Normal control units do not "read" the exact position of the gate and consequently apply constant thrust levels, without guaranteeing stable sensitivity during the opening and closing cycles.

BFT control units record the slightest variation in the gate or door force due to differences in temperature or wear, thus transmitting the optimum torque to the motor at all times. A normal control unit wouldn't be able to detect these thrust variations, which would result in it indicating the presence of non-existent obstacles.

The BFT system thus guarantees the maximum safety and perfect functioning of the equipment, no matter what the climactic and temperature conditions and degree of mechanical wear.



16 Bft certificates and protocols



Fast Net

Simpler installation:

Maximum number of devices connectable simultaneously:

- Maximum number of devices connectable simultaneously:
- Just two cables are needed to connect all the peripheral devices to the control unit
- All the devices in the same kit are already configured for immediate installation.
- The components can be connected as desired: serial, parallel, etc.
- The FAST NET blinker has a built-in antenna.
- The receiver can be installed either in the blinker or in the control unit.
- The photocells are synchronized to allow the installation of several pairs close together
- The kits are pre-programmed, so that no configuration is needed when connecting the corresponding accessories.
- The first additional accessory for each category is already pre-configured and can be connected directly to the bus.

Intelligent technology:

- The non-polarized twisted pair prevents connection errors during installation.
- The system is open; it automatically recognises the accessories installed and allows others to be added subsequently.
- BFT is the exclusive owner of the communication protocol, protected by international patent.

Safety in use:

- The devices monitored by the bus protocol are subject to automatic and constant verification.
- The photocells are synchronized.

Technical features

Maximum number of devices connectable simultaneously:

- 2 receivers
- 4 flashing lights
- 4 "start" buttons
- 4 "pedestrian" buttons
- 4 key switches.





Ee link

Easy, quick and sure programming.

EELINK is a programming system developed by BFT which, by means of connection to handheld programmers (Unipro, Uniradio and Proxima) makes it possible to transfer data from automatic systems to PCs and vice versa.

As a result, the EEdbase database of the information stored in the installed systems is constantly updated.

The database also makes it possible to associate personal details with every system: owner's name and address and details, name of maintenance engineer, name of radio remote control holder, etc.

With EELink, customer lists and preventive maintenance can be managed easily by simply pressing a few keys; potentially complex operations - such as the reconfiguration of the control unit or radio receiver in the event of replacement or the setting up of a control unit starting from a standard or customized configuration - become simpler.

Version 3 of EEdbase supports many of the functions of Compass access control systems.

Information managed by EELink for control panels

- operating parameters: work times, automatic closing time, phase displacement time, slowdown, torques, anti-crushing sensitivity
- operating logics: 2/4 steps, pulse blocking during opening, photocell operation during opening, fast closing, pre-alarm, deadman function, photocell checks
- operating statistics: number of cycles, number of cycles since last maintenance, date of last maintenance, identification of terminal that carried out the maintenance, name of system and version of software installed in control unit
- self-diagnostics: when in a state of rest, the control unit runs a check on the status of all the inputs connected to it, and if any of them are in a state other than the rest state, this is communicated to the connected handheld programmer
- default configuration: EELink makes it possible to restore all the control unit configurations to the factory default settings with a single command.

Information managed by EELink for radio receivers

- receiver capacity: number of transmitters the receiver can memorise
- configuration of outputs: monostable, bistable, timed
- system code: makes it possible to create clones of the saved radio control devices and manage installations with multiple receivers
- list of saved transmitters, their position in the memory and the association between receiver keys and outputs

Information managed by EELink for radio transmitters

- serial number of transmitter
- system code (for clones)

18 New

B LTA 24V or 230V blinker



B lta

- Design, innovation and superior engineering. These are the messages sent out by the new range of blinkers, which offer the perfect combination of style and efficiency, practicality and safety.
- A perfect example of the new design language implemented by Bft for its new products.
- Available in 24V or 230V versions, with or without built-in radio antenna
- The new blinkers can also be mounted on walls or columns, positioned vertically and, if appropriate, protected by a good-looking metal cage available as an accessory.

A-180 SW



A-180 sw

- 24V residential operator for gates up to 1.8 metres and 150 kg in weight.
- Maximum ease of installation guaranteed thanks to the new encoder limit switches and built-in mechanical stops
- Thanks to the D-Track system, the installations are always safe and in compliance with binding standards



New 19

A-300 SL



A-300 sl

- 24V residential operator for gates up to 300 kg in weight.
- Maximum ease of installation guaranteed thanks to the new self-adjusting encoder limit switches
- Thanks to the D-Track system, the installations are always safe and in compliance with binding standards

A-CELLULA FLX



A-cellula flx

- The new A-Cellula Flx photocell-blinker is based on an innovative integrated connection system: a world-first solution designed and developed by Bft, responding to safety category 2 as defined by EN 954-1.
- The new A-Cellula Flx photocell with integrated blinker saves expense in terms of both time and materials.
- In effect, not only is it no longer necessary to mount the blinker on the column or on the wall, but the correct alignment of the photocells is indicated by the blinking of the high visibility integrated Leds, which use minimal energy and are singularly unobtrusive.

20 New

THALIA P



Thalia p

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 240W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system , slowdown during opening and closing and electronic self-learning
- Main features: automatic closing, rapid closing, partial opening, operation with deadman feature, direct connection powered solenoid lock and electromagnet, direct connection edge 8K2.
- Compatibility: LIBRA C MA, LIBRA C LX

SUB BT



Sub bt

- Low voltage hydraulic operator for very intensive use, suitable for any type of residential, industrial or multi-residence application.
- Compact and sturdy, capable of automating swing gate leaves up to 2.5 metres wide and weighing up to 800 kg.
- Fitted with mechanical stops and virtual encoder, guaranteeing maximum anti-crushing safety thanks to the electronic slowdown and D-Track system

THALIA



Thalia

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R

GSM RECEIVER



Gsm receiver

- GSM receiver. Enables the operation of an automation system with a free phone call

22 New

HIDE SW



Hide sw

- Residential 24V operator for gates of up to 150 kg in weight, able to integrate completely within the jambs of swing gates.
- Disappearing completely, it enables keeping the look of the gates "clean" while remaining a fundamental element of operational performance.
- The Hide range is offered with every kind of accessory needed to complete the installation of the gate, including top and bottom hinges.

ELI 250 N



Eli 250 n

- Range of underground electromechanical operators for residential use, for swing gate leaves of up to 3.5 metres and 400 kg.
- The built-in mechanical stops for both opening and closing enable making the installation totally invisible thanks to having eliminated the stops on the ground.
- The magnetic limit switch system (BT) guarantees maximum precision and reliability in any climatic conditions.

SP3500



Sp3500

- Powerful, sturdy 400V three-phase operators, specially designed for large-size, heavy gates.
- The heavy gear motor structure, galvanized painted steel casing and on-board control unit make this the ideal solution for industrial situations where reliability and power are essential.

LUX BT



Lux bt

- Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application.
- Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg.
- Available in reversible and/or irreversible versions, with maximum anti-crushing safety guaranteed by the absolute encoder and exclusive D-Track system

24 **New**

PILLAR



Pillar

- Complete range of hydraulic and fixed automatic bollards for the protection and safety of any spaces requiring controlled access.
- Ideal for installation in paces of particular architectural interest such as town centres, where maximum reliability and long life are essential.

TOWER



Tower

- Complete range of hydraulic and fixed automatic anti-terrorist bollards for any spaces requiring maximum protection against the access of non-authorised vehicles.
- The strengthened steel structure guarantees maximum resistance to breakthrough, even by heavy vehicles such as trucks.



Sliding gate kit

A-300 SL KIT R920108 00001

- 24V residential operator for gates up to 300 kg in weight.
- Maximum ease of installation guaranteed thanks to the new self-adjusting encoder limit switches
- Thanks to the D-Track system, the installations are always safe and in compliance with binding standards

24V



The KIT includes

No. 1 - **A-300 SL**No. 1 - **GHIBLI**No. 1 - **A-CELLULA FLX**

Complementary accessories

Code	Name
1 D221073	CP rack
2 P121019	T-BOX radio digital keypad
3 D111879	12V four-channel transmitter 433 MHz rolling code
4 P111464	Pair of flashing photocells for ALISEO series operators



Sliding gate kit

DEIMOS BT KIT R925229 00002

- 24 V electromechanical operator for intensive use, for leaves up to 500 kg
- Spring-loaded (electromechanical) limit switch and electronic slowdown system
- Control unit (Qscd-Ma) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver

24V



The KIT includes

No. 1 - **DEIMOS BT**No. 2 - **MITTO 2 12V**No. 1 - **CELLULA 130**No. 1 - **RAY X 24V**

Complementary accessories

Code	Name
1 D221073	CP rack
2 P111273	Pair of CELLULA130 photocells
3 P903005	Pair of CC 130 posts
4 P121019	T-BOX radio digital keypad
5 N190104	BIR C rubber safety edge
6 P111410	DCW safety device
7 N190106	Pair of STR infrared sensors
8 P125002	Set of backup batteries for DEIMOS BT
9 D111750	MITTO 2 12 V dual channel transmitter
10 P123023	Wall mounting for RWS blinker



Sliding gate kit

DEIMOS KIT R925227 00002

- 230V electromechanical operator for semi-intensive use, for leaves up to 500 kg
- Electromechanical spring-loaded limit switch
- Control unit (ALPHA) with incorporated receiver



The KIT includes

No. 1 - DEIMOS	No. 2 - MITTO 2 12V	No. 1 - CELLULA 130
No. 1 - RAY X 230V		

Complementary accessories

Code	Name
1 D221073	CP rack
2 P111273	Pair of CELLULA130 photocells
3 P903005	Pair of CC 130 posts
4 P121019	T-BOX radio digital keypad
5 N190104	BIR C rubber safety edge
6 D111750	MITTO 2 12 V dual channel transmitter
7 P121017	SEK external key switch



Sliding gate kit

DEIMOS 700 KIT R925243 00002

- 230 V electromechanical operator for intensive use, for leaves up to 700 kg
- Electromechanical spring-loaded limit switch
- Control unit (ALPHA) with incorporated receiver



The KIT includes

No. 1 - DEIMOS 700	No. 2 - MITTO 2 12V	No. 1 - CELLULA 130
No. 1 - RAY X 230V		

Complementary accessories

Code	Name
1 D221073	CP rack
2 P111273	Pair of CELLULA130 photocells
3 P903005	Pair of CC 130 posts
4 P121019	T-BOX radio digital keypad
5 N190104	BIR C rubber safety edge
6 D111750	MITTO 2 12 V dual channel transmitter
7 P121017	SEK external key switch



Sliding gate kit

DEIMOS 300 BT KIT FAST NET EASY BUS R925241 00001

- 24 V electromechanical operator for intensive use, for leaves up to 300 kg
- Electromechanical spring-loaded limit switch
- Control unit (Nettuno S) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver

24V



The KIT includes

No. 1 - DEIMOS 300 BT NET	No. 1 - FL NET	No. 2 - MITTO 2 12V
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Complementary accessories

Code	Name
1 D221073	CP rack
2 P111382	Pair of FL NET photocells Dip switch bus addressing
3 P903005	Pair of CC 130 posts
4 P121019	T-BOX radio digital keypad
5 P121014	Key switch for FAST NET systems
6 P121015 00001	Interface for connecting standard buttons to FAST NET systems
7 N999389 00001	Connection cable for FAST NET system. Coil of 100 m
8 P125002	Set of backup batteries for DEIMOS BT



Sliding gate kit

DEIMOS BT FAST NET EASY BUS KIT R925236 00002

- 24V electromechanical operator for residential use, for leaves up to 500 kg
- Spring-loaded (electromechanical) limit switch and electronic slowdown system
- Control unit (Nettuno S) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver

24V



The KIT includes

No. 1 - DEIMOS BT NET	No. 1 - SW NET	No. 1 - LAMP NET
No. 1 - FL NET	No. 2 - MITTO 2 12V	m14 - FAST WIRE

Complementary accessories

Code	Name
1 D221073	CP rack
2 P111382	Pair of FL NET photocells Dip switch bus addressing
3 P903005	Pair of CC 130 posts
4 P121019	T-BOX radio digital keypad
5 P125002	Set of backup batteries for DEIMOS BT
6 D111750	MITTO 2 12 V dual channel transmitter



Electromechanical kit for swing gates

KIT HIDE SW R930138 00002

- Residential 24V operator for gates of up to 150 kg in weight, able to integrate completely within the jambs of swing gates.
- Disappearing completely, it enables keeping the look of the gates "clean" while remaining a fundamental element of operational performance.
- The Hide range is offered with every kind of accessory needed to complete the installation of the gate, including top and bottom hinges.



24V

The KIT includes

No. 2 - Kit Hide sw	No. 1 - LIBRA CB HIDE	No. 2 - MITTO 4 12V
No. 1 - CELLULA 130		

Complementary accessories

Code	Name
1 N999524	Bottom fixed hinge for the installation of HIDE SW series operator
2 N999526	Top articulated hinge for the installation of HIDE SW series operator
3 P903005	Pair of CC 130 posts
4 P121019	T-BOX radio digital keypad
5 P111273	Pair of CELLULA130 photocells
6 D111751	MITTO 4 12V



Electromechanical kit for swing gates

KIT VIRGO R930130 00001

- 24V electromechanical articulated arm operator for residential use, for leaves up to 2 m (200 kg)
- Control unit on-board motor with incorporated radio receiver; electric limit switches and built-in mechanical stops; anti-crushing system managed via control panel
- Opening up to 120° in 14 sec



24V

ecosol ((eR-Ready))

The KIT includes

No. 1 - VIRGO	No. 1 - VIRGO SQ	No. 2 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 24V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125008	VIRGO BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter
6 P123023	Wall mounting for RWS blinker



Electromechanical kit for swing gates

VIRGO FAST NET EASY BUS KIT R930133 00001

- 24V electromechanical operator for residential use, for leaves up to 2m (200kg)
- Control unit (Nettuno B) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver
- Maximum opening angle 120°, opening time 14 sec (90°)



24V

The KIT includes

No. 1 - VIRGO NET	No. 1 - VIRGO NET SQ	No. 1 - SW NET
No. 1 - LAMP NET	No. 1 - FL NET	No. 2 - MITTO 2 12V
m14 - FAST WIRE		

Complementary accessories

Code	Name
1 P111382	Pair of FL NET photocells Dip switch bus addressing
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125008	VIRGO BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter



Electromechanical kit for swing gates

IGEA BT KIT R935229 00002

- 24V electromechanical operators with articulated arm for residential use, for swing gate leaves of up to 2.5 metres and 250 kg.
- Ideal for installation on large-size pillars thanks to its articulated levers that allow opening up to 125°.



ecosol  ((E+Ready))

The KIT includes

No. 2 - IGEA BT	No. 1 - LIBRA C MA	No. 2 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 24V	

Complementary accessories

Code	Name
1 P125005	BT BAT buffer batteries
2 N574039	Outside wall-mounted safe with built-in control button and release knob



Electromechanical kit for swing gates

IGEA BT FAST NET EASY BUS KIT R935264 00001

- 24V electromechanical operator for residential use, for leaves up to 2.5m (250 kg)
- Control unit (Nettuno B) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver
- Maximum opening angle 125°, opening time 15 sec (90°)



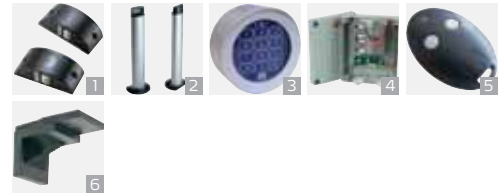
24V

The KIT includes

No. 2 - IGEA BT NET	No. 1 - NETTUNO B FAST NET EASY BUS	
No. 1 - LAMP NET	No. 1 - FL NET	No. 2 - MITTO 2 12V
m14 - FAST WIRE	No. 1 - SW NET	

Complementary accessories

Code	Name
1 P111382	Pair of FL NET photocells Dip switch bus addressing
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125005	BT BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter



Electromechanical kit for swing gates

ALISEO A-180 SW KIT R930134 00001

- 24V residential operator for gates up to 1.8 metres and 150 kg in weight.
- Maximum ease of installation guaranteed thanks to the new encoder limit switches and built-in mechanical stops
- Thanks to the D-Track system, the installations are always safe and in compliance with binding standards



24V

The KIT includes

No. 1 - A-180 SW	No. 1 - A-CTBOARD	No. 1 - GHIBLI
No. 1 - A-CELLULA FLX		

Complementary accessories

Code	Name
1 P111464	Pair of flashing photocells for ALISEO series operators
2 P121019	T-BOX radio digital keypad
3 D111879	12V four-channel transmitter 433 MHz rolling code



Electromechanical kit for swing gates

PHOBOS N L BT KIT R935254 00003

- 24V electromechanical operator for residential use, for leaves up to 5m (250 kg)
- Magnetic limit switches and anti-crushing system managed via control panel
- Total useful travel 410 mm, opening time 18 sec



24V

The KIT includes

No. 2 - PHOBOS N L BT	No. 1 - LIBRA C MA	No. 2 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 230V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125005	BT BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter
6 P123023	Wall mounting for RWS blinker



Electromechanical kit for swing gates

PHOBOS N L BT FAST NET EASY BUS KIT R935266 00001

- 24V electromechanical operator for residential use, for leaves up to 5m (250 kg)
- Control unit (Nettuno B) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver
- Total useful travel 410 mm, opening time 20 sec



24V

The KIT includes

No. 2 - PHOBOS N L BT NET	No. 1 - NETTUNO B FAST NET EASY BUS
No. 1 - LAMP NET	No. 1 - FL NET
m14 - FAST WIRE	No. 2 - MITTO 2 12V
	No. 1 - SW NET

Complementary accessories

Code	Name
1 P111382	Pair of FL NET photocells Dip switch bus addressing
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125005	BT BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter



Electromechanical kit for swing gates

KIT PHOBOS N L R935252 00003

- 230V electromechanical operator for residential use, for leaves up to 5m (250 kg)
- Torque limiter system managed via control panel
- Total useful travel 470mm, opening time 18 sec



The KIT includes

No. 2 - PHOBOS N L	No. 1 - ALTAIR P	No. 1 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 230V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 D111750	MITTO 2 12 V dual channel transmitter
5 P121017	SEK external key switch



Electromechanical kit for swing gates

KIT PHOBOS N BT R935247 00003

- 24V electromechanical operator for residential use, for leaves up to 5m (250 kg)
- Magnetic limit switches and anti-crushing system managed via control panel
- Total useful travel 295 mm, opening time 15 sec

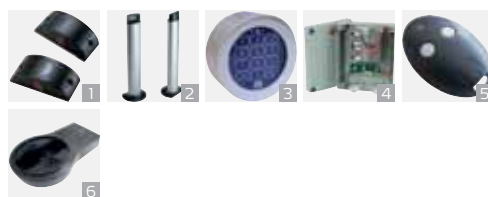


The KIT includes

No. 2 - PHOBOS N BT	No. 1 - LIBRA C MA	No. 2 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 24V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125005	BT BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter
6 P123023	Wall mounting for RWS blinker



Electromechanical kit for swing gates

PHOBOS N BT FAST NET EASY BUS KIT R935265 00001

- 24V electromechanical operator for residential use, for leaves up to 1.8 m (250 kg)
- Control unit (Nettuno B) with stop/reverse when encountering an obstacle (amperostop) and incorporated receiver
- Total useful travel 295 mm, opening time 15 sec



24V

The KIT includes

No. 2 - PHOBOS N L BT NET	No. 1 - NETTUNO B FAST NET EASY BUS	
No. 1 - LAMP NET	No. 1 - FL NET	No. 2 - MITTO 2 12V
m14 - FAST WIRE	No. 1 - SW NET	

Complementary accessories

Code	Name
1 P111382	Pair of FL NET photocells Dip switch bus addressing
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125005	BT BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter



Electromechanical kit for swing gates

KIT PHOBOS N R935251 00003

- 230V electromechanical operator for residential use, for leaves up to 1.8m (250 kg)
- Torque limiter system managed via control panel
- Total useful travel 305 mm, opening time 15 sec



((CR-Ready))

The KIT includes

No. 2 - PHOBOS N	No. 1 - ALTAIR P	No. 2 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 230V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 D111750	MITTO 2 12 V dual channel transmitter
5 P123023	Wall mounting for RWS blinker



Hydraulic kit for swing gates

KIT LUX BT 2B R935263 00001

- 24V non reversible hydraulic operator (convertible to reversible) for intensive use, for leaves up to 2 m (300 kg)
- Absolute encoder limit switch, anti-crushing system, slowdown during opening and closing and self-learning system managed via control panel
- Total useful travel 270 mm, opening time 17 sec; double joint



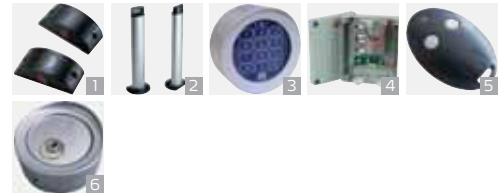
24V

The KIT includes

No. 2 - LUX BT 2B	No. 1 - LIBRA C LX QSG2	No. 1 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 24V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 P125005	BT BAT buffer batteries
5 D111750	MITTO 2 12 V dual channel transmitter
6 P121017	SEK external key switch



Hydraulic kit for swing gates

LUX MB KIT R935217 00002

- 230V hydraulic operator with locking on closure for intensive use, for leaves up to 2.3 m (300 kg)
- Anti-crushing safety provided by two adjustable bypass valves
- Total useful travel 270 mm, opening time 23 sec



The KIT includes

No. 2 - LUX MB	No. 1 - ALPHA SD	No. 1 - MITTO 2 12V
No. 1 - INTRO	No. 1 - CELLULA 130	No. 1 - RAY X 230V

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 D111750	MITTO 2 12 V dual channel transmitter



Hydraulic kit for swing gates

KIT ORO R935210 00011

- 230V hydraulic operator with locking on closure for residential use, for leaves up to 1.8 m (180 kg)
- Anti-crushing safety provided by two adjustable bypass valves
- Total useful travel 250 mm, opening time 20 sec



The KIT includes

No. 2 - ORO	No. 1 - ALCOR N	No. 2 - MITTO 2 12V
No. 1 - CELLULA 130	No. 1 - RAY X 230V	

Complementary accessories

Code	Name
1 P111273	Pair of CELLULA130 photocells
2 P903005	Pair of CC 130 posts
3 P121019	T-BOX radio digital keypad
4 D111750	MITTO 2 12 V dual channel transmitter
5 P123023	Wall mounting for RWS blinker



Industrial door automation kit

PEGASO C UP TRI KIT R965001 00003

- Irreversible electromechanical operator for sectional doors of maximum surface area 45 sq m.
- The absolute encoder guarantees maximum stopping precision and is able to manage two supplementary limit switches.
- Available with 230V single phase or 400V three-phase power supply.



The KIT includes

No. 1 - PEGASO C TRI 400V	No. 1 - PEG CB UP TRI	No. 1 - PEGASO CABLE TRI
No. 1 - PEGASO UP CONTROL 5		

Complementary accessories

Code	Name
1 P121017	SEK external key switch
2 D113721 00002	Blinker without antenna for 230V motors



Industrial door automation kit

PEGASO SC UP KIT R965002 00002

- Irreversible electromechanical operator for sectional doors of maximum surface area 45 sq m.
- The absolute encoder guarantees maximum stopping precision and is able to manage two supplementary limit switches.
- Available with 230V single phase or 400V three-phase power supply.



The KIT includes

No. 1 - PEGASO SC 230V	No. 1 - PEG CB UP MONO	No. 1 - PEGASO CABLE MONO
No. 1 - PEGASO UP CONTROL 5		

Complementary accessories

	Code	Name
1	P121017	SEK external key switch
2	D113721 00002	Blinker without antenna for 230V motors



QUICKIT ACCESS 01

N500000

Description

Simple and cost-effective entry control system that allows entering the property by means of a small transponder to attach to a keyring.



The KIT includes

No. 1 - **COMPASS SLIM**

No. 1 - **SCS WIE**

No. 4 - **COMPASS - RING**

QUICKIT ACCESS 02

N500001

Description

Enables entering the property by keying in a code on a metal vandal-proof keypad.

Enables not having to use a remote control or keys when leaving the property, for example, on foot or by bicycle



The KIT includes

No. 1 - **SELETTO E**

No. 1 - **SCS WIE**

QUICKIT EXPANSION 01

N500007

Description

Kit for expanding the radio system of a BFT system



The KIT includes

No. 2 - **MITTO 4 12V**

No. 1 - **T-BOX**

QUICKIT EXPANSION 02

N500008

Description

Kit for expanding the radio system of a BFT system with a receiver to control power accessories outside the automation system such as garden lights, watering, pond pumps, etc.



The KIT includes

No. 2 - MITTO 4 12V	No. 1 - CLONIX 4 RTE
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QUICKIT HAND FREE 01

N500002

Description

Enables controlling a BFT residential installation with PASSY by BFT.



The KIT includes

No. 1 - PASSY ANTENNA OMNI	No. 2 - PASSY TRANSPONDER
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QUICKIT HAND FREE 02

N500003

Description

Enables controlling a BFT collective/commercial/ industrial installation with PASSY by BFT.



The KIT includes

No. 2 - PASSY ANTENNA MONO	No. 30 - PASSY TRANSPONDER
-----------------------------------	-----------------------------------

QUICKIT HAND FREE INTEGRATION 01

N500004

Description

Enables controlling an existing, not necessarily BFT, residential installation with PASSY by BFT.



The KIT includes

No. 1 - **PASSY ANTENNA OMNI**

No. 2 - **PASSY TRANSPONDER**

No. 1 - **CLONIX 2E**

QUICKIT HAND FREE INTEGRATION 02

N500005

Description

Enables controlling an existing, not necessarily BFT, collective/commercial/industrial installation with PASSY by BFT.



The KIT includes

No. 2 - **PASSY ANTENNA MONO**

No. 30 - **PASSY TRANSPONDER**

No. 1 - **CLONIX 2E**

QUICKIT INTEGRATION 01

N500006

Description

Enables controlling an existing, not necessarily BFT, installation with MITTO by BFT remote controls.



The KIT includes

No. 2- **MITTO 4 12V**

No. 1 - **CLONIX 2E**

QUICKIT UNIVERSAL 01

N500009

Description

Residential safety kit for 24V systems, also for non-BFT installations



The KIT includes

No. 1 - RAY X 24V	No. 2 - CELLULA 130		
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QUICKIT UNIVERSAL 03

N500010

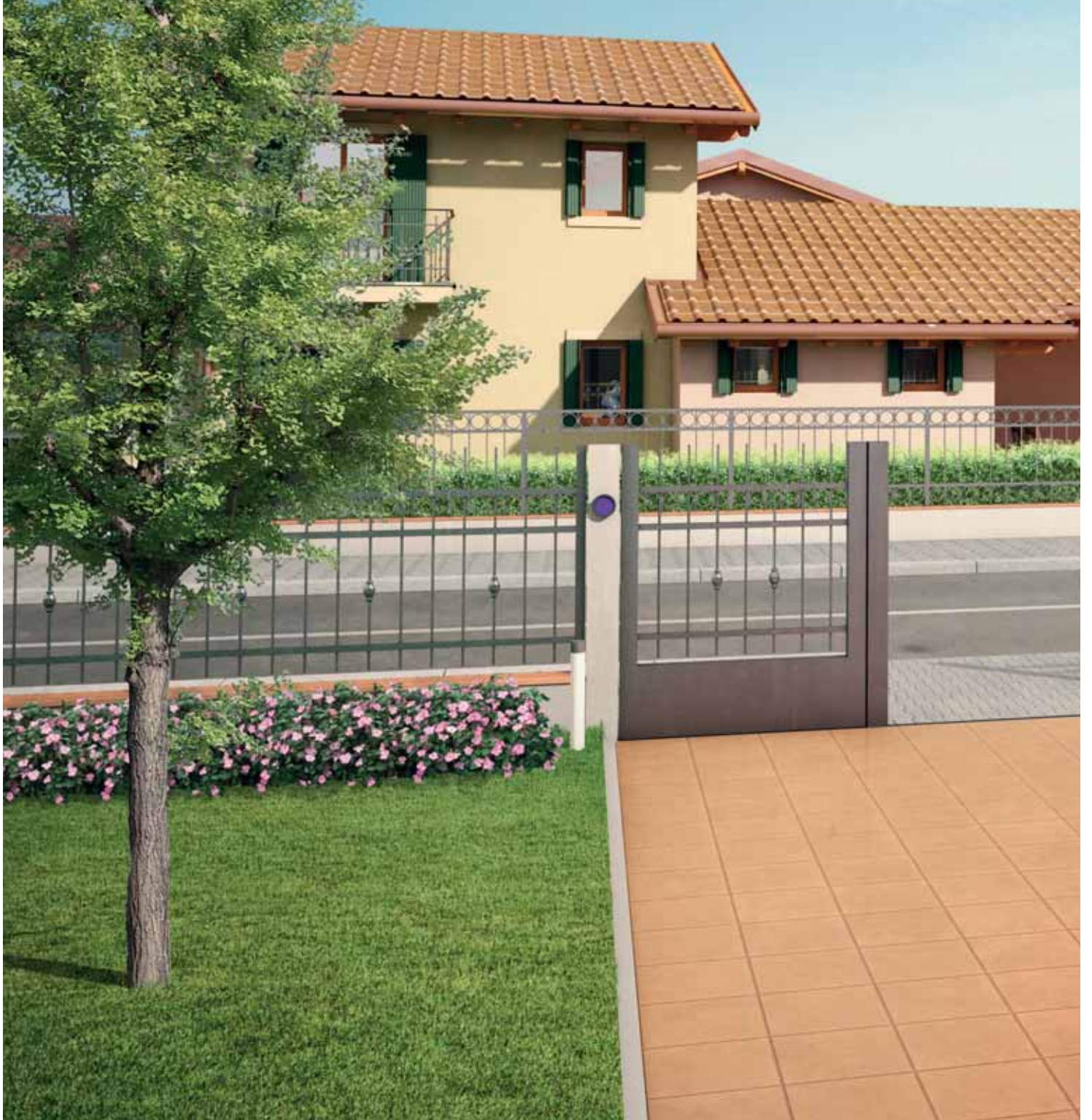
Description

Collective/industrial safety kit for 230V systems, also for non-BFT installations



The KIT includes

No. 1 - RAY X 230V	No. 1 - RWS	No. 1 - PCR	
No. 2 - CELLULA 180	No. 2 - DCW COVER		



Slide gate automation systems





Slide gate automation systems

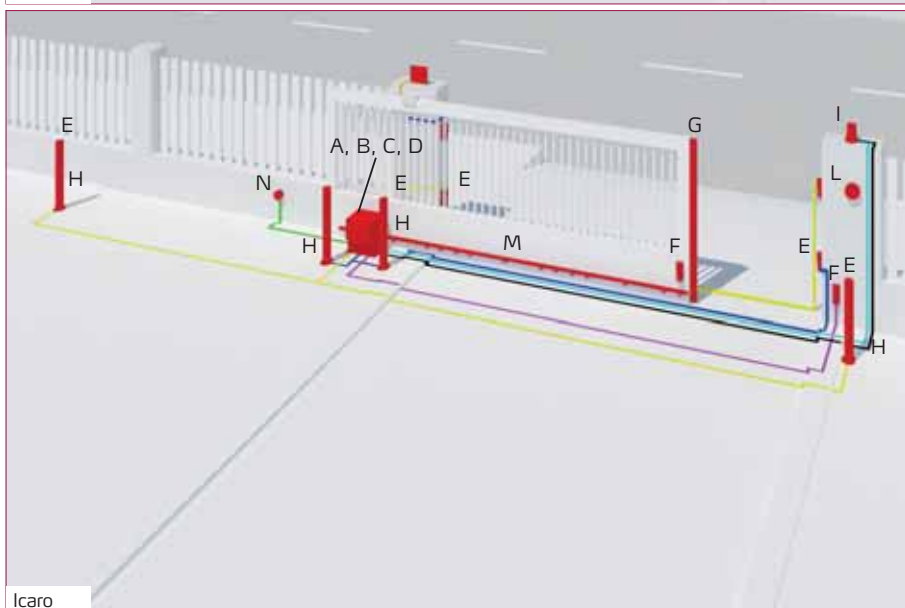
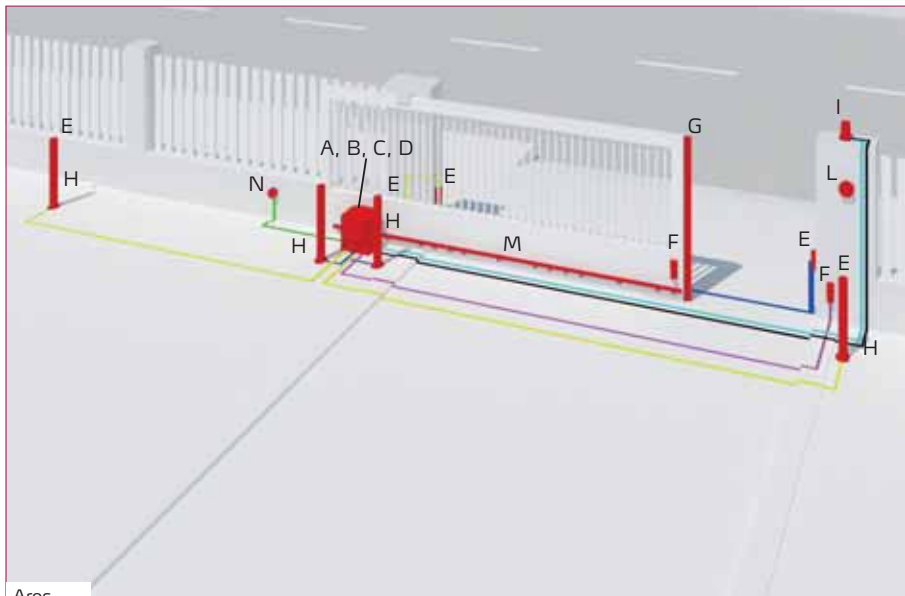
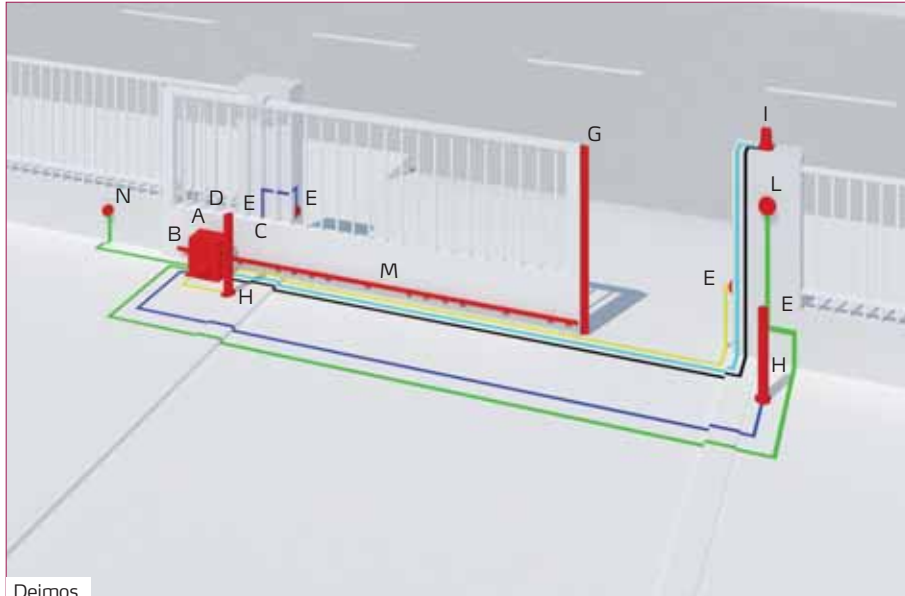
BFT automation systems for slide gates are made to measure and designed to withstand the most severe atmospheric conditions.

The systems are full life-cycle tested, extremely practical and designed for simple, instant maintenance, guaranteeing maximum reliability even if subject to continuous use, and total user safety in accordance with European regulatory requirements.

Guide to choosing

	Leaf max weight	Voltage	Frequency of use	Kits	Operator	pag.
slide gate	300kg	24V	Intensive	•	KIT A-300 SL	48
	500kg	230V	Semi-intensive	•	KIT DEIMOS	50
			Semi-intensive	-	DEIMOS	50
			Semi-intensive	-	DEIMOS PROX	50
			Semi-intensive	-	DEIMOS PROX	50
	500kg	24V	Intensive	-	DEIMOS BT	50
			Intensive	•	KIT DEIMOS BT	50
			Intensive	-	DEIMOS BT PROX	50
	700kg	230V	Semi-intensive	-	DEIMOS 700	50
	800kg		Semi-intensive	-	DEIMOS 800 F	50
	1000kg	24V	Intensive	-	ARES 1000	52
	1500kg		Intensive	-	ARES 1000 PROX	52
			Intensive	-	ARES 1500	52
			Intensive	-	ARES 1500 PROX	52
	2000kg	230V	Very-intensive	-	ICARO MA	54
Very-intensive			-	ICARO MA PROX	54	
3500kg	400V	Very-intensive	-	SP3500 TRI 230V	56	
		Very-intensive	-	SP3500 TRI 400V	56	
4000kg	230V	Very-intensive	-	SP4000 TRI 400V	56	

A	Operator
B	Control unit
C	Backup Batteries
D	Receiver
E	Photocell
F	Photocell safety edge
G	Sensitive edge
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
M	Rack
N	Junction box
	2x1.5
	3x1.5
	RG 58
	5x1
	2x1
	9x0.5





Slide gate automation systems associations

	ALPHA	RIGEL 5 SD	QSC D MA	NETTUNO S	HQSC-D	LEO D MA	SIRIO TEL
DEIMOS BT			Built-In				
DEIMOS 700	Built-In	Compatible					
DEIMOS 800 F	Built-In	Compatible					
DEIMOS	Built-In	Compatible					
DEIMOS BT NET				Built-In			
ARES 1000					Built-In		
ARES 1500					Built-In		
ICARO MA						Built-In	
SP3500 TRI							Built-In
SP4000 TRI							Built-In

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator
Built-in	Installed and partially wired inside the operator

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
E5	
E6	
E7	
E8	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board

	ALPHA	RIGEL 5 SD	QSC D MA	NETTUNO S	HQSC-D	LEO D MA	SIRIO TEL
MOTORS POWER SUPPLY							
Motor 1 TRIF output							•
Motor 1 230V output	•					•	
Motor 2 230V output		•					
Motor 1 24V output			•	•	•		
Motor 2 24V output							
LIMIT SWITCH INPUTS							
Single for Opening	•		•	•	•		•
Single for Closing	•		•	•	•		•
Separate Inputs for Opening		•					
Separate Inputs for Closing		•					
Encoder							
CONTROLS INPUTS							
Start	•	•	E1	E1	•	•	•
Pedestrian Start		•	•	E1	•	•	
Internal Start		•					
Open		•		E2	•	•	•
Close		•	E1	E2	•	•	
Timer		E1				•	
Pedestrian Timer		E1					
EMERGENCY STOP							
Stop	•	•	•	E2	•	•	•
SAFETY SYSTEMS INPUTS							
Photocells	•		•			•	E1
Photocells for Opening		E2		•	•	•	
Photocells for Closing		•		•			
Photocells Inputs Check		•		•	•	•	
Safety Edge		E2	•	Opt.	•	•	E1
8K2 Safety Edge							
Safety Edges Inputs Check		•	•			•	
AUXILIARY INPUTS/OUTPUTS							
Blinker		•	•	•	•	•	•
Courtesy Light		E4					
Zone Light		E4					
Stairs Light		E5					
Solenoid Lock	Opt.	E6					
Electromagnet		E6					
Gate Open Warning Light	E1	E7	E2	•	E1	E1	•
Second Radio Channel	E1	E7	E2	•	E1	•	•
Alarm		E5				E1	
MOTORS CONTROLS							
Torque Control		•	•	•	•	•	
Obstacle Recognition		•	•	•	•	•	
Dynamic Path Tracking					•	•	
Speed Control		•			•	•	
Slowdown Control		•	•	•	•	•	
Speed and Slowdown Control		•		•	•		
Brake		•				•	
Opening Delay Control		•					
Closing Delay Control		•					
Backup Batteries Connection			•	•	•		
ICE Function			•		•		
Self Setting				•			
FUNCTIONS							
Automatic Re-closing Control (TCA)	•	•	•	•	•	•	•
Open Pulse Blocking	•	•	•	•	•	•	•
TCA Pulse Blocking		•			•		•
Close Pulse Blocking		•					
Photocell Trigger Setting	•	•	•		•	•	•
Fast Close	•			•	•	•	
Pre-Alarm		•	•	•	•	•	
2 Steps		E8					E2
3 Steps	•		E3	E	E2	E2	
4 Steps	•	E8	E3	E	E2	E2	E2
Deadman Feature		•	•	Opt.	•	•	•
Closing Stop Pressure		•	•		•		
Water Hammer							
Traffic-Light Management		Opt.					
MISCELLANEOUS							
Accessories power supply 24V	200 mA	1 A	180mA	500 mA	180mA	1 A	1 A
Antenna	•	•	•	•	•	•	•
Built-in Receiver	•	•	•	•	•	•	•
Learning via Radio Commands	•	•	•	•	•	•	•
EE-Link	•	•	•	•	•	•	•
ER-Ready	•	•	•	•	•	•	•
Self-Diagnosis	PRO	•	•	•	•	•	•
Statistics Management	PRO	•	•	PRO	PRO	PRO	•
Central Commands Management		Opt.	Opt.		Opt.	Opt.	
Conformity to EN 12453-EN12445		•	•	•	•	•	•

Description

24V residential operator for gates up to 300 kg in weight.
 Maximum ease of installation guaranteed thanks to the new self-adjusting encoder limit switches
 Thanks to the D-Track system, the installations are always safe and in compliance with binding standards



D-TRACK

24V

((€R-Ready))

Encoder and exclusive D-Track force management system for safe installations in all conditions, even under changing weather conditions.

