



# Catalogue

edition 04

Catalogue



tuned to you

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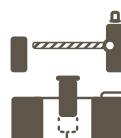
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4 How to use the catalogue

Field of use\*

Name of the product family

Family

Product description

Protocols and technologies

Description of the family's main advantages

Summary table for quick reference

Links to accessories, kits and complete systems

28

DEIMOS

**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.

24V

FASTNET

FF Hub

((FF-Rancho))



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



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

**Summary table**

Code	Name	Kits	Voltage	Leaf max weight	Legend
P925178 00005	DEIMOS BT		24V	500kg	A
R925236 00002	KIT DEIMOS BT FAST NET EASY BUS	*	24V	500kg	A

Accessories

 of product: 56

 of family: 57

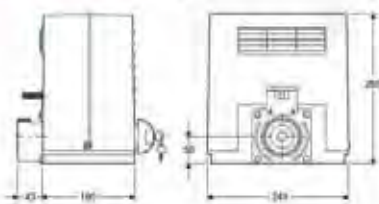
 power: 234

KR 24

Drawing and dimensions of the actuator



### Dimensions



	DEIMOS BT	DEIMOS BT WE3
Control unit	QSC-D MA	SA 110/100 S
Power supply	24V	24V
Power input	70W	70W
Gate speed	12m/min	12m/min
Type of limit switch	Electromechanical	Electromechanical
Pinion module	4 (Z14)	4 (Z14)
Pinion rotation speed	79rpm	79rpm
Slowdown	Yes	Yes
Locking	Mechanical	Mechanical
Release	Knob with triangular key	Knob with triangular key
Frequency of use	Intensive	Intensive
Environmental conditions		
Actuator weight	7kg	7kg

29

Page number

Colour of the family

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

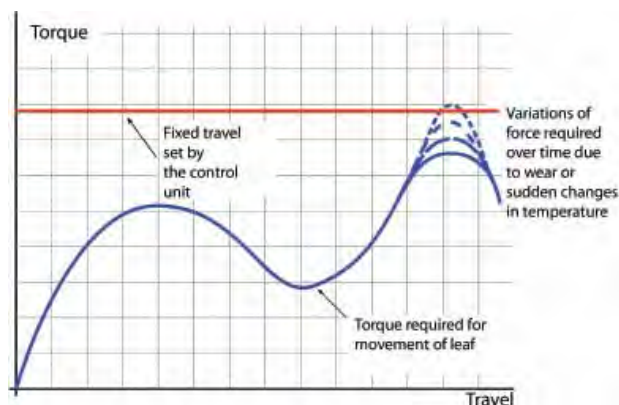
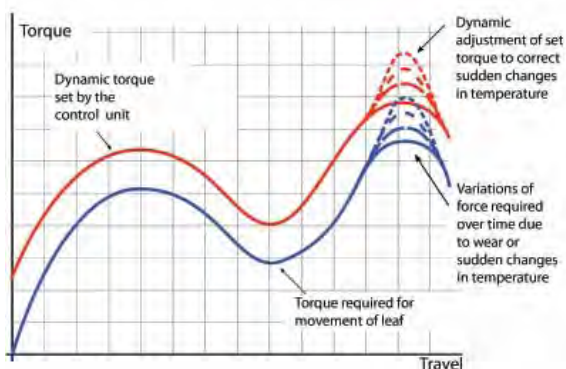
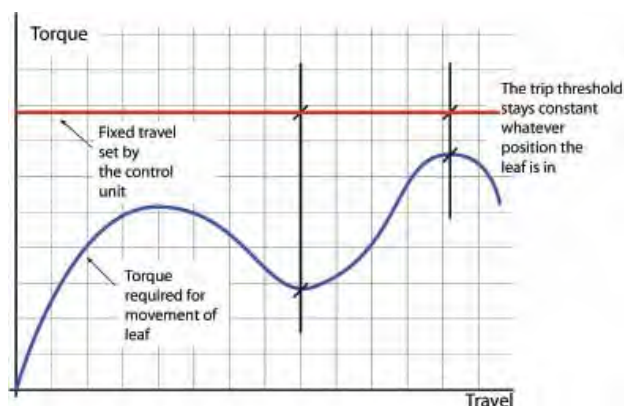
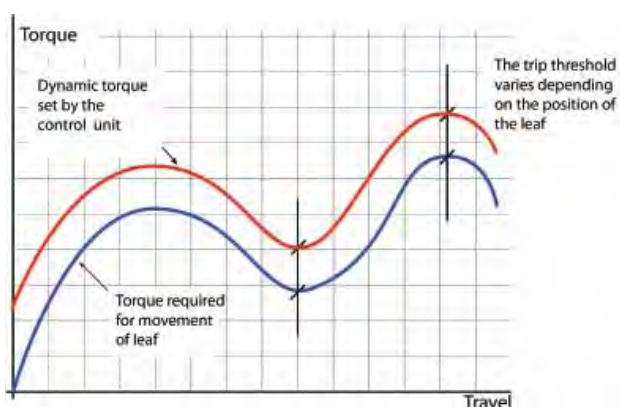
Intelligent torque management system based on the microprocessor technology of BFT control units.

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.



## 10 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.

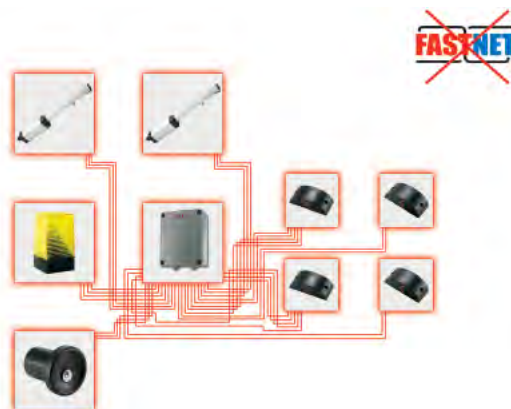
#### Safety in use:

- 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.





## **EELINK**

**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)

## 12 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

## 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.

# 14 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

## 16 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

**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 places 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 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 automation systems





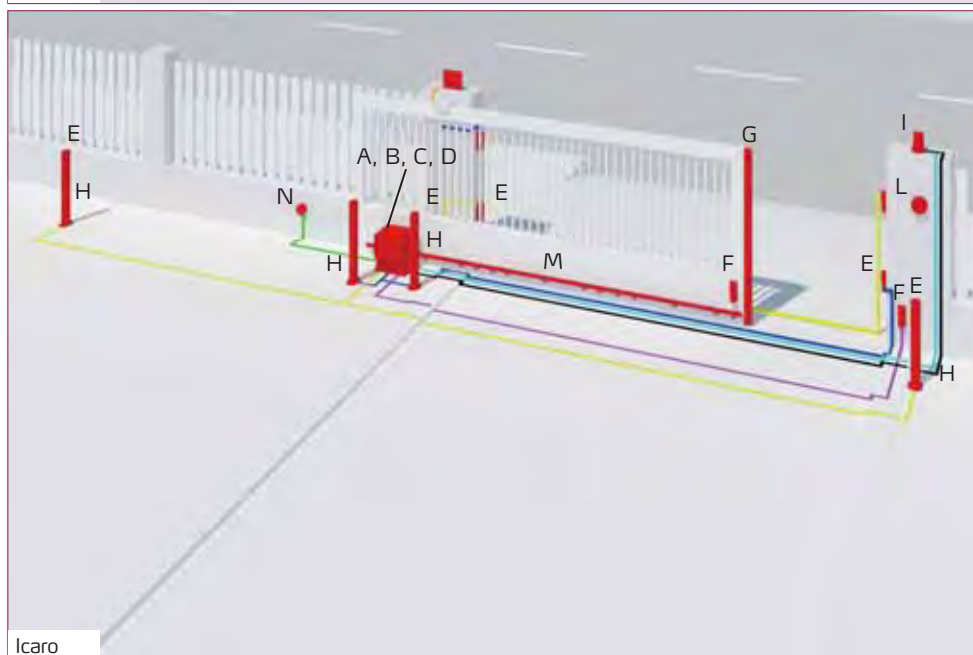
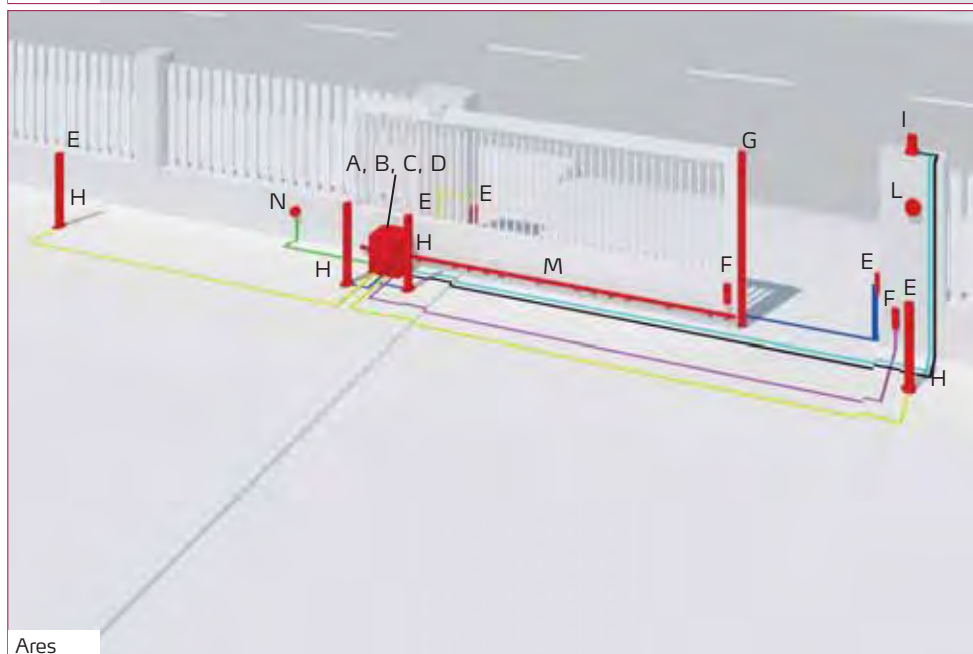
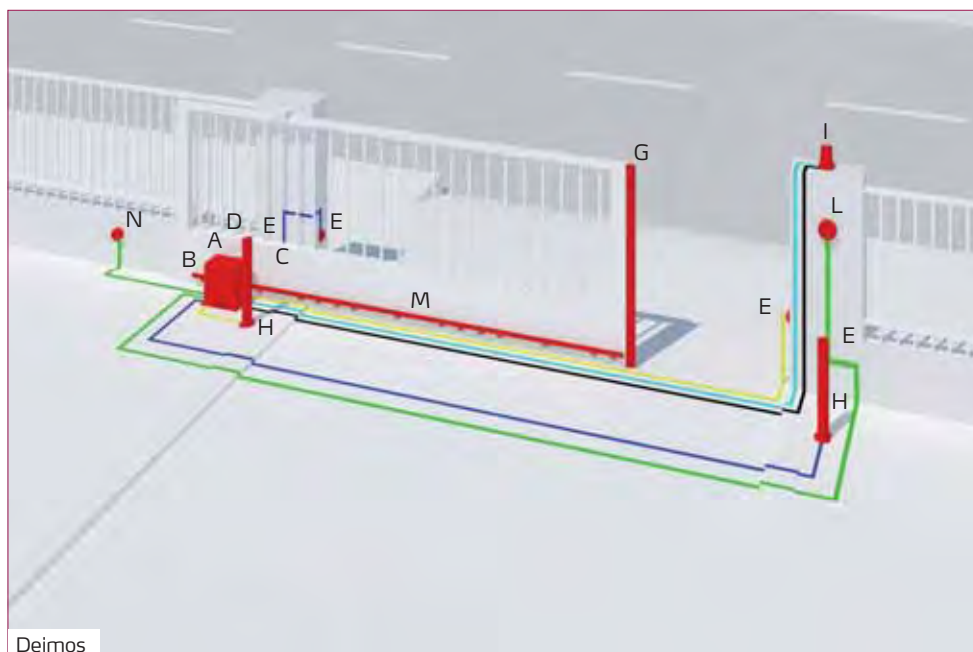
# Sliding gate automation systems

BFT automation systems for sliding 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		Operator	pag.
slide gate	300kg	24V	Intensive	-	KIT A-300 SL	26
	500kg	24V	Intensive	-	DEIMOS BT	28
	1000kg	24V	Intensive	-	ARES 1000	30
	1500kg		Intensive	-	ARES 1000 PROX	30
			Intensive	-	ARES 1500	30
			Intensive	-	ARES 1500 PROX	30
	2000kg	230V	Very-intensive	-	ICARO MA	32
	Very-intensive		-	ICARO MA PROX	32	
	3500kg	400V	Very-intensive	-	SP3500 TRI 400V	34
	4000kg	400V	Very-intensive	-	SP4000 TRI 400V	34

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
— (light blue)	2x1.5
— (green)	3x1.5
— (black)	RG 58
— (blue)	5x1
— (yellow)	2x1
— (purple)	9x0.5





# Sliding gate automation systems associations

	QSC D MA	NETTUNO S	HQSC-D	LEO D MA	SIRIO TEL
DEIMOS BT	Built-In				
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