Blinker integrated in the photoelectric cells for the fastest installation

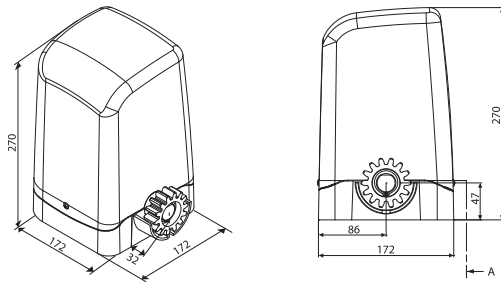
Fast and extra easy programming, by simply pressing a button the operator automatically adjusts the: force, stopping positions and slowing down positions



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Legend
R920108 00001	KIT A-300 SL	■	24V	300kg	A

Dimensions



	A-300 SL
Control unit	A-CTBOARD SL
Power supply	24V
Power input	50W
Gate speed	13m/min
Type of limit switch	Encoder
Pinion module	M4 (Z14)
Pinion rotation speed	74rpm
Slowdown	Yes
Impact reaction	D-Track
Locking	Mechanical
Release	Lever-operated with triangular key
Frequency of use	Intensive
Environmental conditions	from -20°C to 50°C
Actuator weight	4.4kg



Description

Range of residential operators, extremely simple to install and totally safe to use thanks to their full compliance with current European standards. Available with either 24V or 230V motors and either electromechanical or inductive limit switches.



Control unit with programming display and D-Track torque, speed and position management and control system in 24V versions. Incorporated dual channel radio receiver




Proximity limit switches for accurate, safe installations in any environmental conditions.



Backup battery power supply system, installable on-board unit (24V versions).




Summary table

Code	Name	Kits	Voltage	Leaf max weight	Legend
P925197 00001	DEIMOS		230V	500kg	A
P925196 00001	DEIMOS 700		230V	700kg	A
P925200 00002	DEIMOS 800 F		230V	800kg	A
P925178 00005	DEIMOS BT		24V	500kg	A
 P925236 00002	KIT DEIMOS BT FAST NET EASY BUS	■	24V	500kg	A
P925178 00006	DEIMOS BT PROX		24V	500kg	A
P925197 00003	DEIMOS PROX		230V	500kg	A
R925227 00002	KIT DEIMOS	■	230V	500kg	A
R925229 00002	KIT DEIMOS BT	■	24V	500kg	A

• new

Accessories

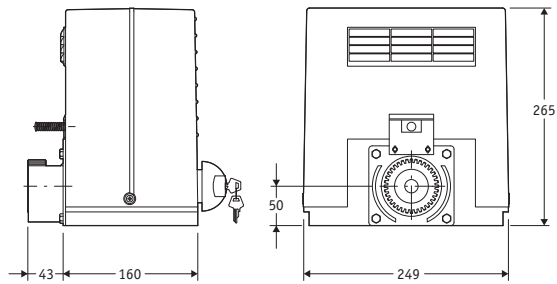
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 generic p. 232

Kit p.26

Dimensions



	DEIMOS	DEIMOS PROX	DEIMOS 700	DEIMOS 800 F	DEIMOS BT	DEIMOS BT NET	DEIMOS BT PROX
Control unit	ALPHA				QSC-D MA	NETTUNO S	QSC-D MA
Power supply	230V	230V	230V	230V	24V	24V	24V
Power input	270W	270W	290W	290W	70W	70W	70W
Gate speed	8.5m/min	8.5m/min	8.5m/min	8.5m/min	12m/min	12m/min	12m/min
Type of limit switch	Electromechanical	Inductive	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Inductive
Pinion module	4 (Z14)	4 (Z14)	4 (Z14)	4 (Z14)	4 (Z14)	4 (Z14)	4 (Z14)
Pinion rotation speed	48rpm	48rpm	48rpm	48rpm	79rpm	79rpm	79rpm
Slowdown	No	No	No	No	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Knob with triangular key	Knob with triangular key	Knob with triangular key	Knob with triangular key	Knob with triangular key	Knob with triangular key	Knob with triangular key
Frequency of use	Semi-intensive	Semi-intensive	Semi-intensive	Semi-intensive	Intensive	Intensive	Intensive
Environmental conditions	from -15°C to 60°C						
Actuator weight	11kg	11kg	15kg	15kg	7kg	7kg	7kg



Description

24V slide gate operators for very intensive use; extremely simple to install and totally safe to use, thanks to their full compliance with current European standards.
The D-Track torque control system combined with the virtual encoder guarantee maximum precision in the control of the gate movement and the detection of obstacles.



((ER-Ready)) **D-TRACK**

Monoblock gear motor structure guaranteeing maximum resistance and performance in any installation conditions



Proximity limit switches for accurate, safe installations in any environmental conditions.



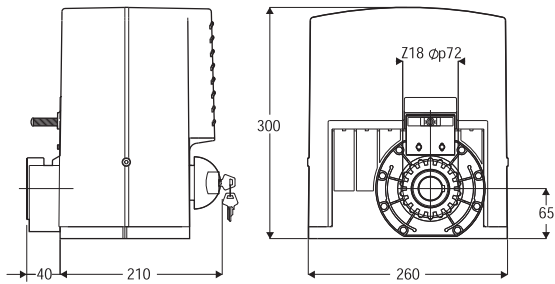
Control unit with programming display and D-Track torque, speed and position management and control system in 24V versions. Incorporated dual channel radio receiver



Summary table

	Code	Name	Kits	Voltage	Leaf max weight	Legend
	P926183 00002	ARES 1000		24V	1000kg	A
	P926183 00004	ARES 1000 PROX		24V	1000kg	A
	P926182 00002	ARES 1500		24V	1500kg	A
	P926182 00004	ARES 1500 PROX		24V	1500kg	A

Dimensions

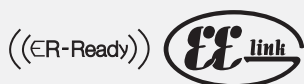


	ARES 1000	ARES 1000 PROX	ARES 1500	ARES 1500 PROX
Control unit	HQSC-D			
Manual cycle	Non reversing	Non reversing	Non reversing	Non reversing
Power supply	24V	24V	24V	24V
Power input	240W	240W	250W	250W
Gate speed	9m/min	9m/min	9m/min	9m/min
Type of limit switch	Electromechanical	Inductive	Electromechanical	Inductive
Pinion module	4 (Z18)sec.	4 (Z18)sec.	4 (Z18)sec.	4 (Z18)sec.
Pinion rotation speed	39rpm	39rpm	39rpm	39rpm
Slowdown	Yes	Yes	Yes	Yes
Impact reaction	D-Track	D-Track	D-Track	D-Track
Locking	Mechanical	Mechanical	Mechanical	Mechanical
Release	Knob operated with personal key	Knob operated with personal key	Knob operated with personal key	Knob operated with personal key
Frequency of use	Intensive	Intensive	Intensive	Intensive
Environmental conditions	from -15°C to 60°C			
Actuator weight	7kg	7kg	7kg	7kg



Description

230V slide gate operators for very intensive use, extremely sturdy and high-performance. The control unit with its exclusive torque control system gives complete control over safety, in total conformity with binding European standards.



D-TRACK

Monoblock gear motor structure guaranteeing maximum resistance and performance in any installation conditions



Proximity limit switches for accurate, safe installations in any environmental conditions.



Control unit with programming display and D-Track torque, speed and position management and control system in 24V versions. Incorporated dual channel radio receiver



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Legend
P925180 00006	ICARO MA		230V	2000kg	A
P925180 00003	ICARO MA PROX		230V	2000kg	A

Accessories

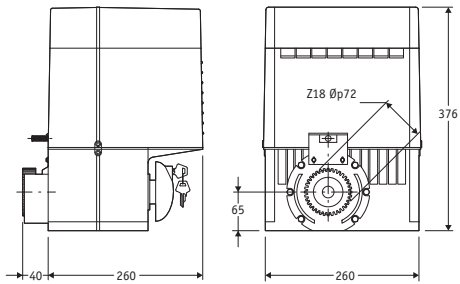
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Dimensions

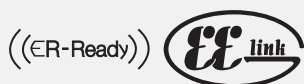


	ICARO MA	ICARO MA PROX
Control unit	LEO D MA	
Power supply	230V	230V
Power input	750W	750W
Gate speed	9m/min	9m/min
Type of limit switch	Electromechanical	Inductive
Pinion module	4 (Z18)	4 (Z18)
Pinion rotation speed	37rpm	37rpm
Slowdown	Yes	Yes
Impact reaction	D-Track	D-Track
Locking	Mechanical	Mechanical
Release	Knob operated with personal key	Knob operated with personal key
Frequency of use	Very-intensive	Very-intensive
Environmental conditions	from -10°C to 60°C	
Actuator weight	25kg	25kg



Description

Powerful, sturdy 400V three-phase operators, specially designed for large-size, heavy gates. The heavy gear motor structure, galvanized painted steel casing and on-board control unit make this the ideal solution for industrial situations where reliability and power are essential.



Hydrodynamic joint for gentler starts and stops, whilst guaranteeing maximum torque delivery.



Travel limits can be adjusted simply with the lever arm electromechanical limit switch system, giving absolute precision in stopping.



The on-board control unit makes installation fast and neat, with no need for external control panels



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Legend
P925207 00002	SP3500 TRI 230V		230V	3500kg	A
P925207 00001	SP3500 TRI 400V		400V	3500kg	A
P925169 00001	SP4000 TRI 400V		400V	4000kg	A

• new

Accessories

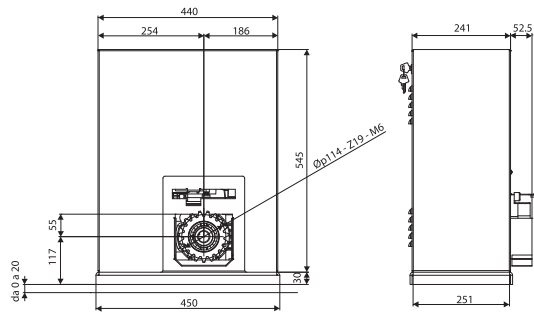
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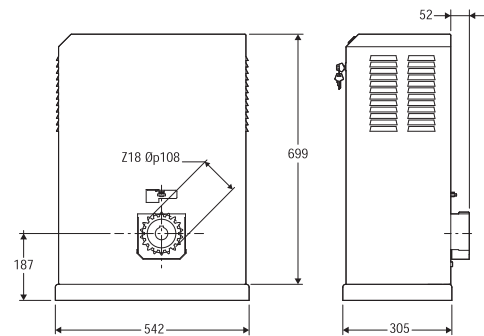
generic p. 232

Kit p.26

Dimensions



SP3500



SP4000

	SP4000 TRI 400V	SP3500 TRI 230V	SP3500 TRI 400V
Control unit	SIRIO TEL		
Power supply	400V	230V	400V
Power input	750W	550W	550W
Gate speed	9m/min	10.5m/min	10.5m/min
Type of limit switch	Electromechanical	Electromechanical	Electromechanical
Pinion module	6 (Z18)	6 (Z19)	6 (Z19)
Pinion rotation speed	30rpm	28rpm	28rpm
Slowdown	No	No	No
Impact reaction	No	No	No
Locking	Mechanical	Mechanical	Mechanical
Release	Hexagonal key	Hexagonal key	Hexagonal key
Frequency of use	Very intensive	Very intensive	Very intensive
Environmental conditions	from -15°C to 55°C		
Actuator weight	86kg	54kg	54kg



58 Product accessories

A-300 SL



A-300 SL BAT P125017

Set of backup batteries for A-300 SL series operators



GHIBLI D111879

12V four-channel transmitter 433 MHz rolling code-12V four-channel transmitter 433 MHz rolling code



A-CELLULA FLX P111464

Pair of flashing photocells for ALISEO series operators-Pair of flashing photocells for ALISEO series operators

E

ARES



BT BAT2 P125009

Set of backup batteries for ARES

C



SFI N999156

Base plate for ARES and ICARO (supplied with motor)

DEIMOS



SB BAT P125002

Set of backup batteries for DEIMOS BT

C



SFD N999151

Base plate for DEIMOS series (supplied with operator)

ICARO



SFI N999156

Base plate for ARES and ICARO (supplied with motor)

SP3500 / SP4000



SFSP P125015

new

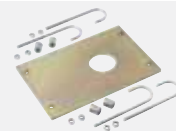
adjustable base plate for SP3500



SAFETY MICROSWITCH P125016

new

Safety microswitch for SP3500



BASP P125001

Base plate for SP4000 (supplied with operator)

 <p>B</p>	<p>RIGEL 5 D113693 00003</p> <p>Universal control panel for one or two 230V operators</p>		
 <p>M</p>	<p>CP D221073</p> <p>Plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots</p>	 <p>M</p>	<p>CVZ D571053</p> <p>Steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw-fitted on supports (supplied)</p>
 <p>M</p>	<p>CVZ-S N999320</p> <p>Steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports (supplied)</p>	 <p>M</p>	<p>CFZ D571054</p> <p>Galvanized steel rack for welding, 22x22 mm, 4-module, cross-section from 2 m</p>
 <p>M</p>	<p>CFZ6 D571491</p> <p>Galvanized steel rack for welding, 30x30 mm, 6-module, cross-section from 2 m</p>		
 <p>B</p>	<p>SCS 1 P111376</p> <p>Available while stock lasts</p>	 <p>B</p>	<p>SCS WIE P111408</p> <p>Available while stock lasts</p>
 <p>B</p>	<p>SCS 1 MA P111377</p> <p>Available while stock lasts</p>	 <p>B</p>	<p>B EBA 201 R04 P111469</p> <p>Expansion board for Blue-Tooth connection</p>
 <p>B</p>	<p>B EBA 201 R03 P111467</p> <p>Expansion board for WIEGAND devices connection</p>	 <p>B</p>	<p>B EBA 201 R01 P111468</p> <p>Expansion board for serial control central groups connection</p>



60 Family accessories



G

VENTIMIGLIA NS P111401 00001

Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)



G

BIR C N190104

Rubber safety edge (H 30 mm), price per m



G

CM1000 P111050

Mechanical safety edge, length 1 m

CM1500 P111051

Mechanical safety edge, length 1.5 m

CM1700 P111052

Mechanical safety edge, length 1.7 m

CM2000 P111053

Mechanical safety edge, length 2 m

CM3000 P111054

Mechanical safety edge, length 3 m

CM4000 P111055

Mechanical safety edge, length 4 m

CM5000 P111056

Mechanical safety edge, length 5 m



G

BAR C 2 P111450 00002

Double profile rubber safety edge (L 2000 x H 60 mm)

BAR C 4 P111450 00004

Double profile rubber safety edge (L 4000 x H 60 mm)

BAR C 6 P111450 00006

Double profile rubber safety edge (L 6000 x H 60 mm)



G

CSP 10 N190039

















Rubber shock absorber profile length 1000 mm

CSP 20 N190040

Rubber shock absorber profile length 2000 mm











CSP 25 N190041

Rubber shock absorber profile length 2500 mm

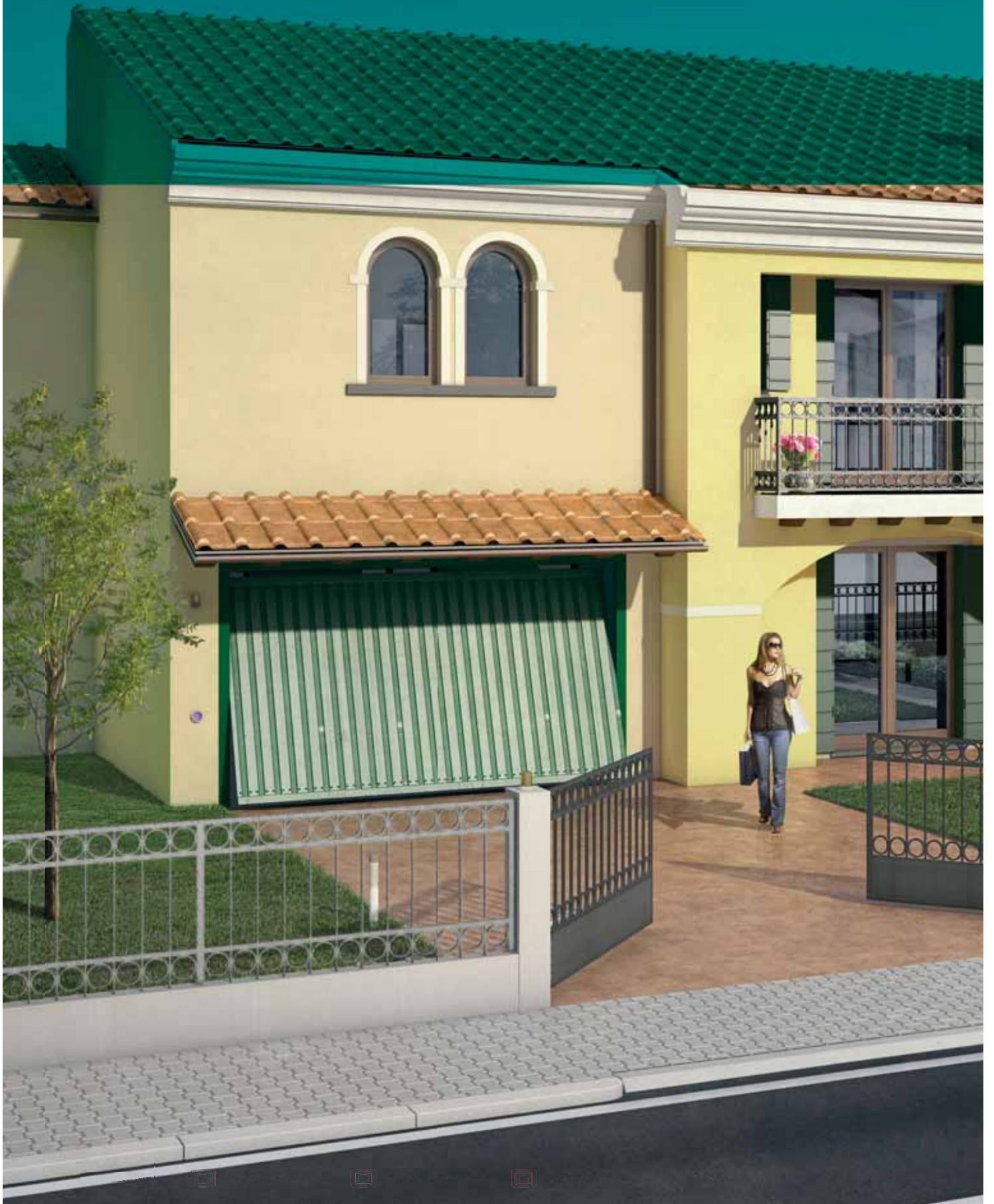
	<p>RAY X 230V D113719 00002 Blinker with built-in antenna for 230V motors</p>		<p>RAY X 24V D113719 00003 Blinker with built-in antenna for 24V motors</p>
	<p>RWS P123023 Wall mounting for RAY X series blinkers</p>		<p>B LTA 230 R1 D113748 00002 Blinker with built-in antenna for 230V motors</p>
	<p>B LTA 230 R2 D113749 00002 Blinker without antenna for 230V motors</p>		<p>B LTA 024 R1 D113748 00003 Blinker with built-in antenna for 24V motors</p>
	<p>B LTA 024 R2 D113749 00003 Blinker without antenna for 24V motors</p>		<p>B 00 R01 P123026 Metal guard for B LTA</p>
	<p>B 00 R02 P123025 Wall mounting for B LTA series blinkers</p>		
	<p>MITTO 2 12V D111750 12V two-channel transmitter 433 MHz rolling code</p>		<p>MITTO 4 12V D111751 12V four-channel transmitter 433 MHz rolling code</p>
	<p>MITTO 2 REPLAY D111841 12V 2-channel transmitter, copyable with rolling code</p>		<p>MITTO 4 REPLAY D111842 12V 4-channel transmitter, copyable with rolling code</p>
	<p>SEK P121017 External key selector switch with vandal-proof metal frame</p>		<p>T-BOX P121019 Wireless digital keypad 433 MHz Rolling code</p>
	<p>RB P121016 4-channel wall-mounted radio control with rolling code</p>		



62 Family accessories

 E	CELLULA 130 P111273 Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc	 E	CELLULA 50 P111272 Pair of built-in adjustable photocells (range 30 m) Power supply 24V ac
 E	CELLULA 180 P111452 Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc	 E	CELLULA RFL P111391 Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)
 E	S RFLP P111409 Reflector and support for wall mounting and mounting on CC post for CELLULA RFL	 E	DCW P111410 Wireless photocell with possibility of managing infrared or resistive safety edge
 G	STR N190106 Pair of infrared sensors for DCW		
	FAST WIRE N999389 00001 Connection cable for FAST NET system. Coil of 100 m		
	LEONARDO KIT P111386 BFT impact measurer		LEONARDO KIT BLUETOOTH P111387 BFT Bluetooth impact measurer





Automation systems For swing gates





Automation systems For swing gates Hydraulic

A wide range of operators designed to respond to the multiple needs of swing gates. BFT automation systems are suitable for any type of gate - heavy, light, residential or industrial - and combine maximum ease of installation with absolute reliability and total safety, in full compliance with European standards.

hydraulics
swing
gates

Leaf max length	Leaf max weight	Maximum angle	Voltage	Frequency of use	Kits	Operator	pag.		
1.8m	180kg	112°	230V	Semi-intensive	-	ORO	70		
				Semi-intensive	-	ORO KIT	70		
		123°	24V	Intensive	-	LUX BT 2B	72		
				Intensive	-	LUX BT 2B KIT	72		
			230V	Semi-intensive	-	LUX	74		
				Semi-intensive	-	LUX B	74		
				Semi-intensive	-	LUX 2B	74		
				Semi-intensive	-	LUX FC 2B	74		
				Semi-intensive	-	LUX R 2B SN2	74		
				Semi-intensive	-	LUX WINTER	74		
				Semi-intensive	-	LUX SA	74		
				Semi-intensive	-	LUX BA	74		
		2.2m	300kg	123°	230V	Semi-intensive	-	LUX R2B	74
						Semi-intensive	-	LUX 2B WINTER	74
2.3m	300kg	123°	230V	Semi-intensive	-	LUX R	74		
				Semi-intensive	-	LUX RSN2	74		
2.5m	200kg	112°	230V	Semi-intensive	-	LUX MB	74		
				Semi-intensive	-	LUX MB KIT	74		
3.5m	300kg	123°	230V	Semi-intensive	-	ORO E	70		
				Semi-intensive	-	LUX GV	74		
				Semi-intensive	-	LUX GV-B	74		
				Semi-intensive	-	LUX GV-2B	74		
				Semi-intensive	-	LUX G WINTER	74		
4m	500kg	123°	230V	Semi-intensive	-	LUX GV R WINTER	74		
	300kg			Semi-intensive	-	LUX L	74		
				Semi-intensive	-	LUX GV-R	74		
4.5m	500kg	123°	230V	Semi-intensive	-	LUX LR	74		
				Intensive	-	P4,5	76		
5m	800kg	113°	24V	Intensive	-	P4,5 WINTER	76		
		130°	230V	Semi-intensive	-	LUX G BT 2B	72		
7m	500kg	123°	230V	Semi-intensive	-	LUX G	74		
				Intensive	-	P7	76		
				Intensive	-	P7 WINTER	76		

underground
hydraulic
swing gates

Leaf max length	Leaf max weight	Maximum angle	Voltage	Frequency of use	Kits	Operator	pag.
1.8m	800kg	180°	230V	Very intensive	-	SUB G SC DX	78
				Very intensive	-	SUB G SC SX	78
				Very intensive	-	SUB R SC DX	78
				Very intensive	-	SUB R SC SX	78
				Very intensive	-	SUB SC DX	78
				Very intensive	-	SUB SC SX	78
		130°	230V	Very intensive	-	SUB EG SC DX	78
				Very intensive	-	SUB EG SC SX	78
				Very intensive	-	SUB R SC WINTER DX	78
				Very intensive	-	SUB R SC WINTER SX	78
				Very intensive	-	SUB ER SC DX	78
				Very intensive	-	SUB ER SC SX	78
			24V	Very intensive	-	SUB E R SC WINTER DX	78
				Very intensive	-	SUB E R SC WINTER SX	78
				Very intensive	-	SUB BT	80
				Very intensive	-	SUB EL SC DX	78
				Very intensive	-	SUB EL SC SX	78
				Very intensive	-	SUB E SC DX	78
3.5m	800kg	130°	230V	Very intensive	-	SUB E SC SX	78
				Very intensive	-	SUB E SC SX	78

Accessories

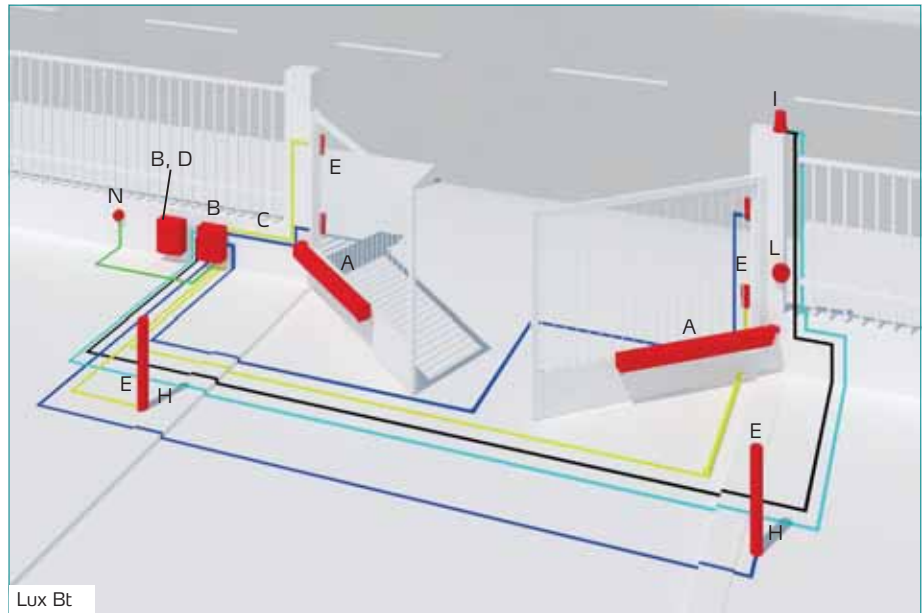
of product p. 98

of family p. 101

generic p. 232

Kit p.26

A	Operator
B	Control unit
C	Backup Batteries
D	Receiver
E	Photocell
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
	2x1.5
	3x1.5
	RG 58
	5x1
	2x1



Lux Bt



Swing gates automation systems associations

	ALPHA SD	ALCOR N	RIGEL 5 SD	ALTAIR P	LINX	LIBRA C MA	LIBRA C LX	THALIA	A-CT BOARD SW	THALIA P
ORO	Compatible	Recommended	Recommended							
LUX	Compatible	Recommended	Recommended							
LUX BT							Recommended			Compatible
SUB	Compatible	Recommended	Recommended							
P7-P4,5	Compatible	Recommended	Recommended							
PHOBOS N - NL			Compatible	Recommended						
PHOBOS N BT- N L BT						Compatible		Recommended		Recommended
E5	Compatible	Recommended	Recommended							
ELI250			Compatible	Recommended		Compatible				
ELI250BT								Recommended		Recommended
VIRGO					Built-in					
IGEA			Compatible	Recommended						
IGEA BT						Compatible		Recommended		Recommended
ALISEO A-180 SW									Recommended	
SUB BT										Recommended

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator
Built-in	Installed and partially wired inside the operator

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
E5	
E6	
E7	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board

	ALPHA SD	ALCOR N	RIGEL 5 SD	ALTAIR P	LINX	LIBRA C MA	LIBRA C LX	THALIA	A-CT BOARD SW	THALIA P
MOTORS POWER SUPPLY										
Motor 1 230V output	•	•	•	•						
Motor 2 230V output		•	•	•						
Motor 1 24V output					•	•	•	•	•	•
Motor 2 24V output					•	•	•	•	•	•
LIMIT SWITCH INPUTS										
Single for Opening	•	E1								
Single for Closing	•	E2								
Separate Inputs for Opening			•		•	•		•		•
Separate Inputs for Closing			•		•	•		•		•
Encoder							•	•	•	•
CONTROLS INPUTS										
Start	•	•	•	E1	•	E1	•	•	•	•
Pedestrian Start		E1	•	E2	•	•	•	•	•	•
Internal Start			•					•		•
Open		E2	•	E1		E1	•	•	•	•
Close		E1	•	E2			•	•	•	•
Timer			E1					•		•
Pedestrian Timer			E1							•
EMERGENCY STOP										
Stop	•	•	•	•	•	•	•	•	•	•
SAFETY SYSTEMS INPUTS										
Photocells	•	•	•	•	•	•	•	•	•	•
Photocells for Opening			E1					•		•
Photocells for Closing			•					•		•
Photocells Inputs Check			•		•	•	•	•	•	•
Safety Edge			E1				•	•		•
8K2 Safety Edge			•				•	•		•
Safety Edges Inputs Check			•				•	•		•
AUXILIARY INPUTS/OUTPUTS										
Blinker			•	•	•	•	•	•	•	•
Courtesy Light			E4					•		•
Zone Light			E4					•		•
Stairs Light			E5					•		•
Solenoid Lock	Opt.	Opt.	E6	Opt.	Opt.	Opt.	Opt.	•		•
Electromagnet			E6					•		•
Gate Open Warning Light	E1	E3	E7	E3	E1	E2	E1	•		•
Second Radio Channel	E1	E3	E7	E3	E1	E2	E1	•		•
Alarm			E5							•
MISCELLANEOUS										
Accessories power supply 24V	200 mA	200 mA	1 A	200 mA	180 mA	180 mA	180 mA	180 mA	180 mA	1 A
Antenna	•	•	•	•	•	•	•	•	•	•
Built-in Receiver	•	•	•	•	•	•	•	•	•	•
Learning via Radio Commands	•	•	•	•	•	•	•	•	•	•
EE-Link	•	•	•	•	•	•	•	•	•	•
ER-Ready	•	•	•	•	•	•	•	•	•	•
Self-Diagnosis	PRO	PRO	•	•	•	•	•	•	•	•
Statistics Management	PRO	PRO	•	•	•	•	•	•	•	•
Central Commands Management			•	•	•	•	•	•	•	•
Conformity to EN 12453-EN12445			•		•	•	•	•	•	•
MOTORS CONTROLS										
Torque Control			•	•	•	•	•	•	•	•
Obstacle Recognition					•	•	•	•	•	•
Dynamic Path Tracking							•	•	•	•
Speed Control							•	•	•	•
Slowdown Control			•		•	•	•	•	•	•
Speed and Slowdown Control					•	•	•	•	•	•
Brake			•							
Opening Delay Control			•		•	•	•	•		•
Closing Delay Control		•	•	•	•	•	•	•		•
Backup Batteries Connection			•		•	•	•	•	•	•
ICE Function										
Self Setting					•	•	•	•	•	•
FUNCTIONS										
Automatic Re-closing Control (TCA)	•	•	•	•	•	•	•	•	•	•
Open Pulse Blocking	•	•	•	•	•	•	•	•	•	•
TCA Pulse Blocking			•				•	•		•
Close Pulse Blocking			•				•	•		•
Photocell Trigger Setting	•	•	•	•	•	•	•	•	•	•
Fast Close	•		•	•	•	•	•	•	•	•
Pre-Alarm			•	•	•	•	•	•	•	•
2 Steps			•				•	•		•
3 Steps	•	•	•	•	•	•	•	•	•	•
4 Steps	•	•	•	•	•	•	•	•	•	•
Deadman Feature			•				•	•		•
Closing Stop Pressure		•			•	•				•
Traffic-Light Management			Opt.				Opt.	Opt.		Opt.



Description

Extremely compact, sturdy hydraulic operators for residential and small multi-residential use.

Capable of automating swing gate leaves up to 2.5 metres wide and weighing up to 200 kg.

Available in both reversible and irreversible versions. Maximum precision in force control guaranteed by by-pass valves.

All the reliability and power of hydraulics in an extremely small-size, compact unit.



In the ORO version, the brass release valve allows the gate to be opened manually in the event of a power cut, and in the ORO E version it simplifies the manual cycle.



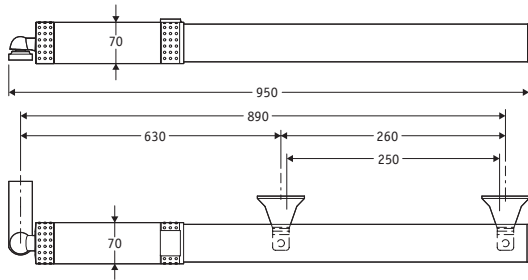
All-aluminium structure with high-resistance anodising treatment.



Summary table

Code	Name		Kits	Voltage	Leaf max weight	Leaf max length	Legend
P935059 00001	ORO			230V	180kg	up to 1.8m	A
P935058 00001	ORO E			230V	200kg	up to 2.5m	A
R935222 00002	ORO KIT		■	230V	180kg	up to 1.8m	A

Dimensions



Technical features

	ORO	ORO E
Control unit	ALCOR N	
Power supply	230V	230V
Power input	240W	240W
Useful rod stroke	250mm	250mm
Maximum angle	112°	112°
Cycle time	27sec.	20sec.
Slowdown	No	No
Impact reaction	Hydraulic clutch	Hydraulic clutch
Locking	Hydraulic closing	Solenoid Lock
Release	Triangle key	Reversible
Frequency of use	Semi-intensive	Semi-intensive
Environmental conditions	from -10°C to 60°C	
Actuator weight	5.3kg	5.3kg

ALCOR N

Control panel for one or two 230V/300W operators for swing gates



B

ALCOR N D113706 00002

- Application: control panel for one or two swing gate operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 300W max each operator
- Main features: removable terminal blocks, settings controlled by potentiometers, fault signalling LEDs and incorporated dual channel receiver
- Main functions: stays locked when closed, 3/4 step logic, partial opening, separate opening/closing
- Compatibility: ALCOR SD



Description

Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application. Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg. Available in reversible and/or irreversible versions, with maximum anti-crushing safety guaranteed by the absolute encoder and exclusive D-Track system

24V

((€R-Ready))



Thanks to the exclusive selectable locking system, all 2B operators can be switched to reversible, with locking when open, locking when closed or double locking. This can all be done by simply turning a key.

The absolute encoder, installed in all 24V versions, guarantees maximum stopping precision in the closing and opening limit switches, and makes it possible to control the torque by means of the D-Track system.


Control unit with display and new, simplified scenario-based programming.




Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
P935079 00001	LUX BT 2B		24V	300kg	2m	A
R935263 00001	LUX BT 2B KIT	■	24V	300kg	2m	A
P935083 00001	LUX G BT 2B		24V	800kg	5m	A

Accessories

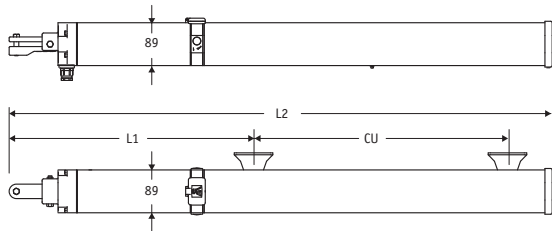
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Kit p.26

Dimensions



	L1	CU	L2
LUX BT 2B	715 mm	270 mm	1116 mm
LUX G BT 2B	932 mm	392 mm	1381 mm

Technical features

	LUX BT 2B	LUX G BT 2B
Control unit	LIBRA C LX	
Power supply	24V	24V
Power input	300W	300W
Useful rod stroke	270mm	392mm
Maximum angle	113°	130°
Cycle time	17sec.	19sec.
Slowdown	Yes	Yes
Impact reaction	D-Track	D-Track
Locking	Open/close hydraulics	Open/close hydraulics
Release	Triangle key	Triangle key
Frequency of use	Very intensive	Very intensive
Environmental conditions	from -10°C to 60°C	
Actuator weight	8.4kg	12.9kg

LIBRA C LX QSG2

Control panel for one or two LUX BT series operators



B

LIBRA C LX QSG2 D113715 00002

- Application: control panel for one or two operators for swing gates (LUX BT)
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc
- Main features: removable terminal blocks, programming with display and incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning, D-TRACK torque control system, traffic-light management possible with SCS IO and TLB boards
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature, pulse blocking, separate opening/closing
- Control panel for one or two LUX BT series operators



Description

Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application. Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg. Available in both reversible and irreversible versions, with maximum precision in torque control guaranteed by by-pass valves.

The slowdown during closing (R versions) guarantees silent, smooth movements on even the biggest gates. Also, the adjustment screw makes it possible to adapt the slowdown intensity to needs of each situation.

The by-pass valves, in the 230V versions, allow the exact setting of the torque separately and independently for opening and closing.

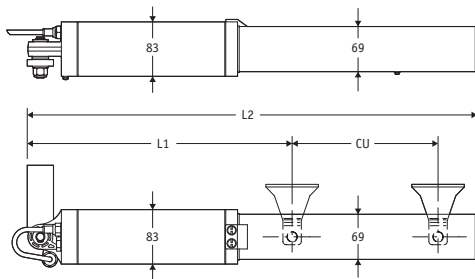
All-aluminium structure with high-resistance anodising treatment.



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
P935009 00001	LUX		230V	300kg	2m	A
P935011 00001	LUX 2B		230V	300kg	2m	A
P935011 00028	LUX 2B WINTER		230V	300kg	2m	A
P935010 00001	LUX B		230V	300kg	2m	A
P935027 00001	LUX BA		230V	300kg	2m	A
P935039 00001	LUX FC 2B		230V	300kg	2m	A
P935013 00001	LUX G		230V	800kg	5m	A
P935013 00022	LUX G WINTER		230V	800kg	5m	A
P935014 00001	LUX GV		230V	300kg	3.5m	A
P935050 00003	LUX GV R WINTER		230V	300kg	3.5m	A
P935014 00005	LUX GV-2B		230V	300kg	3.5m	A
P935014 00002	LUX GV-B		230V	300kg	3.5m	A
P935050 00001	LUX GV-R		230V	300kg	3.5m	A
P935012 00001	LUX L		230V	500kg	4m	A
P935049 00001	LUX LR		230V	500kg	4m	A
P935035 00001	LUX MB		230V	300kg	2.3m	A
R935217 00002	LUX MB KIT	■	230V	300kg	2.3m	A
P935044 00001	LUX R		230V	300kg	2.2m	A
P935046 00002	LUX R 2B SN2		230V	300kg	2m	A
P935046 00001	LUX R2B		230V	300kg	2m	A
P935044 00002	LUX RSN2		230V	300kg	2.2m	A
P935025 00001	LUX SA		230V	300kg	2m	A
P935009 00025	LUX WINTER		230V	300kg	2m	A

Dimensions



	L1	CU	L2
LUX	715 mm	270 mm	1025 mm
LUX 2B	715 mm	270 mm	1025 mm
LUX B	715 mm	270 mm	1025 mm
LUX FC 2B	850 mm	390 mm	1300 mm
LUX G	850 mm	390 mm	1300 mm
LUX L	715 mm	270 mm	1025 mm
LUX R 2B SN2	710 mm	250 mm	1050 mm

Technical features

	LUX	LUX 2B	LUX B	LUX FC 2B	LUX G	LUX L	LUX MB	LUX R 2B SN2	LUX WINTER	LUX 2B WINTER
Control unit	ALCOR N, RIGEL5									
Power supply	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V
Power input	250W	250W	250W	250W	250W	250W	250W	250W	250W	250W
Useful rod stroke	270mm	270mm	270mm	280mm	390mm	270mm	270mm	250mm	270mm	270mm
Maximum angle	123°	123°	123°	123°	130°	123°	123°	123°	123°	123°
Cycle time	17sec.	17sec.	17sec.	17sec.	48sec.	33sec.	23sec.	16+ slowdown sec.	17sec.	17sec.
Slowdown	No	No	No	No	No	No	No	Yes	No	No
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	Solenoid Lock	Open/close hydraulics	Hydraulic closing	Open/close hydraulics	Solenoid Lock	Solenoid Lock	Hydraulic closing	Open/close hydraulics	Solenoid Lock	Open/close hydraulics
Release	Reversible	Triangle key	Triangle key	Triangle key	Triangle key	Reversible	Triangle key	Triangle key	Reversible	Triangle key
Frequency of use	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive
Environmental conditions	from -10°C to 60°C								from -30°C to 60°C	
Actuator weight	8.7kg	8.7kg	8.7kg	8.7kg	13.2kg	8.7kg	8.7kg	8.7kg	8.7kg	8.7kg

RIGEL 5

Universal control panel for one or two 230V operators



B

RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators



Description

Extremely sturdy, reliable hydraulic operators for residential and multi-residential use. Capable of automating swing gate leaves up to 7 metres wide and weighing up to 500 kg. Smooth, silent gate movements are guaranteed by the extremely high-performance hydraulic system and the closing slowdown. Maximum precision in traction and thrust force control is guaranteed by the by-pass valve system.

The rear articulated brackets and jointed rod make installation simple and reliable in all situations.



The brass release knob, protected with a personal key, facilitates the manual opening of the gate in the event of a power cut.



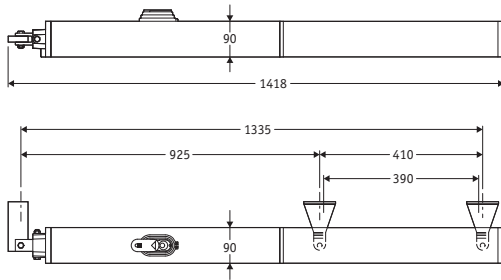
The closing slowdown guarantees silent, smooth movements on even the biggest gates. Also, the adjustment screw makes it possible to adapt the slowdown intensity to needs of each situation.



Summary table

Code	Name	Voltage	Leaf max weight	Gate leaf length	Legend
P935061 00001	P4,5	230V	500kg	up to 4.5m	A
P935061 00004	P4,5 WINTER	230V	500kg	up to 4.5m	A
P935060 00001	P7	230V	500kg	up to 7m	A
P935060 00004	P7 WINTER	230V	500kg	up to 7m	A

Dimensions



Technical features

	P4,5	P7
Control unit	ALCOR N, RIGEL5	
Manual cycle	Reversible	Reversible
Power supply	230V	230V
Power input	250W	250W
Useful rod stroke	390mm	390mm
Maximum angle	123°	123°
Cycle time	28+slowdownsec.	42+slowdownsec.
Slowdown	During closing	During closing
Impact reaction	Hydraulic clutch	Hydraulic clutch
Locking	Solenoid Lock	Solenoid Lock
Frequency of use	Very intensive	Very intensive
Environmental conditions	from -10°C to 60°C	
Actuator weight	12.25kg	12.25kg

RIGEL 5 Universal control panel for one or two 230V operators



B

RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators



Description

Complete range of low voltage underground hydraulic operators for very intensive use, suitable for any type of residential, industrial or multi-residence application. Compact and sturdy, capable of automating swing gate leaves up to 3.5 metres wide and weighing up to 800 kg. Available in both reversible and irreversible versions, with or without slowdown during opening and closing and with opening angles up to 180°.

The monoblock structure gives the possibility of a very neat installation that is extremely reliable over time.

The closing slowdown guarantees silent, smooth movements on even the biggest gates. Also, the adjustment screw makes it possible to adapt the slowdown intensity to needs of each situation.

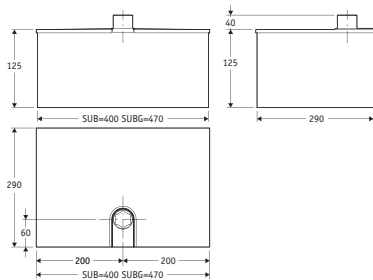
Control unit with programming display and new, simplified scenario-based programming



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
P930013 00011	SUB E R SC WINTER DX		230V	800kg	2.5m	A
P930013 00012	SUB E R SC WINTER SX		230V	800kg	2.5m	A
P930009 00004	SUB E SC DX		230V	800kg	3.5m	A
P930009 00005	SUB E SC SX		230V	800kg	3.5m	A
P930011 00005	SUB EG SC DX		230V	800kg	1.8m	A
P930011 00006	SUB EG SC SX		230V	800kg	1.8m	A
P930014 00005	SUB EL SC DX		230V	800kg	3.5m	A
P930014 00006	SUB EL SC SX		230V	800kg	3.5m	A
P930013 00007	SUB ER SC DX		230V	800kg	2.5m	A
P930013 00008	SUB ER SC SX		230V	800kg	2.5m	A
P930010 00005	SUB G SC DX		230V	800kg	1.8m	A
P930010 00006	SUB G SC SX		230V	800kg	1.8m	A
P930012 00005	SUB R SC DX		230V	800kg	1.8m	A
P930012 00006	SUB R SC SX		230V	800kg	1.8m	A
P930012 00009	SUB R SC WINTER DX		230V	800kg	1.8m	A
P930012 00010	SUB R SC WINTER SX		230V	800kg	1.8m	A
P930026 00001	SUB SC DX		230V	800kg	1.8m	A
P930026 00002	SUB SC SX		230V	800kg	1.8m	A

Dimensions



Technical features

	SUB EL SC	SUB ER SC	SUB G SC	SUB R SC	SUB R SC WINTER	SUB SC
Control unit	ALCOR N, RIGEL5					
Power supply	230V	230V	230V	230V	230V	230V
Power input	250W	250W	250W	250W	250W	250W
Maximum angle	130°	130°	180°	130°	130°	130°
Cycle time	33sec.	14+slowdownsec.	33sec.	14+slowdownsec.	14+slowdownsec.	24sec.
Slowdown	No		No			No
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	Solenoid Lock	Solenoid Lock	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics
Release	Reversible	Reversible	Triangle key	Triangle key	Triangle key	Triangle key
Frequency of use	Very intensive use	Very intensive use	Very intensive use	Very intensive use	Very intensive use	Very intensive use
Environmental conditions	from -10°C to 60°C				from -30°C to 60°C	from -10°C to 60°C
Actuator weight	22kg	22kg	24kg	22kg	22kg	22kg

RIGEL 5 Universal control panel for one or two 230V operators



B

RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators



Description

Low voltage hydraulic operator for very intensive use, suitable for any type of residential, industrial or multi-residence application.
 Compact and sturdy, capable of automating swing gate leaves up to 2.5 metres wide and weighing up to 800 kg.
 Fitted with mechanical stops and virtual encoder, guaranteeing maximum anti-crushing safety thanks to the electronic slowdown and D-Track system

D-TRACK

24V

((ER-Ready))



The monoblock structure gives the possibility of a very neat installation that is extremely reliable over time.



Fully adjustable mechanical stops inside the operator



Control unit with programming display and new, simplified scenario-based programming



Summary table

Code	Name		Kits	Voltage	Leaf max weight	Leaf max length	Legend
P930123 00001	SUB BT			24V	800kg	2.5m	A

Accessories

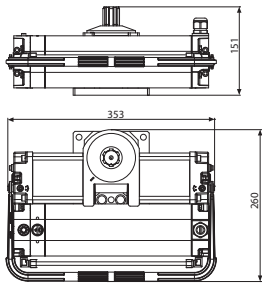
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Dimensions



Technical features

	SUB BT
Control unit	THALIA P
Power supply	24V
Power input	300W
Opening angle	120°
Cycle time	13sec.
Slowdown	Yes
Impact reaction	D-Track
Locking	Open/close hydraulics
Release	Triangle key or lever
Frequency of use	Intensive
Environmental conditions	from -20°C to 60°C
Actuator weight	17.5kg

THALIA P 230V

Control panel for one or two 24V operators for swing gates



B

THALIA P 230V D113747 00002

new

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 240W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main features: automatic closing, rapid closing, partial opening, operation with deadman feature, direct connection powered solenoid lock and electromagnet, direct connection edge BK2.
- Compatibility: LIBRA C MA, LIBRA C LX



Automation systems

For swing gates

Electromechanical

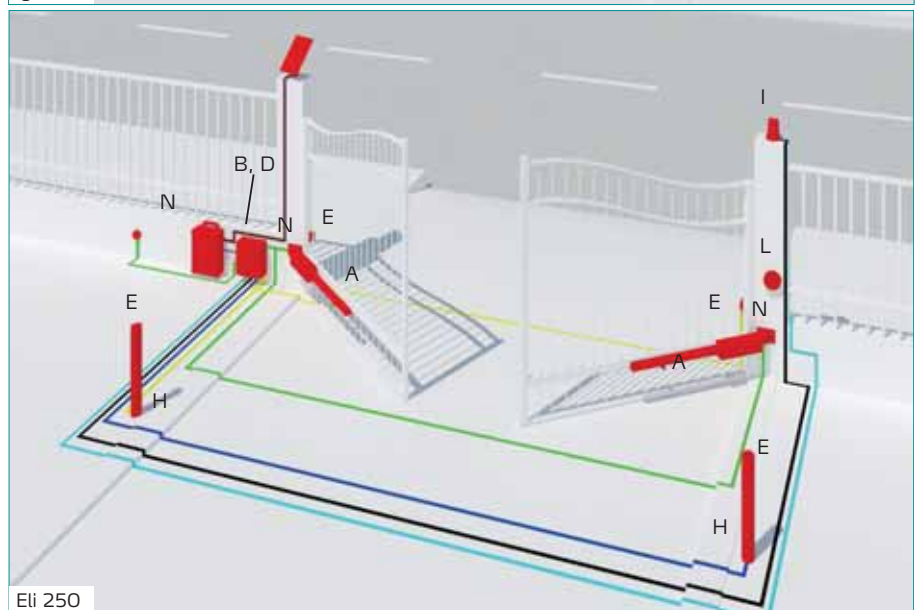
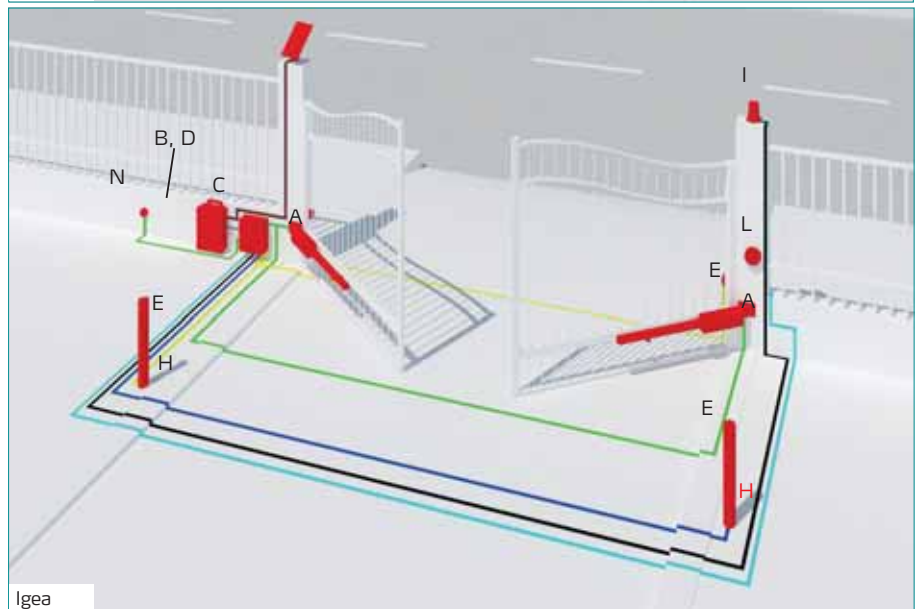
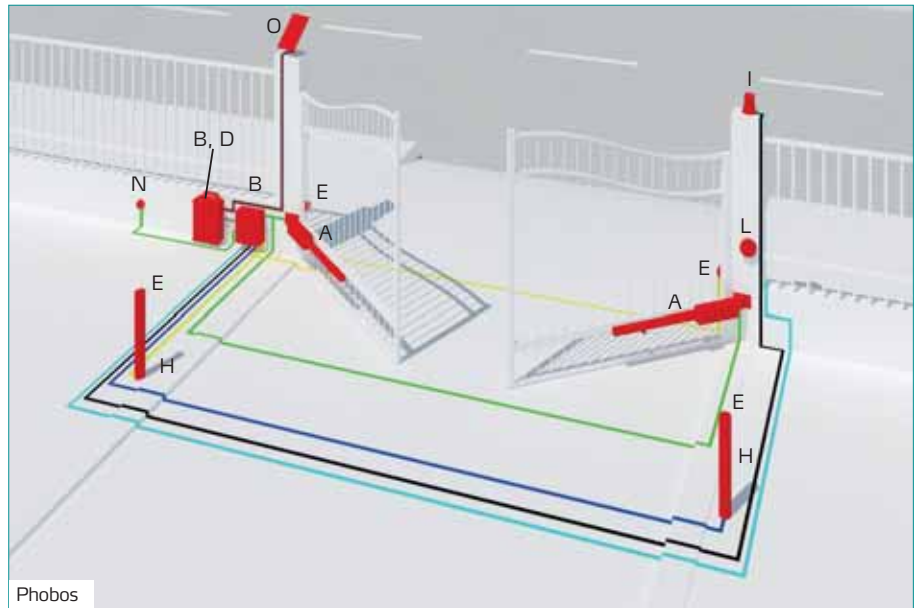
BFT automation systems for swing gates are easy to install and ensure maximum safety and comfort in use.

Their extreme versatility makes them the ideal choice for buildings or architectural settings of particular value.

Also, all maintenance jobs are particularly simple, quick and intuitive.

	Leaf max length	Leaf max weight	Maximum angle	Voltage	Frequency of use	Kits	Operator	pag.
electromechanical swing gates	1.8m	150kg	110°	24V	Intensive	—	KIT A-180 SW	84
					Intensive	—	KIT HIDE SW	92
		200kg	180°	230V	Semi-intensive	—	E5	94
					Semi-intensive	—	PHOBOS N	86
		250kg	118°	230V	Semi-intensive	—	PHOBOS N KIT	86
					Semi-intensive	—	KIT PHOBOS N	86
	2m	200kg	120°	24V	Intensive	—	PHOBOS N BT	86
					Intensive	—	PHOBOS N BT KIT	86
					Intensive	—	PHOBOS N BT FAST NET	86
					Intensive	—	KIT PHOBOS N BT	86
					Intensive	—	VIRGO FAST NET KIT	88
					Intensive	—	VIRGO KIT	88
	2.5m	250kg	125°	230V	Semi-intensive	—	IGEA	90
					Semi-intensive	—	KIT IGEA	90
				24V	Intensive	—	IGEA BT	90
					Intensive	—	IGEA BT NET KIT	90
					Intensive	—	KIT IGEA BT	90
					Semi-intensive	—	PHOBOS N L	86
5m	250kg	128°	230V	Semi-intensive	—	KIT PHOBOS L	86	
				Semi-intensive	—	PHOBOS N L BT	86	
		120°	24V	Semi-intensive	—	PHOBOS L	86	
				Intensive	—	PHOBOS N L BT KIT	86	
				Intensive	—	PHOBOS N L BT FAST NET	86	
				Intensive	—	KIT PHOBOS N L BT	86	
underground electromechanical swing gates	2m	150kg	120°	230V	Semi-intensive	—	ELI 250 N V	96
					Semi-intensive	—	ELI 250 N	96
	3.5m	300kg	120°	230V	Semi-intensive	—	ELI 250 N BT	96
400kg					24V	Semi-intensive	—	ELI 250 N BT

A	Operator
B	Control unit
C	Backup Batteries
D	Receiver
E	Photocell
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
O	Solar panel
	2x1.5
	3x1.5
	RG 58
	5x1
	2x1
	9x0.5
	4x2.5





Description

24V residential operator for gates up to 1.8 metres and 150 kg in weight. Maximum ease of installation guaranteed thanks to the new encoder limit switches and built-in mechanical stops. Thanks to the D-Track system, the installations are always safe and in compliance with binding standards.

D-TRACK**24V**

((ER-Ready))



Encoder and exclusive D-Track force management system for safe installations in all conditions

Blinker integrated in the photoelectric cells for the fastest installation

Adjustable built-in mechanical stops and adjustable brackets for the fastest operator positioning



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Gate leaf length	Legend
R930134 00001	KIT A-180 SW	■	24V	150kg	1.8m	A

Accessories

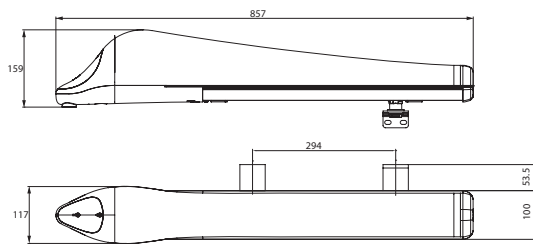
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Dimensions



Technical features

	A-180 SW
Control unit	A-CTBOARD SW
Power supply	24V
Power input	40W
Useful rod stroke	294mm
Maximum angle	110°
Cycle time	12sec
Slowdown	Yes
Impact reaction	D-Track
Locking	Mechanical
Release	Triangle key
Frequency of use	Intensive
Environmental conditions	from -20°C to 50°C
Actuator weight	5.5kg

A-CTBOARD

Control panel for one or two A-180 SW series operators

A-CTBOARD D113743 00002

- Application: control panel for one or two A-180 SW operators
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 48W max each operator
- Main functions: automatic re-closing, partial opening, pulse blocking, reversing motion
- Main features: removable terminal blocks, programming with dip-switch and push buttons, incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning, D-TRACK torque control system



Description

Complete range of electromechanical pistons for residential use, suitable for swing gate leaves up to 5 metres wide and weighing up to 250 kg.

The exclusive management and control system* allows extremely accurate movement and total anti-crushing safety.

*(in all BT versions, thanks to the THALIA control unit)

24V

((€R-Ready))





Control unit with programming display and new, simplified scenario-based programming and new standard terminal blocks.

Single-cable limit switch system incorporated into rod to simplify and speed up installation.

Aluminium structure with high-strength anodising treatment.




Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
R935238 00002	KIT PHOBOS L	■	230V	250kg	5m	A
R935251 00003	KIT PHOBOS N	■	230V	250kg	1.8m	A
R935247 00003	KIT PHOBOS N BT	■	24V	250kg	1.8m	A
R935254 00003	KIT PHOBOS N L BT	■	24V	250kg	5m	A
P935073 00002	PHOBOS L		24V	250kg	5m	A
P935067 00004	PHOBOS N		230V	250kg	1.8m	A
P935066 00004	PHOBOS N BT		24V	250kg	1.8m	A
 R935249 00002	PHOBOS N BT FAST NET	■	24V	250kg	1.8m	A
R935247 00002	PHOBOS N BT KIT	■	24V	250kg	1.8m	A
R935248 00002	PHOBOS N KIT	■	230V	250kg	1.8m	A
P935073 00003	PHOBOS N L		230V	250kg	5m	A
P935074 00003	PHOBOS N L BT		24V	250kg	5m	A
 R935266 00001	PHOBOS N L BT FAST NET	■	24V	250kg	5m	A
R935265 00001	PHOBOS N L BT KIT	■	24V	250kg	5m	A

• new

Accessories

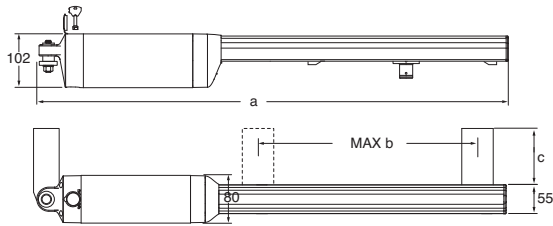
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Dimensions



	A	max b
PHOBOS N	825 mm	365 mm
PHOBOS N BT	825 mm	305 mm
PHOBOS N L	943 mm	481 mm
PHOBOS N L BT	943 mm	470 mm

Technical features

	PHOBOS N	PHOBOS N BT	PHOBOS N L	PHOBOS N L BT
Control unit	ALTAIR P	LIBRA C MA, THALIA	ALTAIR P	LIBRA C MA, THALIA
Power supply	230V	24V	230V	24V
Power input	210W	40W	210W	40W
Useful rod stroke	365mm	305mm	481mm	470mm
Maximum angle	118°	118°	128°	120°
Cycle time	15sec.	15sec.	20sec.	20sec.
Slowdown	No	No	No	No
Impact reaction	Electric clutch	D-Track	Electric clutch	D-Track
Locking	Mechanical	Mechanical	Mechanical	Mechanical
Release	Triangle key	Triangle key	Triangle key	Triangle key
Frequency of use	Semi-intensive	Intensive	Semi-intensive	Intensive
Environmental conditions	from -20°C to 50°C			
Actuator weight	5kg	5kg	5kg	5kg

THALIA

Control panel for one or two 24V operators for swing gates



B

THALIA D113745 00002

new

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R



Description

Electromechanical operator with articulated arm for residential use, for swing gate leaves of up to 2 metres and 200 kg.
 Ideal for all installation situations, with a lever system for the simple resolution of problems linked to large-size pillars.
 Control unit. limit switches and mechanical stops incorporated in operator.



((€R-Ready))



Built-in control units with programming display and automatic setting menu.

Built-in, adjustable mechanical stops and electromechanical limit switches.

Aluminium structure with high-resistance paint treatment.



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
R930133 00001	VIRGO FAST NET KIT	■	24V	200kg	2m	A
R930130 00001	VIRGO KIT	■	24V	200kg	2m	A

• **new**

Accessories

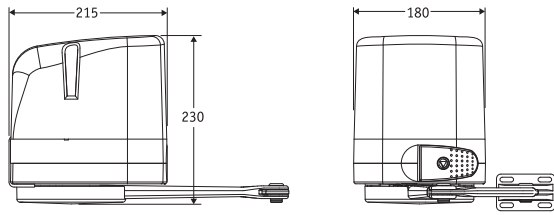
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Kit p.26

Dimensions



Technical features

	VIRGO
Control unit	LINX
Power supply	24V
Power input	110W
Maximum angle	120°
Cycle time	(90°) 14sec.
Slowdown	Yes
Impact reaction	Electronic torque limiter
Locking	Mechanical
Release	Triangle key
Frequency of use	Semi-intensive
Environmental conditions	from -15°C to 50°C
Actuator weight	8kg



Description

Range of electromechanical operators with articulated arm for residential use, for swing gate leaves of up to 2.5 metres and 250 kg. Ideal for installation on large-size pillars thanks to its articulated levers that allow opening up to 125°.

24V

((€R-Ready))



Control unit with programming display, automatic setting menu, simplified programming and virtual encoder.



Built-in, adjustable, single-cable electromechanical limit switch system.



Aluminium structure with high-resistance paint treatment.



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
P935065 00002	IGEA		230V	250kg	2.5m	A
P935070 00002	IGEA BT		24V	250kg	2.5m	A
R935264 00001	IGEA BT NET KIT	▪	24V	250kg	2.5m	A
R935221 00002	KIT IGEA	▪	230V	250kg	2.5m	A
R935229 00002	KIT IGEA BT	▪	24V	250kg	2.5m	A



• new

Accessories

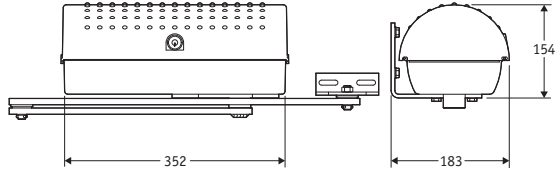
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Dimensions



Technical features

	IGEA	IGEA BT
Control unit	ALTAIR P	LIBRA C MA, THALIA
Power supply	230V	24V
Power input	300W	40W
Maximum angle	125°	125°
Cycle time	(90°) 15sec.	(90°) 15sec.
Slowdown	No	Yes
Impact reaction	Electric clutch	D-Track
Locking	Mechanical	Mechanical
Release	Personal key	Personal key
Frequency of use	Intensive	Intensive
Environmental conditions	from -15°C to 60°C	
Actuator weight	16kg	16kg

THALIA

Control panel for one or two 24V operators for swing gates



B

THALIA D113745 00002

new

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R



Description

Residential 24V operator for gates of up to 150 kg in weight, able to integrate completely within the jambs of swing gates.

Disappearing completely, it enables keeping the look of the gates “clean” while remaining a fundamental element of operational performance.

The Hide range is offered with every kind of accessory needed to complete the installation of the gate, including top and bottom hinges.

D-TRACK

24V

((ER-Ready))



Its cylindrical shape of maximum outside diameter 80mm allows it to be installed rapidly in the jamb of the leaf. The pre-wiring enables fast, user-friendly electrical connection to the control unit.

Hide SW is able to withstand the most severe weather conditions and wind, allowing operation even of solid gates equal to 3m² at up to 120 km/h (class 2, EN13241).

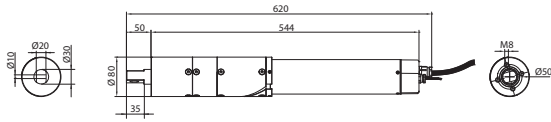
The Libra CB HIDE control unit is able to optimize the operator functions, allowing separate management of the motors in the times for working, torque control and slowing down, calibrating to the actual needs thanks to the built-in “D-Track” function.



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Gate leaf length	Legend
R930138 00002	KIT HIDE SW	■	24V	150kg	2m	A

Dimensions



Technical features

	HIDE SW
Control unit	LIBRA CB HIDE
Power supply	24V
Power input	40W
Maximum angle	110°
Cycle time	12sec
Slowdown	Yes
Impact reaction	D-Track
Locking	Mechanical
Release	Steel cable
Frequency of use	Intensive
Environmental conditions	from -20°C to 60°C
Actuator weight	8kg

LIBRA CB HIDE

Control panel for one or two HIDE SW series operators

LIBRA CB HIDE D113742 00002

- Application: control panel for one or two HIDE SW operators
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 200W max each operator
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature, pulse blocking, separate opening/closing
- Main features: removable terminal blocks, programming with display and incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning, D-TRACK torque control system

Description

Extremely small-size electromechanical operator with articulated arm. Suitable for residential use; capable of automating swing gate leaves up to 1.8 metres wide and weighing up to 200 kg.



The design of the unit makes it ideal for use on small pillars or where there is very limited space.

Anti-crushing safety guaranteed by adjustable mechanical clutch.

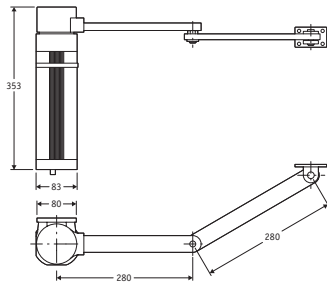
Aluminium structure with high-strength anodising treatment.



Summary table

Code	Name		Kits	Voltage	Leaf max weight	Leaf max length	Legend
P930003 00001	E5			230V	200kg	1.8m	A

Dimensions



Technical features

	E5
Control unit	ALCOR N
Power supply	230V
Power input	200W
Useful rod stroke	130/(180 with BSE5) ^o
Cycle time	22sec.
Slowdown	No
Impact reaction	Mechanical clutch
Locking	Solenoid Lock
Release	Reversible
Frequency of use	Semi-intensive
Environmental conditions	from -10°C to 60°C
Actuator weight	8kg

RIGEL 5 Universal control panel for one or two 230V operators



B

RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators



Description

Range of underground electromechanical operators for residential use, for swing gate leaves of up to 3.5 metres and 400 kg. The built-in mechanical stops for both opening and closing enable making the installation totally invisible thanks to having eliminated the stops on the ground. The magnetic limit switch system (BT) guarantees maximum precision and reliability in any climatic conditions.

D-TRACK

24V

((ER-Ready))



Control unit with programming display, automatic setting menu, simplified programming and virtual encoder.



Adjustable mechanical stops for both opening and closing inside the foundation box



Sturdy aluminium structure with high-resistance treatment.



Summary table

Code	Name	Kits	Voltage	Leaf max weight	Leaf max length	Legend
P930125 00002	ELI 250 N		230V	300kg	3.5m	A
P930125 00001	ELI 250 N BT		24V	400kg	3.5m	A
P930126 00002	ELI 250 N V		230V	150kg	2m	A

Accessories

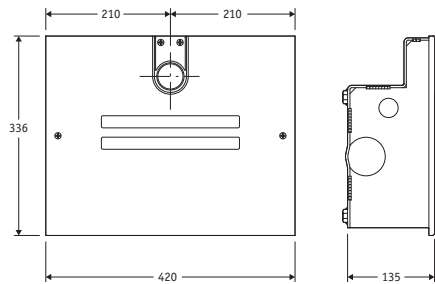
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Dimensions



Technical features

	ELI 250 N	ELI 250 N BT	ELI 250 N V
Control unit	ALTAIR P	THALIA	ALTAIR P
Power supply	230V	24V	230V
Power input	280W	175W	280W
Opening angle	120°	120°	120°
Cycle time	28sec.	15sec.	14sec.
Slowdown	No	Yes	No
Impact reaction	Electric clutch	D-Track	Electric clutch
Locking	Mechanical	Mechanical	Mechanical
Release	Triangle key or lever	Triangle key or lever	Triangle key or lever
Frequency of use	Semi-intensive	Intensive	Semi-intensive
Environmental conditions	from -20°C to 50°C		
Actuator weight	10kg	10kg	10kg

THALIA

Control panel for one or two 24V operators for swing gates



B

THALIA D113745 00002

new

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R



98 Product accessories

ORO



ARB ORO N733424

Adjustable front and rear brackets for ORO operator



PLE D730178

Anchor plate for welding the mountings to masonry pillars for LUX and PHOBOS N operators



NAT N999131

Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath

LUX BT



CABLE LX BT N999417

LUX BT power supply cable. Coil of 100 m



PL LX BT N999443

Anchor plate for welding the mountings to masonry pillars for LUX BT

LUX



ARB LUX G N733474

Adjustable front and rear bracket for LUX G operator



ARB LUX N733426

Adjustable front and rear bracket for LUX operator



PLE D730178

Anchor plate for welding the mountings to masonry pillars for LUX and PHOBOS N operators

P7 / P4,5



NAT N999131

Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath

SUB



CPS DX N733066 00001

Foundation box designed for fitting the SUB right-hand operator



CPS SX N733066 00002

Foundation box designed for fitting the SUB left-hand operator



FCS DX N733066 00003

Foundation box designed for fitting the SUB right-hand operator, allowing easy maintenance without ever having to disassemble the gate leaf



FCS SX N733066 00004

Foundation box designed for fitting the SUB left-hand operator, allowing easy maintenance without ever having to disassemble the gate leaf



CPS G N733092

Foundation box designed for fitting the SUB G operator



BSC N728002

Arm for installation of SUB out of the gate axis



SUB BT



FCS BT N733480 00001

Foundation box for SUB BT series operators

O



SCC N733392

Release for ELI 250N and SUB BT with lever key.

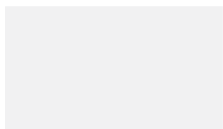
O

A-180 SW



A-CELLULA FLX P111464

Pair of flashing photocells for ALISEO series operators



A-180 SW BAT P135006

Set of backup batteries for A-180 SW series operators



GHIBLI D111879

12V four-channel transmitter 433 MHz rolling code

PHOBOS



ARB PHOBOS N N733427

Front and rear adjustable bracket for PHOBOS N, PHOBOS N BT operator



ARB PHOBOS N L N733428

Front and rear adjustable bracket for PHOBOS NL, PHOBOS NL BT operator



PLE D730178

Anchor plate for welding the mountings to masonry pillars for LUX and PHOBOS N operators



CABLE N N999405

Control unit connecting cable for PHOBOS N/PHOBOS NL. Coil of 100 m



CABLE N BT N999404

Control unit connecting cable for PHOBOS N BT/PHOBOS NL BT. Coil of 100 m

VIRGO

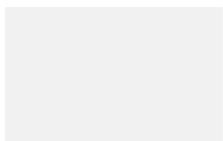


VIRGO BAT P125008

Set of backup batteries for VIRGO

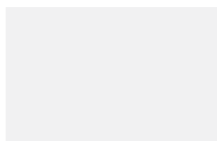
C

HIDE SW



HIDE HINGE INF N999524

Bottom fixed hinge for the installation of HIDE SW series operator



HIDE HING SUP N999526

Top articulated hinge for the installation of HIDE SW series operator



E5



BL E5 N733008

Long articulated arm for E5



BS E5 N728011

Slide lever for E5. Increases maximum opening angle to 180°



SPL D113050

Pre-heating board with thermostat for 230V hydraulic operators. Not usable with RIGEL 5

B

ELI250 N



SCC N733392

Release for ELI 250N and SUB BT with lever key.

O



SCT N733189

Release for ELI 250 with triangle key.



E180 N733304

Accessory for opening to 180° for ELI 250, ELI 250 V operator






















BTCF 120 E INOX N733398

Stainless steel foundation box with levers for ELI 250 BT, ELI 250, ELI 250 V. Release not provided






























BTCF 120 E N733397

Foundation box with levers for ELI 250 BT, ELI 250, ELI 250 V. Release not supplied

	<p>LIBRA C MA D113672 00005</p> <p>Control panel for one or two 24V swing gate operators.</p>		<p>LIBRA C LX QSG2 D113715 00002</p> <p>Control panel for one or two LUX BT series operators</p>
	<p>ALCOR N D113706 00002</p> <p>Control panel for one or two 230V/300W operators for swing gates</p>		<p>ALTAIR P D113703 00002</p> <p>Control panel for one or two 230V/300W operators for swing gates and industrial folding doors</p>
	<p>RIGEL 5 D113693 00003</p> <p>Universal control panel for one or two 230V operators</p>		<p>THALIA D113745 00002 new</p> <p>Control panel for one or two 24V operators for swing gates</p>
	<p>THALIA P 230V D113747 00002 new</p> <p>Control panel for one or two 24V operators for swing gates</p>		
	<p>BT BAT P125005</p> <p>Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO</p>		<p>VIRGO BAT P125008</p> <p>Set of backup batteries for VIRGO</p>
	<p>SCS WIE P111408</p> <p>Available while stock lasts</p>		<p>SCS 1 P111376</p> <p>Available while stock lasts</p>
	<p>SSRS D111704</p> <p>Board for traffic-light management and pre-heating 230V hydraulic motors for RIGEL5</p>		<p>TLB D113727</p> <p>Traffic-light management board for LIBRA C LX</p>
	<p>ME D111013</p> <p>Control board for 24Vac solenoid lock for 230V automation systems</p>		<p>ME BT D111761</p> <p>Control board for 24Vac solenoid lock for 24V automation systems</p>
	<p>SPL D113050</p> <p>Pre-heating board with thermostat for 230V hydraulic operators. Not usable with RIGEL 5</p>		<p>B EBA 201 R01 P111468</p> <p>Expansion board for serial control central groups connection</p>
	<p>B EBA 201 R03 P111467</p> <p>Expansion board for WIEGAND devices connection</p>		<p>B EBA 201 R04 P111469</p> <p>Expansion board for Blue-Tooth connection</p>



	<p>RAY X 230V D113719 00002 Blinker with built-in antenna for 230V motors</p>		<p>RAY X 24V D113719 00003 Blinker with built-in antenna for 24V motors</p>
	<p>RWS P123023 Wall mounting for RAY X series blinkers</p>		<p>B LTA 230 R1 D113748 00002 Blinker with built-in antenna for 230V motors</p>
	<p>B LTA 230 R2 D113749 00002 Blinker without antenna for 230V motors</p>		<p>B LTA 024 R1 D113748 00003 Blinker with built-in antenna for 24V motors</p>
	<p>B LTA 024 R2 D113749 00003 Blinker without antenna for 24V motors</p>		<p>B 00 R01 P123026 Metal guard for B LTA</p>
	<p>B 00 R02 P123025 Wall mounting for B LTA series blinkers</p>		
	<p>CELLULA 50 P111272 Pair of built-in adjustable photocells (range 30 m) Power supply 24V ac</p>		<p>CELLULA 130 P111273 Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc</p>
	<p>CELLULA 180 P111452 Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc</p>		<p>CELLULA RFL P111391 Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)</p>
	<p>SEK P121017 External key selector switch with vandal-proof metal frame</p>		<p>T-BOX P121019 Wireless digital keypad 433 MHz Rolling code</p>
	<p>EBP P123001 00001 230Vac electric drop lock</p>		<p>EBP 24 P123001 00013 24Vac solenoid lock, with 230/24V transformer installable in control panel</p>
	<p>ECB SX D121017 Left-hand horizontal solenoid lock, 12-24V</p>		

 CLS D610180 Triangular release key l=52mm P	 CLS/82 D610256 Triangular release key for SUB operators l=82mm P
 FAST WIRE N999389 00001 Connection cable for FAST NET system. Coil of 100 m	
 MITTO 2 12V D111750 12V two-channel transmitter 433 MHz rolling code L	 MITTO 4 12V D111751 12V four-channel transmitter 433 MHz rolling code L
 MITTO 2 REPLAY D111841 12V 2-channel transmitter, copyable with rolling code L	 MITTO 4 REPLAY D111842 12V 4-channel transmitter, copyable with rolling code L
 LEONARDO KIT P111386 BFT impact measurer	 LEONARDO KIT BLUETOOTH P111387 BFT Bluetooth impact measurer



Garage doors





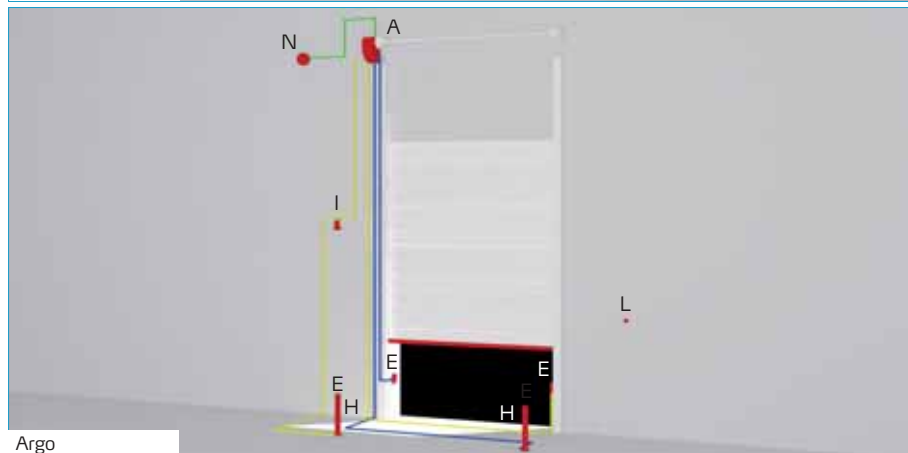
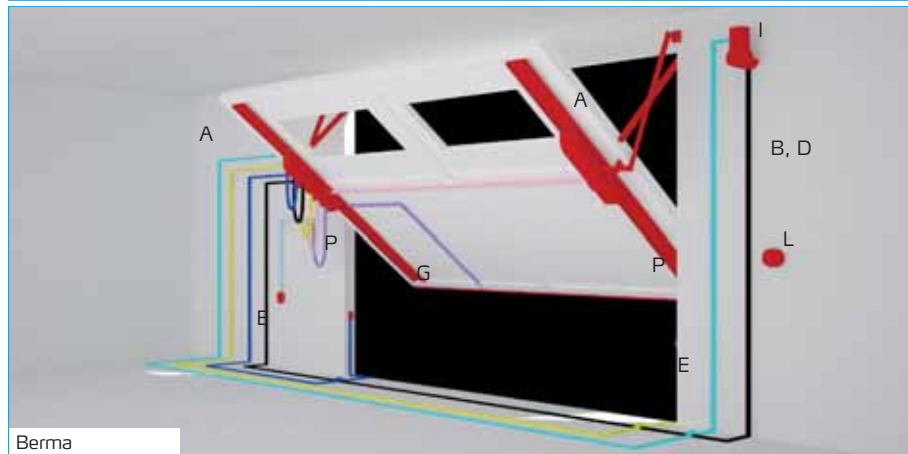
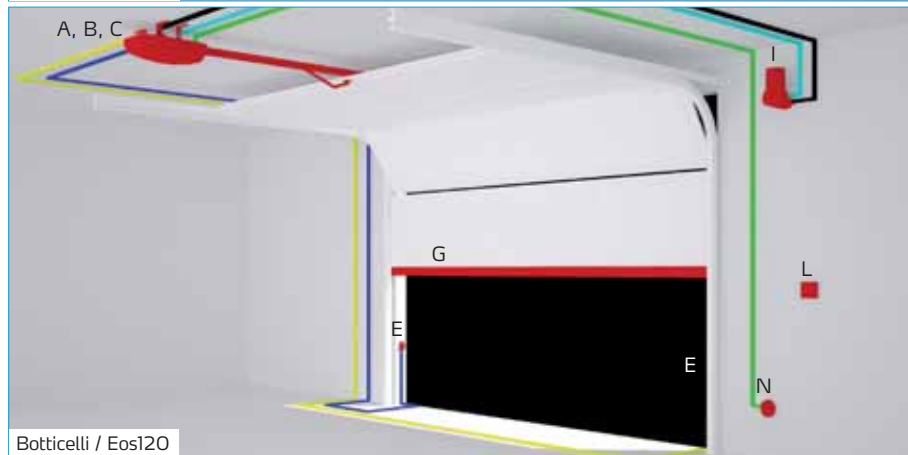
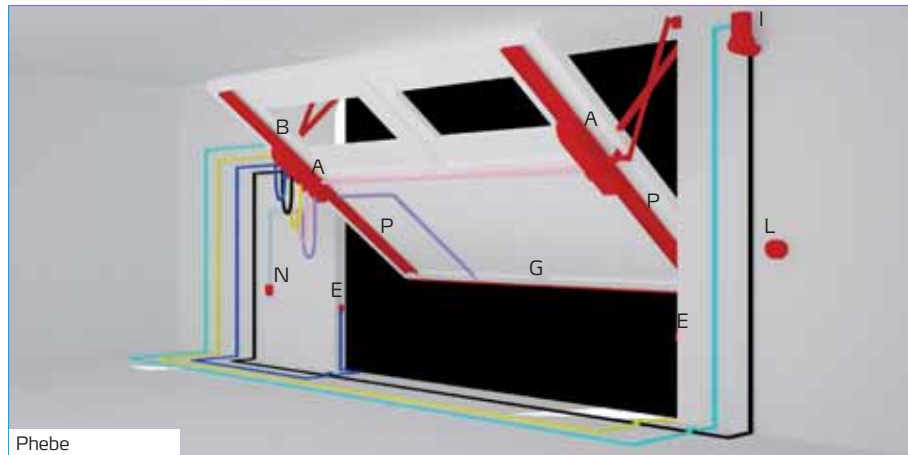
Garage doors

BFT automation systems for garage doors are extremely flexible and complete. They cover all installation needs, thanks to the wide range of accessories. The highly evolved control units ensure maximum ease of use and very high safety levels.