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

	QSC D MA	NETTUNO S	HQSC-D	LEO D MA	SIRIO TEL
<b>MOTORS POWER SUPPLY</b>					
Motor 1 TRIF output					▪
Motor 1 230V output				▪	
Motor 2 230V output					
Motor 1 24V output	▪	▪	▪		
Motor 2 24V output					
<b>LIMIT SWITCH INPUTS</b>					
Single for Opening	▪	▪	▪		▪
Single for Closing	▪	▪	▪		▪
Separate Inputs for Opening					
Separate Inputs for Closing					
Encoder					
<b>CONTROLS INPUTS</b>					
Start	E1	E1	▪	▪	▪
Pedestrian Start	▪	E1	▪	▪	
Internal Start					
Open		E2	▪	▪	▪
Close	E1	E2	▪	▪	
Timer				▪	
Pedestrian Timer					
<b>EMERGENCY STOP</b>					
Stop	▪	E2	▪	▪	▪
<b>SAFETY SYSTEMS INPUTS</b>					
Photocells	▪			▪	E1
Photocells for Opening		▪	▪	▪	
Photocells for Closing		▪			
Photocells Inputs Check	▪		▪	▪	
Safety Edge	▪	Opt.	▪	▪	E1
8K2 Safety Edge					
Safety Edges Inputs Check	▪			▪	
<b>AUXILIARY INPUTS/OUTPUTS</b>					
Blinker	▪	▪	▪	▪	▪
Courtesy Light					
Zone Light					
Stairs Light					
Solenoid Lock					
Electromagnet					
Gate Open Warning Light	E2	▪	E1	E1	▪
Second Radio Channel	E2	▪	E1	▪	▪
Alarm				E1	
<b>MOTORS CONTROLS</b>					
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		▪			
<b>FUNCTIONS</b>					
Automatic Re-closing Control (TCA)	▪	▪	▪	▪	▪
Open Pulse Blocking	▪	▪	▪	▪	▪
TCA Pulse Blocking			▪		▪
Close Pulse Blocking					
Photocell Trigger Setting	▪		▪	▪	▪
Fast Close		▪		▪	
Pre-Alarm	▪	▪	▪	▪	▪
2 Steps					E2
3 Steps	E3	E	E2	E2	
4 Steps	E3	E	E2	E2	E2
Deadman Feature	▪	Opt.	▪	▪	▪
Closing Stop Pressure	▪	▪	▪		
Water Hammer					
Traffic-Light Management					
<b>MISCELLANEOUS</b>					
Accessories power supply 24V	180mA	500 mA	180mA	1 A	1 A
Antenna	▪	▪	▪	▪	▪
Built-in Receiver	▪	▪	▪		
Learning via Radio Commands	▪	▪	▪	▪	
EE-Link	▪	▪	▪	▪	
ER-Ready	▪		▪		
Self-Diagnosis	▪	▪	▪	▪	
Statistics Management	▪	PRO	PRO	PRO	
Central Commands Management	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

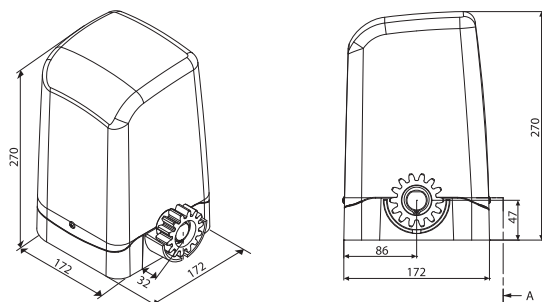
Fast and extra easy programming, by simply pressing a button the operator automatically adjusts the: force, stopping positions and slowing down positions



## 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

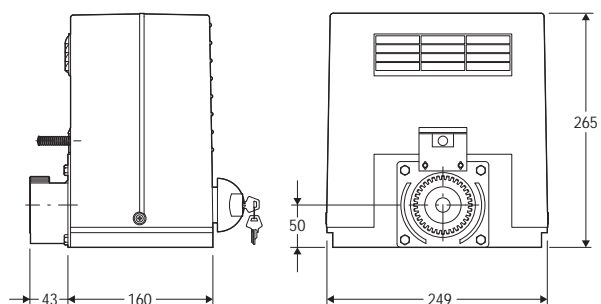


Backup battery power supply system, installable on-board unit (24V versions).

Summary table

Code	Name	Kits	Voltage	Leaf max weight	Legend
P925178 00005	DEIMOS BT		24V	500kg	A
R925236 00002	KIT DEIMOS BT FAST NET EASY BUS	■	24V	500kg	A

## Dimensions



	DEIMOS BT	DEIMOS BT NET
Control unit	QSC-D MA	NETTUNO S
Power supply	24V	24V
Power input	70W	70W
Gate speed	12m/min	12m/min
Type of limit switch	Electromechanical	Electromechanical
Pinion module	4 (Z14)	4 (Z14)
Pinion rotation speed	79rpm	79rpm
Slowdown	Yes	Yes
Locking	Mechanical	Mechanical
Release	Knob with triangular key	Knob with triangular key
Frequency of use	Intensive	Intensive
Environmental conditions		
Actuator weight	7kg	7kg

## Description

24V sliding 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.



((€R-Ready)) **D-TRACK**



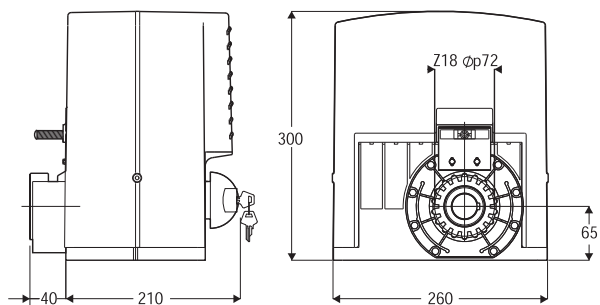
Monoblock gear motor structure guaranteeing maximum resistance and performance in any installation conditions

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

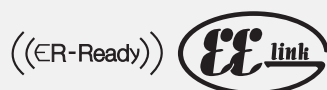
	Code	Name	Kits	Voltage	Leaf max weight	Legend
	P926183 00002	ARES 1000		24V	1000kg	A
	P926183 00004	ARES 1000 PROX		24V	1000kg	A
	P926182 00002	ARES 1500		24V	1500kg	A
	P926182 00004	ARES 1500 PROX		24V	1500kg	A



	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 sliding 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.

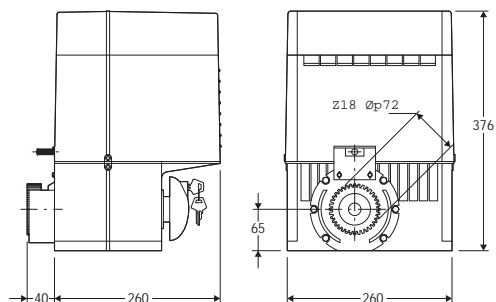
Control unit with programming display and D-Track torque, speed and position management and control system in 24V versions. Incorporated dual channel radio receiver



## 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

## 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

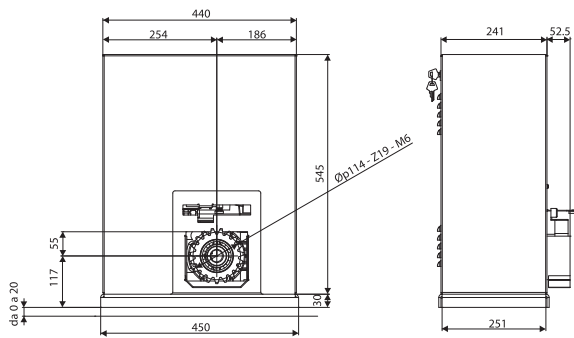


Summary table

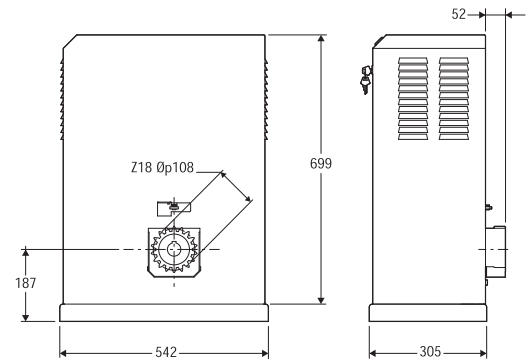
Code	Name	Kits	Voltage	Leaf max weight	Legend
P925207 00001	SP3500 TRI 400V		400V	3500kg	A
P925169 00001	SP4000 TRI 400V		400V	4000kg	A

New

## Dimensions



SP3500



SP4000

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



## A-300 SL



### A-CELLULA FLX P111464

Pair of flashing photocells for ALISEO series operators



### 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

## DEIMOS



### SB BAT P125002

Set of backup batteries for DEIMOS BT



### SFD N999151

Base plate for DEIMOS series (supplied with operator)

## ARES



### BT BAT2 P125009

Set of backup batteries for ARES



### SFI N999156

Base plate for ARES and ICARO (supplied with motor)

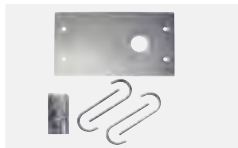
## ICARO



### SFI N999156

Base plate for ARES and ICARO (supplied with motor)

## SP3500 / SP4000



### SFSP P125015

New

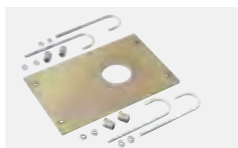
adjustable base plate for SP3500



### SAFETY MICROSWITCH P125016

New














Safety microswitch for SP3500
















### BASP P125001

Base plate for SP4000 (supplied with operator)



	<p><b>CP D221073</b></p> <p>Plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots</p>		<p><b>CVZ D571053</b></p> <p>Steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw-fitted on supports (supplied)</p>
	<p><b>CVZ-S N999320</b></p> <p>Steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports (supplied)</p>		<p><b>CFZ D571054</b></p> <p>Galvanized steel rack for welding, 22x22 mm, 4-module, cross-section from 2 m</p>
	<p><b>CFZ6 D571491</b></p> <p>Galvanized steel rack for welding, 30x30' mm, 6-module, cross-section from 2 m</p>		
	<p><b>SCS 1 P111376</b></p> <p>Serial board for connection to zone and opposing leaves for control units with display Available while stock lasts</p>		<p><b>SCS WIE P111408</b></p> <p>Board for connection to SELETTO (E) keypad and COMPASS SLIM proximity reader Available while stock lasts</p>
	<p><b>SCS 1 MA P111377</b></p> <p>Board for connection to more than two checked photocell copies for DEIMOS BT and URANO Available while stock lasts</p>		<p><b>B EBA 201 R04 P111469</b></p> <p>Expansion board for Blue-Tooth connection</p>
	<p><b>B EBA 201 R01 P111468</b></p> <p>Expansion board for serial control central groups connection</p>		<p><b>B EBA 201 R03 P111467</b></p> <p>Expansion board for WIEGAND devices connection</p>
	<p><b>CM1000 P111050</b> Mechanical edge, length 1 m</p> <p><b>CM1500 P111051</b> Mechanical edge, length 1.5 m</p> <p><b>CM1700 P111052</b> Mechanical edge, length 1.7 m</p> <p><b>CM2000 P111053</b> Mechanical edge, length 2 m</p> <p><b>CM3000 P111054</b> Mechanical edge, length 3 m</p> <p><b>CM4000 P111055</b> Mechanical edge, length 4 m</p> <p><b>CM5000 P111056</b> Mechanical edge, length 5 m</p>		
	<p><b>CSP 10 N190039</b> Rubber shock absorber profile length 1000 mm</p> <p><b>CSP 20 N190040</b> Rubber shock absorber profile length 2000 mm</p> <p><b>CSP 25 N190041</b> Rubber shock absorber profile length 2500 mm</p>		



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



	<p><b>CELLULA 130 P111273</b></p> <p>Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc</p>		<p><b>FL130B P111043 0001</b></p> <p>Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc</p>
	<p><b>CELLULA 180 P111452</b></p> <p>Pair of orientable photocells (180°horiz./20°vert.) For external application (range 25m - reduced in fog/rain). Power supply 24V ac/dc</p>		<p><b>CELLULA 50 P111272</b></p> <p>Pair of flush adjustable photocells (range 25m - reduced in fog/rain) Power supply 24V ac</p>
	<p><b>S RFLP P111409</b></p> <p>Reflector and support for wall mounting and mounting on CC post for CELLULA RFL</p>		<p><b>CELLULA RFL P111391</b></p> <p>Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)</p>
	<p><b>FAST WIRE N999389 00001</b></p> <p>Connection cable for FAST NET system. Coil of 100 m</p>		
	<p><b>LEONARDO KIT P111386</b></p> <p>BFT USB impact measurer</p>		<p><b>LEONARDO KIT BLUETOOTH P111387</b></p> <p>BFT Bluetooth impact measurer</p>



# Automation systems for swing gates



# 42 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	Operator	pag.
1.8m	180kg	112°	230V	Semi-intensive	ORO	46
		113°	24V	Intensive	LUX BT 2B	48
	300kg	123°	230V	Semi-intensive	LUX	50
				Semi-intensive	LUX 2B	50
				Semi-intensive	LUX FC 2B	50
				Semi-intensive	LUX R 2B	50
	300kg	123°	230V	Semi-intensive	LUX GVS	50
				Semi-intensive	LUX GV-2B	50
	300kg	123°	230V	Semi-intensive	LUX GV-R	50
	500kg	123°	230V	Intensive	P4,5	52
5m	800kg	113°	24V	Intensive	LUX G BT 2B(*)	50
7m	500kg	123°	230V	Intensive	P7	52