	Max surface area	Number of operators	Voltage	Frequency of use	Kits	Operator	pag.
overhead garage doors	7m ²	1	24V	Semi-intensive	- - -	PHEBE N	— 112
				Semi-intensive	- - -	PHEBE N IP44	— 112
		2	24V	Semi-intensive	- - -	PHEBE N SQ	— 112
				Semi-intensive	- - -	PHEBE N KIT	— 112
	9m ²	1	230V	Very-intensive	- - -	BERMA R	— 116
				Very-intensive	- - -	BERMA SEB R	— 116
				Very-intensive	- - -	BERMA SA R	— 116
				Very-intensive	- - -	BERMA	— 116
				Very-intensive	- - -	BERMA SEB	— 116
				Very-intensive	- - -	BERMA R+ BERMA R	— 116
> 9m ²	2	230V	Very-intensive	- - -	BERMA SEB R + BERMA SEB R	116	
			Very-intensive	- - -	BERMA SEB R + BERMA SEB R	116	

	Max surface area	Max tractive force	Voltage	Frequency of use	Kits	Operator	pag.
sectional garage doors	25m ²	60kg	24V	Intensive	- - -	BOTTICELLI	— 110
				Intensive	- - -	BOTTICELLI VENERE D	— 110
		120kg	24V	Very-intensive	- - -	EOS 120	— 110
				Very-intensive	- - -	ARGO	— 114
	25m ²		24V	Very-intensive	- - -	ARGO G	— 114
				Very-intensive	- - -	ARGO G	— 114

A	Operator
B	Control unit
C	Backup Batteries
D	Receiver
E	Photocell
G	Sensitive edge
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
P	Fitting system
	2x1.5
	3x1.5
	5x1.5
	RG 58
	3x1
	5x1
	2x1
	9x0.5
	4x2.5





Automation associations for garage doors

	VENERE	VENERE D	HYDRA N	VENERE D ARGO	RIGEL 5	ALPHA SD	ALCOR N
BOTTICELLI	Built-in						
BOTTICELLI VENERE D		Built-in					
EOS 120		Built-in					
PHEBE N			Built-in				
PHEBE N SQ			Recommended				
ARGO				Built-in			
BERMA R					Recommended	Compatible	Compatible

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator
Built-in	Installed and partially wired inside the operator

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
E5	
E6	
E7	
E8	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board

	VENERE	VENERE D	VENERE D ARGO	HYDRA N	RIGEL 5	ALPHA SD	ALCOR N
MOTORS POWER SUPPLY							
Motor 1 230V output					•	•	•
Motor 2 230V output					•		•
Motor 1 24V output	•	•	•	•			
Motor 2 24V output				•			
LIMIT SWITCH INPUTS							
Single for Opening						•	E1
Single for Closing						•	E2
Separate Inputs for Opening				•	•		
Separate Inputs for Closing				•	•		
Encoder	•	•	•				
CONTROLS INPUTS							
Start	•	•	E1	•	•	•	•
Pedestrian Start		•	E2		•		E1
Internal Start					•		
Open			E1		•		E2
Close			E1		•		E1
Timer					E1		
Pedestrian Timer					E1		
EMERGENCY STOP							
Stop	•	•	•	•	•	•	•
SAFETY SYSTEMS INPUTS							
Photocells	•	•	•	•		•	•
Photocells for Opening					E2		
Photocells for Closing					•		
Photocells Inputs Check	•	•	Opt.	•	•		
Safety Edge			•		E2		
8K2 Safety Edge							
Safety Edges Inputs Check			Opt.		•		
AUXILIARY INPUTS/OUTPUTS							
Blinker	•	•	•	•	•		
Courtesy Light	•	•	•	•	E4		
Zone Light					E4		
Stairs Light					E6		
Solenoid Lock				•	E6	Opt.	Opt.
Electromagnet					E6		E3
Gate Open Warning Light		E	E	E	E7	E1	E3
Second Radio Channel		E	E	E	E7	E1	
Intermediate opening limit switch			•				
Intermediate closing limit switch			Opt.				
Alarm					E5		
MOTORS CONTROLS							
Torque Control	•	•	•	•	•		
Obstacle Recognition	•	•	•	•			
Dynamic Path Tracking	•	•	•	•			
Speed Control			•		•		
Slowdown Control	•	•	•	•	•		
Speed and Slowdown Control		•	•	•	•		
Brake					•		
Opening Delay Control					•		
Closing Delay Control					•		•
Backup Batteries Connection		•	•	•			
ICE Function							
Self Setting	•	•	•	•			
FUNCTIONS							
Automatic Re-closing Control (TCA)	•	•	•	•	•	•	•
Open Pulse Blocking	•	•	•	•	•	•	•
TCA Pulse Blocking				•	•		
Close Pulse Blocking					•		
Photocell Trigger Setting		•	•	•	•	•	•
Fast Close				•	•	•	
Pre-Alarm		•	•	•	•		
2 Steps					E8		
3 Steps		•	•	•	E8	•	•
4 Steps		•	•	•	E8	•	•
Deadman Feature			•		•		
Closing Stop Pressure				•	•		•
Water Hammer					•		•
Traffic-Light Management					Opt.		
MISCELLANEOUS							
Accessories power supply 24V	180 mA	180 mA	180 mA	200 mA	1 A	200 mA	200 mA
Antenna	•	•	•	•	•	•	•
Built-in Receiver	•	•	•	•	•	•	•
Learning via Radio Commands	•	•	•	•	•	•	•
EE-Link		•	•	•	•	•	•
ER-Ready		•	•	•	•	•	•
Self-Diagnosis		•	•	•	•	•	•
Statistics Management		•	•	•	•	PRO	PRO
Central Commands Management		Opt.	•	Opt.	Opt.	PRO	PRO
Conformity to EN 12453-EN12445	•	•	•	•	•		



Description

Electromechanical operators for intensive/very intensive use, designed for the automation of sectional garage doors.

Suitable for installation in any context, from residential to multi-residential, thanks to the wide range of different length rails available, either chain or belt.

The control unit and encoder limit switch with mechanical stop are incorporated in the operator and rail respectively.



((€R-Ready))






Built-in control unit with automatic learning of opening and closing force.

Encoder and exclusive D-Track force management system for safe installations in all conditions.


High-strength galvanised steel rail with ducts to facilitate the routing of the cables.




Summary table

	Code	Name	Kits	Voltage	Tractive force	Legend
	P915194 00002	BOTTICELLI		24V	60kg	A
	P915194 00003	BOTTICELLI VENERE D		24V	60kg	A
	P915195 00002	EOS 120		24V	120kg	A

Accessories

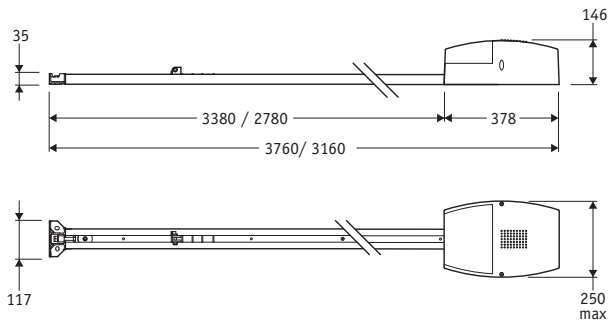
 of product p. 118

 of family p. 120

 generic p. 232

Kit p. 26

Dimensions



Technical features

	BOTTICELLI	BOTTICELLI VENERE D	EOS 120
Control unit	VENERE	VENERE D	
Power supply	24V	24V	24V
Power input	236W	236W	236W
Gate speed	5m/min	5m/min	4.5m/min
Type of limit switch	Encoder + mechanical stop for opening.	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening
Slowdown	No	Yes	Yes
Impact reaction	Electronic force limiter	Electronic force limiter	Electronic force limiter
Locking	Mechanical	Mechanical	Mechanical
Release	Cord or steel cable	Cord or steel cable	Cord or steel cable
Frequency of use	Intensive	Intensive	Very intensive
Environmental conditions	from -15°C to 60°C		
Actuator weight	5kg	5kg	5kg



Description

Electromechanical operators for residential use for the automation of overhead garage doors.

The built-in control unit manages the second operator for installation on large-size doors or doors with integrated pedestrian doors.

The microprocessor technology also manages the torque of the motors with maximum precision and in total safety.



((€R-Ready))



Control unit incorporated with torque self-learning system, programming display and on-board radio receiver.



Quickly and easily adjustable limit switched on board motor.

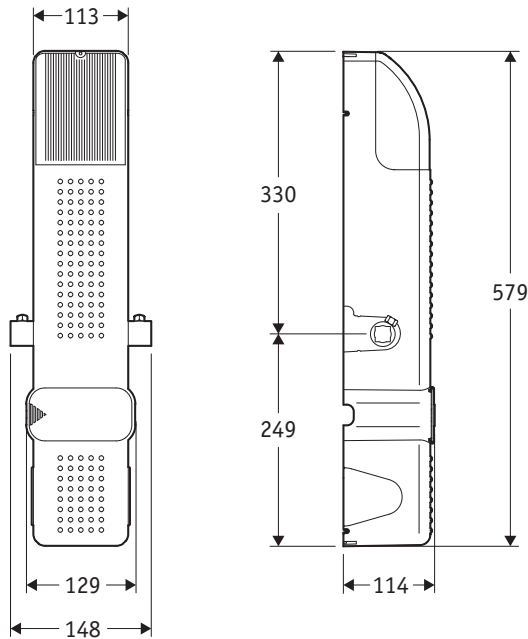


Release knob protected by a safety door; can also be operated from outside by means of a steel cable.

Summary table

Code	Name	Kits	Voltage	Tractive force	Legend
P915134 00102	PHEBE N		24V	7m ²	A
P915134 00106	PHEBE N IP44		24V	7m ²	A
R915126 00102	PHEBE N KIT	■	24V	7m ²	A
P915135 00102	PHEBE N SQ		24V	7m ²	A

Dimensions



Technical features

	PHEBE N	PHEBE N IP44	PHEBE N KIT	PHEBE N SQ	PHEBE N SQ IP44
Control unit	HYDRA				
Manual cycle	Non reversing	Non reversing	Non reversing	Non reversing	Non reversing
Power supply	24V	24V	24V	24V	24V
Power input	40W	40W	40W	40W	40W
Cycle time	17-20sec.	17-20sec.	17-20sec.	17-20sec.	17-20sec.
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical
Slowdown					
Impact reaction	Electronic torque limiter	Electronic torque limiter	Electronic torque limiter		
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Release knob	Release knob	Release knob	Release knob	Release knob
Frequency of use	Semi-intensive	Semi-intensive	Semi-intensive	Semi-intensive	Semi-intensive
Environmental conditions	from -15°C to 60°C				
Actuator weight	10kg	10kg	10kg	10kg	10kg

HYDRA N QSG2

HYDRA N control board in panel QSG2



B

HYDRA N QSG2 D113730 00002

- Application: control panel for one or two overhead garage door operators
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 168W max each operator
- Main characteristics: removable terminal blocks, programming with display and incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, pulse blocking, blocking hold
- Compatibility: HYDRA, HYDRA R



Description

24V electromechanical operator for sectional garage doors installable in residential, industrial and commercial environments.

The sturdy mechanical structure and the microprocessor technology of the control unit allow the intensive use of the operator, whilst guaranteeing maximum reliability over time. In addition, the D-Track torque control system and absolute encoder ensure extremely precise door movement control and obstacle detection.



((€R-Ready))

D-TRACK



Exclusive encoder position reset knob for fast, safe installations.



Limit switch based on absolute encoder technology, guaranteeing maximum reliability and stopping precision.



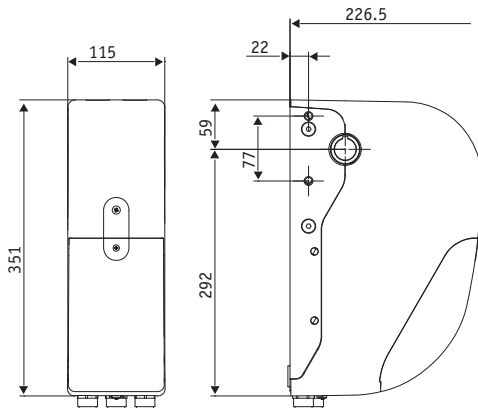
Control unit with on-board programming display and D-Track torque, speed and position management and control system. Incorporated dual channel radio receiver.



Summary table

Code	Name	Kits	Voltage	Door surface area	Max torque	Legend
P925202 00001	ARGO		24V	20m ²	55Nm	A
P925206 00002	ARGO G		24V	35m ²	80Nm	A

Dimensions



Technical features

	ARGO	ARGO G
Control unit	VENERE D ARGO	VENERE D ARGO G
Manual cycle	Non reversing	Non reversing
Power supply	24V	24V
Power input	240W	240W
Output revolutions	30rpm	18rpm
Type of limit switch	Absolute encoder	Absolute encoder
Slowdown	Yes	Yes
Impact reaction	Electronic torque limiter	Electronic torque limiter
Locking	Mechanical	Mechanical
Release	Cord or steel cable	Steel cable
Frequency of use	Intensive	Intensive
Environmental conditions	from -15°C to 55°C	
Actuator weight	10kg	10kg



Description

Hydraulic operator for very intensive use for overhead garage doors. Designed to resist the harshest use conditions, combining strength with the proven reliability of hydraulic operators.

The hydraulic slowdown guarantees silent, smooth movements on even the biggest doors. Also, the adjustment screw makes it possible to adapt the slowdown intensity to each situation.

The by-pass valves allow the exact setting of the torque separately and independently for opening and closing.

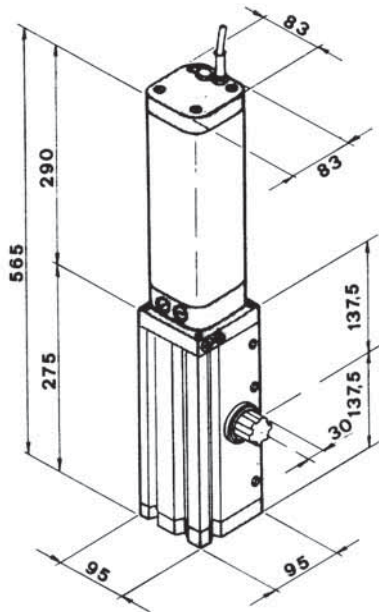
Release system that can also be activated from outside by a steel cable in the SEB version.



Summary table

Code	Name	Kits	Voltage	Door surface area	Max torque	Legend
P915006 00001	BERMA		230V	9m ²	320Nm	A
P915007 00001	BERMA R		230V	9m ²	320Nm	A
P915009 00001	BERMA SA R		230V	9m ²	320Nm	A
P915103 00001	BERMA SEB		230V	9m ²	320Nm	A
P915105 00001	BERMA SEB R		230V	9m ²	320Nm	A

Dimensions



Technical features

	BERMA R	RIGEL 5	BERMA SEB R
Control unit			
Manual cycle	Non reversing		Non reversing
Power supply	230V		230V
Power input	250W		250W
Gate speed	13+slowdownsec		13+slowdownsec
Slowdown	Yes		Yes
Impact reaction	Hydraulic clutch		Hydraulic clutch
Locking	Hydraulic		Hydraulic
Release	Release key		Release key
Frequency of use	Very-intensive		Very-intensive
Environmental conditions	from -15°C to 60°C		
Actuator weight	10kg		10kg

RIGEL 5

Universal control panel for one or two 230V operators



B

RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators



118 Product accessories

BOTTICELLI / EOS120



PBE N733391
Complete kit for extending the useful travel of the BOTTICELLI and EOS 120 chain rails by 1 m. PBE



BIN120 CATENA 2900 P115010 00001
Chain rail for EOS 120, length 2900 mm, useful travel 2400 mm



BRCT P115002
Adapter arm for the motorisation of overhead doors with EOS 120 and BOTTICELLI operators



BIN120 CATENA 3500 P115010 00002
Chain rail for EOS 120, length 3500 mm, useful travel 3000 mm



APT N999060
Assembly for fitting BOTTICELLI, EOS 120 at over 30 cm from the ceiling



BIN120 CATENA 2900 P115009 00001
Chain rail for BOTTICELLI, length 2900 mm, useful travel 2400 mm



TA BIN N999370
Vibration damper plugs for EOS120 and BOTTICELLI, (pack of 4 plugs)



BIN120 CATENA 3500 P115009 00002
Chain rail for BOTTICELLI, length 3500 mm, useful travel 3000 mm



ST P115003
Automatic bolt release for sectional doors



BIN120 CINGHIA 2900 P115009 00003
Belt rail for BOTTICELLI, length 2900 mm, useful travel 2400 mm



SET/S N733069
External release for insulated sectional and overhead doors of thickness up to 50 mm. SET/S



BIN120 CINGHIA 3500 P115009 00004
Belt rail for BOTTICELLI, length 3500 mm, useful travel 3000 mm



CB EOS P125006
Set of backup batteries for VENERE D

PHEBE



CBA N733112
Straight telescopic arms for the installation of PHEBE series operators on overhead door



CBAC N733114
Curved telescopic arms for the installation of PHEBE series operators on overhead door



CBAS N733119
Straight telescopic arms for the installation of PHEBE series operators on overhead door of length 1000 mm



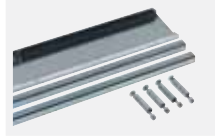
CBASL N733113
Straight telescopic arms for the installation of PHEBE series operators on overhead door of length 1500mm



BCP D412377
Short welding base for PHEBE series operators (L 578 mm)



BLP N733288
Long welding base for PHEBE series operators (L 1600 mm)



CTBP N733299
Pack of 1800 mm drive tubes and fixing bases for completing the PHEBE N KIT



CTA N733120
2 square drive tubes of cross section 20x20 mm and length 1800 mm for PHEBE N series operators



CTA2 N733129
2 square drive tubes of cross section 20x20 mm and length 200 mm for PHEBE N series operators



BT BATI P125007
Set of backup batteries for HYDRA N QSG2

ARGO



RCA N733421
Lever release for ARGO with steel cable, length 3.5 m



RCAL N733422
Lever release for ARGO with steel cable, length 7 m



BT BAT P125005
Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO

BERMA



CA1 N733038
Installation accessories for a BERMA series operator on overhead door of max width 4 m



CA2 N733040
Accessories for the installation of two BERMA series operators on overhead door



CA1C N733039
Installation accessories for a BERMA series operator on overhead door of max width 4 m (curved arms)



















CA2C N733041
Accessories for the installation of two BERMA series operators on overhead door (curved arms)

120 Family accessories


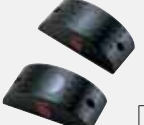











 <p>RIGEL 5 D113693 00003 Universal control panel for one or two 230V operators</p> <p>B</p>	 <p>ALPHA SD D113680 00002 Universal control panel for a 230V/500W single phase operator</p> <p>B</p>
 <p>ALCOR N D113706 00002 Control panel for one or two 230V/300W operators for swing gates</p> <p>B</p>	 <p>HYDRA N QSG2 D113730 00002 HYDRA N control board in panel QSG2</p> <p>B</p>
 <p>BT BAT P125005 Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO</p> <p>C</p>	 <p>BT BAT1 P125007 Set of backup batteries for HYDRA N QSG2</p> <p>C</p>
 <p>SCS WIE P111408 Available while stock lasts</p> <p>B</p>	 <p>SCS 1 P111376 Available while stock lasts</p> <p>B</p>
 <p>SSR5 D111704 Board for traffic-light management and pre-heating 230V hydraulic motors for RIGEL5</p> <p>B</p>	 <p>SPL D113050 Pre-heating board with thermostat for 230V hydraulic operators. Not usable with RIGEL 5</p> <p>B</p>
 <p>B EBA 201 R01 P111468 Expansion board for serial control central groups connection</p> <p>B</p>	 <p>B EBA 201 R03 P111467 Expansion board for WIEGAND devices connection</p> <p>B</p>
 <p>B EBA 201 R04 P111469 Expansion board for Blue-Tooth connection</p> <p>B</p>	 <p>B EBA 201 R02 P111466 Carte d'expansion pour gestion INPUT/OUTPUT</p> <p>B</p>
 <p>SM1 P115005 External manual release for overhead garage door (1 operator)</p> <p>P</p>	 <p>SM2 P115001 External manual release for overhead garage door (2 operators)</p> <p>P</p>
 <p>SEB N733020 External key release for BERMA, FORB, IGEA LB and IGEA LB BTI</p> <p>P</p>	

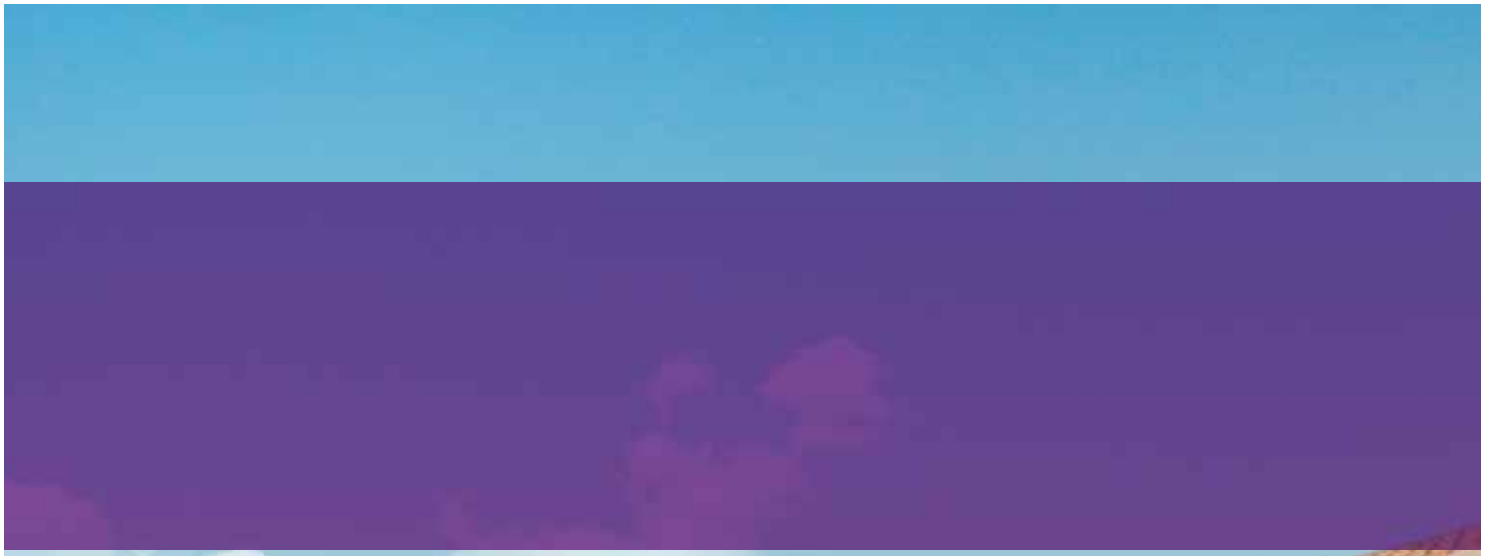
	<p>RAY X 230V D113719 00002 Blinker with built-in antenna for 230V motors</p>		<p>RAY X 24V P111391 Blinker with built-in antenna for 24V motors</p>
	<p>RWS P123023 Wall mounting for RAY X series blinkers</p>		<p>B LTA 230 R1 D113748 00002 Blinker with built-in antenna for 230V motors</p>
	<p>B LTA 230 R2 D113749 00002 Blinker without antenna for 230V motors</p>		<p>B LTA 024 R1 D113748 00003 Blinker with built-in antenna for 24V motors</p>
	<p>B LTA 024 R2 D113749 00003 Blinker without antenna for 24V motors</p>		<p>B 00 R01 P123026 Metal guard for B LTA</p>
	<p>B 00 R02 P123025 Wall mounting for B LTA series blinkers</p>		
	<p>MITTO 2 12V D111750 12V two-channel transmitter 433 MHz rolling code</p>		<p>MITTO 4 12V D111751 12V four-channel transmitter 433 MHz rolling code</p>
	<p>MITTO 2 REPLAY D111841 12V 2-channel transmitter, copyable with rolling code</p>		<p>MITTO 4 REPLAY D111842 12V 4-channel transmitter, copyable with rolling code</p>
	<p>SEK P121017 External key selector switch with vandal-proof metal frame</p>		<p>T-BOX P121019 Wireless digital keypad 433 MHz Rolling code</p>
	<p>RB P121016 4-channel wall-mounted radio control with rolling code</p>		



122 Family accessories

 <p>E</p>	<p>CELLULA 50 P111272 Pair of built-in adjustable photocells (range 30 m) Power supply 24V ac</p>	 <p>E</p>	<p>CELLULA 130 P111273 Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc</p>
 <p>E</p>	<p>CELLULA 180 P111452 Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc</p>	 <p>E</p>	<p>CELLULA RFL P111391 Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)</p>
 <p>E</p>	<p>DCW P111410 Wireless photocell with possibility of managing infrared or resistive safety edge</p>	 <p>G</p>	<p>STR N190106 Pair of infrared sensors for DCW</p>
 <p>G</p>	<p>VENTIMIGLIA NS P111401 00001 Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)</p>	 <p>G</p>	<p>BIR C N190104 Rubber safety edge (H 30 mm), price per m</p>
 <p>G</p>	<p>BAR C BA 4 P111451 00004 Double profile rubber safety edge with lip seals (L 4000 x H 60 mm)</p>		
	<p>LEONARDO KIT P111386 BFT impact measurer</p>		<p>LEONARDO KIT BLUETOOTH P111387 BFT Bluetooth impact measurer</p>





Automation systems For roller shutters







Automation systems For roller shutters

BFT offers made-to-measure models to meet all needs, from small shutters to French windows. Everything is oriented towards the creation of a customised system: sturdy, powerful and reliable motors, a wide range of accessories and simplified assembly, installation and adjustment procedures.

	Voltage	Roller diameter	Shutter weight	Operator	pag.
roller shutters	230V	60mm	18kg	LOOP 50/10	130
			18kg	LOOP RADIO 50/10	130
			35kg	LOOP 50/15	130
			35kg	LOOP RADIO 50/20	130
			55kg	LOOP 50/35	130
			55kg	LOOP RADIO 50/30	130
			88kg	LOOP 50/50	130
			88kg	LOOP 50/50M	130
			88kg	LOOP RADIO 50/50	130



Installation guide 127

A	Operator
B	Control unit
L	Control system (key selector switch, keypad, badge reader)
S	Anti-break-in blocks
	3x1.5
	13x1





Roller shutter automation associations

	ELBA	ELBA BU	CENTRALE LOOP RADIO
LOOP	Recommended	Recommended	
LOOP RADIO			Built-in

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator
Built-in	Installed and partially wired inside the operator

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board



Control unit characteristics 129

	ELBA	ELBA BU
MOTORS POWER SUPPLY		
Motor 1 230V output	•	•
CONTROLS INPUTS		
Start	E1	E1
Internal Start		
Open	E1	E1
Close	•	•
Anemometer	E2	E2
Twilight sensor	E3	E3
Timer	E3	E3
EMERGENCY STOP		
Stop	E2	E2
SAFETY SYSTEMS INPUTS		
Photocells	•	•
Photocells for Opening		
Photocells for Closing		
Photocells Inputs Check		
Safety Edge		
8K2 Safety Edge		
Safety Edges Inputs Check		
FUNCTIONS		
Automatic Re-closing Control (TCA)	•	•
Open Pulse Blocking		
TCA Pulse Blocking		
Close Pulse Blocking		
Photocell Trigger Setting		
Fast Close		
Pre-Alarm		
2 Steps	E4	E4
3 Steps		
4 Steps	E4	E4
Deadman Feature	•	•
MISCELLANEOUS		
Accessories power supply 24V	70mA	70mA
Antenna	•	•
Built-in Receiver	•	•
Learning via Radio Commands	•	•
EE-Link	•	•
ER-Ready		
Self-Diagnosis	PRO	PRO
Statistics Management	PRO	PRO
Central Commands Management	•	•
Conformity to EN 12453-EN12445		



Description

The integrated, quickly adjustable limit switches and built-in radio receiver (in radio version) make the installation of range of operators simple and fast. The wide range of accessories means they can be installed in any context, in either new or renovated buildings.

Integrated limit switches with quick adjustment.



Built-in control unit and radio receiver (LOOP RADIO versions)



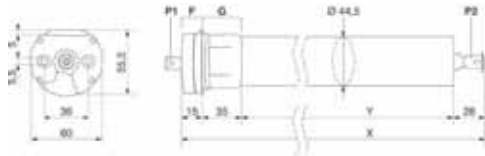
Maximum precision and silence in movement.



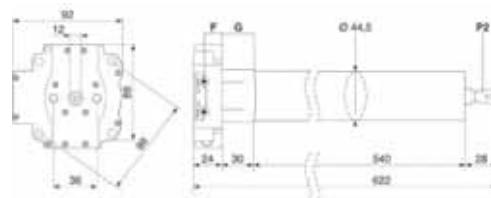
Summary table

Code	Name	Kits	Voltage	Roller diameter	Shutter weight	Legend
P910028 00001	LOOP 50/10		230V	60mm	18kg	A
P910028 00002	LOOP 50/15		230V	60mm	35kg	A
P910028 00003	LOOP 50/35		230V	60mm	55kg	A
P910028 00004	LOOP 50/50		230V	60mm	88kg	A
P910029 00001	LOOP 50/50M		230V	60mm	88kg	A
P910030 00001	LOOP RADIO 50/10		230V	60mm	18kg	A
P910030 00002	LOOP RADIO 50/20		230V	60mm	35kg	A
P910030 00003	LOOP RADIO 50/30		230V	60mm	55kg	A
P910030 00004	LOOP RADIO 50/50		230V	60mm	88kg	A

Dimensions



LOOP/LOOP RADIO



LOOP 50/50M

	X	Y
LOOP 50/10	537 mm	459 mm
LOOP 50/15	537 mm	459 mm
LOOP 50/35	582 mm	504 mm
LOOP 50/50	582 mm	504 mm
LOOP 50/50 M	582 mm	504 mm
LOOP RADIO 50/10	537 mm	459 mm
LOOP RADIO 50/20	537 mm	459 mm
LOOP RADIO 50/30	582 mm	504 mm
LOOP RADIO 50/50	582 mm	504 mm

Technical features

	LOOP 50/10	LOOP 50/15	LOOP 50/35	LOOP 50/50	LOOP 50/50 M	LOOP RADIO 50/10	LOOP RADIO 50/20	LOOP RADIO 50/30	LOOP RADIO 50/50
Control unit	ELBA/ELBA BU					Built-In			
Power supply	230V	230V	230V	230V	230V	230V	230V	230V	230V
Power input	130W	160W	210W	270W	270W	130W	160W	210W	270W
Max torque	10Nm	20Nm	30Nm	50Nm	50Nm	10Nm	20Nm	30Nm	50Nm
Gate speed	16rpm	16rpm	16rpm	12rpm	12rpm	16rpm	16rpm	16rpm	12rpm
Roller diameter	60mm	60mm	60mm	60mm	60mm	60mm	60mm	60mm	60mm
N° limit switch revolutions	28	28	28	28	28	28	28	28	28
Type of limit switch	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic	Electronic	Electronic	Electronic
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release					Handle				
Frequency of use	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential
Environmental conditions	from -10°C to 40°C								
Actuator weight	2.1kg	2.2kg	2.75kg	2.8kg	3.3kg	2.1kg	2.2kg	2.75kg	2.8kg

ELBA

Control panel, max 230V/470W, for LOOP type operator for roller shutters



B

ELBA D113716 00002

- Application: control panel for LOOP type operator for roller shutters
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 470W max
- Main features: Extremely compact size for installation in shutter case, programming with potentiometers and dip switches, built-in receiver
- Main functions: separate open/close, photocells input, possibility of centralised controls, anemometer and twilight sensor management
- Compatibility: CAPRI, CAPRI RIC, CAPRI TCA



132 Family accessories



ELBA BU D113717 00002
Control panel, max 230V/470W, for roller shutters or roll-up doors

B



ELBA D113716 00002
Control panel, max 230V/470W, for LOOP type operator for roller shutters

B



ER 1 P130025
External receiver for LOOP series operators. Compatible with TEL 1, TEL 5 and TIMER transmitters

D



ANEM P111182
Anemometer wind sensor

B



CREP P111183
Twilight sensor

B



SCS 1 P111376
Available while stock lasts

B



B EBA 201 R01 P111468
Expansion board for serial control central groups connection

B



KIT TL 60 P130018
Basic accessories kit for the installation of a LOOP actuator



KIT TL 60 M P130020
Basic accessories kit for the installation of a LOOP M actuator



SM504 P130015
Support with bearing for octagonal roller - screw type



SM505 P130014
Support for octagonal roller - cementing type



AD 5027 N999323
Drive wheel and limit switch adapter for RUL60




















SM5013 N999324
Wall-mounted orientable support for LOOP operators with manual release

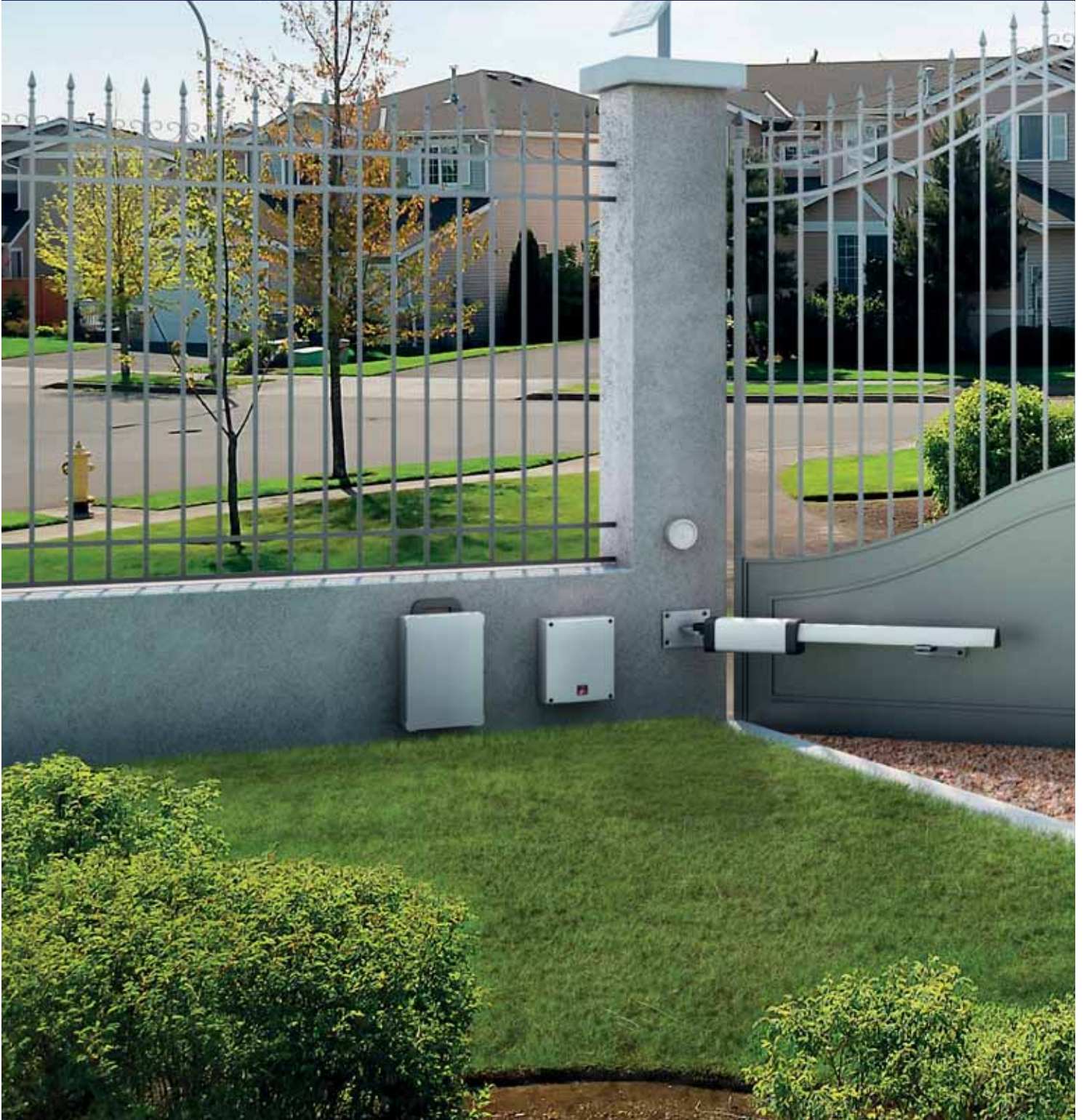


SM5014 N999325
Wall-mounted orientable support for LOOP operators with square-section snap-on shaft for direct coupling

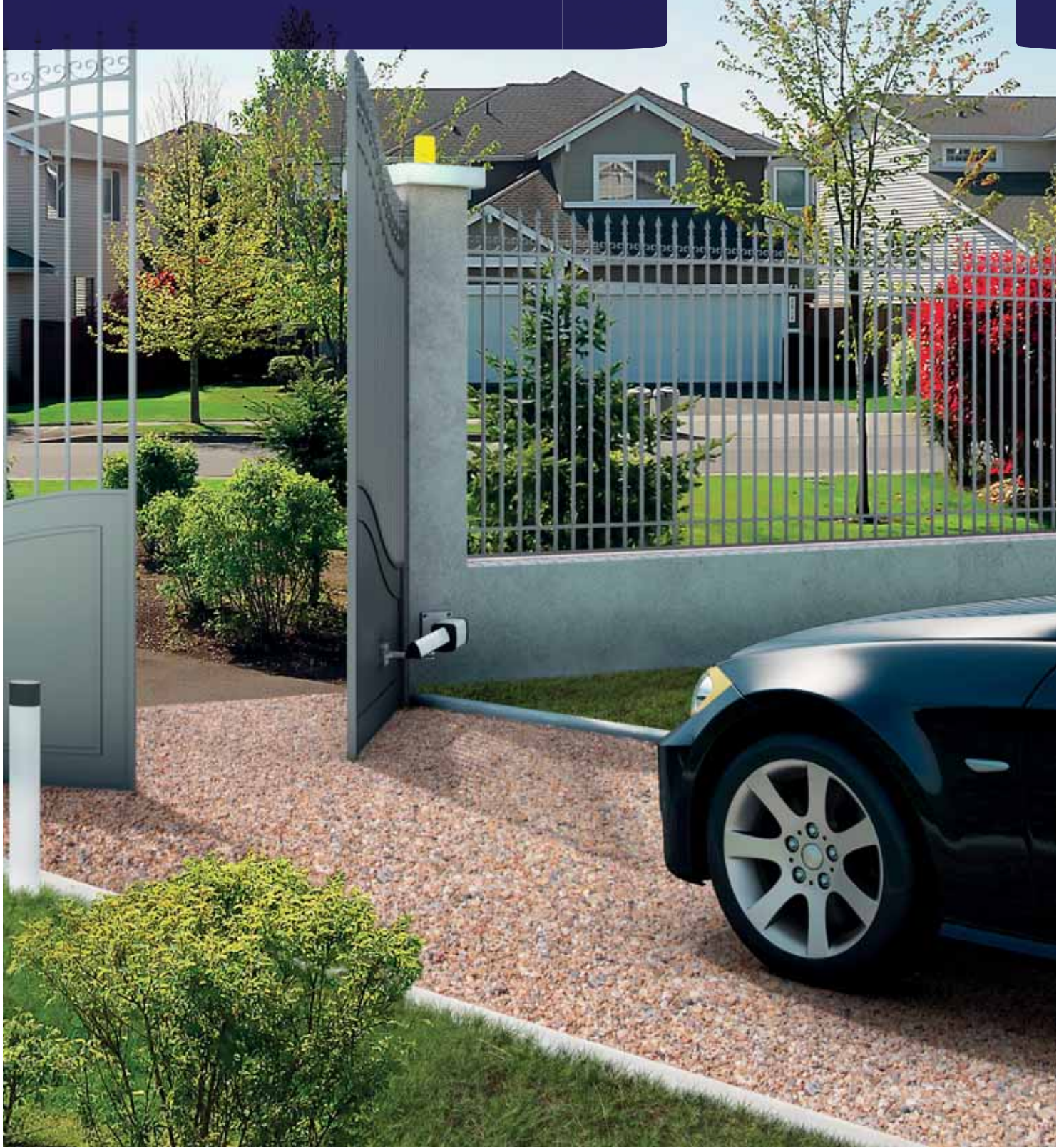


SM5015 N999326
Wall-mounted two-position orientable support for LOOP operators with manual release

 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">S</div>	<p>BLOCCANTI 40 P130001</p> <p>Anti-break-in block for shutters with slats of height 40 mm.</p>	 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">S</div>	<p>BLOCCANTI 50 P130013</p> <p>Anti-break-in block for shutters with slats of height 50 mm.</p>
	<p>RUL 60/1,5 P130010</p> <p>Octagonal shutter winding roller diameter 60 x 1.5 m.</p>		<p>RUL 60/3 P130012</p> <p>Octagonal shutter winding roller diameter 60 x 3 m.</p>
	<p>RUL 60/6 P130008</p> <p>Octagonal shutter winding roller diameter 60 x 6 m.</p>		<p>CAL 60/100 P130002</p> <p>Adjustable telescopic octagonal cover for RUL 60.</p>
	<p>CAL 60/30 P130004</p> <p>Octagonal cover for RUL 60.</p>		
 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">L</div>	<p>TEL 1 D111828</p> <p>1-channel remote control for LOOP RADIO and ER-1 receiver.</p>	 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">L</div>	<p>TEL 5 D111829</p> <p>5-channel remote control for LOOP RADIO and ER-1 receiver.</p>
 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">L</div>	<p>TEL FIX P130023</p> <p>Wall-mounted remote control for LOOP RADIO operator.</p>	 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">L</div>	<p>Timer P130024</p> <p>Weekly programmer for LOOP RADIO or external ER-1 receiver.</p>
 <div style="border: 1px solid black; width: 15px; height: 15px; text-align: center; margin-left: auto; margin-right: auto;">L</div>	<p>RB P121016</p> <p>4-channel wall-mounted radio control with rolling code</p>		
	<p>MM8 N999328</p> <p>Manual operation eye-ring for LOOP 50/50 M</p>		<p>MM9 N999329</p> <p>45° manual operation universal joint for LOOP 50/50 M</p>
	<p>MM10 N999330</p> <p>90° manual operation universal joint for LOOP 50/50 M</p>		<p>MM11 N999331</p> <p>1.5 m articulated manual operation crank with hook for LOOP 50/50 M</p>
	<p>MM12 N999332</p> <p>1.5 m rigid manual operation crank with hook for LOOP 50/50 M</p>		



Solar-powered System





Ecosol

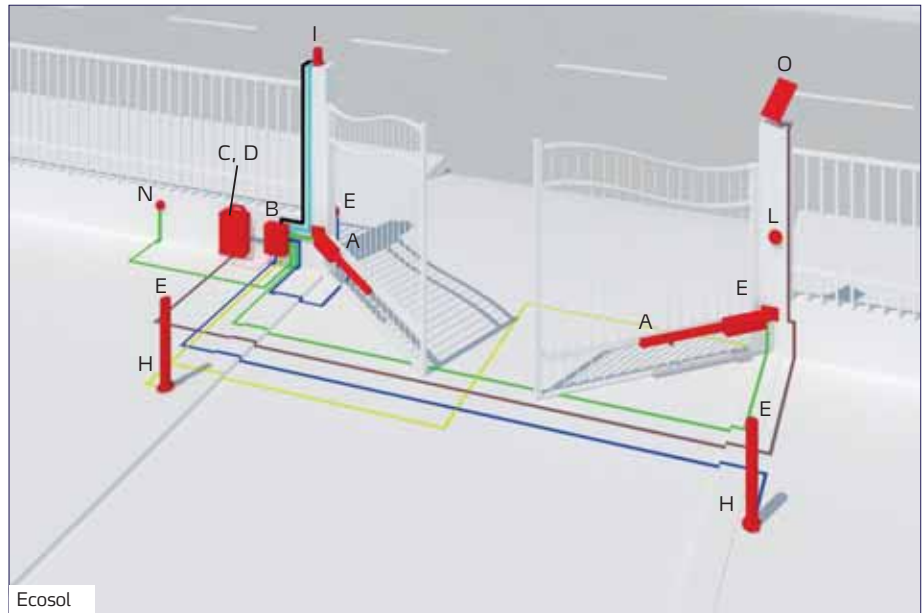
The complete BFT ECOSOL range makes it possible to create an autonomous solar-powered system.
The ECOSOL system is particularly recommended for doors and gates in remote locations or with no access to the electricity mains, and can be used in all BFT 24 V systems, either new or pre-existing.

Autonomy of system

	ECOSOL*	ECOSOL+DOUBLE*
Built-in		
HYDRA R	8	16
LIBRA C MA - PHOBOS BT (from vers. 6.02)	21	42
LIBRA C MA - ELI250 BT (from vers. 6.02)	5	10
LIBRA C LX - LUX BT (from vers. 1.07)	5	10
LIBRA C LX - LUX G BT (from vers. 1.07)	3	7
LIBRA C MV (from vers. 1.04 MICHELANGELO)	15	30
LIBRA C MO (from vers. 1.00.1 MOOVI BT)	20	40
LINX - VIRGO	22	44
QSCD MA - DEIMOS BT	9	19
QSCD MA - URANO BT	7	15
HQSCD - ARES 1500	6	13
VENERE D - EOS120	9	18
VENERE D - ARGO + SCS-IO	8	16
VENERE D - ARGO G + SCS-IO	8	16

*N° of days operation without sun: 10 cycles per day with 1 pair of 130 photocells, one blinker. Cycle time 25 Sec. 10 Sec. TCA.

A	Operator
B	Control unit
C	Backup Batteries
D	Receiver
E	Photocell
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
O	Solar panel
	2x1.5
	2x0.75
	3x1.5
	RG 58
	5x1
	2x1





Description

Ecosol is a complete solar-powered system for low voltage installations. It is ideal for doors and gates that are not easily reachable from the electricity mains, thanks to its compatibility with all 24V systems, both old and new, and is adaptable to all contexts.

The system components are interconnected with sealed, quick-fit connectors to ensure maximum simplicity in daily use.



The control panels have a useful handle to make them easy to carry when they have to be connected to the electricity mains to recharge the batteries.



"Vandal-proof" versions of screws and fasteners can be supplied to guarantee maximum security and safety in all situations.



Summary table

Code	Name	Legend
D113731	ECOSOL BOX	B
D113750	ECOSOL BOX WITHOUT BATTERY	B
D113732	ECOSOL DOUBLE	B
N999471	ECOSOL PANEL	P

Dimensions



ECOSOL PANEL



ECOSOL BOX
ECOSOL DOUBLE

Technical features

	ECOSOL BOX	ECOSOL DOUBLE	ECOSOL PANEL
Nominal voltage	24V	24V	24V
Maximum current	10A	10A	
Peak power			10Wp (Watt-peak)
Battery nominal capacity	7.2Ah	7.2Ah	
Number of batteries	2		
Battery type	12V		
Operating temperature	from -20°C to 50°C		
Maximum panel power	35Wp (Watt-peak)		
Consumption in standby	0.15W		
Environmental conditions	from -20°C to 50°C		
Weight	6kg	5.5kg	2kg

140 Family accessories



ECOSOL POST BR N999473

Set of stainless steel screws and brackets for installing the ECOSOL PANEL on a post of diameter 48-100mm



ECOSOL SECURITY N999475

Anti-tamper stainless steel screws and fasteners for ECOSOL PANEL and ECOSOL POST BR



ECOSOL CABLE N999476

20 m extension for ECOSOL CHARGER



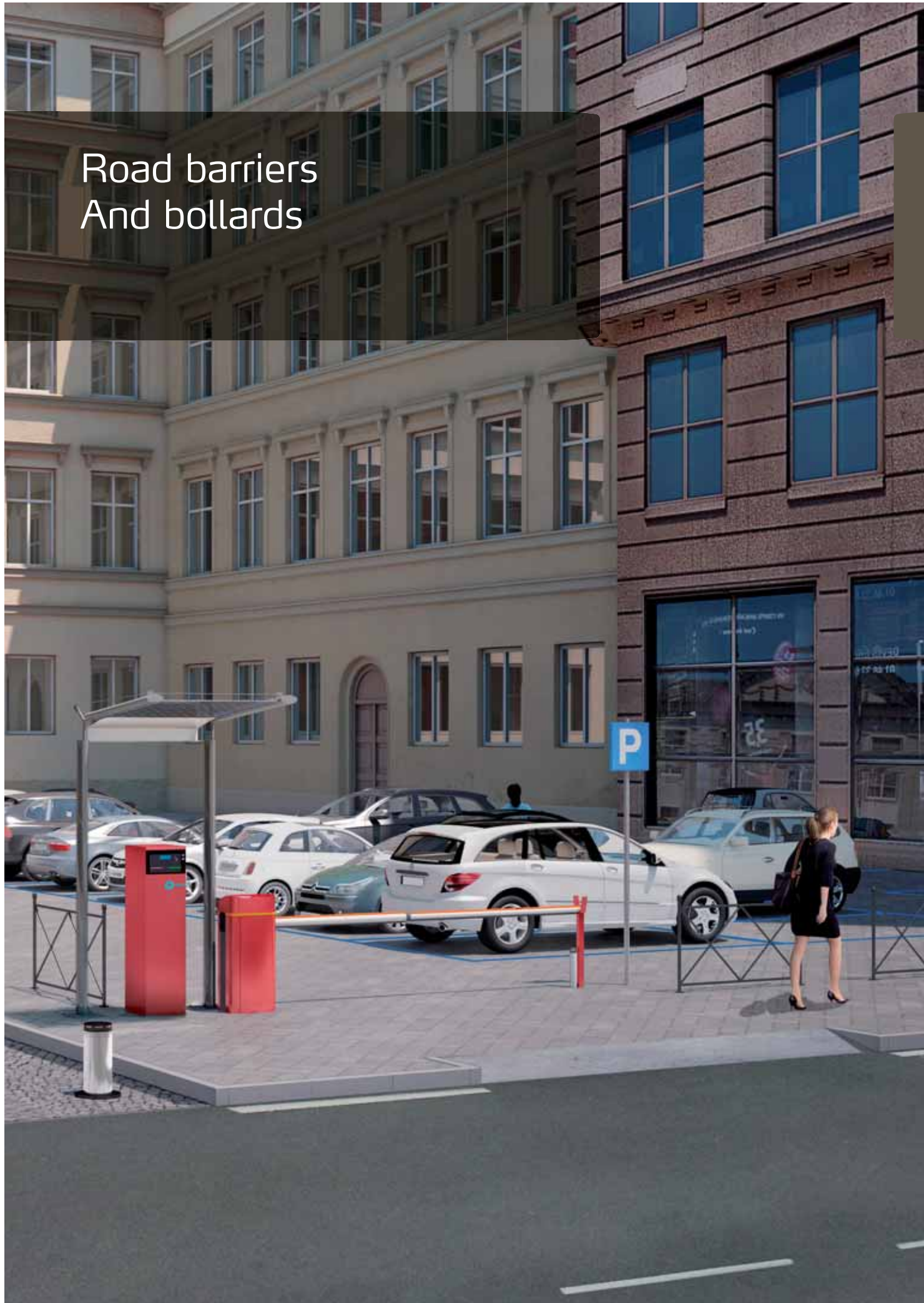
ECOSOL CHARGER N999477

Battery chargers for ECOSOL BOX and ECOSOL DOUBLE





Road barriers And bollards



Road barriers And rising bollards



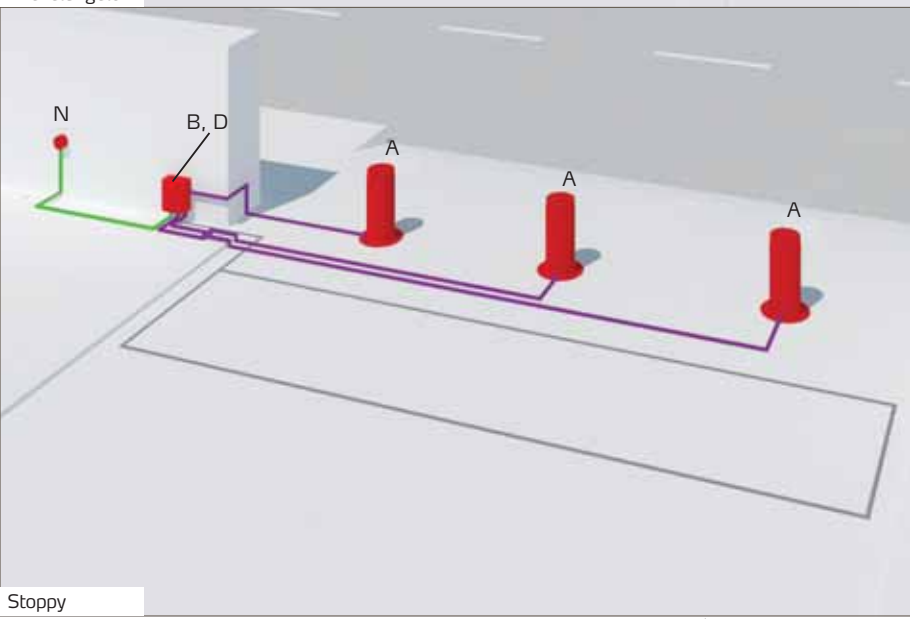
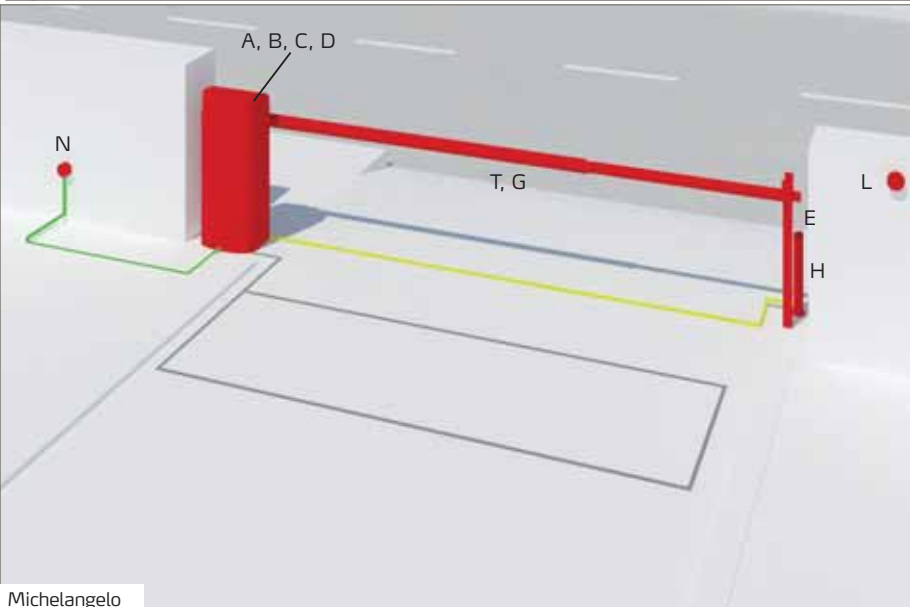
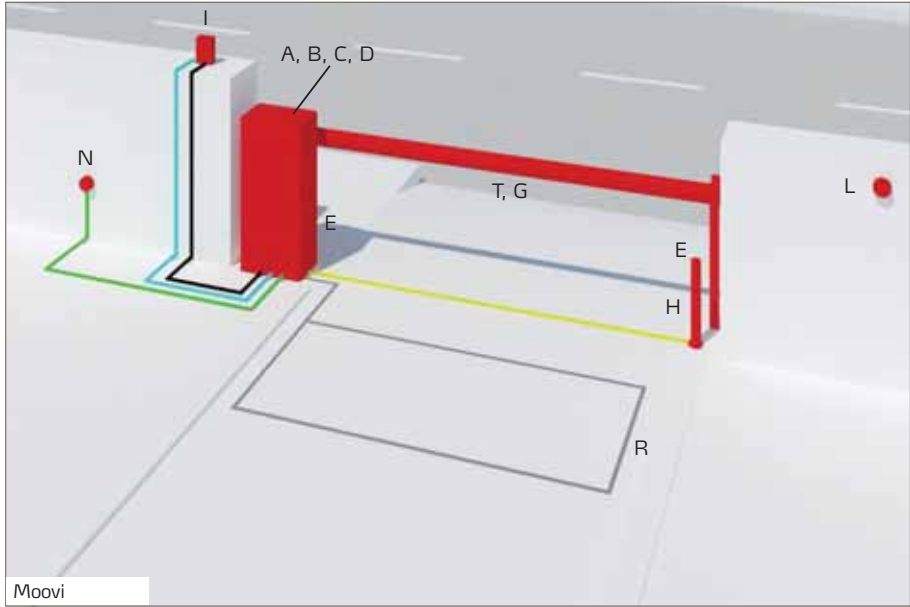
BFT produces automatic road barriers and parking bollards and rising bollards for entrances to residential complexes, car parks, industrial areas and private areas, specially designed to adapt perfectly to the existing spaces.

The whole range is characterised by great installation versatility and extreme simplicity in maintenance.

	Useful passage Rod height	Voltage	Opening or closing time	Case treatment	Operator	pag.
road barriers	3m	230V	4sec	Cataphoresis	MOOVI 30	148
				Cataphoresis	MOOVI 30 RMM	148
		230V	1.5+slowdown sec	Cataphoresis	MOOVI 30S	148
				Stainless steel	MOOVI 30S INOX	148
		230V	4sec	Stainless steel	MOOVI 30 RMM INOX	148
				Cataphoresis	MOOVI 30 BT	148
	24V	4sec	Cataphoresis	GIOTTO 30 BT	158	
			Cataphoresis	GIOTTO 30S BT	158	
	5m	230V	8sec	Cataphoresis	MOOVI 50	148
				Cataphoresis	MOOVI 50 RMM	148
		230V	8sec	Stainless steel	MOOVI 50 RMM INOX	148
				Cataphoresis	MOOVI 50 BT	148
		24V	8sec	Cataphoresis	GIOTTO 50 BT	158
				Cataphoresis	GIOTTO 50S BT	158
	24V	4sec	Cataphoresis	MICHELANGELO 40 BLUE	154	
			Cataphoresis	MICHELANGELO 40 RED	154	
	6m	24V	6sec	Cataphoresis	MICHELANGELO 60 BLUE	154
				Cataphoresis	MICHELANGELO 60 RED	154
8m	24V	8sec	Cataphoresis	MICHELANGELO 80 BLUE	154	
			Cataphoresis	MICHELANGELO 80 RED	154	

	Rod height	Voltage	Opening or closing time	Case treatment	Operator	pag.
rising bollards	500mm	230V	6sec	reflective film	—STOPPY F	160
				reflective film	—STOPPY	160
				reflective film	—STOPPY L	160
				reflective film	—STOPPY LAR	160
				Stainless steel	—STOPPY LAR INOX	160
				reflective film	—STOPPY H F	160
	700mm	230V	9sec	reflective film	—STOPPY H	160
				reflective film	—STOPPY H L	160
				reflective film	—STOPPY H LAR	160
				reflective film	—STOPPY H LAR INOX	160
				Stainless steel	—STOPPY H LAR INOX	160
				Painted with polyester powder	—TOWER	164
	600mm	230V	6sec	Stainless steel	—TOWER INOX	164
				Painted with polyester powder	—TOWER F	164
				Stainless steel	—TOWER F INOX	164
				Painted with polyester powder	—PILLAR	162
	800mm	230V	8sec	Stainless steel	—PILLAR INOX	162
				Painted with polyester powder	—PILLAR F	162
				Stainless steel	—PILLAR F INOX	162
				Painted with polyester powder	—PILLAR H	162
	900mm	230V	9sec	Stainless steel	—PILLAR H INOX	162
				Painted with polyester powder	—PILLAR H F	162
				Stainless steel	—PILLAR H F INOX	162
				Painted with polyester powder	—TOWER H	164
				Stainless steel	—TOWER H INOX	164
				Painted with polyester powder	—TOWER H F	164
				Stainless steel	—TOWER H F INOX	164

A	Operator
B	Control unit
C	Backup Batteries
D	Receiver
E	Photocell
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
R	Magnetic loop detector
T	Boom
	2x1.5
	3x1.5
	RG 58
	2x1
	13x1



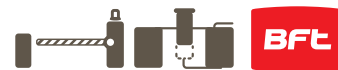
Road barriers and bollards associations

	LEO MV D	LIBRA C MV	LIBRA C MO	ALPHA BOM	PERSEO 2	PLR CB	TWR CB
MOOVI 30				Built-In			
MOOVI 50				Built-In			
MOOVI 30S	Built-In						
MOOVI 30 RMM	Built-In						
MOOVI 50 RMM	Built-In						
MOOVI 30 BT			Built-In				
MOOVI 50 BT			Built-In				
MICHELANGELO 40		Built-In					
MICHELANGELO 60		Built-In					
MICHELANGELO 80		Built-In					
PILLAR						Recommended	
STOPPY					Recommended		
STOPPY H					Recommended		
STOPPY O							
PILLAR H						Recommended	
TOWER							Recommended
TOWER H							Recommended

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator
Built-in	Installed and partially wired inside the operator

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board

	LEO MV D	LIBRA C MV	LIBRA C MO	ALPHA BOM	PERSEO N	PERSEO O
MOTORS POWER SUPPLY						
Motor 1 230V output	•			•		
Motor 4 230V output					•	•
Motor 1 24V output		•	•			
LIMIT SWITCH INPUTS						
Single for Opening	•	•	•		•	•
Single for Closing	•	•	•		•	•
Separate Inputs for Opening				•		
Separate Inputs for Closing				•		
Encoder	•	•	•			
CONTROLS INPUTS						
Start	•	•	•	E1	•	•
Pedestrian Start				E2		
Internal Start						
Open	•	E1	E1	E1	•	•
Close	•	•	•	E2	•	•
Timer	•	E1	E1			
Pedestrian Timer						
EMERGENCY STOP						
Stop	•	•	•	•	•	•
SAFETY SYSTEMS INPUTS						
Photocells	•	E2	E2	E3		
Photocells for Opening	•	E2	E2	E3		
Photocells for Closing					•	•
Photocells Inputs Check	•	•	•			
Safety Edge	•	•	•	E3		
8K2 Safety Edge						
Safety Edges Inputs Check	•					
AUXILIARY INPUTS/OUTPUTS						
Blinker	•	•	•		•	•
Gate Open Warning Light	•	•	•	E4		
Second Radio Channel				E4		
Alarm		•	•			
MOTORS CONTROLS						
Torque Control	•	•	•			
Obstacle Recognition	•	•	•	•		
Dynamic Path Tracking						
Speed Control		•	•			
Slowdown Control	•	•	•			
Speed and Slowdown Control	•	•	•			
Brake	•				•	•
Opening Delay Control						
Closing Delay Control						
Backup Batteries Connection		•	•		•	•
ICE Function					•	•
FUNCTIONS						
Automatic Re-closing Control (TCA)	•	•	•	•		
Open Pulse Blocking	•	•	•	•		
TCA Pulse Blocking		•	•			
Close Pulse Blocking		•	•			
Photocell Trigger Setting		•	•			
Fast Close	•	•	•	•		
Pre-Alarm	•	•	•			
2 Steps		E3	E3		•	•
3 Steps	•	E3	E3	E		
4 Steps		E3	E3	E		
Deadman Feature		•	•		•	•
Traffic-Light Management					•	•
MISCELLANEOUS						
Accessories power supply 24V	1A	180mA	180mA	180mA	1A	1A
Phototransmitters power supply	•				•	•
Antenna	•			•		
Audible warning					Opt.	Opt.
Built-in Receiver	•	•	•	•	•	•
Learning via Radio Commands	•	•	•	•		
EE-Link	•	•	•	•		
ER-Ready		•	•			
Self-Diagnosis						
Statistics Management			•			
Central Commands Management	•	•	•		•	•
Conformity to EN 12453-EN12445	•	•	•			



Description

Range of barriers for intensive use, for clear openings of up to 5 metres.

Available in 24V and 230V versions, with a wide range of accessories making them ideal for any context.



Control unit with programming display and built-in dual channel radio receiver.



Limit switch system with electronic adjustment (BT range) that speeds up installation and ensures maximum precision in movement.

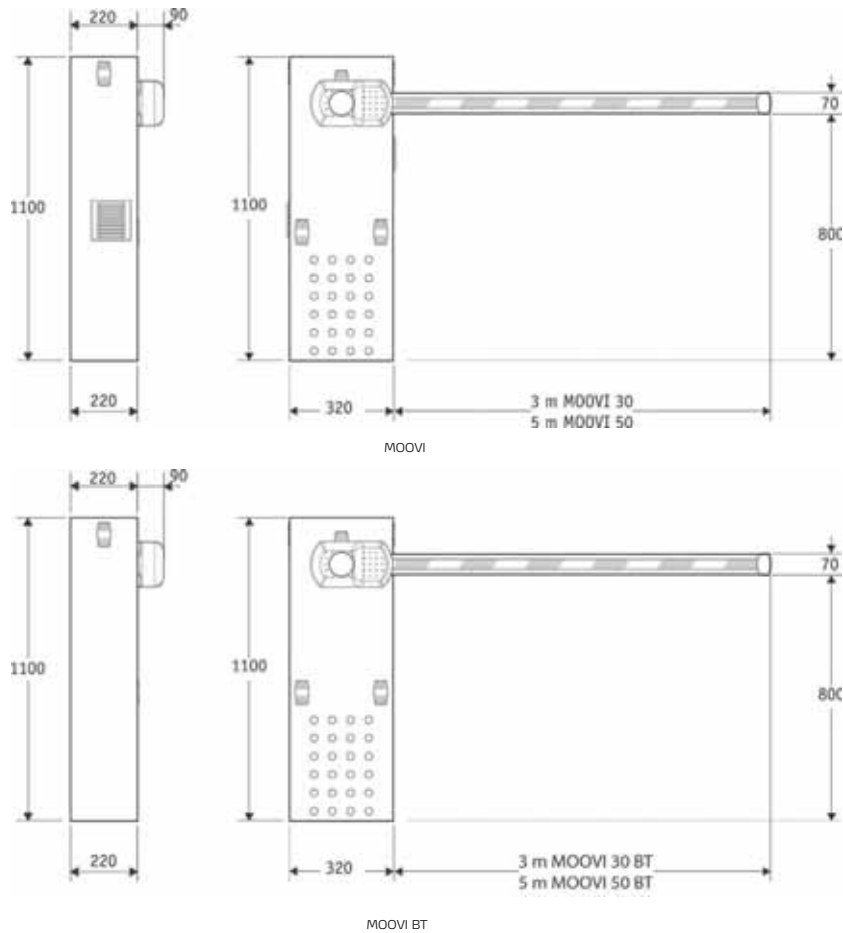
Backup battery power supply system, installable on-board unit (24V versions).



Summary table

Code	Name	Voltage	Useful passage	Legend
P940026 00002	MOOVI 30	230V	3m	A
P940035 00002	MOOVI 30 BT (Available while stocks last)	24V	3m	A
P940027 00002	MOOVI 30 RMM	230V	3m	A
P940027 00004	MOOVI 30 RMM INOX	230V	3m	A
P940030 00002	MOOVI 30S	230V	3m	A
P940031 00002	MOOVI 30S INOX	230V	3m	A
P940028 00002	MOOVI 50	230V	5m	A
P940036 00002	MOOVI 50 BT (Available while stocks last)	24V	5m	A
P940029 00002	MOOVI 50 RMM	230V	5m	A
P940029 00004	MOOVI 50 RMM INOX	230V	5m	A

Dimensions

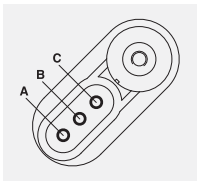


Technical features

	MOOVI 30	MOOVI 30 BT	MOOVI 30 RMM	MOOVI 30S	MOOVI 50	MOOVI 50 BT	MOOVI 50 RMM
Control unit	ALPHA BOM	LIBRA C MV	LEO MV D		ALPHA BOM	LIBRA C MV	LEO MV D
Power supply	230V	24V	230V	230V	230V	24V	230V
Power input	300W	300W	300W	300W	300W	300W	300W
Opening or closing time	4sec.	2sec.	4sec.	1.5 + slowdownsec.	8sec.	3.5sec.	8sec.
Type of limit switch	electric, incorp. and adjustable	electronic open/close	electric, incorp. and adjustable	electric, incorp. and adjustable	electric, incorp. and adjustable	electronic open/close	electric, incorp. and adjustable
Slowdown		adjustable		adjustable		adjustable	
Impact reaction	Sensitive edge	Encoder	Encoder	Encoder	Sensitive edge	Encoder	Encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	personal release key	personal release key	personal release key	personal release key	personal release key	personal release key	personal release key
Frequency of use	very intensive	very intensive	very intensive	very intensive	Intensive	very intensive	Intensive
Environmental conditions	from -20°C to 50°C						
Actuator weight	35.6kg	41kg	35.6kg	33.6kg	35.6kg	42kg	35.6kg

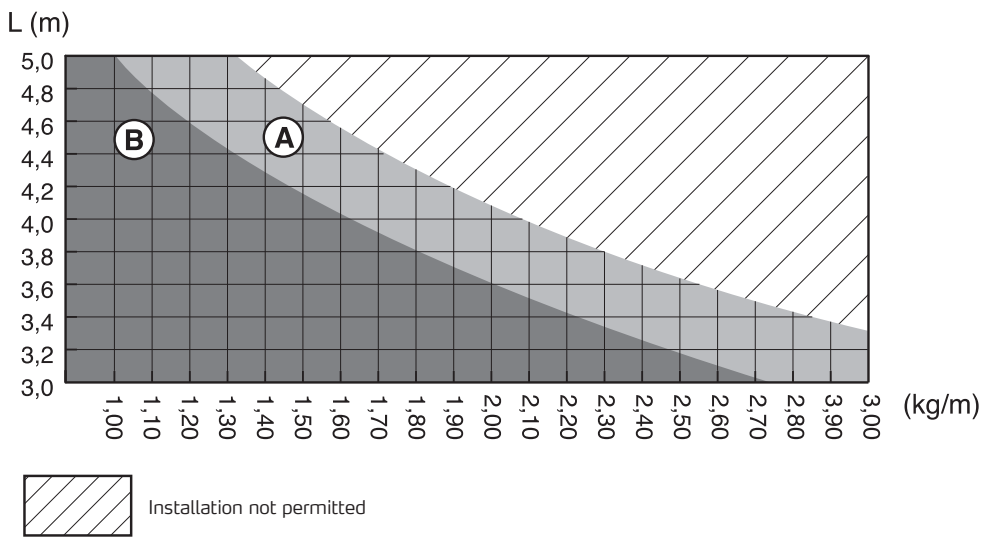
Useful length of boom and balancing

	Weight
PA*	1.028
BIR	1.25
SB	0.51
1PCA	0.16
2PCA	0.32
MOOVI Light + 1PCA	0.23

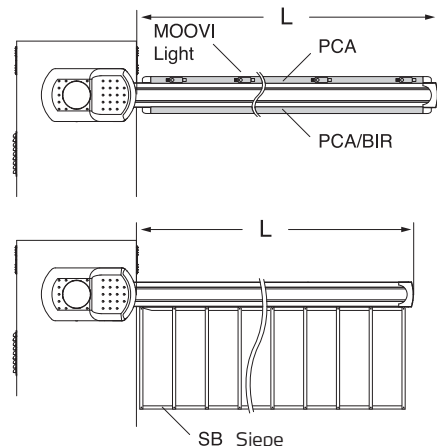
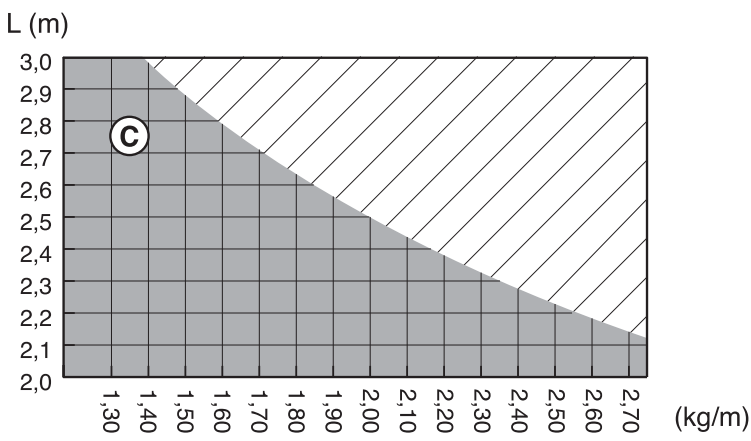


PA* Weight of boom without accessories

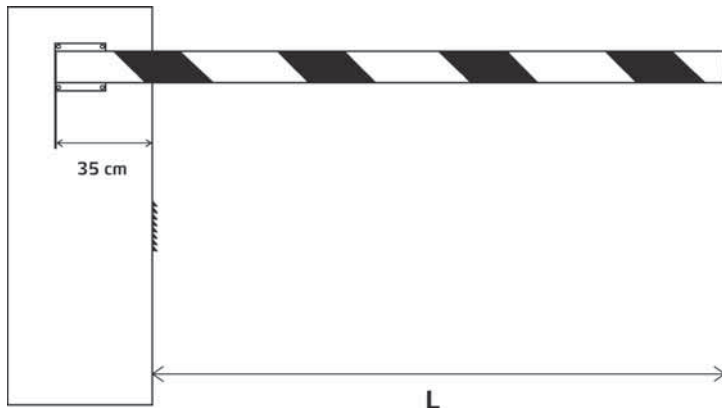
MOOVI 50 RMM



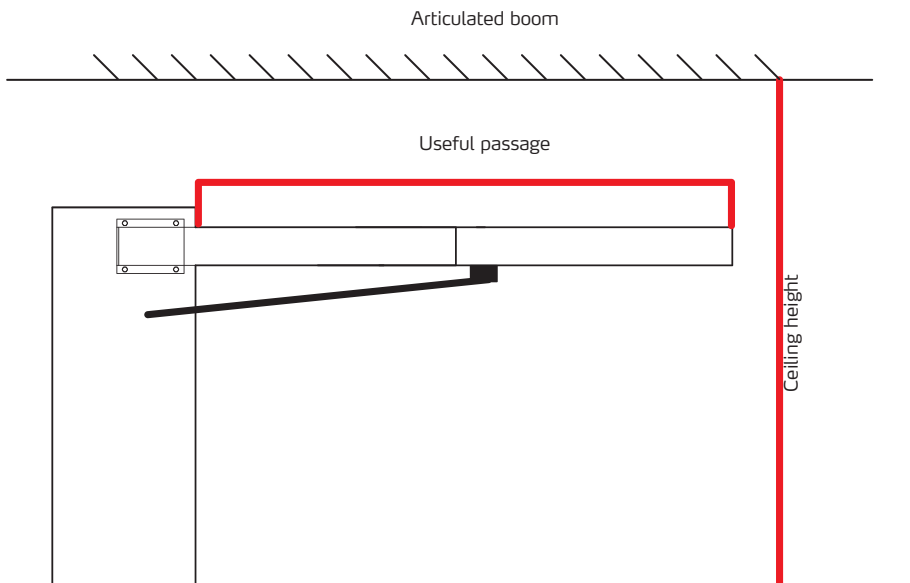
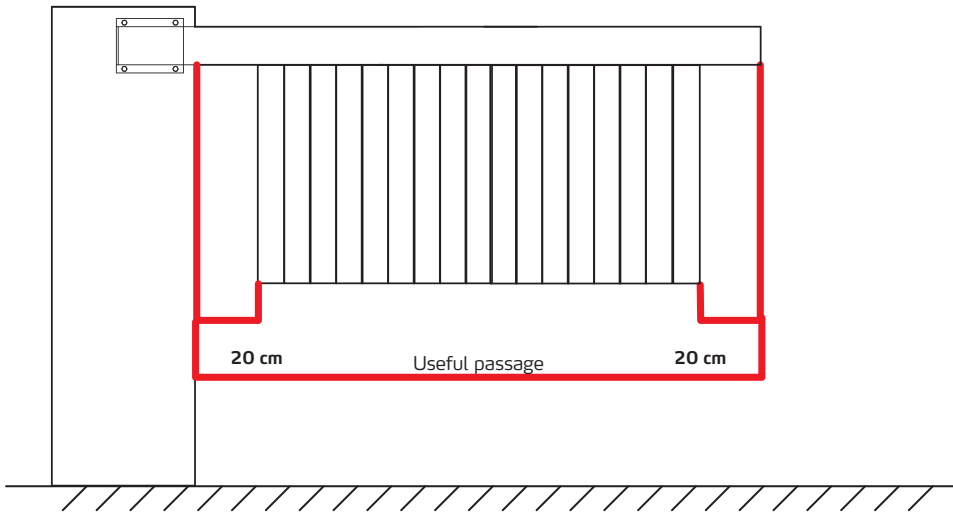
MOOVI 30 RMM

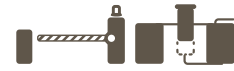


Useful length of boom and balancing



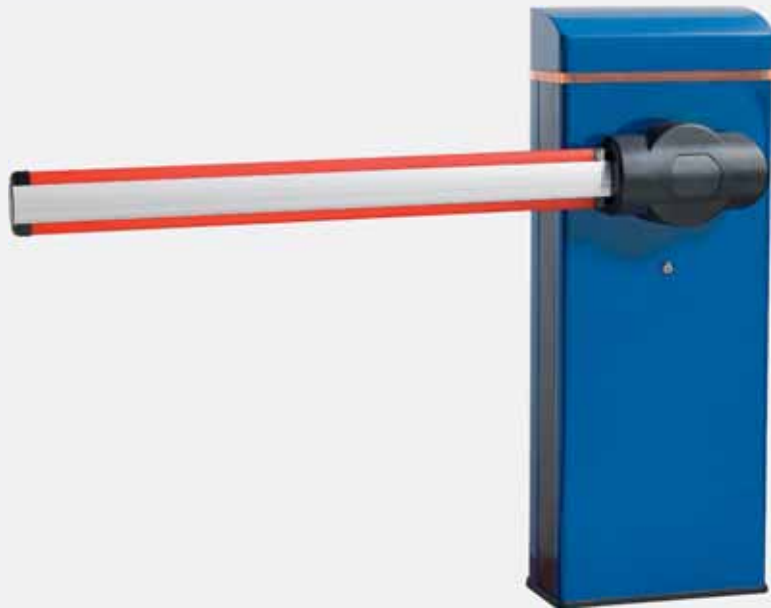
L: USEFUL LENGTH OF BOOM.





Description

Range of barriers for intensive use, for clear openings of up to 8 metres.
The wide range of accessories, the built-in blinker and the fittings for photocells make them ideal in all contexts



((€R-Ready))



Control unit with programming display and built-in dual channel radio receiver fitted to the top of the unit for easier, handier access.



Limit switch system with electronic adjustment that speeds up installation and ensures maximum precision in movement.

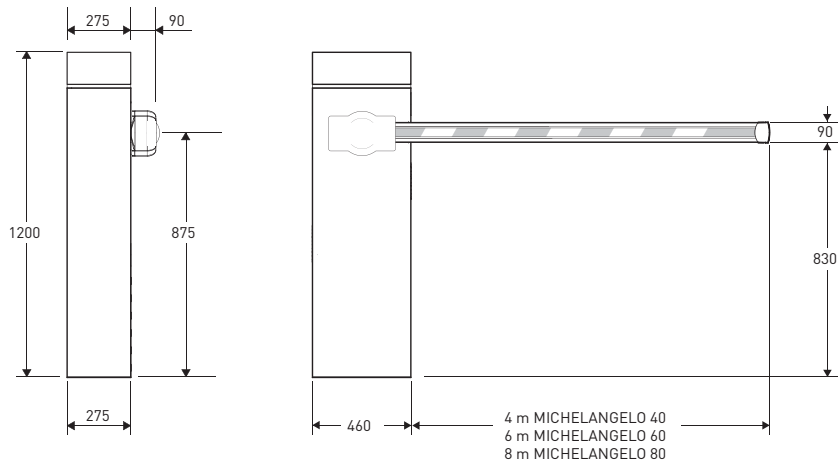
Backup battery power supply system, installable on-board unit.