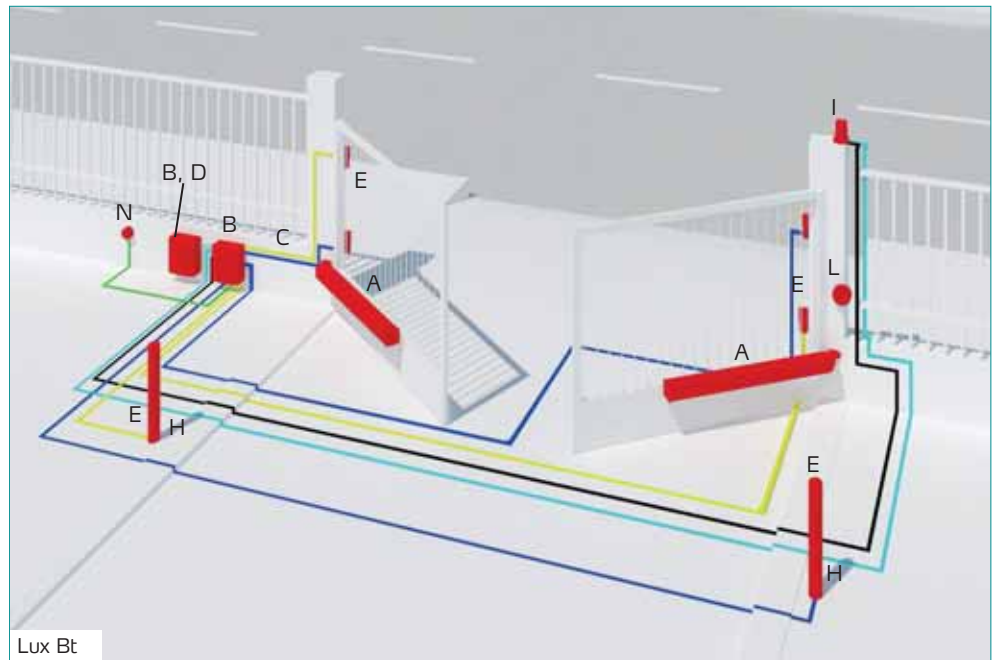
\*Although the LUX G BT 2B supports a maximum leaf length of 5m and maximum gate weight of 800kgs, please be aware that at 800kg, the maximum leaf length is 2m. On a 5m gate leaf, the maximum gate weight is 300kgs.

underground  
hydraulic  
swing gates

Leaf max lenght	Leaf max weight	Maximum angle	Voltage	Frequency of use	Operator (Handed)	pag.	
1.8m	800kg	130°	230V	Very intensive	SUB R DX	54	
				Very intensive	SUB R SX	54	
				Very intensive	SUB DX	54	
				Very intensive	SUB SX	54	
		180°	230V	Very intensive	SUB G DX	54	
				Very intensive	SUB G SX	54	
				Very intensive	SUB GR DX	54	
				Very intensive	SUB GR SX	54	
	2.5m	800kg	130°	230V	Very intensive	SUB E DX	54
					Very intensive	SUB E SX	54
				24V	Very intensive	SUB ER DX	54
					Very intensive	SUB ER SX	54
			180°	230V	Very intensive	SUB BT (*)	54
					Very intensive	SUB EG DX	54
					Very intensive	SUB EG SX	54
					Very intensive	SUB EGR DX	54
3.5m	800kg	130°	230V	Very intensive	SUB EGR SX	54	
				Very intensive	SUB EL DX	54	
				Very intensive	SUB EL SX	54	

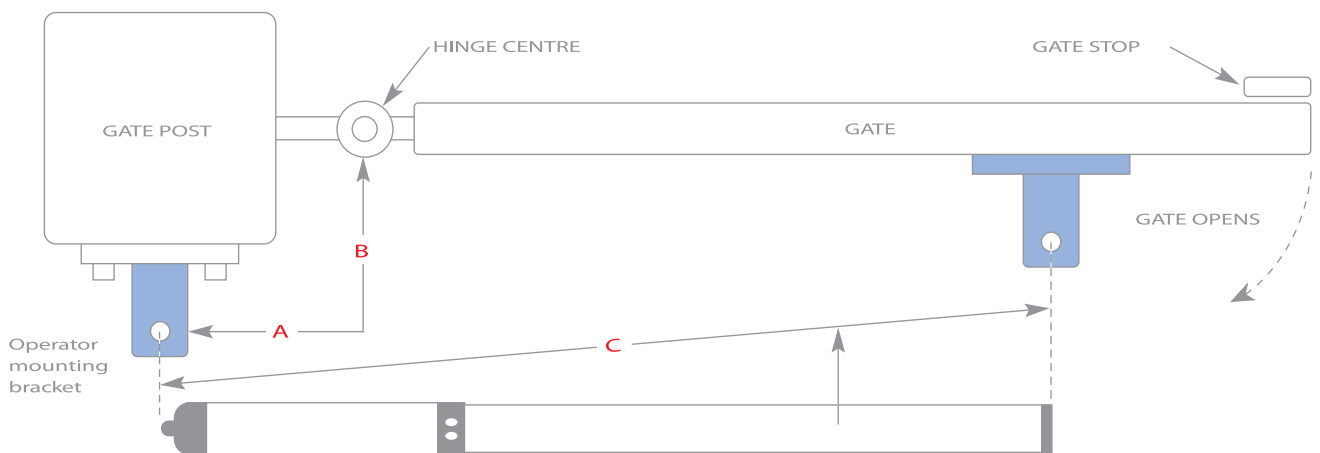
\* The SUB BT 24v Hydraulic Underground motor is locking in both the open and closed position up to 2m per leaf. It can also automate a gate leaf up to 2.5m but requires some form of electric lock. The SUB BT motors are not handed.

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

## Geometry



MODEL	A	B	C
ORO	120	120	890
LUX BT 2B	135	135	1050
LUX 2B	135	135	985
LUX FC 2B	140	140	1130
LUX R 2B	125	125	1050
LUX GVS	195	195	1240
LUX GV-2B	195	195	1240
LUX GV-R	195	195	1240
LUX G BT 2B	195	195	1295
P4.5/P7	195	195	1335

Mounting dimensions shown give the optimum position for an even speed over 90 degrees. 9Long stroke rams can be used for opening in excess of 90 degrees)

Dimension C is measured between the gate and gate post mounting pins with the gate firmly closed against the stop. (This is a maximum)

**It is important that all dimensions; A, B & C are accurately achieved.**



## Swing gates automation systems associations

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

	RIGEL 5 SD	LINX	LIBRA C MA	LIBRA C LX	THALIA L	A-CT BOARD SW	THALIA P
<b>MOTORS POWER SUPPLY</b>							
Motor 1 230V output	■						
Motor 2 230V output	■						
Motor 1 24V output		■	■	■	■	■	■
Motor 2 24V output		■	■	■	■	■	■
<b>LIMIT SWITCH INPUTS</b>							
Single for Opening							
Single for Closing							
Separate Inputs for Opening	■	■	■		■		■
Separate Inputs for Closing	■	■	■		■		■
Encoder				■	■	■	■
<b>CONTROLS INPUTS</b>							
Start	■	■	E1	■	■	■	■
Pedestrian Start	■	■	■	■	■		■
Internal Start	■				■		■
Open	■		E1	■	■	■	■
Close	■			■	■		■
Timer	E1				■		■
Pedestrian Timer	E1						■
<b>EMERGENCY STOP</b>							
Stop	■	■	■	■	■	■	■
<b>SAFETY SYSTEMS INPUTS</b>							
Photocells	■	■	■	■	■	■	■
Photocells for Opening	E1				■		■
Photocells for Closing	■				■	■	■
Photocells Inputs Check	■	■	■	■	■	■	■
Safety Edge	E1			■	■		■
8K2 Safety Edge					■		■
Safety Edges Inputs Check	■			■	■		■
<b>AUXILIARY INPUTS/OUTPUTS</b>							
Blinker	■	■	■	■	■	■	■
Courtesy Light	E4				■		■
Zone Light	E4				■		■
Stairs Light	E5				■		■
Solenoid Lock	E6	Opt.	Opt.	Opt.	■		■
Electromagnet	E6				■		■
Gate Open Warning Light	E7	E1	E2	E1	■		■
Second Radio Channel	E7	E1	E2	E1	■		■
Alarm	E5						■
<b>MISCELLANEOUS</b>							
Accessories power supply 24V	1 A	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	■	■	■	■	■	■	■
Statistics Management	■	■	■	■	■		■
Central Commands Management	■		■	■	■		■
Conformity to EN 12453-EN12445	■	■	■	■	■	■	■
<b>MOTORS CONTROLS</b>							
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		■	■	■	■	■	■
<b>FUNCTIONS</b>							
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 1.8 metres wide and weighing up to 180 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.

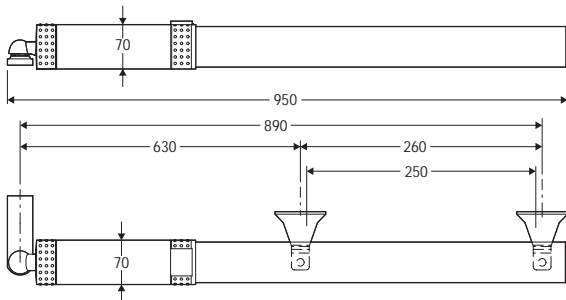
All-aluminium structure with high-resistance anodising treatment.



### Summary table

Code	Name	Kits	Voltage	Leaf max weight	Gate leaf length	Legend
P935059 00001	ORO		230V	180kg	1.8m	A

## Dimensions



## Technical features

	ORO
Control unit	RIGEL 5
Power supply	230V
Power input	240W
Useful rod stroke	250mm
Maximum opening angle	112°
Operation time through 90°	18sec.
Slowdown	No
Impact reaction	Hydraulic clutch
Locking	In Close Position only
Release	Triangle key
Frequency of use	Semi-intensive
Environmental conditions	from -10°C to 60°C
Actuator weight	5.3kg

## 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



### 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



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.

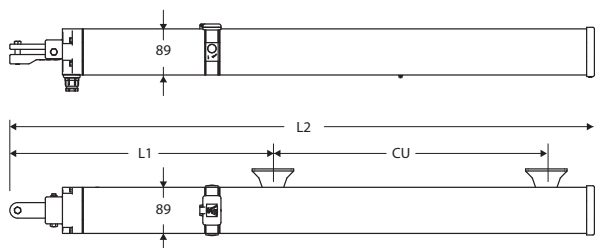
Control unit with display and new, simplified scenario-based programming.



### Summary table

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

## Dimensions



	L1	CU	L2
<b>LUX BT 2B</b>	715 mm	270 mm	1116 mm
<b>LUX G BT 2B</b>	932 mm	392 mm	1381 mm

## Technical features

	LUX BT 2B	LUX G BT 2B
Control unit	THALIA P	
Power supply	24V	24V
Power input	300W	300W
Useful rod stroke	270mm	392mm
Maximum opening angle	113°	130°
Operation time through 90°	14sec.	20sec.
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

## THALIA P

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



#### 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 8K2.
- Compatibility: LIBRA C MA, LIBRA C LX



## 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.

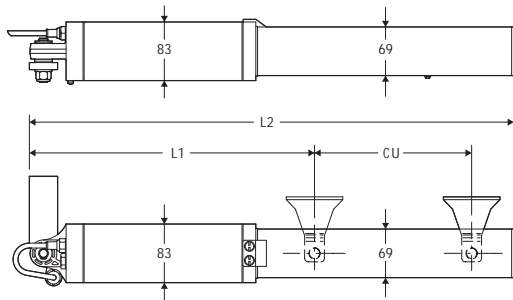
All-aluminium structure with high-resistance anodising treatment.



## Summary table

Code	Name	Kits	Voltage	Leaf max weight	Gate leaf length	Legend
P935009 00001	LUX		230V	300kg	2m	A
P935011 00001	LUX 2B		230V	300kg	2m	A
P935039 00001	LUX FC 2B		230V	300kg	2m	A
P935014 00001	LUX GVS		230V	300kg	3.5m	A
P935014 00005	LUX GV-2B		230V	300kg	3.5m	A
P935050 00001	LUX GV-R		230V	300kg	3.5m	A
P935046 00001	LUX R2B		230V	300kg	2m	A

## Dimensions



	L1	CU	L2
<b>LUX</b>	715 mm	270 mm	1025 mm
<b>LUX 2B</b>	715 mm	270 mm	1025 mm
<b>LUX FC 2B</b>	850 mm	390 mm	1300 mm
<b>LUX G</b>	850 mm	390 mm	1300 mm
<b>LUX R 2B</b>	710 mm	250 mm	1050 mm

## Technical features

	LUX	LUX 2B	LUX FC 2B	LUX GVS	LUX R 2B
Control unit	RIGEL5				
Power supply	230V	230V	230V	230V	230V
Power input	250W	250W	250W	250W	250W
Useful rod stroke	270mm	270mm	280mm	390mm	250mm
Maximum opening angle	123°	123°	123°	130°	123°
Operation time through 90°	17sec.	17sec.	17sec.	28sec.	15sec.
Slowdown	No	No	No	No	Yes
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	Solenoid Lock	Open/close hydraulics	Open/close hydraulics	Solenoid Lock	Open/close hydraulics
Release	Reversible	Triangle key	Triangle key	Triangle key	Triangle key
Frequency of use	Very intensive	Very intensive	Very intensive	Very intensive	Very intensive
Environmental conditions	from -10°C to 60°C				
Actuator weight	8.7kg	8.7kg	8.7kg	13.2kg	8.7kg

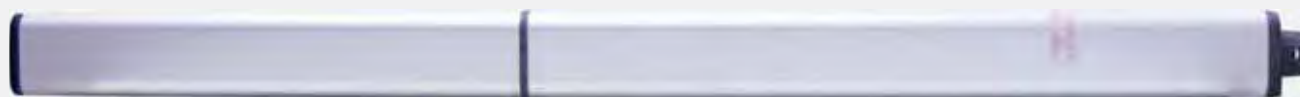
## RIGEL 5

### 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



## 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.

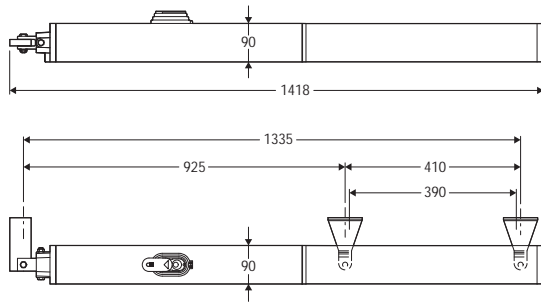
The closing slowdown guarantees silent, smooth movements on even the biggest gates. Also, the adjustment screw makes it possible to adapt the slowdown intensity to needs of each situation.



## Summary table

Code	Name	Voltage	Leaf max weight	Gate leaf length	Legend	Kits
P935061 00001	P4.5	230V	500kg	4.5m	A	
P935060 00001	P7	230V	500kg	7m	A	

## Dimensions



## Technical features

	P4.5	P7
Control unit	RIGEL5	
Manual cycle	Reversible	Reversible
Power supply	230V	230V
Power input	250W	250W
Useful rod stroke	390mm	390mm
Maximum opening angle	123°	123°
Operation time through 90°	30sec.	45sec.
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



#### 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

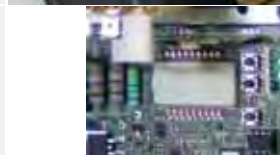
Complete range of low voltage underground hydraulic operators for very intensive use, suitable for any type of residential, industrial or multi-residence application. Compact and sturdy, capable of automating swing gate leaves up to 3.5 metres wide and weighing up to 800 kg.

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.

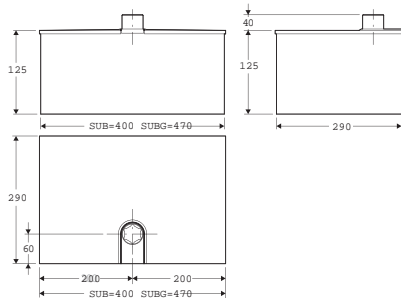
Control unit with programming display and new, simplified scenario-based programming



## Summary table

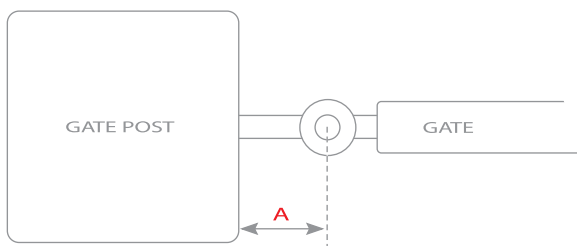
Code	Name	Kits	Voltage	Leaf max weight	Gate leaf length	Legend
P930026 00001	SUB DX		230V	800kg	2m	A
P930026 00002	SUB SX		230V	800kg	2m	A
P930012 00005	SUB R DX		230V	800kg	2m	A
P930012 00006	SUB R SX		230V	800kg	2m	A
P930009 00004	SUB E DX		230V	800kg	2.5m	A
P930009 00005	SUB E SX		230V	800kg	2.5m	A
P930013 00007	SUB ER DX		230V	800kg	2.5m	A
P930013 00008	SUB ER SX		230V	800kg	2.5m	A
P930014 00005	SUB EL DX		230V	800kg	3.5m	A
P930014 00006	SUB EL SX		230V	800kg	3.5m	A
P930010 00005	SUB G DX		230V	800kg	2m	A
P930010 00006	SUB G SX		230V	800kg	2m	A
P930022 00001	SUB GR DX		230V	800kg	2m	A
P930022 00002	SUB GR SX		230V	800kg	2m	A
P930011 00005	SUB EG DX		230V	800kg	2.5m	A
P930011 00006	SUB EG SX		230V	800kg	2.5m	A
P930025 00001	SUB EGR DX		230V	800kg	2.5m	A
P930025 00003	SUB EGR SX		230V	800kg	2.5m	A

## Dimensions



## Technical features

	SUB	SUB R	SUB ER	SUB EL	SUB G
Control unit	RIGEL5				
Power supply	230V	230V	230V	230V	230V
Power input	250W	250W	250W	250W	250W
Maximum opening angle	130°	130°	130°	130°	180°
Operation time through 90°	17sec.	10sec.	10sec.	23sec.	17sec.
Slowdown	No	Yes	Yes	No	No
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Locking	Open/close hydraulics	Open/close hydraulics	Solenoid Lock	Solenoid Lock	Open/close hydraulics
Release	Triangle key	Triangle key	Reversible	Reversible	Triangle key
Frequency of 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 -10°C to 60°C
Actuator weight	22kg	22kg	22kg	22kg	24kg



**A = Measurement from hinge centre to face of gate post**

SUB MOTOR A = 65 Minimum

If not achievable use BSC off axis arms - Call for details

## 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



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

((€R-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

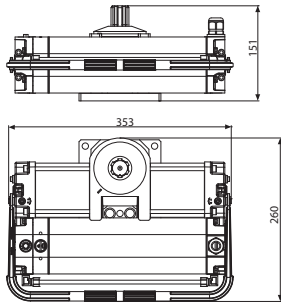
Control unit with programming display and new, simplified scenario-based programming



Summary table

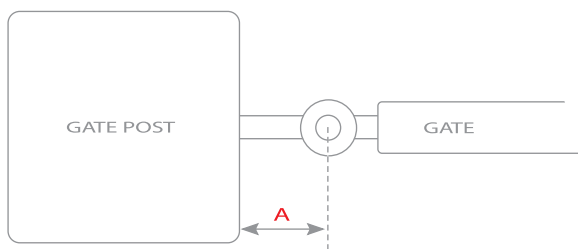
Code	Name	Kits	Voltage	Leaf max weight	Gate leaf length	Legend
P930123 00001	SUB BT		24V	800kg	2.5m	A

## Dimensions



## Technical features

	SUB BT
Control unit	THALIA P
Power supply	24V
Power input	300W
Maximum opening angle	120°
Operation time through 90°	10sec.
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



**A = Measurement from hinge centre to face of gate post**

SUB BT MOTOR      A = 65 Minimum

## THALIA P

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



#### 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 8K2.
- Compatibility: LIBRA C MA, LIBRA C LX










# Automation systems for swing gates electromechanical

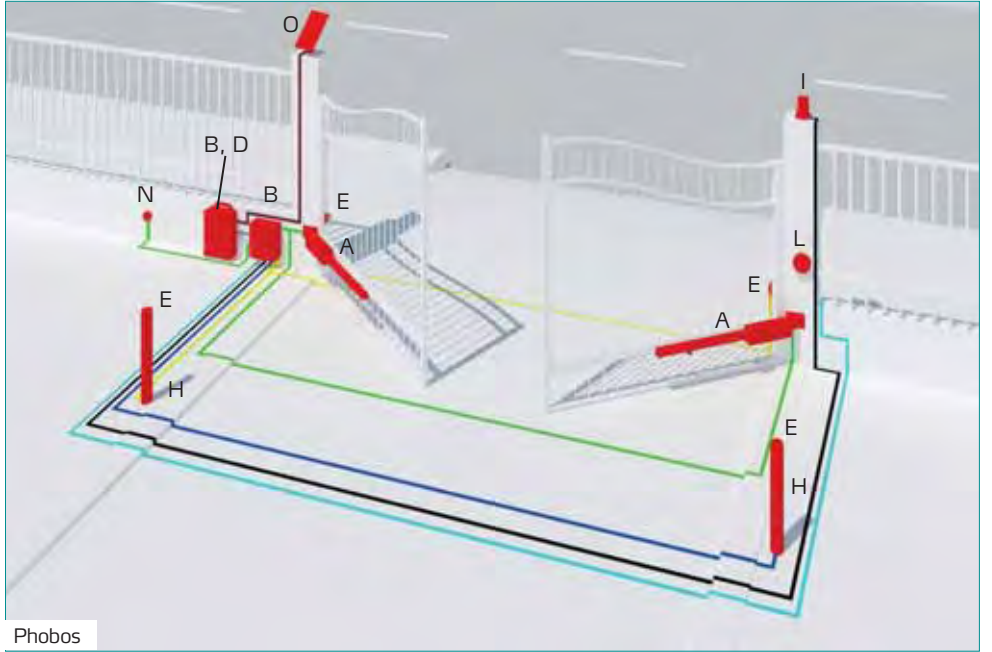
BFT automation systems for swing gates are easy to install and ensure maximum safety and comfort in use.

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	Operator	pag.
electromechanical swing gates	1.8m	150kg	110°	24V	Intensive	A-180 SW	60
					Intensive	HIDE SW	68
		200kg	180°	230V	Semi-intensive	E5	70
		250kg	118°	230V	Semi-intensive	PHOBOS N	62
	2m	200kg	120°	24V	Intensive	PHOBOS N BT	62
					Intensive	PHOBOS N BT FAST NET	84
					Intensive	VIRGO FAST NET KIT	64
					Intensive	VIRGO KIT	64
	2.5m	250kg	125°	230V	Semi-intensive	IGEA	66
				24V	Intensive	IGEA BT	66
					Intensive	IGEA BT NET KIT	66
			128°	230V	Semi-intensive	PHOBOS N L	62
underground electromechanical swing gates	3.5m	400kg	120°	24V	Intensive	PHOBOS N L BT	62
					Intensive	PHOBOS N L BT FAST NET	62
underground electromechanical swing gates	2m	150kg	120°	230V	Semi-intensive	ELI 250 V	72
	3.5m	300kg	120°	230V	Semi-intensive	ELI 250	72
		400kg		24V	Semi-intensive	ELI 250 BT	72

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**

((€R-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

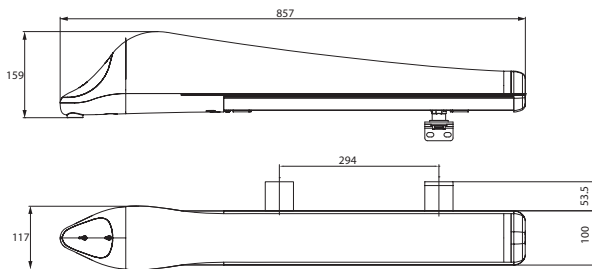
Adjustable built-in mechanical stops and adjustable brackets for the fastest operator positioning



### Summary table

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

## Dimensions



## Technical features

	A-180 SW
Control unit	A-CTBOARD SW
Power supply	24V
Power input	40W
Useful rod stroke	294mm
Maximum opening angle	110°
Operation time through 90°	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

((ER-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	Gate leaf length	Legend
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 •
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 •



• New

Accessories



of product 74



of family 77



generic 176





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.

24V ((ER-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.



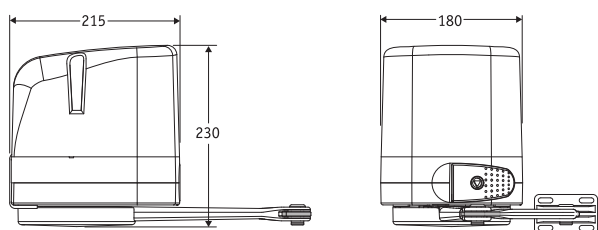
Summary table

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



• New

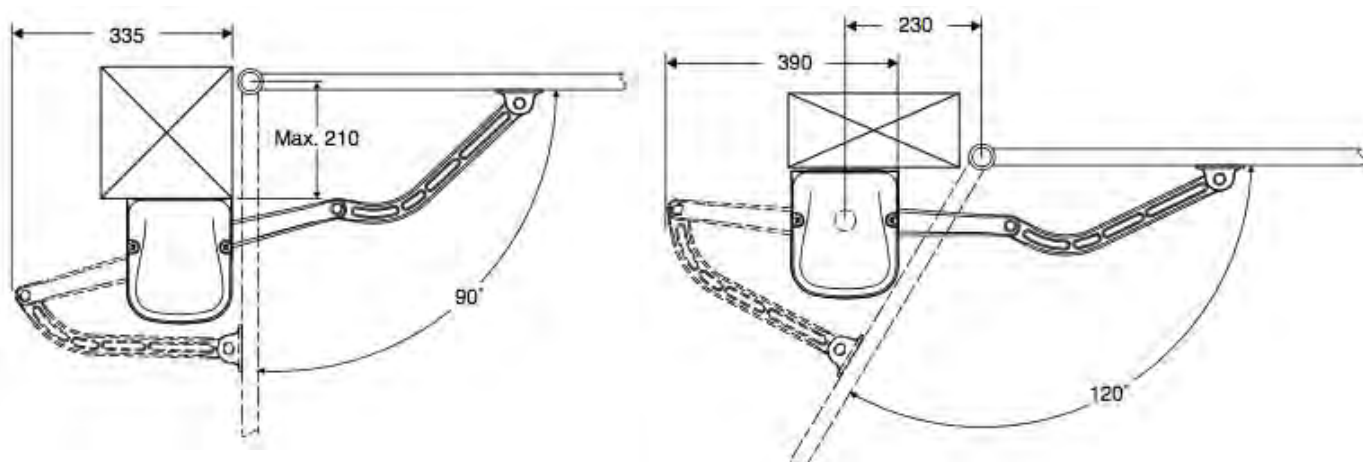
## Dimensions



## Technical features

	VIRGO
Control unit	LINX
Power supply	24V
Power input	110W
Maximum opening angle	120°
Operation time through 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

## Geometry





24V ((ER-Ready))



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°.