Summary table

Code	Name	Voltage	Useful passage	Legend
P941008 00001	MICHELANGELO 40 BLUE	24V	4m	A
P941005 00001	MICHELANGELO 40 RED	24V	4m	A
P941002 00001	MICHELANGELO 60 BLUE	24V	6m	A
P941006 00001	MICHELANGELO 60 RED	24V	6m	A
P941004 00001	MICHELANGELO 80 BLUE	24V	8m	A
P941007 00001	MICHELANGELO 80 RED	24V	8m	A

Dimensions



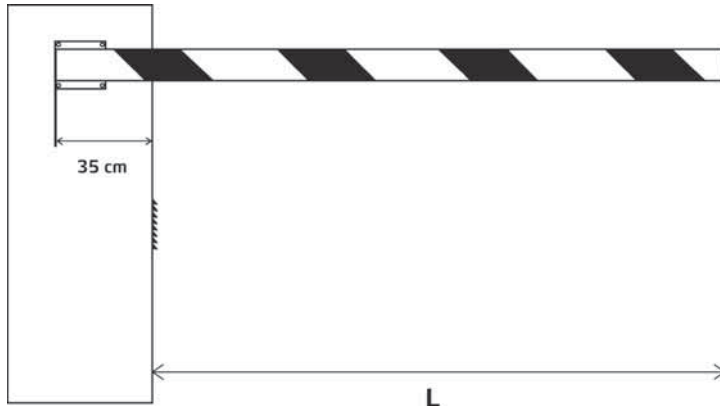
Technical features

	MICHELANGELO 40	MICHELANGELO 60	MICHELANGELO 80
Control unit	LIBRA C MV		
Power supply	24V	24V	24V
Power input	300W	300W	300W
Opening or closing time	4sec.	6sec.	6sec.
Type of limit switch	electronic	electronic	electronic
Slowdown	adjustable	adjustable	adjustable
Impact reaction	Torque limiter	Torque limiter	Torque limiter
Locking	Mechanical	Mechanical	Mechanical
Release	Personal release key	Personal release key	Personal release key
Frequency of use	Very intensive	Very intensive	Very intensive
Environmental conditions	from -20 (-40 with THERMO)°C to 50°C		
Actuator weight	55kg	58kg	68kg

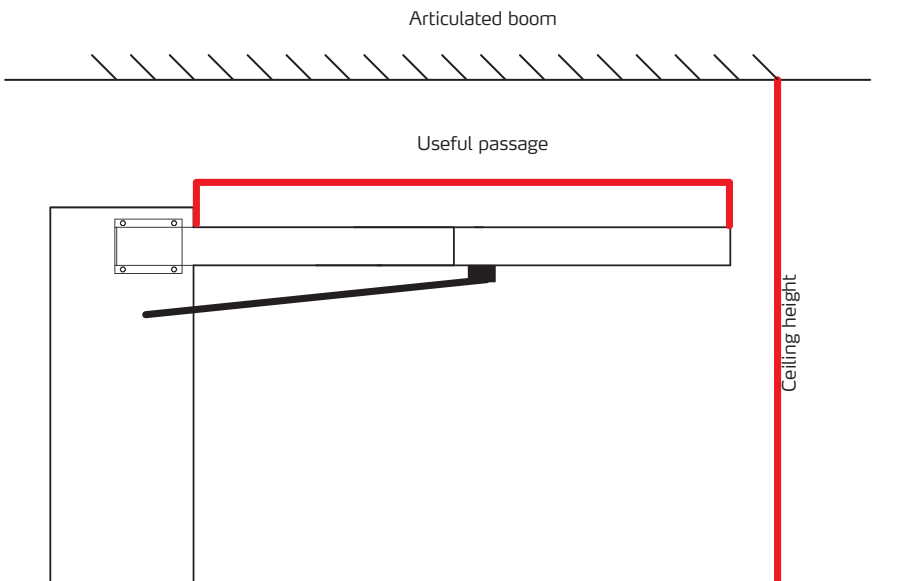
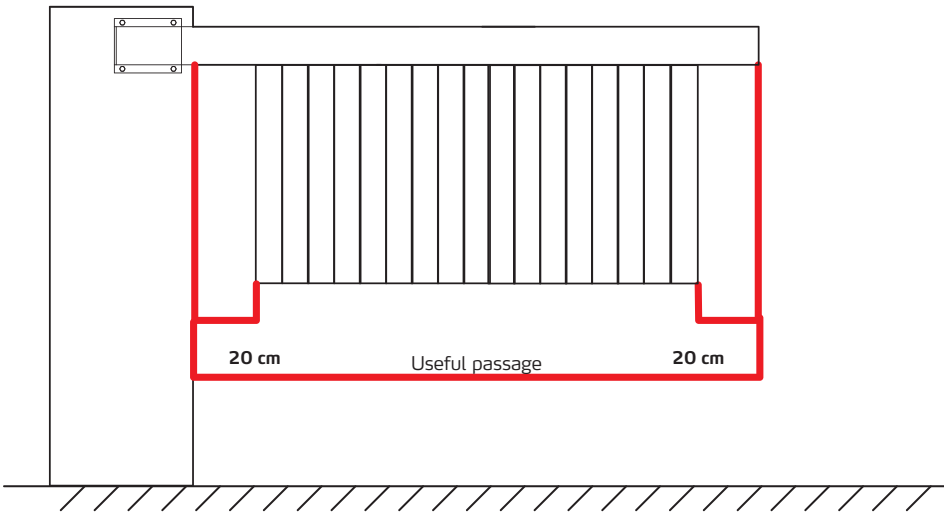


		USEFUL LENGTH OF BOOM AND BALANCING																		
ACCESSORIES																				
BIR	A																			
	B																			
GAM	A																			
	B																			
KIT MCL LIGHT	A																			
	B																			
MCL PCA (above boom only)																				
MCL PCA (below boom only)																				
SB	A																			
	B																			
MCL 40 + ATT704	A																			
	B																			
MCL 40 + ELL6	A																			
	B																			
MCL 60 + ELL6	A																			
	B																			
MCL 60 + ATT704 + ATT502	A																			
	B																			
MCL 60 + ATT706	A																			
	B																			
MCL 80 + ATT706	A																			
	B																			

Useful length of boom and balancing



L: USEFUL LENGTH OF BOOM.



Description

Range of barriers for intensive use, for clear openings of up to 5 metres.

Available in 24V versions, with a wide range of accessories making them ideal for any context.



((€R-Ready))



Control unit located in an easily accessible position and separate from the mechanical part



Limit switch system with electronic adjustment (BT range) that speeds up installation and ensures maximum precision in movement.



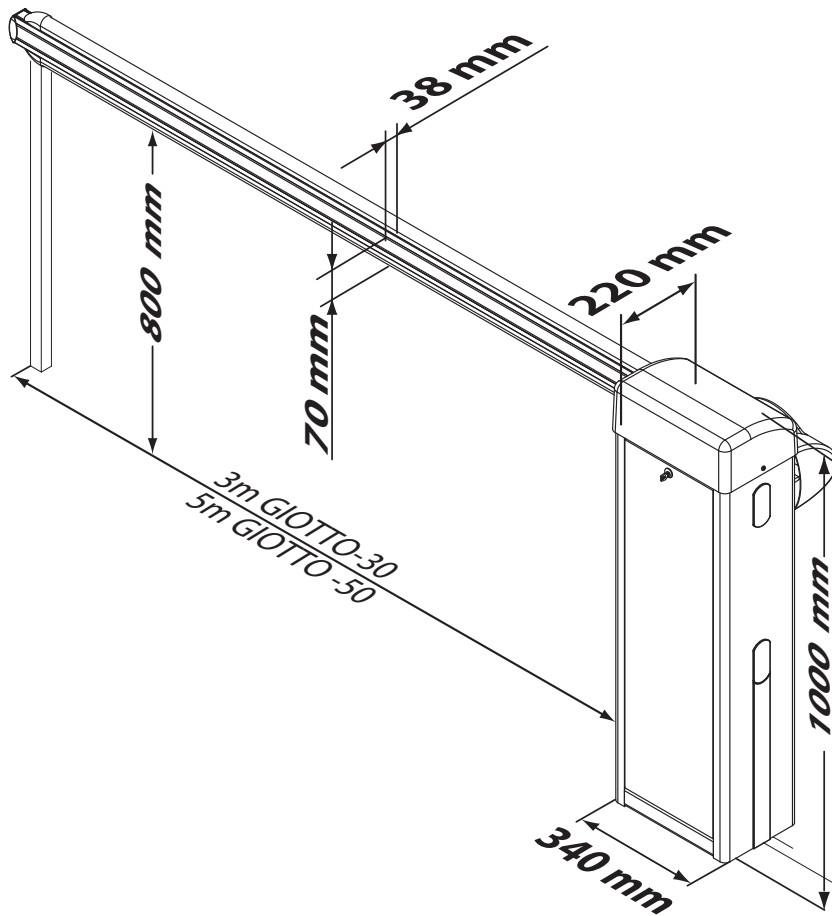
Backup battery power supply system, installable on-board unit (24V versions).



Summary table

Code	Name	Voltage	Useful passage	Legend
P940040 00002	GIOTTO 30 BT	24V	3m	A
P940042 00002	GIOTTO 30S BT	24V	3m	A
P940041 00002	GIOTTO 50 BT	24V	5m	A
P940043 00002	GIOTTO 50S BT	24V	5m	A

Dimensions



Technical features

	GIOTTO 30 BT	GIOTTO 30S BT	GIOTTO 50 BT	GIOTTO 50S BT
Control unit	LIBRA C G	LIBRA C GS	LIBRA C G	LIBRA C GS
Power supply	230V	230V	230V	230V
Motor power supply	24V	24V	24V	24V
Power input	250W	300W	250W	300W
Opening or closing time	4sec	2.5sec	8sec	4sec
Type of limit switch	electronic open/close	electronic open/close	electronic open/close	electronic open/close
Slowdown	adjustable	adjustable	adjustable	adjustable
Impact reaction	Encoder	Encoder	Encoder	Encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical
Release	personal release key	personal release key	personal release key	personal release key
Frequency of use	Intensive	Very intensive	Intensive	Very intensive
Environmental conditions	from -10/(-40 with acc. THERMO)°C to 55°C			
Actuator weight	40kg	41kg	41kg	42kg



Description

Complete range of automatic rising bollards for the protection and safety of any spaces requiring controlled access. Ideal for settings of particular architectural interest, guaranteeing maximum reliability over time and requiring very little maintenance.



Wide range of products including versions complete with warning lights, heater and alarm.

Possibility of release and automatic lowering in the event of a power cut.

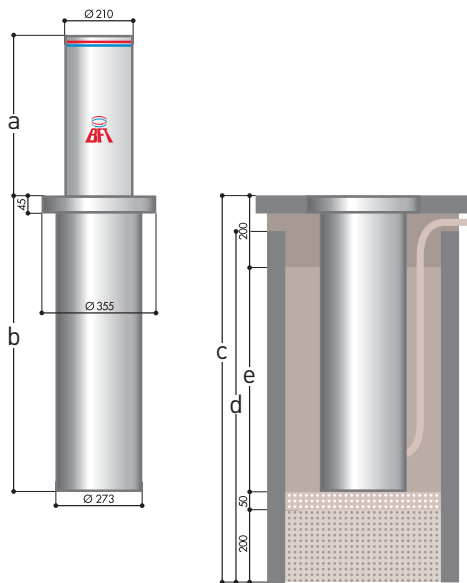
Exact operation and extreme reliability guaranteed by recirculating ball screw-controlled movement.



Summary table

Code	Name	Voltage	Rod height	Legend
P970001 00002	STOPPY	230V	500mm	A
P970001	STOPPY F	230V	500mm	A
P970045 00002	STOPPY H	230V	700mm	A
P970045 00001	STOPPY H F	230V	700mm	A
P970045 00003	STOPPY H L	230V	700mm	A
P970045 00004	STOPPY H LAR	230V	700mm	A
P970045 00005	STOPPY H LAR INOX	230V	700mm	A
P970002 00002	STOPPY L	230V	500mm	A
P970007 00002	STOPPY LAR	230V	500mm	A
P970007 00004	STOPPY LAR INOX	230V	500mm	A

Dimensions



	A	B	C	D	E
STOPPY	500 mm	915 mm	1100 mm	1000 mm	650 mm
STOPPY H	500 mm	915 mm	1100 mm	1250 mm	650 mm

Technical features

	STOPPY	STOPPY H
Control unit	PERSEO 2	
Power supply	230V	230V
Power input	270W	270W
Opening or closing time	6 + slowdownsec.	9 + slowdownsec.
Type of limit switch	REED magnetic sensor	REED magnetic sensor
Slowdown		
Thrust force	70kg	70kg
Max static load with rod raised	300kg	300kg
Max static load with rod lowered	15000kg	15000kg
Max dynamic load	100kg	100kg
Impact resistance	8000J	8000J
Locking	Electric brake	Electric brake
Manual cycle	reversible in the absence of voltage	reversible in the absence of voltage
Frequency of use	Very intensive	Very intensive
Environmental conditions	from -15(-25 in LAR version)°C to 60°C	
Actuator weight	90kg	110kg

PERSEO 2

Universal control panel for one or more 230V/600W operators



B

PERSEO 2 D113744 00002

- Application: control panel for 1 to 4 STOPPY and STOPPY H operators (in parallel)
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 350W max each operator
- Main features: removable terminal blocks, adjustment controlled by potentiometers and fault signalling LEDs
- Main functions: automatic re-closing, separate opening and closing, preflashing, opening authorisation, warning lights mode setting
- Compatibility: PERSEO

Description

Complete range of hydraulic and fixed automatic bollards for the protection and safety of any spaces requiring controlled access.
 Ideal for installation in places of particular architectural interest such as town centres, where maximum reliability and long life are essential.



Built-in hydraulic unit for compactness, ease of installation where there are no underground oil pipes, and zero leakage along oil lines

Great stress resistance

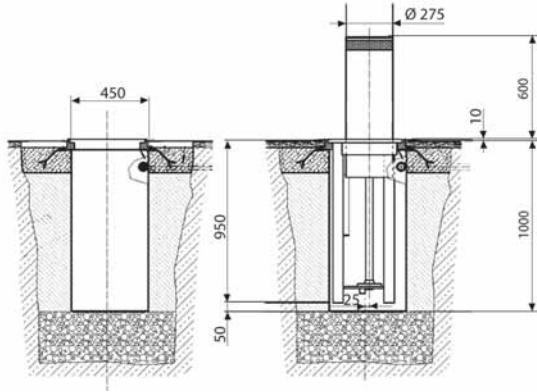
Highly configurable operator, for installation always in line with the customer's requirements



Summary table

Code	Name	Voltage	Rod height	Rod diameter	Legend
P970054 00002	PILLAR	230V	600mm	275mm	A
P970056 00002	PILLAR F		600mm	275mm	A
P970056 00003	PILLAR F INOX		600mm	275mm	A
P970055 00002	PILLAR H	230V	800mm	275mm	A
P970057 00002	PILLAR H F		800mm	275mm	A
P970057 00003	PILLAR H F INOX		800mm	275mm	A
P970057 00003	PILLAR H INOX	230V	800mm	275mm	A
P970054 00003	PILLAR INOX	230V	600mm	275mm	A

Dimensions



Technical features

	PILLAR	PILLAR INOX	PILLAR H	PILLAR H INOX	PILLAR F	PILLAR F INOX	PILLAR H F	PILLAR H F INOX
Control unit	PLR CB							
Power supply	230V	230V	230V	230V				
Rod material	FE37	AISI304	FE37	AISI304	FE37	AISI304	FE37	AISI304
Opening or closing time	6sec	6sec	8sec	8sec				
Impact resistance	20000J	20000J	20000J	20000J	20000J	20000J	20000J	20000J
Break-in proof	250000J	250000J	250000J	250000J	250000J	250000J	250000J	250000J
Locking	Hydraulic	Hydraulic	Hydraulic	Hydraulic				
Manual cycle	Lever key	Lever key	Lever key	Lever key				
Frequency of use	Intensive	Intensive	Intensive	Intensive				
Environmental conditions	from -40°C to 60°C							
Actuator weight	114kg	114kg	124kg	124kg	76kg	76kg	86kg	86kg

Description

Complete range of hydraulic and fixed automatic anti-terrorist bollards for any spaces requiring maximum protection against the access of non-authorized vehicles.

The strengthened steel structure guarantees maximum resistance to breakthrough, even by heavy vehicles such as trucks.



Antiterrorism construction, with reinforced rod 10 mm thick able to withstand extremely violent impact



Built-in hydraulic unit for compactness, ease of installation where there are no underground oil pipes, and zero leakage along oil lines



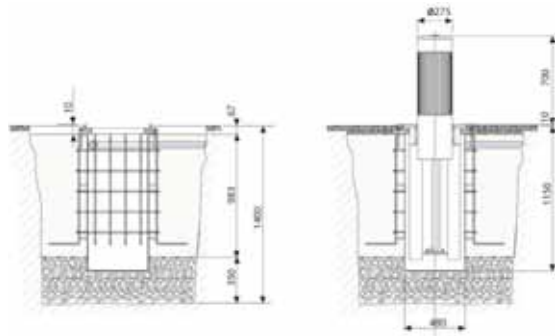
Highly configurable operator, for installation always in line with the customer's requirements



Summary table

Code	Name	Voltage	Rod height	Rod diameter	Legend
P970050 00002	TOWER	230V	700mm	275mm	A
P970052 00002	TOWER F		700mm	275mm	A
P970052 00003	TOWER F INOX		700mm	275mm	A
P970051 00002	TOWER H	230V	900mm	275mm	A
P970053 00002	TOWER H F		900mm	275mm	A
P970053 00003	TOWER H F INOX		900mm	275mm	A
P970051 00003	TOWER H INOX	230V	900mm	275mm	A
P970050 00003	TOWER INOX	230V	700mm	275mm	A

Dimensions



Technical features

	TOWER	TOWER INOX	TOWER H	TOWER H INOX	TOWER F	TOWER F INOX	TOWER H F	TOWER H F INOX
Control unit	PLR CB							
Power supply	230V	230V	230V	230V				
Rod material	FE510	FE510 with AISI304 cover	FE510	FE510 with AISI304 cover	FE510	FE510 with AISI304 cover	FE510	FE510 with AISI304 cover
Opening or closing time	7sec	7sec	9sec	9sec				
Impact resistance	30000J	30000J	30000J	30000J	30000J	30000J	30000J	30000J
Break-in proof	700000J	700000J	700000J	700000J	700000J	700000J	700000J	700000J
Locking	Hydraulic	Hydraulic	Hydraulic	Hydraulic				
Manual cycle	Lever key	Lever key	Lever key	Lever key				
Frequency of use	Intensive	Intensive	Intensive	Intensive				
Environmental conditions	from -40°C to 60°C							
Actuator weight	180kg	180kg	210kg	210kg	120kg	120kg	140kg	140kg



MOOVI / MOOVI BT



ELL 3 N728020
Available while stock lasts-Complete 3 m rectangular boom for MOOVI

T



ELL 5 N728021
Available while stock lasts-Complete 5 m rectangular boom for MOOVI and MICHELANGELO

T



MOOVI ART90 N728029
90° articulated boom for MOOVI barrier. Max clear opening 4 m

T



MOOVI GA D940008
Mobile rest leg for ELL or ATT barrier booms (MOOVI and MICHELANGELO)



MOOVI GAMA D940009
Mobile rest leg with shock absorber for ELL or ATT barrier booms (MOOVI and MICHELANGELO)



CBO D730251
Anchor base for MOOVI series barriers

P



FAF D730088
Fixed rest fork for booms

P



SB D573003
Aluminium skirt for road barrier booms

P



PCA 3 P120003 00001
Upper and lower shaped rubber cover for booms of max 3 m. For MOOVI and MICHELANGELO red



PCA 6 P120003 00002
Upper and lower shaped rubber cover for booms of max 6 m. For MOOVI and MICHELANGELO red



THERMO P120018
Thermostat-controlled heating element allowing the use of MOOVI, MOOVI BT, MICHELANGELO barriers in ambient temperatures as low as -40°C



GTO BAT P120017
Set of buffer batteries for MOOVI and GIOTTO series barriers

C



KIT MOOVI LIGHT1 P120001 00002
Lights for 5 m boom for MOOVI

P



KIT MOOVI LIGHT P120001 00001
Lights for 3 or 4.5 m boom for MOOVI

P



KIT MOOVI 130 P120002
Support for fitting CELLULA 130 on MOOVI enclosure in line with boom

P



KIT MOOVI PRM P120004
Hand protection kit against cutting, for MOOVI

P

MICHELANGELO



ATT 502 N728028
Second part of telescopic round boom for MICHELANGELO, diam. 50 mm, length 2.6 m.

T



ATT 504 N728027
Second part of telescopic round boom for MICHELANGELO, diam. 50 mm, length 4.6 m.

T

MICHELANGELO



T

ATT 704 N728026

First part of telescopic round boom for MICHELANGELO, diam. 70 mm, length 4.3 m.



T

ATT 706 N728030

Round boom diam. 70 mm length 6.35 m for MICHELANGELO. for openings up to 6 m



T

ELL 6 N728022

Complete 6 m rectangular boom for MICHELANGELO


ACC MCL ATT N999386

Accessories pack for ATT 704 / 706 boom



T

ACC MCL ELL N999391

Accessories pack for ELL 6 boom


BM D730964

Anchor base for MICHELANGELO series barriers



P

FAF D730088

Fixed rest fork for booms


MCL FAF D730991

Fixed rest fork for booms. For MICHELANGELO, colour blue


MOOVI GA D940008

Mobile rest leg for ELL or ATT barrier booms (MOOVI and MICHELANGELO)


MOOVI GAMA D940009

Mobile rest leg with shock absorber for ELL or ATT barrier booms (MOOVI and MICHELANGELO)


MCL PCA 6 P120008

Upper and lower shaped rubber cover for booms of max 6 m. For MICHELANGELO only, colour red


MCL PCA 8 P120010

Upper and lower shaped rubber cover for booms of 8 m. For MICHELANGELO only, colour blue


PCA 6 P120003 00002

Upper and lower shaped rubber cover for booms of max 6 m. For MOOVI and MICHELANGELO red


PCA 8 P120003 00003

Upper and lower shaped rubber cover for booms of 8 m. For MOOVI and MICHELANGELO red



P

SB D573003

Aluminium skirt for road barrier booms



C

MCL BAT P125011

Set of backup batteries for MICHELANGELO barriers


THERMO P120018

Thermostat-controlled heating element allowing the use of MOOVI, MOOVI BT, MICHELANGELO barriers in ambient temperatures as low as -40°C



I

KIT MCL LAMPO P120006

Built-in flashing light for MICHELANGELO



I

KIT MCL LIGHT P120005 00001

Boom lights for MICHELANGELO



E

S RFLP P111409

Reflector and support for wall mounting and mounting on CC post for CELLULA RFL

MICHELANGELO



KIT MCL LIGHT P120005 00001

Boom lights for MICHELANGELO

I



S RFLP P111409

Reflector and support for wall mounting and mounting on CC post for CELLULA RFL

E



KIT SCHEDA MCL P120009

Control board for KIT MCL LIGHT and KIT MCL LAMPO

B



SCS WIE P111408

Board for connection to SELETTO (E) keypad and COMPASS SLIM proximity reader-Available while stock lasts

B



SCS I P111376

Serial board for connection to zone and opposing leaves for control units with display-Available while stock lasts

B



KIT MCL 130 P120007 00001

Support for fitting CELLULA 130 on MICHELANGELO enclosure in line with boom

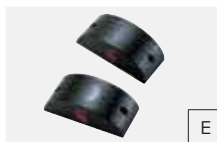
E



KIT MCL RFL P903015 00001

Support for fitting CELLULA RFL on MICHELANGELO enclosure in line with boom

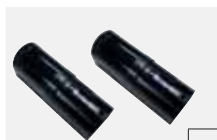
E



CELLULA 130 P111273

Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc

E



CELLULA 180 P111452

Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc

E



CELLULA RFL P111391

Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)

E



VENTIMIGLIA NS P111401 00001

Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)

G



BIR C N190104

Rubber safety edge (H 30 mm), price per m

G

Complete 4 m round boom components



ATT 704 N728026

First part of telescopic round boom for MICHELANGELO, diam. 70 mm, length 4.3 m.

T



ACC MCL ATT N999386

Accessories pack for ATT 704 / 706 boom

Complete 6m round boom components



ATT 706 N728030

Round boom diam. 70 mm length 6.35 m for MICHELANGELO. for openings up to 6 m

T



ACC MCL ATT N999386

Accessories pack for ATT 704 / 706 boom

Accessories 6 m



MCL PCA 6 P120008


Upper and lower shaped rubber cover for booms of max 6 m. For MICHELANGELO only, colour red



PCA 6 P120003 00002


Upper and lower shaped rubber cover for booms of max 6 m. For MOOVI and MICHELANGELO red

Accessories 6 m



KIT MCL LIGHT P120005 00001
Boom lights for MICHELANGELO

I



KIT SCHEDA MCL P120009
Control board for KIT MCL LIGHT and KIT MCL LAMPO

B

6 m telescopic round boom components




ATT 704 N728026
First part of telescopic round boom for MICHELANGELO, diam. 70 mm, length 4.3 m.

T




ACC MCL ATT N999386
Accessories pack for ATT 704 / 706 boom




ATT 502 N728028
Second part of telescopic round boom for MICHELANGELO, diam. 50 mm, length 2.6 m.

T

Accessories 6 m




MCL PCA 6 P120008
Upper and lower shaped rubber cover for booms of max 6 m. For MICHELANGELO only, colour red




KIT MCL LIGHT P120005 00001
Boom lights for MICHELANGELO

I



PCA 6 P120003 00002
Upper and lower shaped rubber cover for booms of max 6 m. For MOOVI and MICHELANGELO red



KIT SCHEDA MCL P120009
Control board for KIT MCL LIGHT and KIT MCL LAMPO


B

8 m telescopic round boom components




ATT 704 N728026
First part of telescopic round boom for MICHELANGELO, diam. 70 mm, length 4.3 m.

T



ACC MCL ATT N999386
Accessories pack for ATT 704 / 706 boom



ATT 504 N728027
Second part of telescopic round boom for MICHELANGELO, diam. 50 mm, length 4.6 m.

T



Accessories 8 m



MCL PCA 8 P120010

Upper and lower shaped rubber cover for booms of 8 m. For MICHELANGELO only, colour blue



PCA 8 P120003 00003

Upper and lower shaped rubber cover for booms of 8 m. For MOOVI and MICHELANGELO red



KIT MCL LIGHT P120005 00001

Boom lights for MICHELANGELO



KIT SCHEDA MCL P120009

Control board for KIT MCL LIGHT and KIT MCL LAMPO

6 m rectangular boom components



ELL 6 N728022

Complete 6 m rectangular boom for MICHELANGELO



ACC MCL ELL N999391

Accessories pack for ELL 6 boom

Accessories 6 m



MCL PCA 6 P120008

Upper and lower shaped rubber cover for booms of max 6 m. For MICHELANGELO only, colour red



PCA 6 P120003 00002

Upper and lower shaped rubber cover for booms of max 6 m. For MOOVI and MICHELANGELO red



KIT MCL LIGHT P120005 00001


Boom lights for MICHELANGELO




KIT SCHEDA MCL P120009

Control board for KIT MCL LIGHT and KIT MCL LAMPO


GIOTTO




GTO AQG N999507
Pack of accessories for installation of rectangular boom



GTO ATG N999513
Pack of accessories for installation of 3/5 m rectangular boom



ATG3 N728031
Complete 3 metre round boom for GIOTTO




ATG5 N728032
Complete 5 metre round boom for GIOTTO




AQG3 N728033
Complete 3 metre rectangular boom for GIOTTO



AQG5 N728034
Complete 5 metre rectangular boom for GIOTTO




GA D940008
Mobile support leg for barriers



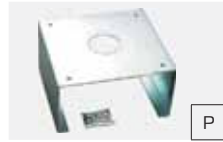
GAMA D940009
Mobile support leg with shock absorber for barriers




FAF D730088
Fixed rest fork for booms




SB D573003
Aluminium skirt for road barrier booms




CBO D730251
Anchor base for MOOVI series barriers




PCA3 P120003 00001
Top and bottom cover profile for booms of 3 m max




PCA6 P120003 00002
Top and bottom cover profile for booms of 6 m max



THERMO P120018
Thermostat-controlled heating element allowing the use of MOOVI, MOOVI BT, MICHELANGELO barriers in ambient temperatures as low as -40°C



GTO BAT P120017
Set of buffer batteries for MOOVI and GIOTTO series barriers



KIT MOOVI LIGHT1 P120001 00002
Lights for 5 m boom for MOOVI



KIT MOOVI LIGHT P120001 00001
Lights for 3 or 4.5 m boom for MOOVI



KIT MOOVI 130 P120002
Support for fitting CELLULA 130 on MOOVI enclosure in line with boom

172 Product accessories

STOPPY



C

STOPPY BAT P975001

Set of backup batteries for forcing the STOPPY to stay in the raised position in the event of a power cut



TBA P800037

Totem for STOPPY, bottom element containing panel and accessories



TSU P800038

Totem for STOPPY, top element for fitting control accessories



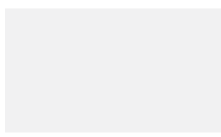
TL P800039

Traffic-lights for STOPPY totem



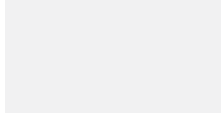
TPF P800040

Foundation and anchor plate for STOPPY totem



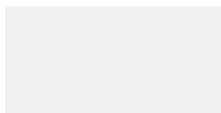
CABLE STOPPY P800034

50 m coil of cable for STOPPY and STOPPY H series operators



STOPPY EXTENSION 25 P800041

25 m extension cable for STOPPY and STOPPY H operators



STOPPY EXTENSION 50 P800042

50 m extension cable for STOPPY and STOPPY H operators



L

SPIRA 2X1 D110926 00001

Magnetic loop 2 x 1 m



B

ACOUSTIC DETECTOR D113705

Adjustable acoustic detector for sirens



L

RME 1 BT P111274

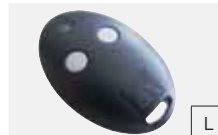
24Vac single channel metal object detector with installation base



L

RME 2 P111001 00003

230Vac dual channel metal object detector with installation base



L

MITTO 2 12V D111750

12V two-channel transmitter 433 MHz rolling code



L

MITTO 4 12V D111751

12V four-channel transmitter 433 MHz rolling code



L

T-BOX P121019

Wireless digital keypad 433 MHz Rolling code



L

SEK P121017

External key selector switch with vandal-proof metal frame





D

CLONIX 2 D111662

Dual channel 433 MHz rolling code plug-in receiver. 128-position memory

PILLAR

	<p>PLR CASE P800062 00001</p> <p>Installation recess for PILLAR series operators</p>		<p>BO LIGHT PWR P800059</p> <p>Lights power supply for fixed bollards (max 4 operators)</p>
	<p>PLR CASE INOX P800063 00001</p> <p>Stainless steel installation recess for PILLAR series operators</p>		<p>BO BUZZ P800050</p> <p>Movement audible warning</p>
	<p>PLR CASE H P800062 00002</p> <p>Installation recess for PILLAR H series operators</p>		<p>PLR F RMW P800068</p> <p>Accessory for conversion from fixed to mobile bollard</p>
	<p>PLR CASE H INOX P800063 00002</p> <p>Stainless steel installation recess for PILLAR H series operators</p>		<p>BO ALARM P800047</p> <p>Cylinder head and raised operator alarm kit</p>
	<p>PLR CASE CVR P800065</p> <p>Closure for PLR CASE series recesses</p>		<p>BO THERMO P800048</p> <p>Thermostat-controlled heating element for low temperatures</p>
	<p>BO F PLATE P800067</p> <p>Base for homogeneous appearance of fixed-automatic traffic bollards</p>		<p>BO CB THERMO P800057</p> <p>Heating element for PLR CB series control units</p>
	<p>PLR POST P800066</p> <p>Column for central installation</p>		<p>BO EXT P800049</p> <p>Operator extension cable (max 80m). Price per metre</p>
	<p>BO RAL P800045</p> <p>RAL paint treatment (colours in catalogue)</p>		<p>PIL SECURITY P800060</p> <p>Tamper-proof screw fasteners for cylinder head with key</p>
	<p>BO LIGHT P800046</p> <p>Flashing light incorporated in rod</p>		<p>PIL DOWN P800061</p> <p>Automatic operator lowering system for use in the event of a power cut</p>



TOWER



TWR CASE P800053 00001
Installation recess for TOWER series operators

TWR CASE INOX P800054 00001
Stainless steel installation recess for TOWER series operators

TWR CASE H P800053 00002
Installation recess for TOWER H series operators

TWR CASE H INOX P800054 00002
Stainless steel installation recess for TOWER H series operators

TWR CASE CVR P800056
Closure for PLR CASE series recesses

TWR CASE EMR UP P800055 00001
Connection fitting for installation of TWR EMR UP emergency raising system

TWR CASE H EMR UP P800055 00002
Connection fitting for installation of TWR EMR UP emergency raising system

TWR EMR UP P800052
Emergency raising system

BO RAL P800045
RAL paint treatment (colours in catalogue)

TWR MILL P800051
Textured cylinder (not available for stainless steel versions)

BO LIGHT P800046
Flashing light incorporated in rod

BO BUZZ P800050
Movement audible warning

BO LIGHT PWR P800059
Lights power supply for fixed bollards (max 4 operators)

BO ALARM P800047
Cylinder head and raised operator alarm kit










BO THERMO P800048
Thermostat-controlled heating element for low temperatures

BO CB THERMO P800057
Heating element for PLR CB series control units

BO EXT P800049
Operator extension cable (max 80m). Price per metre

	<p>SCS WIE P111408</p> <p>Available while stock lasts</p>		<p>SCS 1 P111376</p> <p>Available while stock lasts</p>
	<p>B EBA 201 R04 P111469</p> <p>Expansion board for Blue-Tooth connection</p>		<p>B EBA 201 R02 P111466</p> <p>Expansion board for INPUT/OUTPUT</p>
	<p>B EBA 201 R03 P111467</p> <p>Expansion board for WIEGAND devices connection</p>		<p>B EBA 201 R01 P111468</p> <p>Expansion board for serial control central groups connection</p>
<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>THERMO P120018</p> <p>Thermostat-controlled heating element allowing the use of MOOVI, MOOVI BT, MICHELANGELO barriers in ambient temperatures as low as -40°C</p> </div> </div>			
	<p>CELLULA 130 P111273</p> <p>Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc</p>		<p>CELLULA 180 P111452</p> <p>Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc</p>
	<p>CELLULA RFL P111391</p> <p>Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)</p>		<p>DCW P111410</p> <p>Wireless photocell with possibility of managing infrared or resistive safety edge</p>
	<p>STR N190106</p> <p>Pair of infrared sensors for DCW</p>		

176 Family accessories

	<p>MITTO 2 12V D111750 12V two-channel transmitter 433 MHz rolling code</p>		<p>MITTO 4 12V D111751 12V four-channel transmitter 433 MHz rolling code</p>
	<p>MITTO 2 REPLAY D111841 12V 2-channel transmitter, copyable with rolling code</p>		<p>MITTO 4 REPLAY D111842 12V 4-channel transmitter, copyable with rolling code</p>
	<p>RME 1 BT P111274 24Vac single channel metal object detector with installation base</p>		<p>RME 2 P111001 00003 230Vac dual channel metal object detector with installation base</p>
	<p>VENTIMIGLIA NS P111401 00001 Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)</p>		<p>BIR C N190104 Rubber safety edge (H 30 mm), price per m</p>
	<p>SPIRA 2X1 D110926 00001 Magnetic loop 2 x 1 m</p>		





Automation systems for Automatic Pedestrian doors





Automation systems for Automatic Pedestrian doors

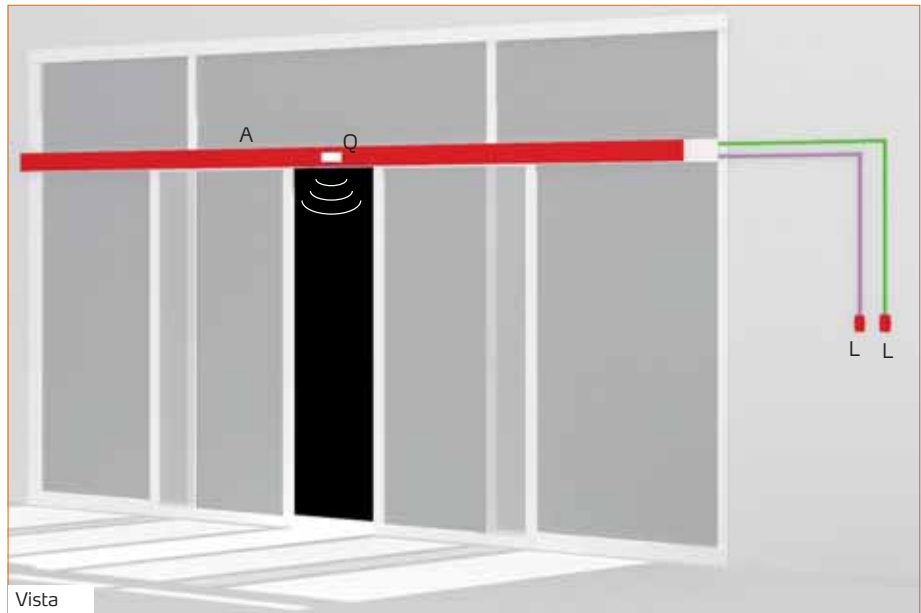
The great versatility and functionality of BFT automation systems make them ideal for intensive use in public spaces such as shops, offices, banks and shopping centres. BFT operators, with their vast range of accessories and safety devices, are able to cover all installation needs and guarantee maximum safety, security and reliability.

	Voltage	Leaf max weight	Clear opening	Operator	pag.
Automatic Pedestrian doors	230V	150kg	from 750mm to 2550mm	VISTA SL1	184
		120+120kg	from 800mm to 2900mm	VISTA SL2	184



Installation guide 181

A	Operator
L	Control system (key selector switch, keypad, badge reader)
Q	Radar
—	6x1
—	3x1.5





Automation associations for automatic pedestrian doors

	ARIA
VISTA SL1	Built-In
VISTA SL2	Built-In



Control unit characteristics 183

	ARIA
MOTORS POWER SUPPLY	
Motor 1 230V output	
Motor 2 230V output	
Motor 1 24V output	•
Motor 2 24V output	
LIMIT SWITCH INPUTS	
Single for Opening	
Single for Closing	
Separate Inputs for Opening	
Separate Inputs for Closing	
Encoder	•
CONTROLS INPUTS	
RADAR EXT input	•
RADAR INT input	•
OPEN KEY input	•
EMERGENCY input	•
EMERGENCY STOP	
Stop	•
SAFETY SYSTEMS INPUTS	
Photocells	
Photocells for Opening	•
Photocells for Closing	•
Photocells Inputs Check	•
Safety Edge	
8K2 Safety Edge	
Safety Edges Inputs Check	
AUXILIARY INPUTS/OUTPUTS	
Solenoid Lock	•
Door Status	•
Alarm	•
MOTORS CONTROLS	
Torque Control	•
Obstacle Recognition	•
Dynamic Path Tracking	•
Opening/Closing Speed Control	•
Opening/Closing Slowdown Control	•
Opening/Closing Slowdown Speed Control	•
Acceleration/Deceleration	•
Brake	•
Backup Batteries Connection	•
Self Setting	•
FUNCTIONS	
Automatic Re-closing Control (TCA)	•
Clearing time	•
Anti-panic	•
Use mode scenarios	•
Locking Modes	•
Water Hammer	•
MISCELLANEOUS	
Accessories power supply 24V	500 mA
Buzzer	•
Built-in Receiver	•
Learning via Radio Commands	•
EE-Link	•
ER-Ready	•
Self-Diagnosis	•
Statistics Management	PRO
Central Commands Management	PRO
Conformity to EN 12453-EN12445	•

PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board



Description

Complete range of automation systems for sliding pedestrian doors with a maximum leaf weight of 150 kg. The control unit, with a programming display and microprocessor technology, makes it possible to control all the main functions automatically. The cushioned rail and shaped wheels guarantee absolute silence in movement.



((€R-Ready))



Control unit with programming display and autaset system for movement and torque parameters. Incorporated dual channel radio receiver



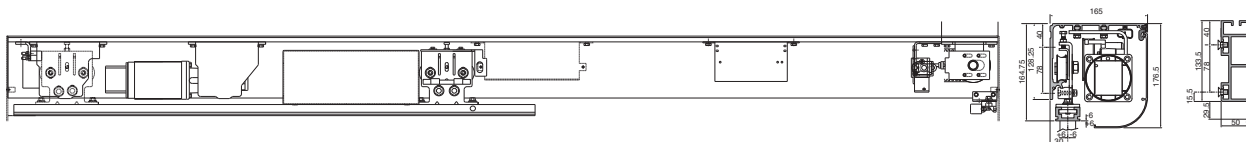
WMP rapid assembly profile.



Electrical locking with the holding of the doors at each stop position.