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.



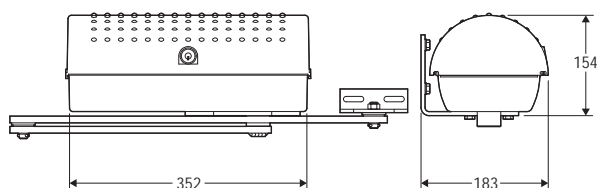
Summary table

Code	Name	Kits	Voltage	Leaf max weight	Gate leaf 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



• New

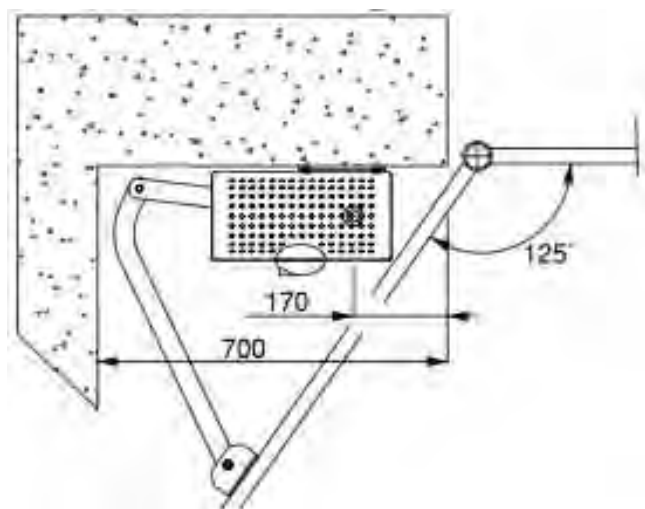
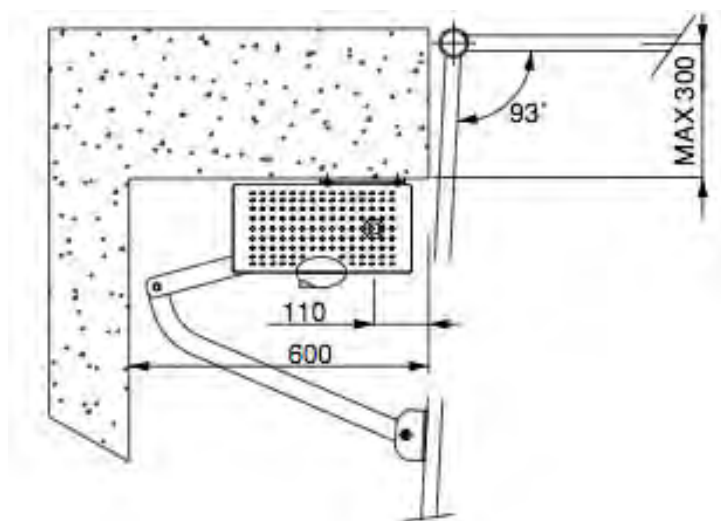
## Dimensions



## Technical features

	IGEA	IGEA BT
Control unit	RIGEL5	THALIA L
Power supply	230V	24V
Power input	300W	40W
Maximum opening angle	125°	125°
Operation time through 90°	15sec.	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

## Geometry





### Description

Residential 24V operator for gates of up to 150 kg in weight, able to integrate completely within the pillars 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**

((€R-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 3m<sup>2</sup> at up to 120 km/h (class 2, EN13241).

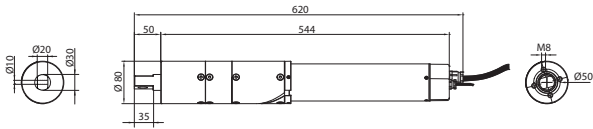
The Libra CB HIDE control unit is able to optimize the operator functions, allowing separate management of the motors in the times for working, torque control and slowing down, calibrating to the actual needs thanks to the built-in “D-Track” function.



### 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 opening angle	110°
Operation time through 90°	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.

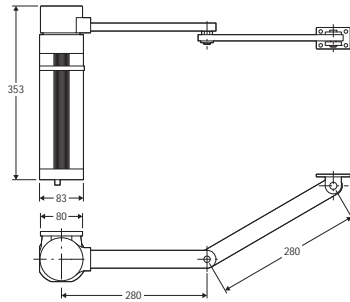
Aluminium structure with high-strength anodising treatment.



Summary table

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

## Dimensions



## Technical features

	E5
Control unit	RIGEL 5
Power supply	230V
Power input	200W
Maximum opening angle	130/(180 with BSE5)°
Operation time through 90°	18sec.
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



#### 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**

((€R-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.

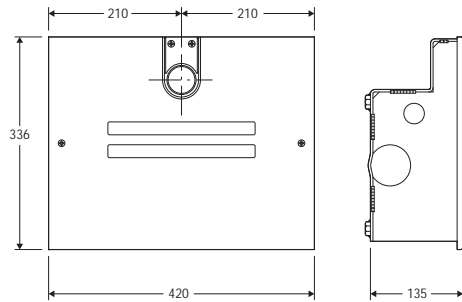


### Summary table

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



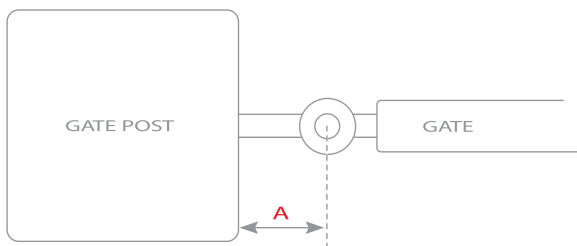
## Dimensions



## Technical features

	ELI 250	ELI 250 V	ELI 250 BT
Control unit	RIGEL 5	RIGEL 5	THALIA L
Power supply	230V	230V	24V
Power input	280W	280W	175W
Maximum opening angle	120°/180°*	120°	120°
Operation time through 90°	21sec.	12sec.	13sec.
Slowdown	Yes	Yes	Yes
Impact reaction	Electric clutch	Electric clutch	D-Track
Locking	Mechanical	Mechanical	Mechanical
Release	Triangle key or lever	Triangle key or lever	Triangle key or lever
Frequency of use	Semi-intensive	Semi-Intensive	intensive
Environmental conditions	from -20°C to 50°C		
Actuator weight	10kg	10kg	10kg

\*To achieve 180° please order the 180° conversion kit (ELI-250-E180)



**A = Measurement from hinge centre to face of gate post**

ALL ELI 250 MOTORS

A = 70 Minimum



## 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



### 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



### CPS G N733092

Foundation box designed for fitting the SUB G operator



### 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



### 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



### **SCC N733392**

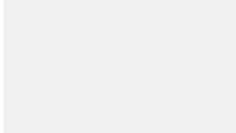
Release for ELI 250N and SUB BT with lever key.

## 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

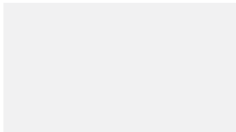
## VIRGO



### **VIRGO BAT P125008**

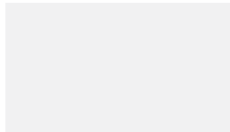
Set of backup batteries for VIRGO

## HIDE SW



### **HIDE HINGE INF N999524**

Bottom fixed hinge for the installation of HIDE SW series operator



### **HIDE ING 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

## ELI 250



### SCC N733392

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



### SCT N733189

Release for ELI 250 with triangle key.



### E180 N733304

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



### BTCE 120 E INOX N733398

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



### BTCE 120 E N733397

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





## LIBRA C MA D113672 00005

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



## LIBRA C LX QSG2 D113715 00002

Control panel for one or two LUX BT series operators



## ALCOR N D113706 00002

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



## THALIA L D113745 00002

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



## RIGEL 5 D113693 00003

Universal control panel for one or two 230V operators



## THALIA P 230V D113747 00002

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



## BT BAT P125005

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



## VIRGO BAT P125008

Set of backup batteries for VIRGO



## SCS WIE P111408

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



## SCS 1 P111376

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



## SSR5 D111704

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



## TLB D113727

Traffic-light management board for LIBRA C LX



## ME D111013

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



## ME BT D111761

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



## SPL D113050

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



## B EBA 201 R01 P111468

Expansion board for serial control central groups connection



## B EBA 201 R03 P111467

Expansion board for WIEGAND devices connection













## B EBA 201 R04 P111469

Expansion board for Blue-Tooth connection



	<b>B LTA 230 R1 D113748 00002</b> Blinker with built-in antenna for 230V motors		<b>B LTA 230 R2 D113749 00002</b> Blinker without antenna for 230V motors
	<b>B LTA 024 R1 D113748 00003</b> Blinker with built-in antenna for 24V motors		<b>B LTA 024 R2 D113749 00003</b> Blinker without antenna for 24V motors
	<b>B 00 R01 P123026</b> Metal guard for B LTA		<b>B 00 R02 P123025</b> Wall mounting for B LTA series blinker
	<b>CELLULA 50 P111272</b> Pair of flush adjustable photocells (range 25m - reduced in fog/rain) Power supply 24V ac		<b>CELLULA 130 P111273</b> Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc
	<b>CELLULA 180 P111452</b> Pair of orientable photocells (180°horiz./20°vert.) For external application (range 25m - reduced in fog/rain). Power supply 24V ac/dc		<b>CELLULA RFL P111391</b> Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)
	<b>FLI30B P111043 0001</b> Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc		<b>T-BOX P121019</b> Wireless digital keypad 433 MHz Rolling code
	<b>EBP P123001 00001</b> 230Vac electric drop lock		<b>EBP 24 P123001 00013</b> 24Vac solenoid lock, with 230/24V transformer installable in control panel
	<b>ECB DX D121016</b> Right-hand horizontal solenoid lock, 12-24V		<b>ECB SX D121017</b> Left-hand horizontal solenoid lock, 12-24V
	<b>ECB VERTICAL D121018</b> Vertical solenoid lock, 12-24V		<b>SEK P121017</b> External key selector switch with vandal-proof metal frame

	<b>CLS D610180</b> Triangular release key l=52mm		<b>CLS/82 D610256</b> Manual release key for 230v SUB operators in CPS Boxes
	<b>FAST WIRE N999389 00001</b> Connection cable for FAST NET system. Coil of 100 m		<b>ZZSUB59 D221144</b> Manual release key for 230V SUB operators in FCS Boxes
	<b>MITTO 2 12V D111750</b> 12V two-channel transmitter 433 MHz rolling code		<b>MITTO 4 12V D111751</b> 12V four-channel transmitter 433 MHz rolling code
	<b>MITTO 2 REPLAY D111841</b> 12V 2-channel transmitter, copyable with rolling code		<b>MITTO 4 REPLAY D111842</b> 12V 4-channel transmitter, copyable with rolling code
	<b>LEONARDO KIT P111386</b> BFT USB impact measurer		<b>LEONARDO KIT BLUETOOTH P111387</b> BFT Bluetooth impact measurer



# Garage doors












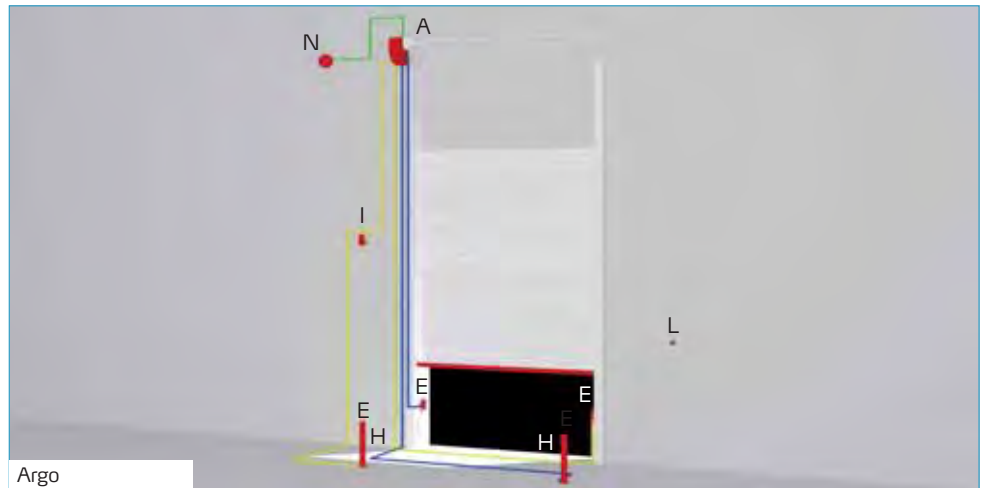
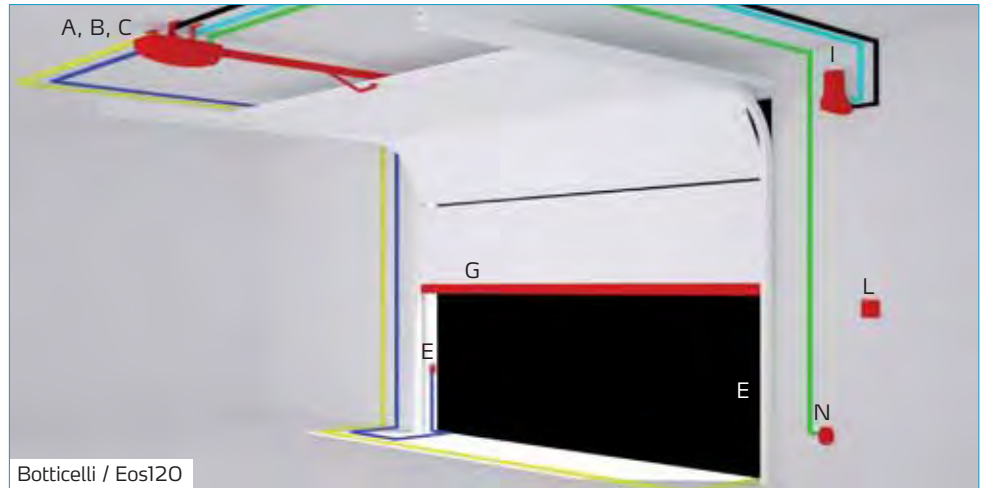


# Garage doors

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	Max tractive force	Voltage	Frequency of use	Kits	Operator	pag.
sectional garage doors		60kg	24V	Intensive	-	BOTTICELLI	86
				Intensive	-	BOTTICELLI VENERE D	86
	25m²	120kg	24V	Very-intensive	-	EOS 120	86
			24V	Very-intensive	-	ARGO	88
				Very-intensive	-	ARGO G	88

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

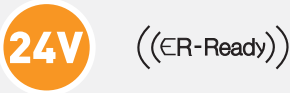
	VENERE	VENERE D	HYDRA N	VENERE D ARGO	RIGEL 5	ALPHA SD	ALCOR N
BOTTICELLI	Built-in						
BOTTICELLI VENERE D		Built-in					
EOS 120		Built-in					
ARGO				Built-in			

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



	VENERE	VENERE D	VENERE D ARGO
<b>MOTORS POWER SUPPLY</b>			
Motor 1 230V output			
Motor 2 230V output			
Motor 1 24V output	▪	▪	▪
Motor 2 24V output			
<b>LIMIT SWITCH INPUTS</b>			
Single for Opening			
Single for Closing			
Separate Inputs for Opening			
Separate Inputs for Closing			
Encoder	▪	▪	▪
<b>CONTROLS INPUTS</b>			
Start	▪	▪	E1
Pedestrian Start		▪	E2
Internal Start			
Open			E1
Close			E1
Timer			
Pedestrian Timer			
<b>EMERGENCY STOP</b>			
Stop	▪	▪	▪
<b>SAFETY SYSTEMS INPUTS</b>			
Photocells	▪	▪	▪
Photocells for Opening			
Photocells for Closing			
Photocells Inputs Check	▪	▪	Opt.
Safety Edge			▪
8K2 Safety Edge			
Safety Edges Inputs Check			Opt.
<b>AUXILIARY INPUTS/OUTPUTS</b>			
Blinker	▪	▪	▪
Courtesy Light	▪	▪	▪
Zone Light			
Stairs Light			
Solenoid Lock			
Electromagnet			
Gate Open Warning Light		E	E
Second Radio Channel		E	E
Intermediate opening limit switch			▪
Intermediate closing limit switch			Opt.
Alarm			
<b>MOTORS CONTROLS</b>			
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	▪	▪	▪
<b>FUNCTIONS</b>			
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			
Water Hammer			
Traffic-Light Management			
<b>MISCELLANEOUS</b>			
Accessories power supply 24V	180 mA	180 mA	180 mA
Antenna	▪	▪	▪
Built-in Receiver	▪	▪	▪
Learning via Radio Commands	▪	▪	▪
EE-Link		▪	▪
ER-Ready		▪	▪
Self-Diagnosis		▪	▪
Statistics Management		▪	▪
Central Commands Management		Opt.	
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.

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.

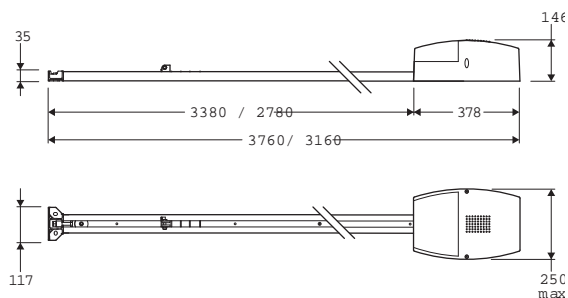
High-strength galvanised steel rail with ducts to facilitate the routing of the cables.



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

## 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

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.

24V

((€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.



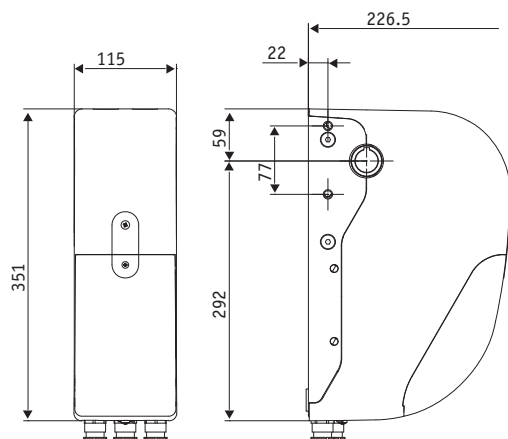
Control unit with on-board programming display and D-Track torque, speed and position management and control system. Incorporated dual channel radio receiver.



Summary table

Code	Name	Kits	Voltage	Door surface area	Max torque	Legend
P925202 00001	ARGO		24V	20m²	55Nm	A
P925206 00002	ARGO G		24V	35m²	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



## BOTTICELLI / EOS120



### PBE N733391

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



### BRCT P115002

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



### APT N999060

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



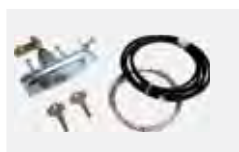
### TA BIN N999370

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



### 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



### CB EOS P125006

Set of backup batteries for VENERE D



### ECR001 (NON BFT PRODUCT)

Manual Release. If no personnel door into garage then this item is a necessity



### BIN120 CATENA 2900 P115010 00001

Chain rail for EOS 120, length 2900 mm, useful travel 2400 mm



### BIN120 CATENA 3500 P115010 00002

Chain rail for EOS 120, length 3500 mm, useful travel 3000 mm



### BIN120 CATENA 2900 P115009 00001

Chain rail for BOTTICELLI, length 2900 mm, useful travel 2400 mm



### BIN120 CATENA 3500 P115009 00002

Chain rail for BOTTICELLI, length 3500 mm, useful travel 3000 mm



### BIN120 CINGHIA 2900 P115009 00003

Belt rail for BOTTICELLI, length 2900 mm, useful travel 2400 mm



### BIN120 CINGHIA 3500 P115009 00004

Belt rail for BOTTICELLI, length 3500 mm, useful travel 3000 mm

## ARGO



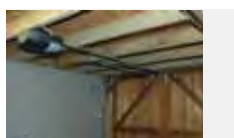
### RCA N733421

Lever release for ARGO with steel cable, length 3.5 m



### RCAL N733422

Lever release for ARGO with steel cable, length 7 m



### SWING (NON BFT PRODUCT)


Conversion kit for side hinged garage doors



### BT BAT P125005

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



	<b>SM1 P115005</b> External manual release for overhead garage door (1 operator)		<b>SM2 P115001</b> External manual release for overhead garage door (2 operators)
	<b>SEB N733020</b> External key release for BERMA, FORB, IGEA LB and IGEA LB BTi		<b>B LTA 230 R1 D113748 00002</b> Blinker with built-in antenna for 230V motors
	<b>B LTA 230 R2 D113749 00002</b> Blinker without antenna for 230V motors		<b>B LTA 024 R1 D113748 00003</b> Blinker with built-in antenna for 24V motors
	<b>B LTA 024 R2 D113749 00003</b> Blinker without antenna for 24V motors		<b>B 00 R01 P123026</b> Metal guard for B LTA
	<b>B 00 R02 P123025</b> Wall mounting for B LTA series blinker		
	<b>MITTO 2 12V D111750</b> 12V two-channel transmitter 433 MHz rolling code		<b>MITTO 4 12V D111751</b> 12V four-channel transmitter 433 MHz rolling code
	<b>MITTO 2 REPLAY D111841</b> 12V 2-channel transmitter, copyable with rolling code		<b>MITTO 4 REPLAY D111842</b> 12V 4-channel transmitter, copyable with rolling code
	<b>SEK P121017</b> External key selector switch with vandal-proof metal frame		<b>T-BOX P121019</b> Wireless digital keypad 433 MHz Rolling code
	<b>RB P121016</b> 4-channel wall-mounted radio control with rolling code		<b>CLONIX 2E D113674 00001</b> External dual channel 433 MHz rolling code receiver. 128-position memory
	<b>CLONIX 4 RTE D113718 00002</b> External 4-channel 433 MHz rolling code receiver. Power relay outputs (16A 230V)		



	<b>CELLULA 50 P111272</b> Pair of flush adjustable photocells (range 25m - reduced in fog/rain) Power supply 24V ac		<b>CELLULA 130 P111273</b> Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc
	<b>CELLULA 180 P111452</b> Pair of orientable photocells (180°horiz./20°vert.) For external application (range 25m - reduced in fog/rain). Power supply 24V ac/dc		<b>PRO 130 P111081</b> Anodised aluminium cover for CELLULA 130
	<b>PCELL-2208 (NON BFT PRODUCT)</b> IR/IT 2208 <u>Wireless</u> Photocells One side hard wired, the other battery operated		<b>CELLULA RFL P111391</b> Reflective photocell for external application (range 12 m) Power supply 24V ac/dc (requires S RFLP P111409)
	<b>FL130B P111043 0001</b> Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc		<b>CELLULA 180 COVER P111454</b> Anodised aluminium cover for CELLULA 180
	<b>LEONARDO KIT P111386</b> BFT USB impact measurer		<b>LEONARDO KIT BLUETOOTH P111387</b> BFT Bluetooth impact measurer







# Solar-powered system





# ECOSOL







The complete BFT ECOSOL range makes it possible to create an autonomous solar-powered system.

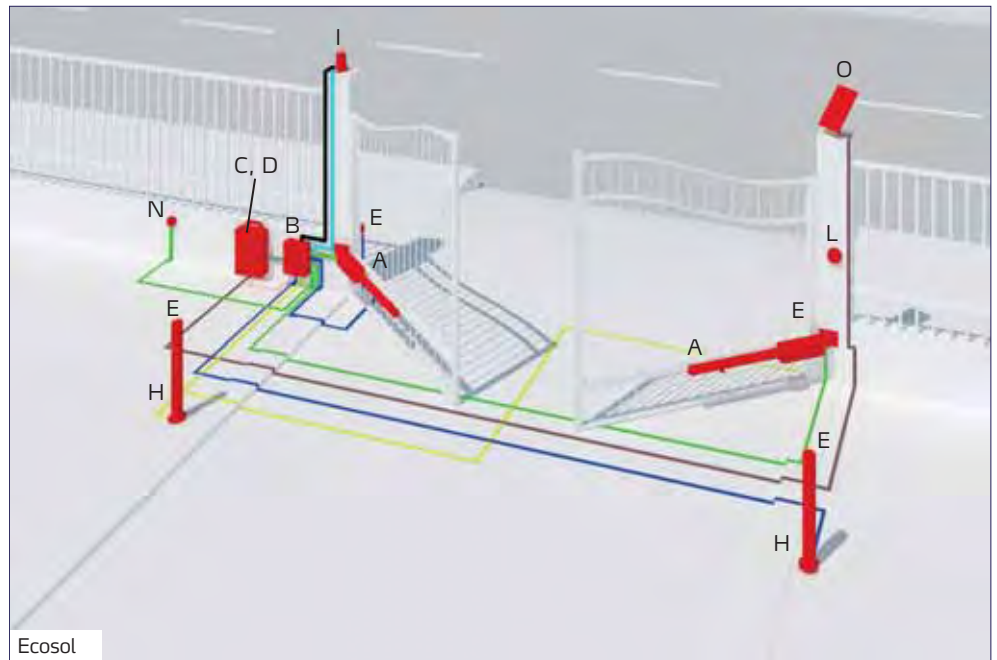
The ECOSOL system is particularly recommended for doors and gates in remote locations or with no access to the electricity mains, and can be used in all BFT 24 V systems, either new or pre-existing.