Dimensions



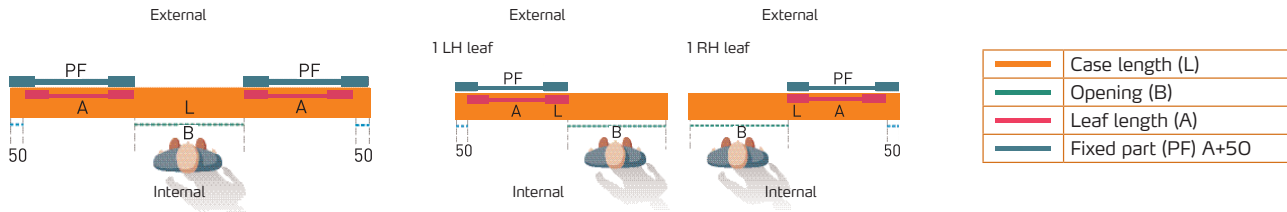
Accessories

of product p. 186

of family p. 188

generic p. 232

Kit p. 26



Summary table

VISTA 1 - left-hand version (for right-hand version add 00004 instead of 00002)

Code	Name	Voltage	A	B	L	Legend	Normal Guard
P111411 00002	VISTA SL-107 SX	24V	800mm	750mm	1600mm	A	P960502 00002
P111412 00002	VISTA SL-108 SX	24V	900mm	850mm	1800mm	A	P960503 00002
P111414 00002	VISTA SL-109 SX	24V	1000mm	950mm	2000mm	A	P960504 00002
P111415 00002	VISTA SL-110 SX	24V	1100mm	1050mm	2200mm	A	P960505 00002
P111416 00002	VISTA SL-111 SX	24V	1200mm	1150mm	2400mm	A	P960506 00002
P111417 00002	VISTA SL-112 SX	24V	1300mm	1250mm	2600mm	A	P960507 00002
P111418 00002	VISTA SL-113 SX	24V	1400mm	1350mm	2800mm	A	P960508 00002
P111419 00002	VISTA SL-114 SX	24V	1500mm	1450mm	3000mm	A	P960509 00002
P111420 00002	VISTA SL-115 SX	24V	1600mm	1550mm	3200mm	A	P960510 00002
P111421 00002	VISTA SL-116 SX	24V	1700mm	1650mm	3400mm	A	P960511 00002
P111422 00002	VISTA SL-117 SX	24V	1800mm	1750mm	3600mm	A	P960512 00002
P111423 00002	VISTA SL-119 SX	24V	2000mm	1950mm	4000mm	A	P960513 00002
P111424 00002	VISTA SL-121 SX	24V	2200mm	2150mm	4400mm	A	P960514 00002
P111425 00002	VISTA SL-123 SX	24V	2400mm	2350mm	4800mm	A	P960515 00002
P111426 00002	VISTA SL-125 SX	24V	2600mm	2550mm	5200mm	A	P960516 00002
P111413 00002	VISTA SL-208	24V	2x500mm	800mm	1900mm	A	P960517 00002
P111414 00002	VISTA SL-209	24V	2x500mm	900mm	2000mm	A	P960518 00002
P111415 00002	VISTA SL-210	24V	2x550mm	1000mm	2200mm	A	P960519 00002
P111416 00002	VISTA SL-211	24V	2x600mm	1100mm	2400mm	A	P960520 00002
P111417 00002	VISTA SL-212	24V	2x650mm	1200mm	2600mm	A	P960521 00002
P111418 00002	VISTA SL-213	24V	2x700mm	1300mm	2800mm	A	P960522 00002
P111419 00002	VISTA SL-214	24V	2x750mm	1400mm	3000mm	A	P960501 00002
P111420 00002	VISTA SL-215	24V	2x800mm	1500mm	3200mm	A	P960523 00002
P111421 00002	VISTA SL-216	24V	2x850mm	1600mm	3400mm	A	P960524 00002
P111422 00002	VISTA SL-217	24V	2x900mm	1700mm	3600mm	A	P960525 00002
P111423 00002	VISTA SL-219	24V	2x1000mm	1900mm	4000mm	A	P960526 00002
P111424 00002	VISTA SL-221	24V	2x1100mm	2100mm	4400mm	A	P960527 00002
P111425 00002	VISTA SL-223	24V	2x1200mm	2300mm	4800mm	A	P960528 00002
P111426 00002	VISTA SL-225	24V	2x1300mm	2500mm	5200mm	A	P960529 00002
P111427 00002	VISTA SL-227	24V	2x1400mm	2700mm	5600mm	A	P960530 00002
P111428 00002	VISTA SL-229	24V	2x1500mm	2700mm	6000mm	A	P960531 00002

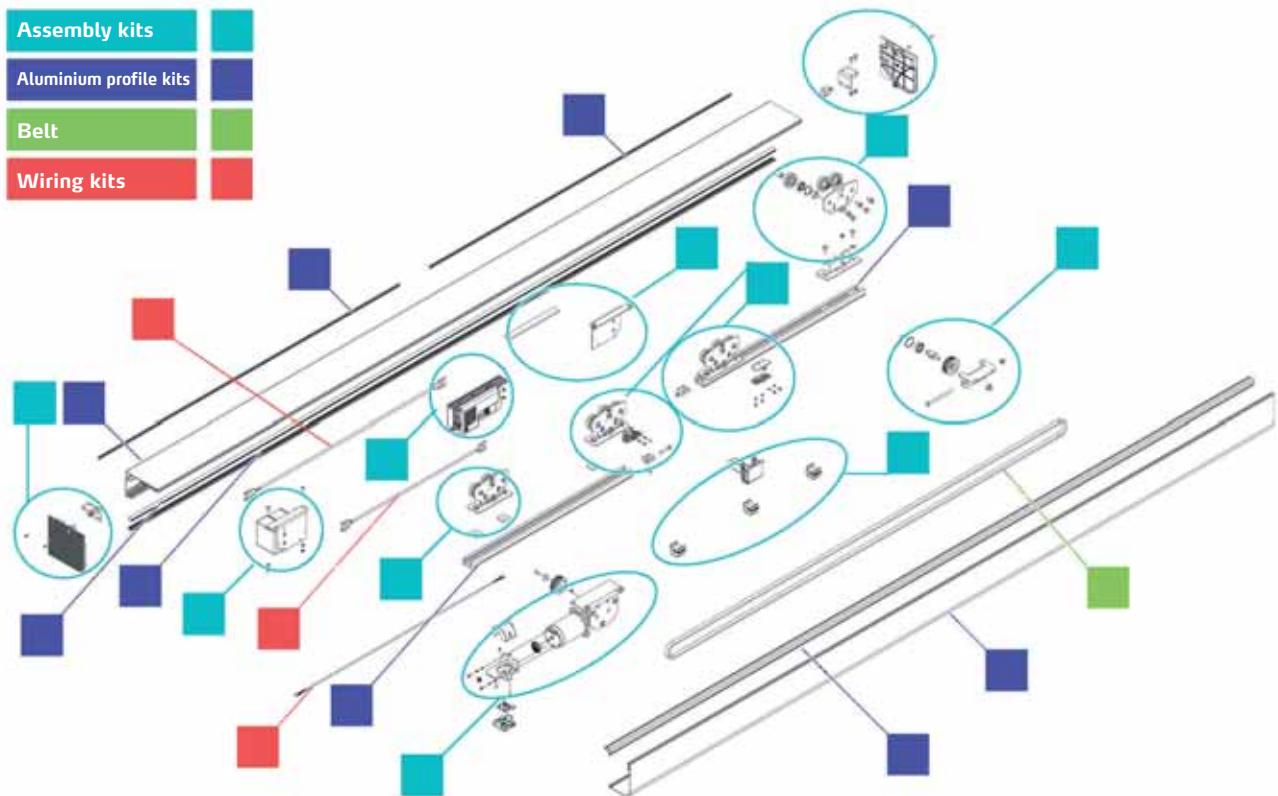
For the natural aluminium version enter the same code as the anodised guard but with the extension 00001 instead of 00002. The price is 5.6€ lower than the that of the anodised version.

Technical features

	VISTA SL1	VISTA SL2
Control unit	ARIA	
Manual cycle	Reversible	Reversible
Power supply	24V	24V
Power input	230W	230W
Type of limit switch	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening
Clear opening	from 750mm to 2500mm	from 800mm to 2900mm
Opening speed	up to 90cm/sec	up to 180cm/sec
Closing speed	up to 90cm/sec	up to 180cm/sec
Approach speed	from 5cm/sec to 10cm/sec	from 5cm/sec to 10cm/sec
Impact reaction	Electronic torque limiter	Electronic torque limiter
Locking	Mechanical	Mechanical
Release	Release lever	Release lever
Use cycle	Continuous	Continuous
Environmental conditions	from 0°C to 50°C	

PPA 12 209	P111159 00079	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 209
PPA 12 210	P111159 00080	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 210
PPA 12 211	P111159 00081	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 211
PPA 12 212	P111159 00082	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 212
PPA 12 213	P111159 00083	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 213
PPA 12 214	P111159 00084	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 214
PPA 12 215	P111159 00085	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 215
PPA 12 216	P111159 00086	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 216
PPA 12 217	P111159 00087	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 217
PPA 12 219	P111159 00088	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 219
PPA 12 221	P111159 00089	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 221
PPA 12 223	P111159 00090	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 223
PPA 12 225	P111159 00091	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 225
PPA 12 227	P111159 00092	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 227
PPA 12 229	P111159 00093	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 229

Assembly kits



Code	Name
P960536 00002	230V 2-LE AF VIST A2 ASSEMBLY KIT
P960535 00002	230V 1-LE AF VIST A1 ASSEMBLY KIT
P960533 00002	ANOD . ALUMINIUM PROFILE KIT , 4.2 m LONG
P960534 00002	ANOD . ALUMINIUM PROFILE KIT , 6.5 m LONG
P960533 00001	NATUR AL. ALUMINIUM PROFILE KIT , 4.2 m LONG
P960534 00001	NATUR AL. ALUMINIUM PROFILE KIT , 6.5 m LONG
P111447	WIRING KIT VIST A SL MOD 107-125 e 212-229
P111448	WIRING KIT VIST A SL MOD 208-211
D191099	VIST A SL BELT KIT - 30 mt PACK



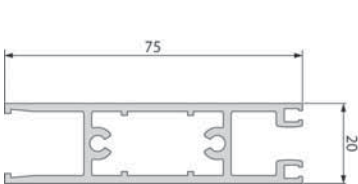
Profile kit

Anodised and natural aluminium profiles and set of brushes, seals and fittings for the assembly of 10 VISTA 214 (2 fixed leaves and 2 mobile leaves for each door).

The kit is packed in a sturdy wooden box for maximum protection during transport and storage.

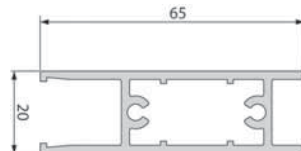
PROFILES NOT COMPATIBLE WITH SASAM SYSTEM. CONTACT BFT FOR FURTHER INFORMATION.

ANODISED PROFILE KIT	P960538 00002	Set of anodised aluminium door profiles (for producing up to 10 x 214 models)
NATURAL PROFILE KIT	P960538 00001	Set of natural aluminium door profiles (for producing up to 10 x 214 models)



Top profile for fixed leaf. 5 m bars.

10 items



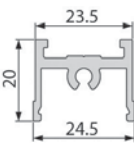
Top profile for fixed leaf. 5 m bars.

4 items



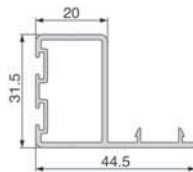
Jamb profile. 5 m bars.

28 items



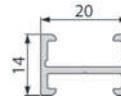
Frame profile. 5 m bars.

18 items



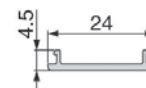
Edge profile/photocell holder. 5 m bars.

10 items



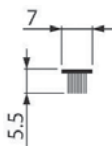
Latch profile. 5 m bars.

4 items



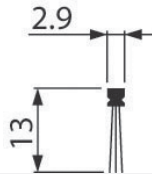
Weather strip profile. 5 m bars.

18 items



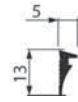
Mobile leaf sealing brush pack. 30 m roll

1 item



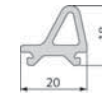
Side sealing brush pack. 30 m roll

3 items



Glass stopper seal pack. 30 m roll

8 items



Latch seal pack. 30 m roll




















3 items

Accessory pack for assembling 1 mobile leaf

20 items

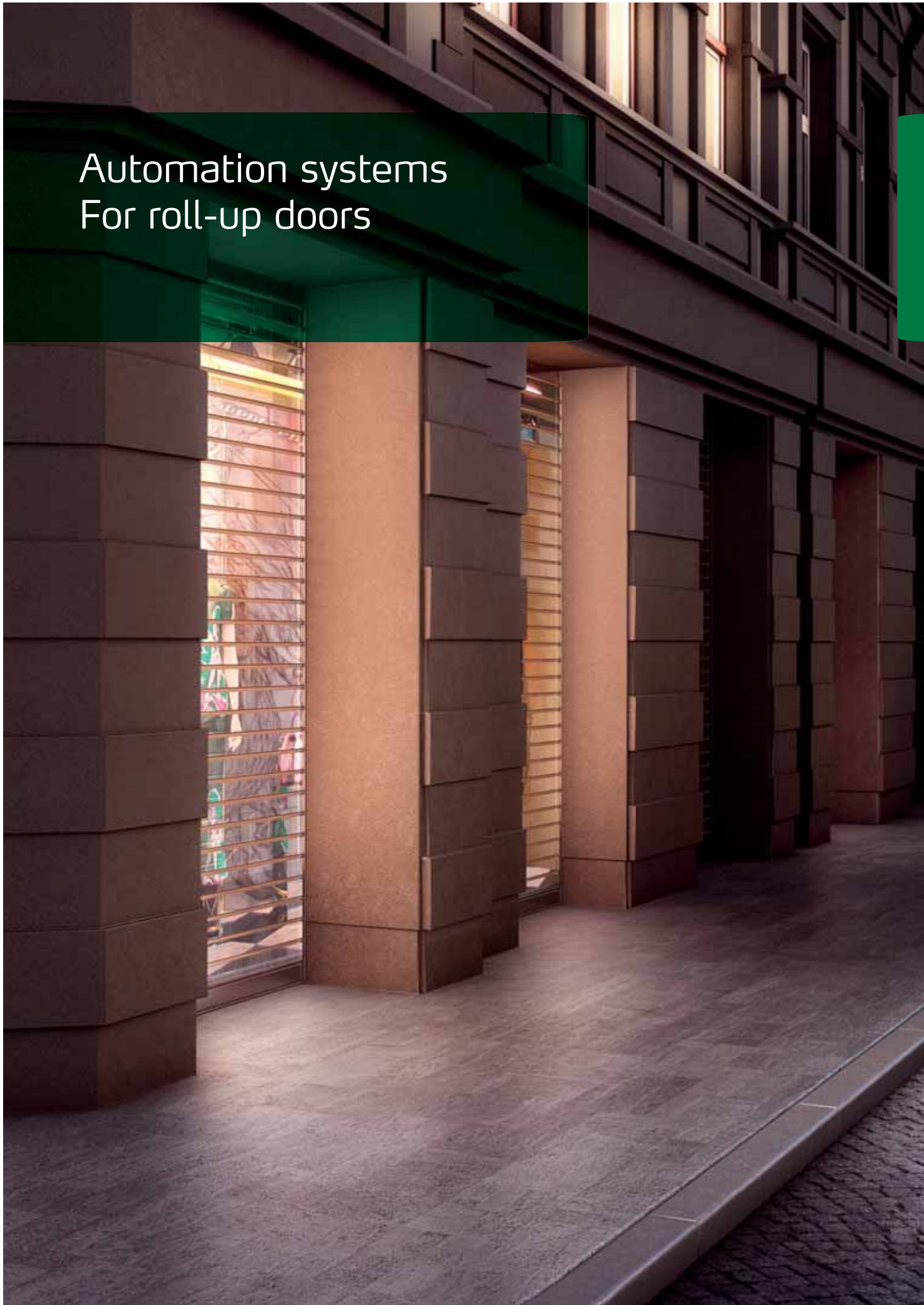
Accessory pack for assembling 1 fixed leaf

20 items

 <p>L</p>	<p>VISTA SEL D113722 Function selector for VISTA SL series pedestrian door</p>	 <p>Q</p>	<p>TELECOMANDO P111405 Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8</p>
 <p>Q</p>	<p>SEAGLE TWO P111404 Bi-directional presence sensor</p>	 <p>Q</p>	<p>EAGLE ONE P111403 Mono-directional presence sensor</p>
 <p>Q</p>	<p>ACTIVE8 TWO PB P111402 00001 Safety and presence sensor</p>		<p>SPOTFINDER P111406 IR curtain detector</p>
 <p>Q</p>	<p>FALCON P111407 Industrial presence sensor installable up to 7 m</p>	 <p>Q</p>	<p>RIP P111325 Multi-function active infrared radar, wide/narrow range</p>
	<p>FPA 1 P111265 Pair of photocells with one pair of sensors</p>		<p>FPA 2 P111266 Pair of photocells with two pairs of sensors</p>
	<p>ERV N733408 Solenoid lock assembly for VISTA SL, (use with BBV recommended)</p>	 <p>C</p>	<p>BBV P111442 Set of backup batteries for VISTA SL</p>
	<p>SBV P111445 Anodised aluminium supporting crosspiece for VISTA SL</p>		<p>PPR P111156 Door guide slide for automatic doors with aluminium frame</p>
	<p>PGI P111158 Bottom door guide for automatic doors with aluminium frame</p>		
	<p>SASAM 1 P111163 00001 Natural aluminium anti-panic break-open system for automatic single-leaf doors. Max length 1100 mm</p>		<p>SASAM 1 P111163 00002 SASAM 1 version in anodised aluminium. Max length 1100 mm</p>
	<p>SASAM 2 P111263 00001 Natural aluminium anti-panic break-open system for automatic double-leaf doors. Max length 1100 mm</p>		<p>SASAM 2 P111263 00002 SASAM 2 version in anodised aluminium. Max length 1100 mm</p>



Automation systems For roll-up doors





Automation systems For roll-up doors

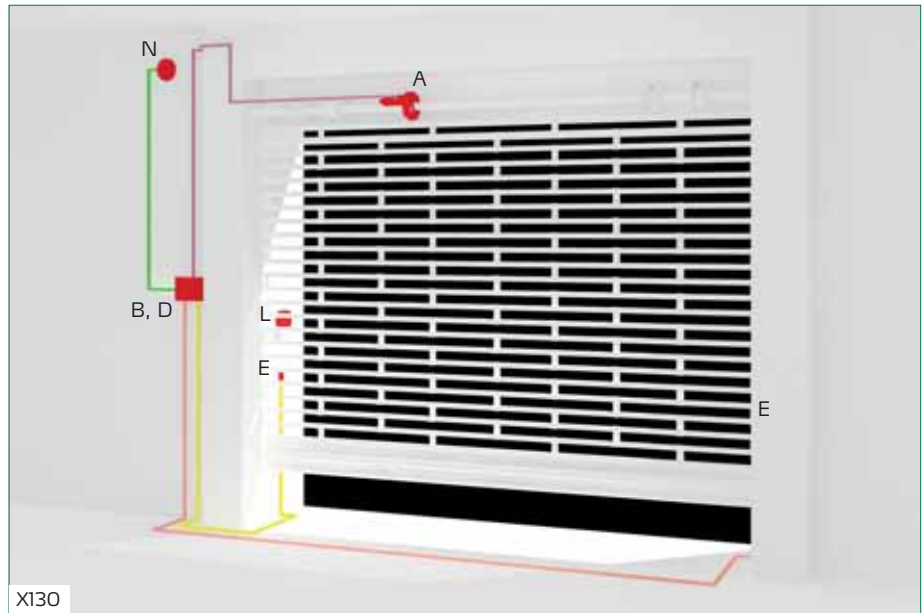
Complete range of automation systems for roll-up doors for commercial, multi-residential and industrial use.

Available for spring holders of external diameter 200, 220 or 240 mm and shafts of 42, 48, 60 or 76 mm.

Extremely simple and quickly adjustable limit switches, thanks also to the exclusive mechanical system for memorising the opening position.

	Shaft diameter	Spring holder diameter	Roll-up door weight	Operator	pag.
roll-up doors	42-48-60mm	220mm	200kg	X130	196
			220kg	X130 P	196
		200mm	180kg	X130 EF	196
			200kg	X130 PEF	196
	76mm	240mm	180kg	X180	198
			170kg	X180 EF	198
300kg			X320 EF	198	

A	Operator
B	Control unit
D	Receiver
E	Photocell
L	Control devices
N	Junction box
	3x1.5
	2x1
	9x0.5
	14x0.5





Roll-up door automation associations

	ELBA	ELBA BU	ALPHA SD
X130	Recommended	Recommended	Compatible
X130 EF	Recommended	Recommended	Compatible
X130 PEF	Recommended	Recommended	Compatible
X130 P	Recommended	Recommended	Compatible
X180 EF	Recommended	Recommended	Compatible
X180	Recommended	Recommended	Compatible
X320 EF	Recommended	Recommended	Compatible

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator



Control unit characteristics 195

	ELBA	ELBA BU	ALPHA SD
MOTORS POWER SUPPLY			
Motor 1 230V output	▪	▪	▪
CONTROLS INPUTS			
Start	E1	E1	▪
Internal Start			
Open	E1	E1	
Close			
Anemometer	E2	E2	
Twilight sensor	E3	E3	
Timer	E3	E3	
EMERGENCY STOP			
Stop	E2	E2	▪
SAFETY SYSTEMS INPUTS			
Photocells	▪	▪	▪
Photocells for Opening			
Photocells for Closing			
Photocells Inputs Check			
Safety Edge			
8K2 Safety Edge			
Safety Edges Inputs Check			
FUNCTIONS			
Automatic Re-closing Control (TCA)	▪	▪	▪
Open Pulse Blocking			▪
TCA Pulse Blocking			
Close Pulse Blocking			
Photocell Trigger Setting			▪
Fast Close			▪
Pre-Alarm			
2 Steps	E4	E4	
3 Steps			▪
4 Steps	E4	E4	▪
Deadman Feature	▪	▪	
MISCELLANEOUS			
Accessories power supply 24V	70mA	70mA	200 mA
Antenna	▪	▪	▪
Built-in Receiver	▪	▪	▪
Learning via Radio Commands	▪	▪	▪
EE-Link	▪	▪	▪
ER-Ready			▪
Self-Diagnosis	PRO	PRO	PRO
Statistics Management	PRO	PRO	PRO
Central Commands Management	▪	▪	
Conformity to EN 12453-EN12445			

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board



Description

230V operators for roll-up doors of maximum weight 220 kg. Available in versions with or without relay coil and with pulleys of diameter 200 or 220 mm. Although designed for fitting to 60 mm shafts, can also be installed on shafts of diameter 42 or 48 mm with the use of CS series adapters.



Limit switches with mechanical position memorising system, which facilitates and speeds up installation.



Sturdy aluminium framework with pulley mounted on bearings.



Control unit with built-in radio receiver and multiple zone installations management.



Summary table

Code	Name	Voltage	Roll-up door surface area	Roll-up door weight	Legend
P910024 00007	X130	230V	16m ²	200kg	A
P910025 00007	X130 EF	230V	16m ²	180kg	A
P910026 00007	X130 P	230V	16m ²	220kg	A
P910027 00007	X130 PEF	230V	16m ²	200kg	A

Accessories

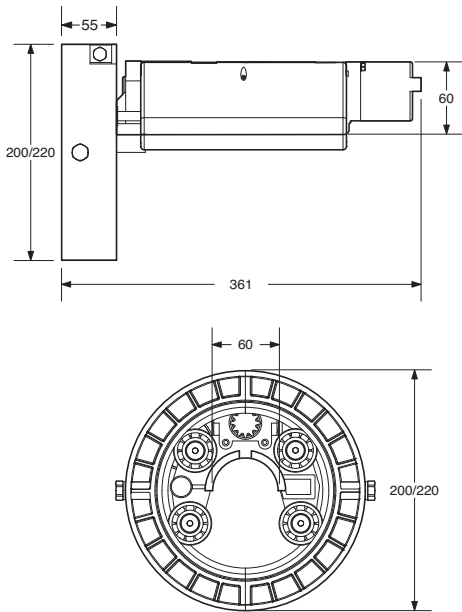
of product p. 200

of family p. 201

generic p. 232

Kit p. 26

Dimensions



Technical features

	X130	X130 EF	X130 P	X130 PEF
Control unit	ELBA/ELBA BU			
Power supply	230V	230V	230V	230V
Power input	400W	410W	425W	425W
Output torque	130Nm	130Nm	130Nm	130Nm
Pulley diameter	220mm	220mm	200mm	200mm
Shaft diameter	60 (48 or 42mm with optional CS model adapters)mm			
Rotation speed	12rpm	12rpm	12rpm	12rpm
Type of limit switch	electromechanical	electromechanical	electromechanical	electromechanical
Impact reaction	No	No	No	No
Locking	No	Electromechanical	No	Electromechanical
Manual cycle	Reversible	Release with steel cable and knob for electric brake	Reversible	Release with steel cable and knob for electric brake
Environmental conditions	from -10°C to 50°C			
Actuator weight	6kg	6kg	6kg	6kg

ELBA BU

Control panel, max 230V/470W, for roller shutters or roll-up doors



ELBA BU D113717 00002

- Application: control panel for one roll-up door operator
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 470W max
- Main features: Extremely compact size for installation in shutter case, programming with potentiometers and dip switches, built-in receiver, control button on case
- Main functions: separate open/close, photocells input, possibility of centralised controls, anemometer and twilight sensor management
- Compatibility: CAPRI, CAPRI RIC, CAPRI TCA

B



Description

230V operators for roll-up doors of maximum torque up to 350 Nm.
Supplied for fitting to roll-up doors with pulley of diameter 240 mm and shaft of diameter 76 mm.
Available in versions with or without relay coil.

Simple and intuitive adjustment of limit switches.



Double motor version for large size roll-up doors.



Control unit with built-in radio receiver and multiple zone installations management.

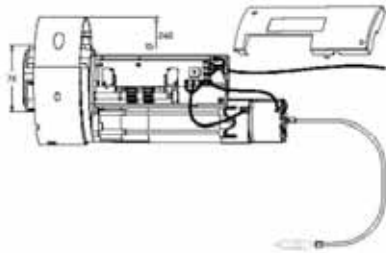


Summary table

Code	Name	Voltage	Torque	Maximum stroke	Roll-up door weight	Legend
P910031 00002	X180	230V	185Nm	6m	180kg	A
P910032 00002	X180 EF	230V	175Nm	6m	170kg	A
P910033 00002	X320 EF	230V	350Nm	6m	300kg	A



Dimensions



Technical features

	X180	X180 EF	X320 EF
Control unit	ELBA/ELBA BU		
Power supply	230V	230V	230V
Power input	600W	600W	1200W
Maximum torque	185Nm	175Nm	350Nm
Nominal torque	175Nm	165Nm	310Nm
Pulley diameter	240mm	240mm	240mm
Shaft diameter	76mm		
Rotation speed	8rpm	8rpm	8rpm
Type of limit switch	electromechanical	electromechanical	electromechanical
Impact reaction	No	No	No
Locking	No	Electromechanical	Electromechanical
Manual cycle	Reversible	Release with steel cable and knob for electric brake	Release with steel cable and knob for electric brake
Environmental conditions	from -20°C to 50°C		
Actuator weight	11kg	12.3kg	17.3kg

ELBA BU

Control panel, max 230V/470W, for roller shutters or roll-up doors



B

ELBA BU D113717 0002

- Application: control panel for one roll-up door operator
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 470W max
- Main features: Extremely compact size for installation in shutter case, programming with potentiometers and dip switches, built-in receiver, control button on case
- Main functions: separate open/close, photocells input, possibility of centralised controls, anemometer and twilight sensor management
- Compatibility: CAPRI, CAPRI RIC, CAPRI TCA

200 Product accessories



X130



CS 42 D211008

Pair of reduction half bearings for shafts of diameter 42 mm



CS 48 D211007

Pair of reduction half bearings for shafts of diameter 48 mm



EF X N999298 00002






Complete electric brake for X130 - X130 P

X180 / X320



X EF1 N999510

Electric brake for X180

 <p>B</p>	<p>ELBA BU D113717 00002</p> <p>Control panel, max 230V/470W, for roller shutters or roll-up doors</p>	 <p>B</p>	<p>ELBA D113716 00002</p> <p>Control panel, max 230V/470W, for LOOP type operator for roller shutters</p>
 <p>B</p>	<p>ALPHA SD D113680 00002</p> <p>Universal control panel for a 230V/500W single phase operator</p>		
 <p>B</p>	<p>SCS 1 P111376</p> <p>Available while stock lasts</p>	 <p>B</p>	<p>SCS WIE P111408</p> <p>Available while stock lasts</p>
 <p>B</p>	<p>B EBA 201 R01 P111468</p> <p>Expansion board for serial control central groups connection</p>	 <p>B</p>	<p>B EBA 201 R03 P111467</p> <p>Expansion board for WIEGAND devices connection</p>
 <p>L</p>	<p>POX-SC N733103 00002</p> <p>SIBOX two-button panel with indicator light for SIBOX safe, for connection to control unit</p>	 <p>L</p>	<p>POX-UP N733103 00001</p> <p>SIBOX two-button panel with indicator light for SIBOX safe, for direct connection to operator</p>
 <p>L</p>	<p>T-BOX P121019</p> <p>Wireless digital keypad 433 MHz Rolling code</p>	 <p>L</p>	<p>SEK P121017</p> <p>External key selector switch with vandal-proof metal frame</p>
 <p>L</p>	<p>RB P121016</p> <p>4-channel wall-mounted radio control with rolling code</p>		
 <p>L</p>	<p>MOX N733036</p> <p>External release system to be inserted in SIBOX safe</p>		
	<p>SIBOX N574005</p> <p>Empty wall-mounted safe for external release and control keypad</p>		<p>BOX N574039</p> <p>Outside wall-mounted safe with built-in control button and release knob</p>



Access control and hands-free devices





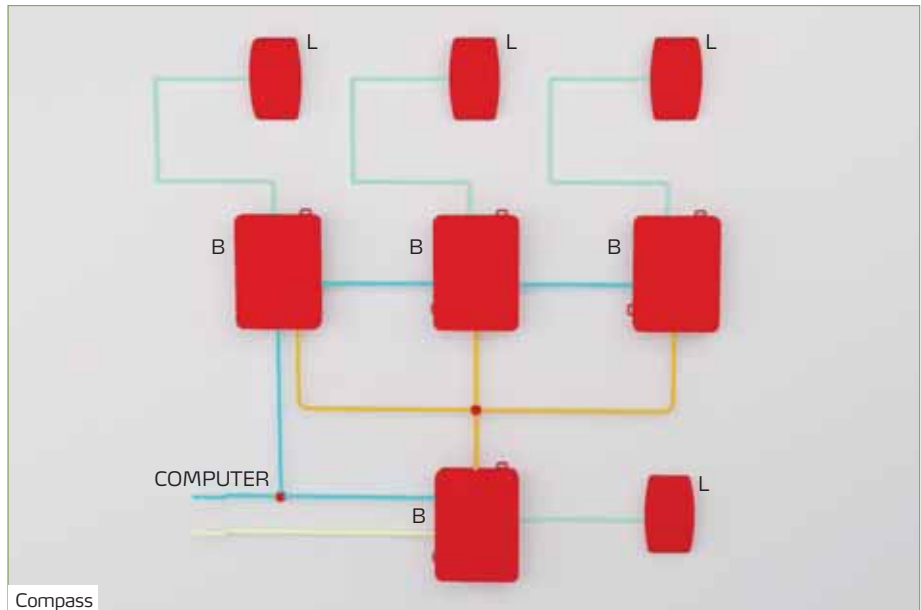
Access control and hands-free devices

Private and protected areas, working environments and sports grounds can all become more secure with BFT access control systems.

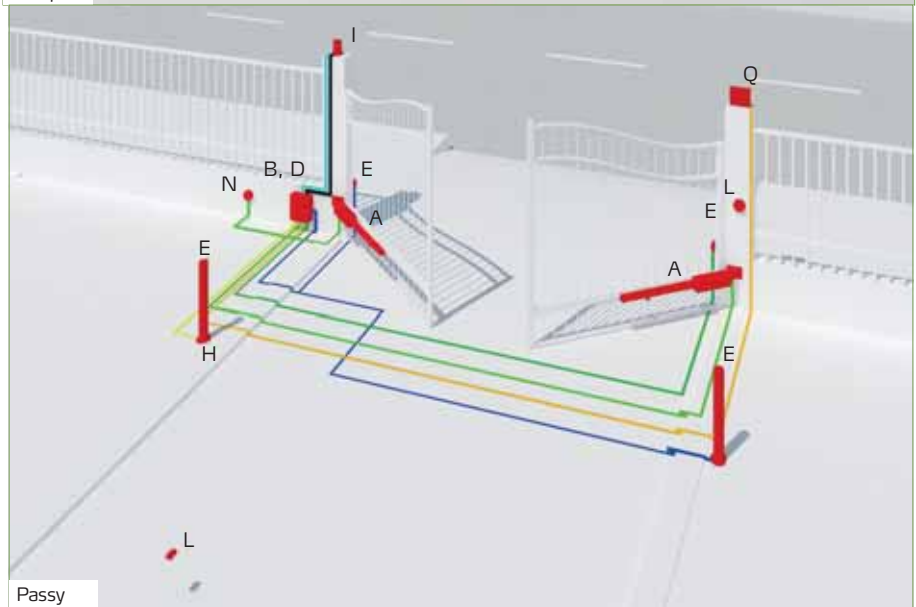
State-of-the-art electronics and a wide range of accessories make it possible to create systems based on badges, transponders and hands-free devices, made to measure to suit all needs.



A	Operator
B	Control unit
D	Receiver
E	Photocell
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
Q	Radar
2x0.5	2x0.5
2x1.5	2x1.5
3x1.5	3x1.5
RG 58	RG 58
3x1	3x1
RS 232	RS 232
5x1	5x1



Compass



Passy



Description

Access control system capable of managing up to 32 entry/exit peripherals in a maximum of 8 distinct zones with anti-passback control. The system is entirely standalone and can be connected via USB to a personal computer for management and/or programming.



The COMPASS SLIM is fully resin coated to guarantee maximum safety and reliability.

The SECURBASE LIGHT or PLUS software adapts to the needs of all types of systems, from the smallest and simplest to the most complex.

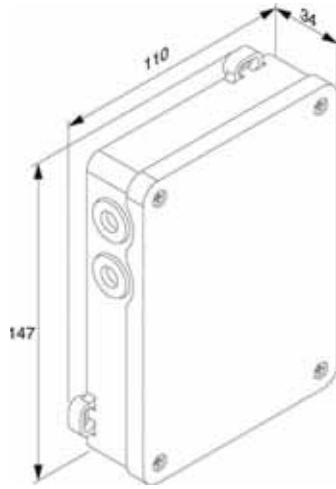
With the RTD CA 2048 receiver, access control can be combined with the control of PASSY hands-free systems.



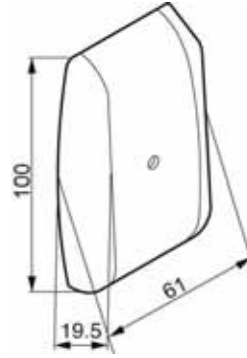
Summary table

Code	Name	Voltage	Legend
D113256	COMPASS 485	230V	B
D113691	COMPASS SC USB	230V	B
D113704	COMPASS SLIM		L

Dimensions



COMPASS SC USB



COMPASS SLIM

Technical features

	COMPASS 485	COMPASS SC USB	COMPASS SLIM
Power supply	230V	230V	12V
Max output relay current	5A	5A	
Max connectable peripherals	up to 2 COMPASS SLIM	up to 32 COMPASS 485 up to 2 COMPASS SLIM	
Manageable badges	up to 6000 in stand alone	up to 6000 in stand alone	
Memorisable events		up to 65535 in stand alone	
Environmental conditions	from -20°C to 60°C		

Description

Innovative hands-free system for the automatic management of entries/exits based simply on proximity to an antenna.
 Passy is reliable and safe and is the ideal system for situations where even the simple pressing of a remote control button can be inconvenient or dangerous, such as motor cycle access points, forklift truck entries/exits or truck loading ramps.



Possibility of adjusting antenna triggering zone range.



Transponder with button for manual control of automation.



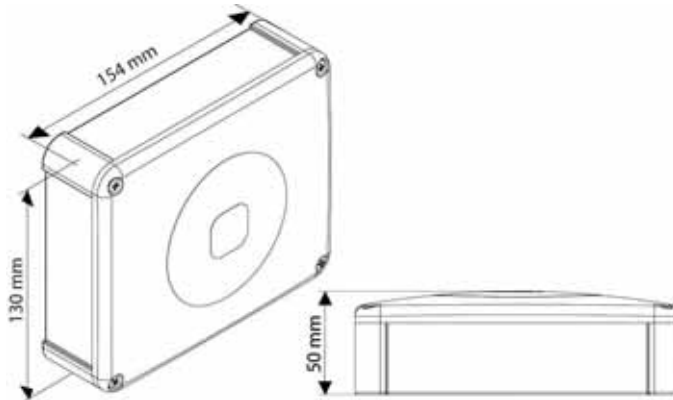
Can be combined with COMPASS access control system via the RTD CA 2048 receiver.



Summary table

Code	Name	Legend
D111457 00002	PASSY ANTENNA MONO	Q
D111457 00001	PASSY ANTENNA OMNI	Q
D111456	PASSY TRANSPONDER	L
N999461	PASSY TRANSPONDER 100	L

Dimensions



Technical features

	PASSY ANTENNA	PASSY TRANSPONDER
Power supply	14/28V dc/ac	
Current input	Typ 3W Max 6W	
Band	2400-2483 Mhz	
Power	Max average 100mW EIRP	
Operating temperature	from -20°C to 70°C	
Frequency		433.92±0,1 MHz
Power		>8dB



COMPASS



B

RTD CA 2048 D113671 00002

Four-channel rolling code receiver with 2048 codes and built-in programming display. Usable with COMPASS



L

COMPASS - ISOCARD D110912

ISO standard proximity badge



L

COMPASS - CUSTOM ISOCARD D110917

ISO proximity badge with customized black and white logo



L

COMPASS - RING D110914

Key-ring transponder for access control



SECURBASE PLUS USB P111389

Advanced management software for COMPASS access control system based on COMPASS SC.



SECURBASE LIGHT USB P111388

Management software for COMPASS access control system based on COMPASS SC.



UNICAVO D121502

Serial cable for connection of PROXIMA to PC or of COMPASS 232/COMPASS SC 232 to PC





Automation systems for Industrial sectional doors And folding doors



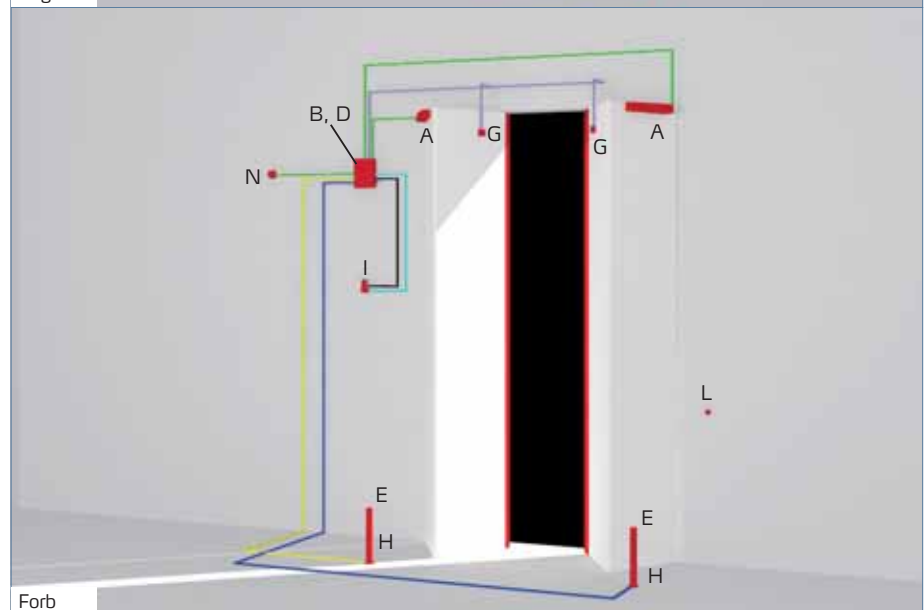
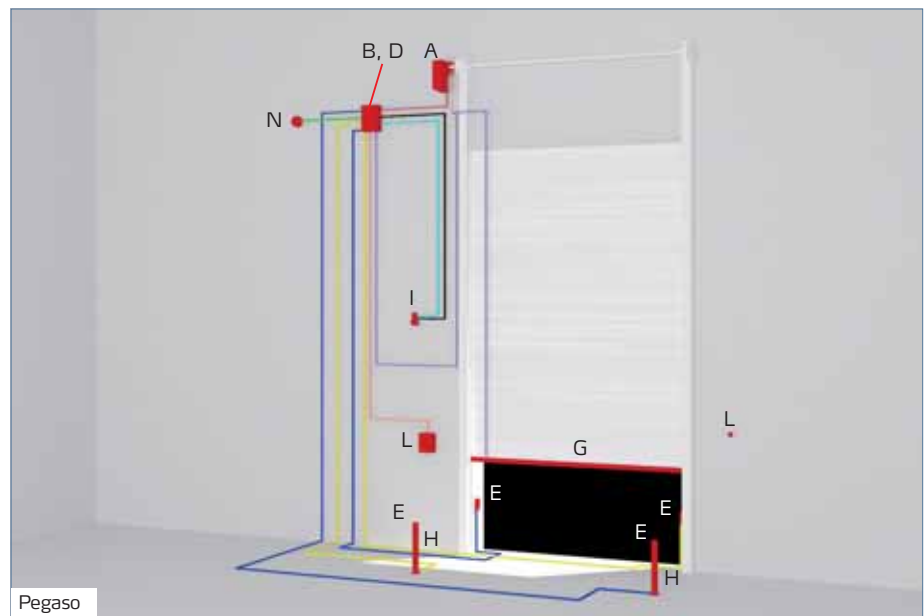
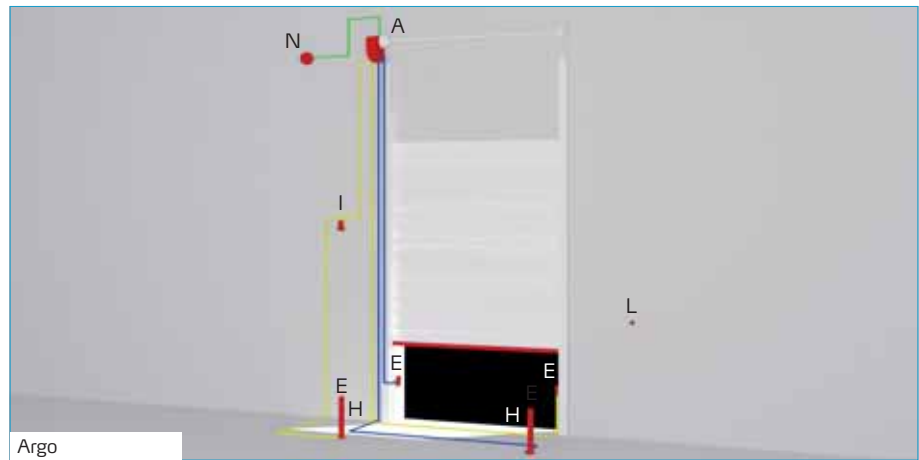
Automation systems for Industrial sectional doors And folding doors

All doors in industrial buildings and warehouses can be automated with BFT operators. These extremely sturdy and compact systems can be used for even the most difficult applications and are capable of operating shutters of all sizes safely and regularly in any installation space.