## Autonomy of system

	ECOSOL*	ECOSOL+DOUBLE*
<b>Built-in</b>		
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.

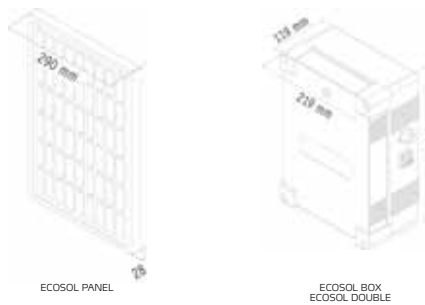
“Vandal-proof” versions of screws and fasteners can be supplied to guarantee maximum security and safety in all situations.



Summary table

Code	Name	Price (€)	Legend
D113731	ECOSOL BOX		B
D113750	ECOSOL BOX WITHOUT BATTERY		B
D113732	ECOSOL DOUBLE		B
N999471	ECOSOL PANEL		P

# Dimensions



# 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

# 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



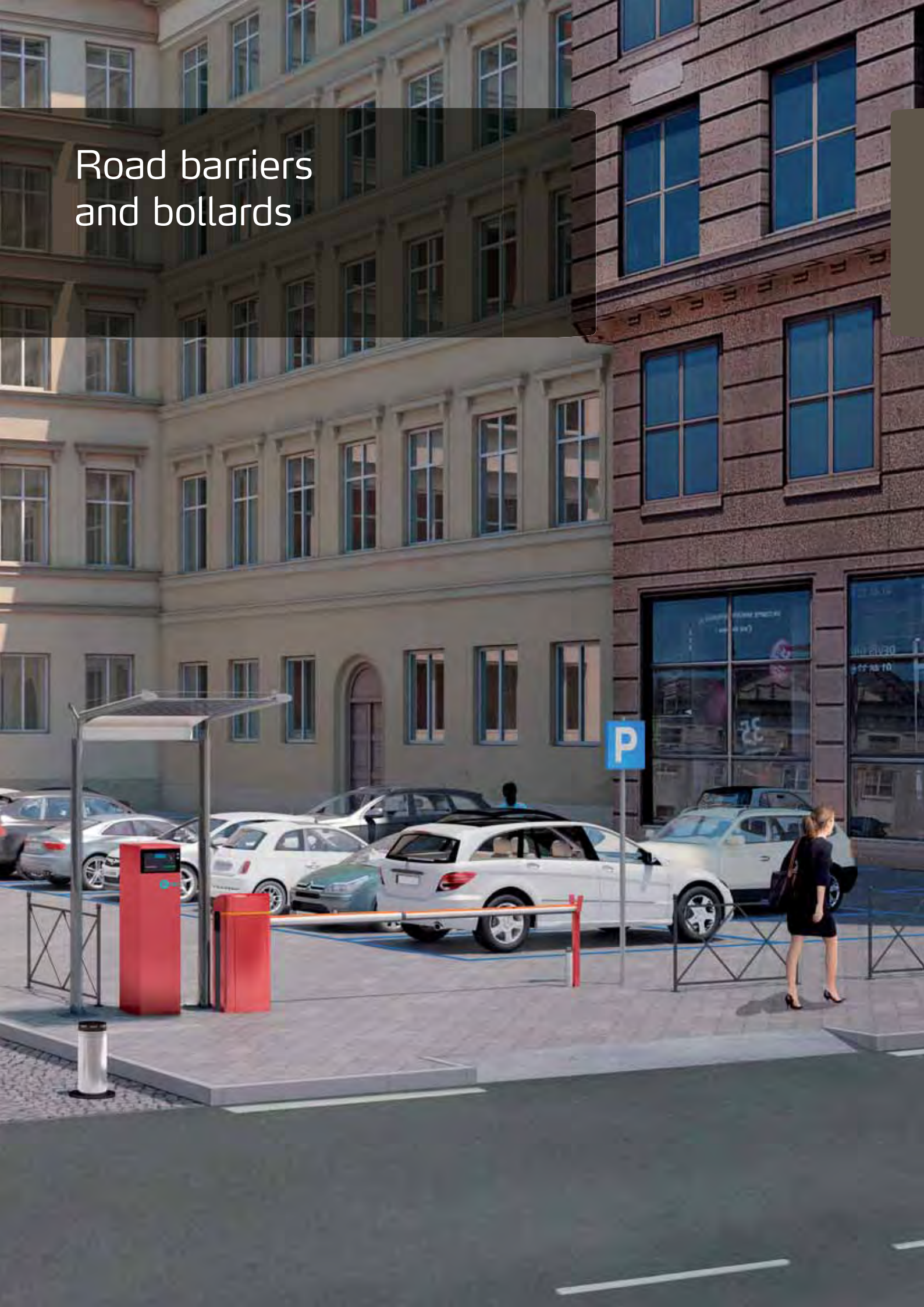
**ECOSOL CABLE N999476**  
20 m extension for ECOSOL CHARGER



**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 RMM	106
		230V	1.5+slowdown sec	Cataphoresis	MOOVI 30S	106
				Stainless steel	MOOVI 30S INOX	106
		230V	4sec	Stainless steel	MOOVI 30 RMM INOX	106
		24V	2sec	Cataphoresis	MOOVI 30 BT	106
			4sec	Cataphoresis	GIOTTO 30 BT	116
	5m		2.5sec	Cataphoresis	GIOTTO 30S BT	116
		230V	8sec	Cataphoresis	MOOVI 50 RMM	106
				Stainless steel	MOOVI 50 RMM INOX	106
		24V	3.5sec	Cataphoresis	MOOVI 50 BT	106
			8sec	Cataphoresis	GIOTTO 50 BT	116
			4sec	Cataphoresis	GIOTTO 50S BT	116
	4m	24V	4sec	Cataphoresis	MICHELANGELO 40 BLUE	112
				Cataphoresis	MICHELANGELO 40 RED	112
	6m	24V	6sec	Cataphoresis	MICHELANGELO 60 BLUE	112
				Cataphoresis	MICHELANGELO 60 RED	112
	8m	24V	8sec	Cataphoresis	MICHELANGELO 80 BLUE	112
				Cataphoresis	MICHELANGELO 80 RED	112

	Rod height	Voltage	Opening or closing time	Case treatment	Operator	pag.
rising bollards	500mm	230V	6sec	reflective film	STOPPY F	118
				reflective film	STOPPY L	118
				Stainless steel	STOPPY LAR INOX	118
	700mm	230V	9sec	reflective film	STOPPY H F	118
				reflective film	STOPPY H L	118
				Stainless steel	STOPPY H LAR INOX	118
	600mm	230V	7sec	Painted with polyester powder	TOWER	122
				Stainless steel	TOWER INOX	122
				Painted with polyester powder	TOWER F	122
	600mm	230V	6sec	Stainless steel	TOWER F INOX	122
				Painted with polyester powder	PILLAR	120
				Stainless steel	PILLAR INOX	120
	800mm	230V	8sec	Painted with polyester powder	PILLAR F	120
				Stainless steel	PILLAR F INOX	120
				Painted with polyester powder	PILLAR H	120
	900mm	230V	9sec	Stainless steel	PILLAR H INOX	120
				Painted with polyester powder	PILLAR H F	120
				Stainless steel	PILLAR H F INOX	120
	900mm	230V	9sec	Painted with polyester powder	TOWER H	122
				Stainless steel	TOWER H INOX	122
				Painted with polyester powder	TOWER H F	122
				Stainless steel	TOWER H F INOX	122





# Road barriers and bollards associations

	LEO MV D	LIBRA C MV	LIBRA C MO	PERSEO 2	PLR CB	TWR CB
MOOVI 30						
MOOVI 50						
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				
STOPPY L				Recommended		
STOPPY H				Recommended		
PILLAR					Recommended	
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	PERSEO N
<b>MOTORS POWER SUPPLY</b>				
Motor 1 230V output	▪			
Motor 4 230V output				▪
Motor 1 24V output		▪	▪	
<b>LIMIT SWITCH INPUTS</b>				
Single for Opening	▪	▪	▪	▪
Single for Closing	▪	▪	▪	▪
Separate Inputs for Opening				
Separate Inputs for Closing				
Encoder	▪	▪	▪	
<b>CONTROLS INPUTS</b>				
Start	▪	▪	▪	▪
Pedestrian Start				
Internal Start				
Open	▪	E1	E1	▪
Close	▪	▪	▪	▪
Timer	▪	E1	E1	
Pedestrian Timer				
<b>EMERGENCY STOP</b>				
Stop	▪	▪	▪	▪
<b>SAFETY SYSTEMS INPUTS</b>				
Photocells	▪	E2	E2	
Photocells for Opening	▪	E2	E2	
Photocells for Closing				▪
Photocells Inputs Check	▪	▪	▪	
Safety Edge	▪	▪	▪	
8K2 Safety Edge				
Safety Edges Inputs Check	▪			
<b>AUXILIARY INPUTS/OUTPUTS</b>				
Blinker	▪	▪	▪	▪
Gate Open Warning Light	▪	▪	▪	
Second Radio Channel				
Alarm		▪	▪	
<b>MOTORS CONTROLS</b>				
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				▪
<b>FUNCTIONS</b>				
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	
4 Steps		E3	E3	
Deadman Feature		▪	▪	▪
Traffic-Light Management				▪
<b>MISCELLANEOUS</b>				
Accessories power supply 24V	1A	180mA	180mA	1A
Phototransmitters power supply	▪			▪
Antenna	▪			
Audible warning				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.


**24V**

((€R-Ready))



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.



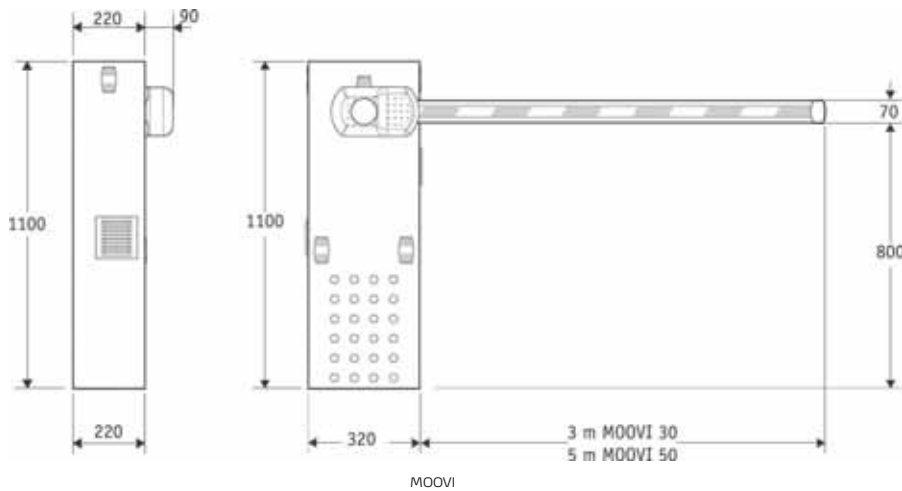
Backup battery power supply system, installable on-board unit (24V versions).



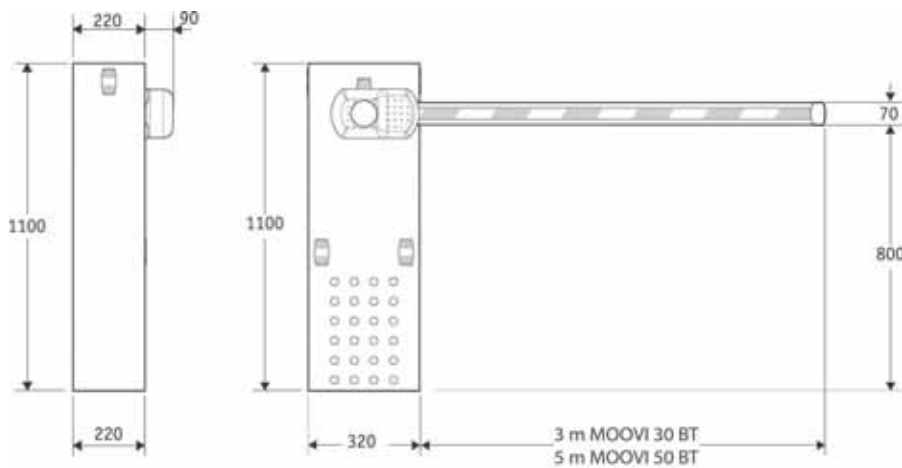
### Summary table

Code	Name	Price (€)	Voltage	Useful passage	Legend
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
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













MOOVI

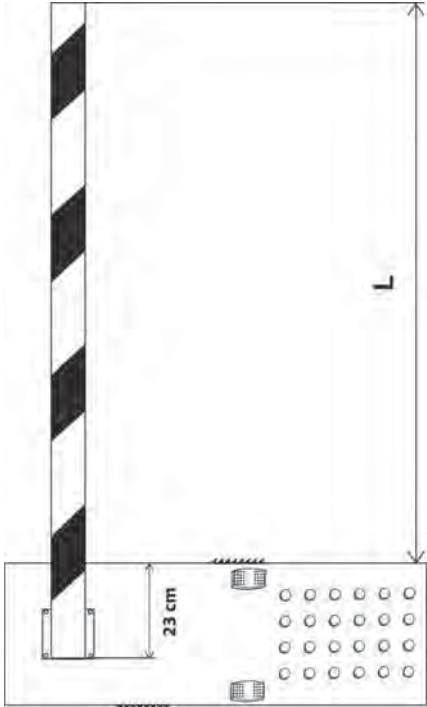


MOOVI BT

## Technical features

	MOOVI 30 BT	MOOVI 30 RMM	MOOVI 30S	MOOVI 50 BT	MOOVI 50 RMM
Control unit	LIBRA C MV	LEO MV D		LIBRA C MV	LEO MV D
Power supply	24V	230V	230V	24V	230V
Power input	300W	300W	300W	300W	300W
Opening or closing time	2sec.	4sec.	1.5 + slowdownsec.	3.5sec.	8sec.
Type of limit switch	electronic open/close	electric, incorp. and adjustable	electric, incorp. and adjustable	electronic open/close	electric, incorp. and adjustable
Slowdown	adjustable		adjustable	adjustable	
Impact reaction	Encoder	Encoder	Encoder	Encoder	Encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	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
Environmental conditions					
Actuator weight	41kg	35.6kg	33.6kg	42kg	35.6kg

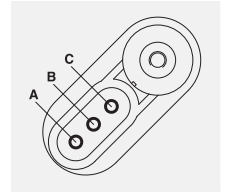
ACCESSORIES		USEFUL LENGTH OF BOOM AND BALANCING															
BIR Rubber Edge																	
GAM Swinging Tip Rest																	
KIT MOOVI BT LIGHT																	
MOOVI BT PCA (above boom only)																	
MOOVI BT PCA (below boom only)																	
SB Lower Skirt																	
MOOVI 50		MIN L															
		MAX L															
		MIN L															
		MAX L															
MOOVI 30		MIN L															
		MAX L															
		MIN L															
		MAX L															



L: USEFUL LENGTH OF BOOM.