	Max surface area	Voltage	Max speed	Operator	pag.
industrial sectional doors	20m ²	24V	30rpm	ARGO	218
		230V	33rpm	PEGASO SC 230V	220
	25m ²	230V	24rpm	PEGASO C 230V	220
				PEGASO SB 230V	220
	35m ²	24V	18rpm	ARGO G	218
	45m ²	400V	24rpm	PEGASO C TRI 400V	220
PEGASO SB TRI 400V				220	

	Max surface area	Max weight	Max speed	Operator	pag.
industrial folding doors	6m ²	250kg	24V	IGEA LB BT	224
			230V	IGEA LB	224
	2.4m ²		230V	FORB	222
			230V	FORB R	222
			230V	FORB ERS A	222

A	Operator
B	Control unit
D	Receiver
E	Photocell
G	Sensitive edge
H	Post
I	Blinker
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
	2x1.5
	6x1
	3x1.5
	RG 58
	5x1
	2x1
	4x2.5



Industrial sectional doors and folding doors automation system associations

	RIGEL 5	LIBRA C MA	ALTAIR P	VENERE D ARGO	PEG CB
FORB	Recommended				
FORB R	Recommended				
ARGO				Built-In	
ARGO G				Built-In	
PEGASO C					Built-In
PEGASO SB					Built-In
PEGASO C TRI					Built-In
PEGASO SB TRI					Built-In
PEGASO SC					Built-In
IGEA LB BT		Recommended			
IGEA LB			Recommended		

Recommended	Guarantees better use of the operator, in terms of both quantity and types of options
Compatible	For the correct functioning of the operator
Built-in	Installed and partially wired inside the operator

E1	Alternating functions; one cuts out the other
E2	
E3	
E4	
E5	
E6	
E7	
E8	
PRO	Requires PROXIMA handheld programmer
Opt.	Requires optional board



Control unit characteristics 217

	RIGEL 5	LIBRA C MA	ALTAIR P	VENERE D
MOTORS POWER SUPPLY				
Motor 1 230V output	•		•	
Motor 2 230V output	•		•	
Motor 1 24V output				•
Motor 2 24V output		•		
LIMIT SWITCH INPUTS				
Single for Opening				
Single for Closing				
Separate Inputs for Opening	•	•		
Separate Inputs for Closing	•	•		
Encoder				•
CONTROLS INPUTS				
Start	•	E1	E1	•
Pedestrian Start	•	•	E2	•
Internal Start	•			
Open	•	E1	E1	
Close	•		E2	
Timer	E1			
Pedestrian Timer	E1			
EMERGENCY STOP				
Stop	•	•	•	•
SAFETY SYSTEMS INPUTS				
Photocells		•	•	•
Photocells for Opening	E2			
Photocells for Closing	•			
Photocells Inputs Check	•	•		•
Safety Edge	E2			
Safety Edges Inputs Check	•			
AUXILIARY INPUTS/OUTPUTS				
Blinker		•	•	•
Courtesy Light	E4			•
Zone Light	E4			
Stairs Light	E5			
Solenoid Lock	E6	Opt.	Opt.	
Electromagnet	E6			
Gate Open Warning Light	E7	E2	E3	E1
Second Radio Channel	E7	E2	E3	E1
Alarm	E5			
MOTORS CONTROLS				
Torque Control	•	•	•	•
Obstacle Recognition		•		•
Dynamic Path Tracking				•
Speed Control	•			•
Slowdown Control	•	•		•
Speed and Slowdown Control	•	•		•
Brake	•			
Opening Delay Control	•	•		
Closing Delay Control	•	•	•	
Backup Batteries Connection		•		•
Self Setting		•		•
FUNCTIONS				
Automatic Re-closing Control (TCA)	•	•	•	•
Open Pulse Blocking	•	•	•	•
TCA Pulse Blocking	•			
Close Pulse Blocking	•			
Photocell Trigger Setting	•	•	•	•
Fast Close	•	•	•	•
Pre-Alarm	•	•	•	•
2 Steps	E8			
3 Steps	•	•	•	•
4 Steps	E8	•	•	•
Deadman Feature	•	•		
Closing Stop Pressure	•	•		
Water Hammer	•		•	
Traffic-Light Management	Opt.			
MISCELLANEOUS				
Accessories power supply 24V	1A	180 mA	200 mA	180 mA
Antenna	•	•	•	•
Built-in Receiver	•	•	•	•
Learning via Radio Commands	•	•	•	•
EE-Link	•	•	•	•
ER-Ready	•	•	•	•
Self-Diagnosis	•	•	•	•
Statistics Management	•	•	•	•
Central Commands Management	Opt.	•	•	Opt.
Conformity to EN 12453-EN12445	•	•		•



Description

24V electromechanical operator for sectional garage doors installable in residential, industrial and commercial environments.

The sturdy mechanical structure and the microprocessor technology of the control unit allow the intensive use of the operator, whilst at the same time guaranteeing reliability and long life.

The D-Track torque control system combined with the absolute encoder ensure maximum precision in the control of the gate movement and the detection of obstacles.



((€R-Ready))

D-TRACK



Exclusive encoder position reset knob for fast, safe installations.



Limit switch based on absolute encoder technology, guaranteeing maximum reliability and stopping precision.



Control unit with on-board programming display and D-Track torque, speed and position management and control system. Incorporated dual channel radio receiver.



Summary table

Code	Name	Voltage	Door surface area	Max torque	Legend
P925202 00001	ARGO	24V	20m ²	55Nm	A
P925206 00002	ARGO G	24V	35m ²	80Nm	A

Accessories



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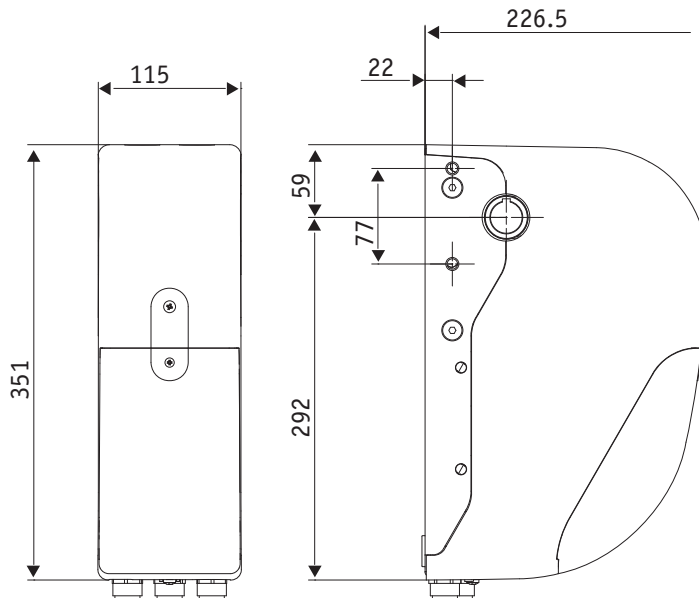
of family p. 228



generic p. 232

Kit p. 26

Dimensions



Technical features

	ARGO	ARGO G
Control unit	VENERE D ARGO	VENERE D ARGO G
Manual cycle	Non reversing	Non reversing
Power supply	24V	24V
Power input	240W	240W
Output revolutions	30rpm	18rpm
Type of limit switch	Absolute encoder	Absolute encoder
Slowdown	Yes	Yes
Impact reaction	Electronic torque limiter	Electronic torque limiter
Locking	Mechanical	Mechanical
Release	Cord or steel cable	Steel cable
Frequency of use	Intensive	Intensive
Environmental conditions	from -15°C to 55°C	
Actuator weight	10kg	10kg

Description

Irreversible electromechanical operator for sectional doors of maximum surface area 45 sq m. The absolute encoder guarantees maximum stopping precision and is able to manage two supplementary limit switches. Available with 230V single phase or 400V three-phase power supply.



Management system for stop and intermediate limit switches based on absolute encoder technology with settable zero position.



Control unit with deadman feature on-board operator



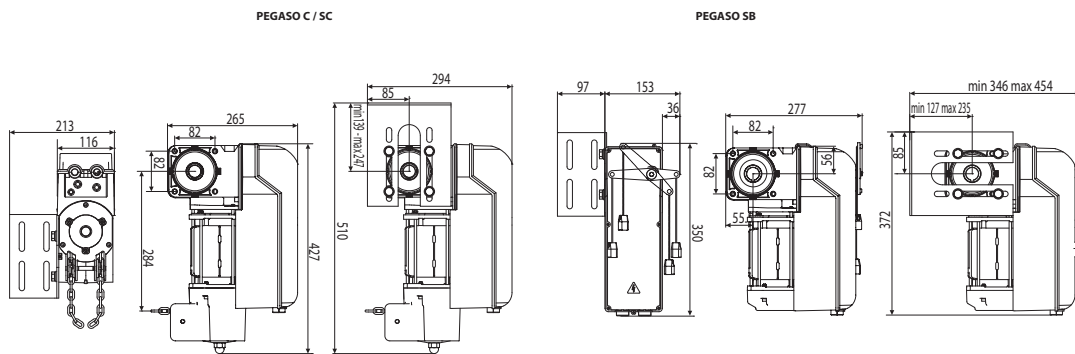
Ready-to-use cables with quick-fit connectors.



Summary table

Code	Name	Voltage	Door surface area	Legend
P925203 00002	PEGASO C 230V	230V	25m ²	A
P925203 00003	PEGASO C TRI 400V	400V	45m ²	A
P925204 00002	PEGASO SB 230V	230V	25m ²	A
P925204 00003	PEGASO SB TRI 400V	400V	45m ²	A
P925205 00002	PEGASO SC 230V	230V	20m ²	A

Dimensions



Technical features

	PEGASO C	PEGASO C TRI	PEGASO SB	PEGASO SB TRI	PEGASO SC
Power supply	230V	400V	230V	400V	230V
Power input	750W	980W	750W	980W	750W
Max torque	70Nm	100Nm	70Nm	100Nm	50Nm
Shaft rotation speed	24rpm	24rpm	24rpm	24rpm	33rpm
Shaft diameter	25.4mm				
Stroke	18giri	18giri	18giri	18giri	18giri
Type of limit switch	Encoder	Encoder	Encoder	Encoder	Encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Chain release	Chain release	Double cable release	Double cable release	Chain release
Frequency of use	Semi-intensive	Intensive	Semi-intensive	Intensive	Semi-intensive
Environmental conditions	from -10°C to 50°C				
Actuator weight	12.4kg	12.2kg	11.2kg	11kg	12.4kg

SIRIO MA

Control panel for one operator for 230V or 400V industrial sectional doors



B

SIRIO MA D113713 00002

- Application: control panel for one operator for industrial sectional doors
- Board power supply: 230V single phase or 400V three-phase
- Operators power supply: 230V single phase or 400V three-phase
- Main features: removable terminal blocks, programming and diagnostics with trimmers and dip switches, LED diagnostics, stop button, opening and closing controls on panel, fuse holders incorporated in panel
- Main functions: automatic re-closing, separate opening and closing
- Compatibility: SIRIO TMA



Description

Hydraulic operator for very intensive use for industrial folding doors, maximum two panels per leaf.

Designed for the harshest of use conditions, combining strength with the proven reliability of hydraulic operators.

The hydraulic slowdown guarantees silent, smooth movements on even the biggest doors. Also, the adjustment screw makes it possible to adapt the slowdown intensity to all needs.

The by-pass valves allow the exact setting of the torque separately and independently for opening and closing.

All-aluminium structure with high-resistance anodising treatment.

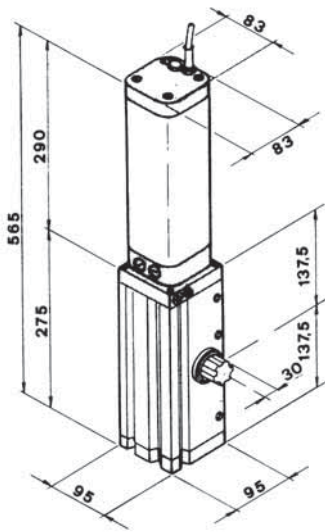


Summary table

Code	Name	Voltage	Door surface area	Legend
P935017 00001	FORB	230V	6m ²	A
P935038 00001	FORB ERSA	230V	2.4m ²	A
P935019 00001	FORB R	230V	2.4m ²	A



Dimensions



Technical features

	FORB	FORB R
Control unit	RIGEL 5	
Power supply	230V	230V
Power input	250W	250W
Opening or closing time	25sec.	13+slowdownsec.
Slowdown	No	Yes
Impact reaction	Hydraulic clutch	Hydraulic clutch
Locking	Hydraulic	Hydraulic
Release	Lever or steel cable	Lever or steel cable
Frequency of use	Very intensive	Very intensive
Environmental conditions	from -15°C to 60°C	
Actuator weight	12.5kg	13kg

RIGEL 5 Universal control panel for one or two 230V operators



RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators

B



Description

Range of electromechanical operators for industrial folding doors, maximum two panels per leaf.
Available also in 24V version to guarantee maximum anti-crushing safety and precision in movement and slowdown.

Control unit with programming display, automatic setting menu, simplified programming and virtual encoder in 24V version.



Built-in, adjustable, single-cable electromechanical limit switch system.



Removable steel cable release system.



Summary table

Code	Name	Voltage	Door weight	Legend
P935077 00001	IGEA LB	230V	250kg	A
P935072 00002	IGEA LB BT	24V	250kg	A

Accessories

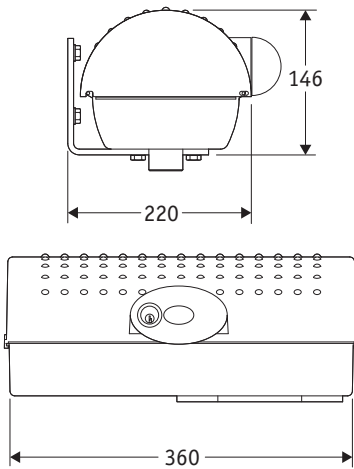
of product p. 226

of family p. 228

generic p. 232

Kit p. 26

Dimensions



Technical features

	IGEA LB	IGEA LB BT
Control unit	ALTAIR P	THALIA
Power supply	230V	24V
Power input	300W	40W
Opening or closing time	15sec.	15sec.
Type of limit switch	Electric	Electric
Slowdown	No	Yes
Impact reaction	Electric clutch	D-Track
Locking	Mechanical	Mechanical
Release	Release handle with personal key	Release handle with personal key
Frequency of use	Semi-intensive	Semi-intensive
Environmental conditions	from -15°C to 60°C	
Actuator weight	16kg	16kg

THALIA

Control panel for one or two 24V operators for swing gates



B

THALIA D113745 00002

new

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R

ARGO



RCA N733421

Lever release for ARGO with steel cable, length 3.5 m



RCAL N733422

Lever release for ARGO with steel cable, length 7 m



BT BAT P125005

Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO

PEGASO



ALPHA FR QSG2 D113689 00002

Control panel for one 230V/500W single phase operator for industrial sectional doors



SIRIO MA D113713 00002

Control panel for one operator for 230V or 400V industrial sectional doors



PEG CB UP MONO P111457

Control unit with deadman feature for PEGASO single phase operators



PEG CB UP TRI P111458

Control unit with deadman feature for PEGASO three-phase operators



PEG CB UP INT P111459

Interface for connection of PEGASO to an external control unit



PEGASO CABLE MONO D121631

Pre-wired power supply cable for PEGASO single phase operators. Length 1 m



PEGASO CABLE TRI D121632

Pre-wired power supply cable for PEGASO three-phase operators. Length 1 m



PEGASO CABLE AUTO 5 D121633

Pre-wired connection cable between PEG INT and external control unit electric power supply. Length 5 m



PEGASO CABLE AUTO 10 D121634

Pre-wired connection cable between PEG INT and external control unit electric power supply. Length 10 m



PEGASO INT CABLE 5 D121635

Pre-wired connection cable between PEG INT and external control unit for the management of motor safety systems and limit switches. Length 5 m



PEGASO INT CABLE 10 D121649

Pre-wired connection cable between PEG INT and external control unit for the management of motor safety systems and limit switches. Length 10 m



PEGASO UP CONTROL 5 D121624

Cable with pre-wired OPEN - STOP - CLOSE keypad for PEGASO UP operators. For adjusting motor limit switches from floor level. Length 5 m



PEGASO UP CONTROL 10 D121625

Cable with pre-wired OPEN - STOP - CLOSE keypad for PEGASO UP operators. For adjusting motor limit switches from floor level. Length 10 m



PEGASO ADA N733449

Adapter for installation on doors with 1 1/4 shaft



PEG CCP N999468

Extension for PEGASO C operators release chain. Length 4 m



PIG 12/ULISSE 5 N733338

Z12 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts



PEGASO



COR 40 N733149

Z40 gear kit complete with accessories for industrial sectional doors, for 1" (25.4 mm) shafts

FORB



RIGEL 5 D113693 00003

Universal control panel for one or two 230V operators

B



SEB N733020

External key release for BERMA, FORB, IGEA LB and IGEA LB BT

IGEA LB



THALIA D113745 00002 new

Control panel for one or two 24V operators for swing gates

B



RCA N733421

Lever release for ARGO with steel cable, length 3.5 m



LIBRA C MA D113672 00005

Control panel for one or two 24V swing gate operators.

B



RCAL N733422

Lever release for ARGO with steel cable, length 7 m



ALTAIR P D113703 00002

Control panel for one or two 230V/300W operators for swing gates and industrial folding doors

B



B EBA 201 R01 P111468

Expansion board for serial control central groups connection



BT BAT P125005

Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO

C



B EBA 201 R03 P111467

Expansion board for WIEGAND devices connection



SCS 1 P111376

Serial board for connection to zone and opposing leaves for control units with display-Available while stock lasts

B



B EBA 201 R04 P111469












Expansion board for Blue-Tooth connection















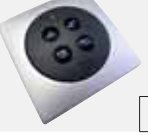







SCS WIE P111408

Board for connection to SELETTO (E) keypad and COMPASS SLIM proximity reader-Available while stock lasts

B

	<p>CELLULA 50 P111272 Pair of built-in adjustable photocells (range 30 m) Power supply 24V ac</p>		<p>CELLULA 130 P111273 Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc</p>
	<p>CELLULA 180 P111452 Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc</p>		<p>CELLULA RFL P111391 Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)</p>
	<p>S RFLP P111409 Reflector and support for wall mounting and mounting on CC post for CELLULA RFL</p>		<p>DCW P111410 Wireless photocell with possibility of managing infrared or resistive safety edge</p>
	<p>STR N190106 Pair of infrared sensors for DCW</p>		<p>DCW COVER P111454 Anodised aluminium cover for DCW and CELLULA180</p>
	<p>VENTIMIGLIA NS P111401 00001 Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)</p>		<p>BIR C N190104 Rubber safety edge (H 30 mm), price per m</p>
	<p>BAR C 2 P111450 00002 Double profile rubber safety edge (L 2000 x H 60 mm)</p> <p>BAR C 4 P111450 00004 Double profile rubber safety edge (L 4000 x H 60 mm)</p> <p>BAR C 6 P111450 00006 Double profile rubber safety edge (L 6000 x H 60 mm)</p> <p>BAR C BA 2 P111451 00002 Double profile rubber safety edge with lip seals (L 2000 x H 60 mm)</p> <p>BAR C BA 4 P111451 00004 Double profile rubber safety edge with lip seals (L 4000 x H 60 mm)</p> <p>BAR C BA 6 P111451 00006 Double profile rubber safety edge with lip seals (L 6000 x H 60 mm)</p>		

	<p>RAY X 230V D113719 00002 Blinker with built-in antenna for 230V motors</p>		<p>RAY X 24V D113719 00003 Blinker with built-in antenna for 24V motors</p>
	<p>B LTA 230 R1 D113748 00002 Blinker with built-in antenna for 230V motors</p>		<p>B LTA 230 R2 D113749 00002 Blinker without antenna for 230V motors</p>
	<p>B LTA 024 R1 D113748 00003 Blinker with built-in antenna for 24V motors</p>		<p>B LTA 024 R2 D113749 00003 Blinker without antenna for 24V motors</p>
	<p>B 00 R01 P123026 Metal guard for B LTA</p>		<p>B 00 R02 P123025 Wall mounting for B LTA series blinkers</p>
	<p>MITTO 2 12V D111750 12V two-channel transmitter 433 MHz rolling code</p>		<p>MITTO 4 12V D111751 12V four-channel transmitter 433 MHz rolling code</p>
	<p>MITTO 2 REPLAY D111841 12V 2-channel transmitter, copyable with rolling code</p>		<p>MITTO 4 REPLAY D111842 12V 4-channel transmitter, copyable with rolling code</p>
	<p>SEK P121017 External key selector switch with vandal-proof metal frame</p>		<p>T-BOX P121019 Wireless digital keypad 433 MHz Rolling code</p>
	<p>RB P121016 4-channel wall-mounted radio control with rolling code</p>		<p>SPC D121611 External button panel with 2 start-stop buttons.</p>
	<p>SPC2 D121612 External button panel with 2 open-close buttons.</p>		<p>SPCE D121613 External button panel with mushroom-head emergency button.</p>
	<p>SPC3 D121619 Open stop close button panel.</p>		<p>TELECOMANDO P111405 Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8</p>

230 Family accessories



Q

FALCON P111407

Industrial presence sensor installable up to 7 m



LEONARDO KIT P111386

BFT impact measurer



LEONARDO KIT BLUETOOTH P111387

BFT Bluetooth impact measurer



Control units



B

ALCOR N D113706 00002

- Application: control panel for one or two swing gate operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 300W max each operator
- Main features: removable terminal blocks, settings controlled by potentiometers, fault signalling LEDs and incorporated dual channel receiver
- Main functions: stays locked when closed, 3/4 step logic, partial opening, separate opening/closing
- Compatibility: ALCOR SD



B

ALPHA FR QSG2 D113689 00002

- Application: control panel for one operator for industrial sectional doors
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 500W max
- Main features: START and mushroom-head emergency buttons incorporated in panel, settings controlled by potentiometers and LED-based fault reporting with built-in dual channel receiver.
- Main functions: fast closing, pulse blocking, separate opening and gate open indicator light
- Compatibility: MIZAR FR



B

ALPHA SD D113680 00002

- Application: control panel for one operator for slide and swing gates, roll-up gates and overhead doors
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 500W max
- Main features: removable terminal blocks, settings controlled by potentiometers, LED-based fault reporting and incorporated dual channel receiver
- Main functions: fast closing, pulse blocking, gate open indicator light
- Compatibility: MIZAR



B

ALTAIR P D113703 00002

- Application: control panel for one or two operators for swing gates and industrial folding doors
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 300W max each operator
- Main features: removable terminal blocks, programming with display and built-in dual channel receiver
- Main functions: stays locked when closed, 3/4 step logic, partial opening, fast closing and self-diagnostics
- Compatibility: ALTAIR and ARIES



B

ELBA D113716 00002

- Application: control panel for LOOP type operator for roller shutters
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 470W max
- Main features: Extremely compact size for installation in shutter case, programming with potentiometers and dip switches, built-in receiver
- Main functions: separate open/close, photocells input, possibility of centralised controls, anemometer and twilight sensor management
- Compatibility: CAPRI, CAPRI RIC, CAPRI TCA



B

ELBA BU D113717 00002

- Application: control panel for one roll-up door operator
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 470W max
- Main features: Extremely compact size for installation in shutter case, programming with potentiometers and dip switches, built-in receiver, control button on case
- Main functions: separate open/close, photocells input, possibility of centralised controls, anemometer and twilight sensor management
- Compatibility: CAPRI, CAPRI RIC, CAPRI TCA



ELMEC 1 D113612 00001

- Application: control panel for one operator for industrial sectional doors
- Board power supply: 230V single-phase
- Operator power supply: 230V single phase 750W max
- Main features: limit switch inputs, semi-automatic or deadman operation, separate open/close

B



ELMEC 2 D113613 00001

- Application: control panel for one operator for industrial sectional doors
- Board power supply: 400V three-phase
- Operator power supply: 400V three-phase 750W max
- Main features: limit switch inputs, semi-automatic or deadman operation, separate open/close

B



HYDRA N QSG2 D113730 00002

- Application: control panel for one or two overhead garage door operators
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 168W max each operator
- Main characteristics: removable terminal blocks, programming with display and incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, pulse blocking, blocking hold
- Compatibility: HYDRA, HYDRA R

B



LEO D MA D113695 00002

- Application: control panel for one ICARO operator
- Board power supply: 230V single-phase
- Operators power supply: 230Vdc 750W max
- Main features: removable terminal blocks, programming with display, incorporated dual channel receiver and connector for additional receiver, anti-crushing, slowdown during opening and closing and electronic self-learning
- Main functions: torque management, motor slowdown and braking, pedestrian opening, separate open/close, TIMER input, fast closing and self-diagnostics
- Compatibility: LEO series

B



THALIA D113745 00002

new

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R

B



LIBRA C LX QSG2 D113715 00002

- Application: control panel for one or two operators for swing gates (LUX BT)
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc
- Main features: removable terminal blocks, programming with display and incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning, D-TRACK torque control system, traffic-light management possible with SCS IO and TLB boards
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature, pulse blocking, separate opening/closing
- Control panel for one or two LUX BT series operators

B

Control units



LIBRA C MA D113672 00005

- Application: control panel for one or two 24V swing gate operators.
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main characteristics: removable terminal blocks, programming with display and incorporated dual channel receiver, anti-crushing, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, partial opening, deadman feature
- Compatibility: LIBRA, LIBRA R, LIBRA MA R

B



PEG CB INT P111459

- Application: interface for connection of PEGASO operators to an external control unit
- Main features: removable terminal blocks, transmission of travel limits, auxiliary contacts and motor alarms to external control unit
- Compatibility: PEGASO

B



PEG CB UP MONO P111457

- Application: control unit with deadman feature for PEGASO single phase operators
- Main features: removable terminal blocks, management of limit switches and auxiliary contacts
- Compatibility: PEGASO

B



PEG CB UP TRI P111458

- Application: control unit with deadman feature for PEGASO three-phase operators
- Main features: removable terminal blocks, management of limit switches and auxiliary contacts
- Compatibility: PEGASO TRI

B



PERSEO 2 D113744 00002

- Application: control panel for 1 to 4 STOPPY and STOPPY H operators (in parallel)
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 350W max each operator
- Main features: removable terminal blocks, adjustment controlled by potentiometers and fault signalling LEDs
- Main functions: automatic re-closing, separate opening and closing, preflashing, opening authorisation, warning lights mode setting
- Compatibility: PERSEO

B



THALIA P D113747 00002

- Application: control panel for one or two 24V operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 240W max each operator
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display and incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing and electronic self-learning
- Main features: automatic closing, rapid closing, partial opening, operation with deadman feature, direct connection powered solenoid lock and electromagnet, direct connection edge 8K2.
- Compatibility: LIBRA C MA, LIBRA C LX

B



RIGEL 5 D113693 00003

- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase
- Main features: removable terminal blocks, programming and diagnostics with display, incorporated dual channel receiver, plug-in connector for additional receiver, electric snap latch or magnetic lock connection, electronic torque limiter, electronic slowdown during opening and closing, separate limit switch inputs for each motor, possibility of traffic-light management and hydraulic operator pre-heating with SSR5 board
- Main functions: automatic re-closing, separate motor working times, stays locked when closed, water hammer, 2/3/4 step logic, partial opening, fast closing, separate opening and closing
- Compatibility: RIGEL 4
- Universal control panel for one or two 230V operators

B



SIRIO MA D113713 00002

- Application: control panel for one operator for industrial sectional doors
- Board power supply: 230V single phase or 400V three-phase
- Operators power supply: 230V single phase or 400V three-phase
- Main features: removable terminal blocks, programming and diagnostics with trimmers and dip switches, LED diagnostics, stop button, opening and closing controls on panel, fuse holders incorporated in panel
- Main functions: automatic re-closing, separate opening and closing
- Compatibility: SIRIO TMA

B



UNIPOWER D121501

- 12Vdc power supply for Proxima

B



PROXIMA P111326

- Universal handheld programmer for control units, receivers and remote controls

B



PROXIMA BLUE P111465

- Universal handheld programmer for control board, receivers and transmitters with Bluetooth technology

B

Accessories for control units



CP SD N999369

Set of cable clamps for SD panel

P



SFQ N999070

Set of SD and QSG panel fixing brackets

P

Set of batteries for control units



BBV P111442
Set of backup batteries for VISTA SL



BT BAT2 P125009
Set of backup batteries for ARES



SB BAT P125002
Set of backup batteries for DEIMOS BT



MCL BAT P125011
Set of backup batteries for MICHELANGELO barriers



BT BAT P125005
Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO



STOPPY BAT P975001
Set of backup batteries for forcing the STOPPY to stay in the raised position in the event of a power cut



CB EOS P125006
Set of backup batteries for VENERE D



GTO BAT P120017
Set of buffer batteries for MOOVI and GIOTTO series barriers



BT BAT1 P125007
Set of backup batteries for HYDRA N QSG2



A-180 SW BAT P135006
Set of backup batteries for A-180 SW series operators



VIRGO BAT P125008
Set of backup batteries for VIRGO



A-300 SL BAT P125017
Set of backup batteries for A-300 SL series operators

Expansion boards



ME D111013

Control board for 24Vac solenoid lock for 230V automation systems

B



ME BT D111761

Control board for 24Vac solenoid lock for 24V automation systems

B



SCS 1 P111376

Serial board for connection to zone and opposing leaves for control units with display-Available while stock lasts

B



SCS 1 MA P111377

Board for connection to more than two checked photocell copies for DEIMOS BT and URANO-Available while stock lasts

B



SCS WIE P111408

Board for connection to SELETTO (E) keypad and COMPASS SLIM proximity reader-Available while stock lasts

B



SCS IO P125014

Serial Input Output expansion board-Available while stock lasts

B



IT23 P111399

Connection interface for CELLULA RFL in accordance with EN12453 Standard

G



FLC 8K2 P111400

Interface for connecting one or more 8K2 type edges

G



SS D111061

Gate open indicator light board for ALCOR N (operating with limit switch)

B



SSR5 D111704

Board for traffic-light management and pre-heating 230V hydraulic motors for RIGEL5

B



SPL D113050

Pre-heating board with thermostat for 230V hydraulic operators. Not usable with RIGEL 5

B



TLB D113727

Traffic-light management board for LIBRA C LX

B



RAU P111449

Wired connection board for BFT plug-in receivers

B



SW NET P121015 00001

Interface for connecting standard buttons to FAST NET systems

B



B EBA 201 R04 P111469

Expansion board for Blue-Tooth connection

B



B EBA 201 R02 P111466

Expansion board for INPUT/OUTPUT

B



B EBA 201 R03 P111467

Expansion board for WIEGAND devices connection

B



B EBA 201 R01 P111468

Expansion board for serial control central groups connection

B

Receivers



D

CLONIX 2 2048 D111664

Dual channel 433 MHz rolling code plug-in receiver. 2048-position memory



D

CLONIX 2 D111662

Dual channel 433 MHz rolling code plug-in receiver. 128-position memory



D

CLONIX 2E D113674 00001

External dual channel 433 MHz rolling code receiver. 128-position memory



D

CLONIX 2E 2048 D113674 00003

Dual channel 433 MHz rolling code plug-in receiver. 2048-position memory



D

CLONIX 4 RTE D113718 00002

External 4-channel 433 MHz rolling code receiver. Power relay outputs (16A 230v)



D

RTD 2048 D113670 00002

Four-channel rolling code receiver with 2048 codes and built-in programming display. 230Vac power supply, radio command block programming



D

MOP D111713 00001

Accessory for adding an output channel to RTD



D

RTD RS N733301 00001

Additional module for RTD 2048. For the remote management of radio systems via modem



D

ER 1 P130025

External receiver for LOOP series operators. Compatible with TEL 1, TEL 5 and TIMER transmitters



D

RE D111050

Wired connection board for two BFT plug-in receivers



D

RO 2 D111305

Dual channel 30.875 MHz plug-in receiver.



D

AEL 433 D113632

Antenna for 433 Mhz radio remote control with 4 m cable



D

AEL 30.8 D113631

Antenna for 30,875 Mhz radio remote control with 4 m cable











D

GSM RECEIVER D113746 00003

GSM receiver. Enables the operation of an automation system with a free phone call

Transmitters

	MITTO 2 12V D111750 12V two-channel transmitter 433 MHz rolling code
	MITTO 4 12V D111751 12V four-channel transmitter 433 MHz rolling code
	MITTO 2 12V/100 N999321 12V two-channel transmitter 433 MHz rolling code. Pack of 100 items, numbered for block memorisation
	MITTO 4 12V/100 N999322 12V four-channel transmitter 433 MHz rolling code Pack of 100 items, numbered for block memorisation
	MITTO 2 REPLAY D111841 12V 2-channel transmitter, copyable with rolling code
	MITTO 4 REPLAY D111842 12V 4-channel transmitter, copyable with rolling code
	MITTO W LINK D111840 12 V 4-channel transmitter, with programmer function for control units with display
	GHIBLI D111879 12V four-channel transmitter 433 MHz rolling code

	RB P121016 4-channel wall-mounted radio control with rolling code
	TO2 D111302 Dual channel 30,875 MHz transmitter with double code. Can be used for controlling a shared gate and a private garage, for example
	TO3D D111300 4-channel 30,875 MHz transmitter with triple code. Can be used for controlling 2 shared gates and 2 private garages, for example
	TEL 1 D111303 1-channel remote control for LOOP RADIO and ER-1 receiver
	TEL 5 D111829 5-channel remote control for LOOP RADIO and ER-1 receiver
	TEL FIX P130023 Wall-mounted remote control for LOOP RADIO operator
	Timer P130024 Weekly programmer for LOOP RADIO or external ER-1 receiver





Control devices

	T-BOX P121019 Wireless digital keypad 433 MHz Rolling code		SELETTO P121012 Recessed digital button panel with metal body and stainless steel keys
	RB P121016 4-channel wall-mounted radio control with rolling code		SELETTO E P121013 External digital button panel with metal body and stainless steel keys

Control devices

	SEK P121017 External key selector switch with vandal-proof metal frame		CM D121012 Magnetic key for LCM reader
	INTRO P121011 Recessed key switch		BOX N574039 Wall-mounted safe for steel cable release and electric control
	SC NET P121014 Key switch for FAST NET systems		SIBOX N574005 Empty wall-mounted safe for external release and control keypad Dimensions 179.5 x 122 x 92 mm
	CRC D531097 Coded replacement key. Specify serial number of key to be replaced when making order		MOX N733036 External release system to be inserted in SIBOX safe
	SPC D121611 External button panel with 2 start-stop buttons.		POX-UP N733103 00001 SIBOX two-button panel with indicator light for SIBOX safe, for direct connection to operator
	SPC2 D121612 External button panel with 2 open-close buttons.		POX-SC N733103 00002 SIBOX two-button panel with indicator light for SIBOX safe, for connection to control unit
	SPC3 D121619 Open stop close button panel.		CSC 50 P903008 Aluminium column for photocell mod. CELLULA 50 and selector mod. INTRO
	SPCE D121613 External button panel with mushroom-head emergency button.		RME 1 BT P111274 24Vac single channel metal object detector with installation base
	LCM D121011 Magnetic key reader. For column mounting - see mod. CLC		RME 2 P111001 00003 230Vac dual channel metal object detector with installation base
	CLC D731022 Column for magnetic key readers. Height 1 m		SPIRA 2X1 D110926 00001 Magnetic loop 2 x 1 m








Radar

	RIP P111325 Multi-function active infrared radar, wide/narrow range
	EAGLE ONE P111403 Mono-directional presence sensor. Needs REMOTE CONTROL for programming
	SEAGLE TWO P111404 Bi-directional presence sensor
	SPOTFINDER P111406 IR curtain detector

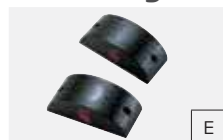
	FALCON P111407 Industrial presence sensor installable up to 7 m
	ACTIVE8 TWO PB P111402 00001 Safety and presence sensor
	TELECOMANDO P111405 Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8

Blinkers

	RAY X 230V D113719 00002 Blinker with built-in antenna for 230V motors
	RAY X 24V D113719 00003 Blinker with built-in antenna for 24V motors
	RAY X SA 230V D113721 00002 Blinker without antenna for 230V motors
	RAY X SA 24V D113721 00003 Blinker without antenna for 24V motors
	RWS P123023 Wall mounting for RAY X series blinkers
	PCR P123024 Metal guard for RAY X
	LAMP NET D113696 00003 FAST NET blinker with connection fitting for radio module

	SLM2 D123013 Wall-mounted bracket for LAMP NET blinker
	B LTA 230 R1 D113748 00002 Blinker with built-in antenna for 230V motors
	B LTA 230 R2 D113749 00002 Blinker without antenna for 230V motors
	B LTA 024 R1 D113748 00003 Blinker with built-in antenna for 24V motors
	B LTA 024 R2 D113749 00003 Blinker without antenna for 24V motors
	B 00 R01 P123026 Metal guard for B LTA
	B 00 R02 P123025 Wall mounting for B LTA series blinkers

Safety devices - Photocells and accessories



CELLULA 130 P111273
 Pair of self-aligning photocells for external application (range 30 m) Power supply 24V ac/dc

E



CELLULA 180 P111452
 Pair of orientable photocells (180°horiz./20°vert.) For external application (range 30 m). Power supply 24V ac/dc

E



PRO 130 P111081
 Anodised aluminium vandal-proof guard for CELLULA 130

E



DCW P111410
 Wireless photocell with possibility of managing infrared or resistive safety edge

E



CC130 P903005
 Pair of aluminium posts for CELLULA 130 photocells

P



DCW COVER P111454
 Anodised aluminium cover for DCW and CELLULA180

F



CC130/2 P903006
 Pair of aluminium posts with double fitting for CELLULA 130 photocells

P



DCW BAT N999465
 Pack of 12 batteries for DCW photocell safety edge

F



CSC 130 P903007
 Aluminium post for CELLULA 130 photocell and INTRO selector, plus CC130 post

P



CC DCW P903016
 Pair of aluminium posts and guards for DCW and CELLULA180

P



PFC1 P903010
 Pair of foundation plates for CC50, CC130, CSC50, CSC130 and CC130/2 posts

P



CELLULA RFL P111391
 Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)

E



CELLULA 50 P111272
 Pair of built-in adjustable photocells (range 30 m) Power supply 24V ac

E



S RFLP P111409
 Reflector and support for wall mounting and mounting on CC post for CELLULA RFL

E



CSC 50 P903008
 Aluminium column for photocell mod. CELLULA 50 and selector mod. INTRO

P



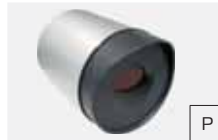
IT23 P111399
 Connection interface for CELLULA RFL in accordance with EN12453 Standard

G



CC50 P903004
 Pair of aluminium posts for CELLULA 50 and CELLULA RFL photocells

P



CM RFL P903014
 CELLULA RFL wall mounting support

P



CCI D221573
 Recessed container for CELLULA 50 and INTRO.

P



CC RFL P903013
 CELLULA RFL and S RFLP mounting support on CC posts

P

Safety devices - Photocells and accessories



FL NET P111382

Pair of FL NET photocells Dip switch bus addressing

E



FL130 P111043

Pair of self-aligning photocells, range up to 25 m, power supply 24Vac/dc

E

Safety devices - Safety edges



DCW P111410

Wireless photocell with possibility of managing infrared or resistive safety edge

E



DCW BAT N999465

Pack of 12 batteries for DCW photocell safety edge

F



STR N190106

Pair of infrared sensors for DCW

G



PRC P111041

Pneumatic relay for BIR edge with 1 pressure switch

G



VENTIMIGLIA NS P111401 00001

Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)

G



PRC2 P111042

Pneumatic relay for BAR edge with 2 pressure switches

G



FLCP 2 P111059 00001

Infrared obstacle detection device for safety edge CI, BIR C, BAR C and BAR C BA

G



FLEXY 6 D141160

6x0.5 sq mm extensible spiral cable for industrial sectional doors. Max. extension 6 m

G

Rubber safety edge



BIR C N190104

Rubber safety edge (H 30 mm), price per m

G



BAR C 4 P111450 00004

Double profile rubber safety edge (L 4000 x H 60 mm)

G



TB D221074

Plug for BIR C

G



BAR C 6 P111450 00006

Double profile rubber safety edge (L 6000 x H 60 mm)

G



BAR C 2 P111450 00002

Double profile rubber safety edge (L 2000 x H 60 mm)

G



BAR C BA 2 P111451 00002

Double profile rubber safety edge with lip seals (L 2000 x H 60 mm)

G

Rubber safety edge

	BAR C BA 4 P111451 00004 Double profile rubber safety edge with lip seals (L 4000 x H 60 mm)		CM3000 P111054 Mechanical safety edge, length 3 m
	BAR C BA 6 P111451 00006 Double profile rubber safety edge with lip seals (L 6000 x H 60 mm)		CM4000 P111055 Mechanical safety edge, length 4 m
	CM1000 P111050 Mechanical safety edge, length 1 m		CM5000 P111056 Mechanical safety edge, length 5 m
	CM1500 P111051 Mechanical safety edge, length 1.5 m		CSP 10 N190039 Rubber shock absorber profile length 1000 mm
	CM1700 P111052 Mechanical safety edge, length 1.7 m		CSP 20 N190040 Rubber shock absorber profile length 2000 mm
	CM2000 P111053 Mechanical safety edge, length 2 m		CSP 25 N190041 Rubber shock absorber profile length 2500 mm

Electric locks

	EBP P123001 00001 230Vac electric drop lock		ECB DX D121016 Right-hand horizontal solenoid lock, 12-24V
	EBP 24 P123001 00013 24Vac solenoid lock, with 230/24V transformer installable in control panel		ECB SX D121017 Left-hand horizontal solenoid lock, 12-24V
	EBPE 52 P123006 00001 230Vac solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 50 mm		ECB VERTICALE D121018 Vertical solenoid lock, 12-24V
	EBPE 75 P123008 00001 230Vac solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 75 mm		

Release systems



SM1 P115005
External manual release for overhead garage door (1 operator)



SM2 P115001
External manual release for overhead garage door (2 operators)



ST P115003
Automatic bolt release for sectional doors



SET/S N733069
External release for insulated sectional and overhead doors of thickness up to 50 mm. SET/S



SEB N733020
External key release for BERMA, FORB, IGEA LB and IGEA LB BTi



BOX N574039
Wall-mounted safe for steel cable release and electric control



SIBOX N574005
Empty wall-mounted safe for external release and control keypad Dimensions 179.5 x 122 x 92 mm



MOX N733036
External release system to be inserted in SIBOX safe



CLS D610180
Triangular release key l=52mm



CLS/82 D610256
Triangular release key for SUB operators l=82mm

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