## Useful length of boom and balancing

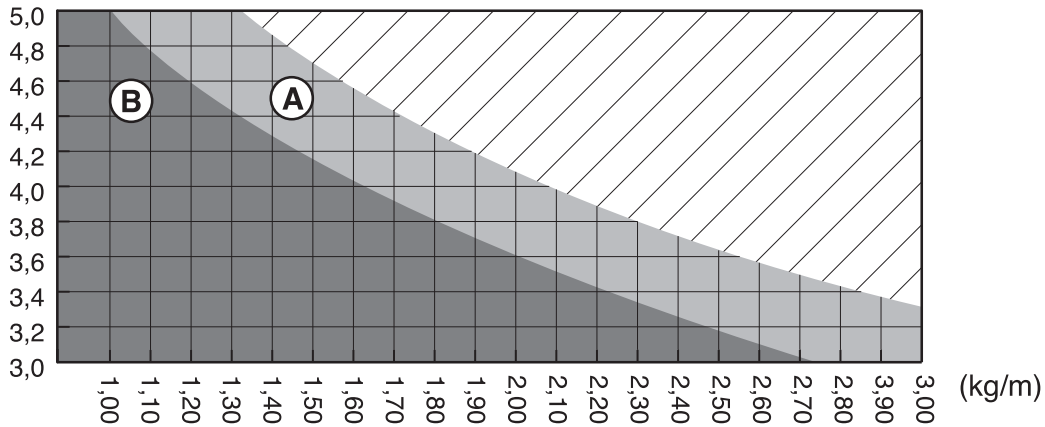
	Weight
PA*	1.028
BIR Rubber Edge	1.25
SB Lower Skirt	0.51
1PCA Upper Rubber Profile	0.16
2PCA Lower Rubber Profile	0.32
MOOVI Light Kit + 1PCA	0.23



PA\* Weight of boom without accessories

## MOOVI 50 RMM

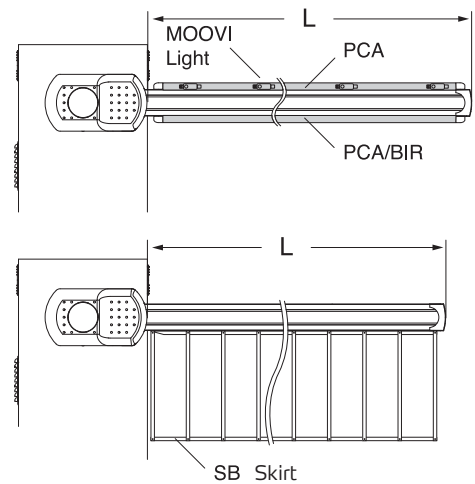
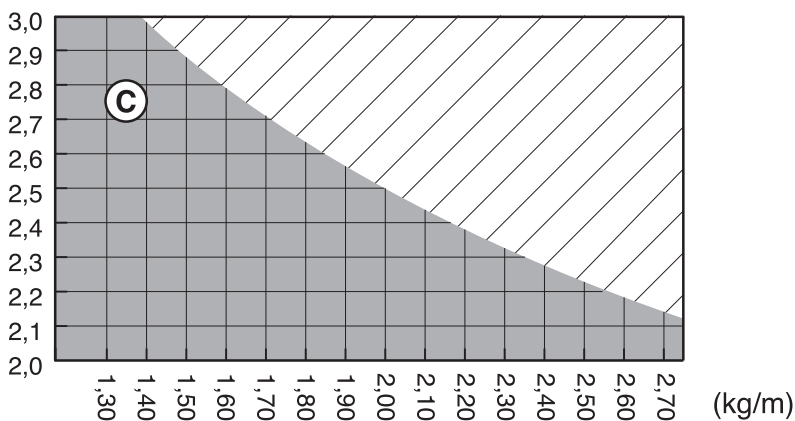
L (m)



Installation not permitted

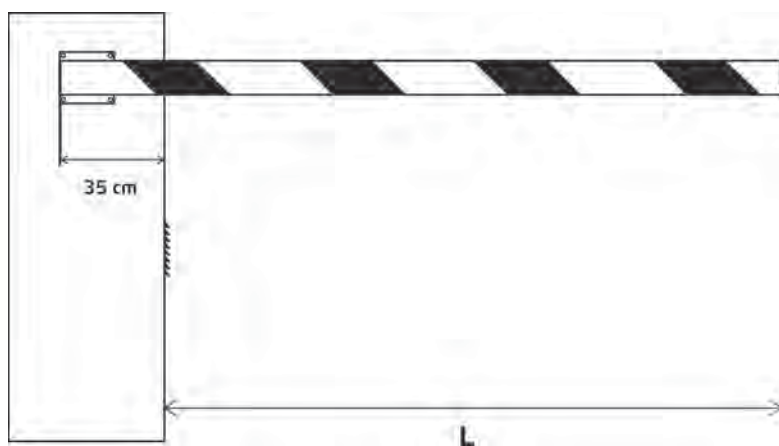
## MOOVI 30 RMM

L (m)

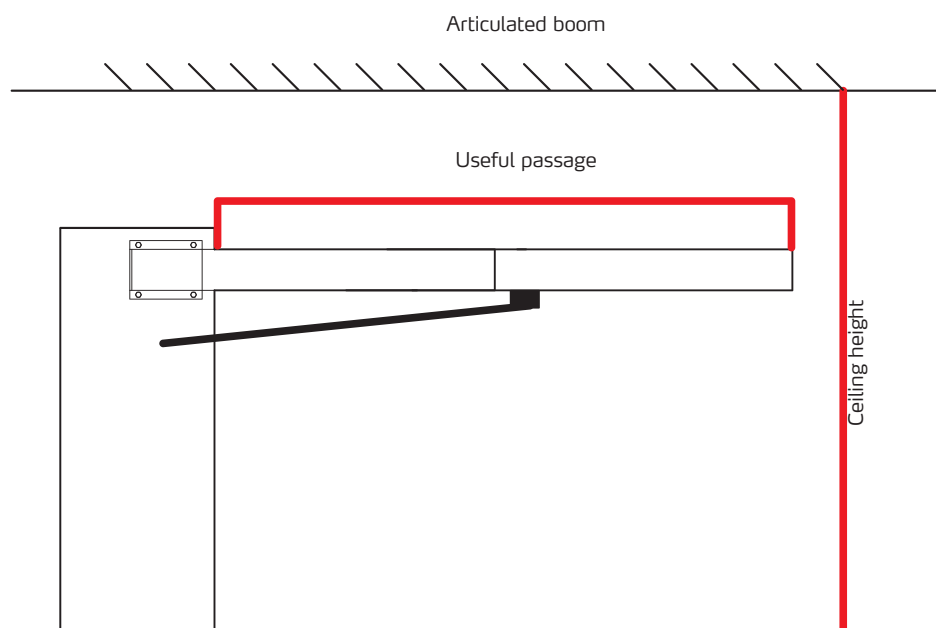
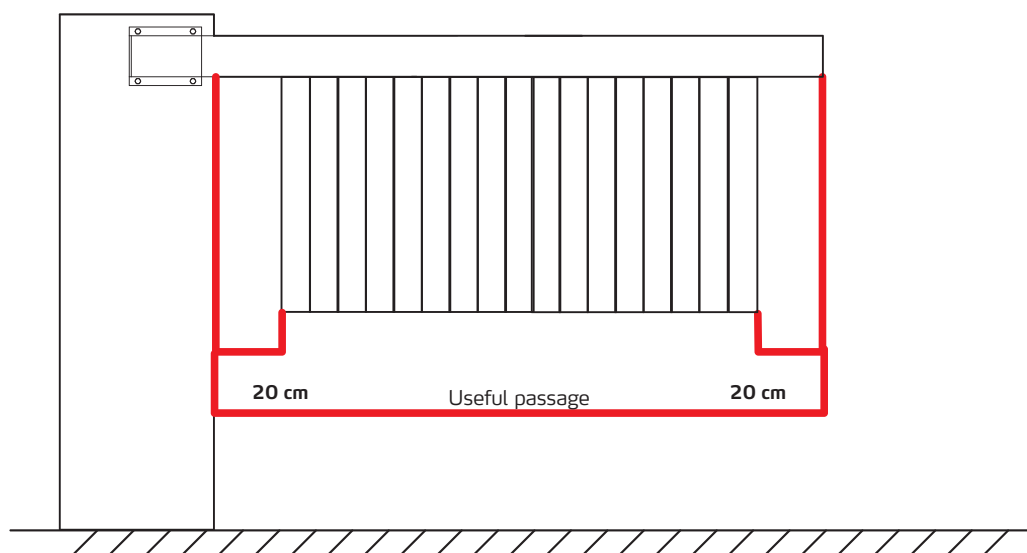


ACCESSORIES		USEFUL LENGTH OF BOOM AND BALANCING																
BIR Rubber Edge																		
GAM Swing Tip Rest																		
KIT MOOVI BT LIGHT																		
MOOVI BT PCA (above boom only)																		
MOOVI BT PCA (below boom only)																		
SB Lower Skirt																		
MOOVI BT 50	A	MIN L																
		MAX L																
	B	MIN L	4.4 m	2.4 m	2.4 m	2.5 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m
		MAX L	5 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m	3.3 m
MOOVI BT 30	A	MIN L																
		MAX L																
	B	MIN L	1.9 m	1.9 m	1.9 m	2 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m	2.3 m
		MAX L																
	C	MIN L	2.1 m	1 m	1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m	1.1 m
		MAX L	3 m	1.9 m	1.9 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m	2 m

## Useful length of boom and balancing



L: USEFUL LENGTH OF BOOM.

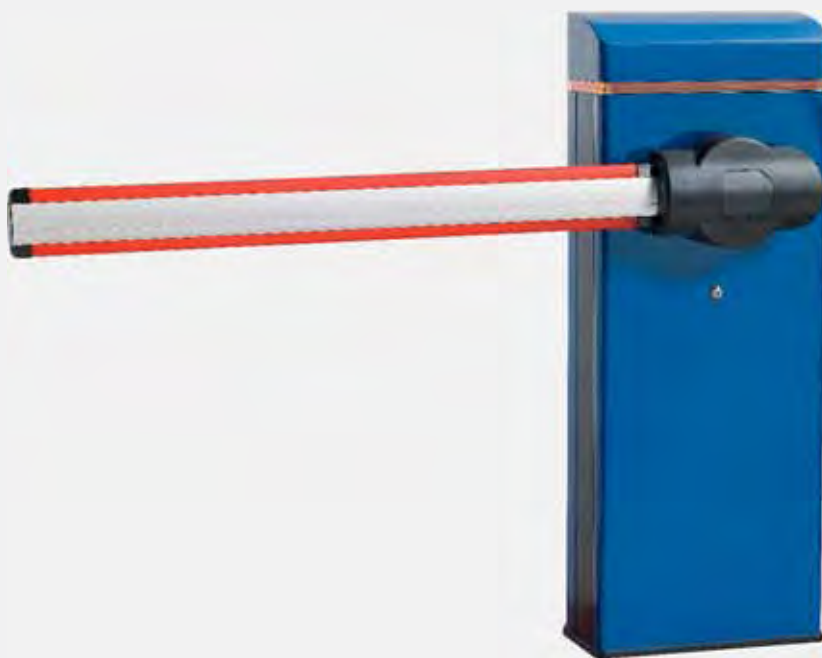




### Description

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



24V

((€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.

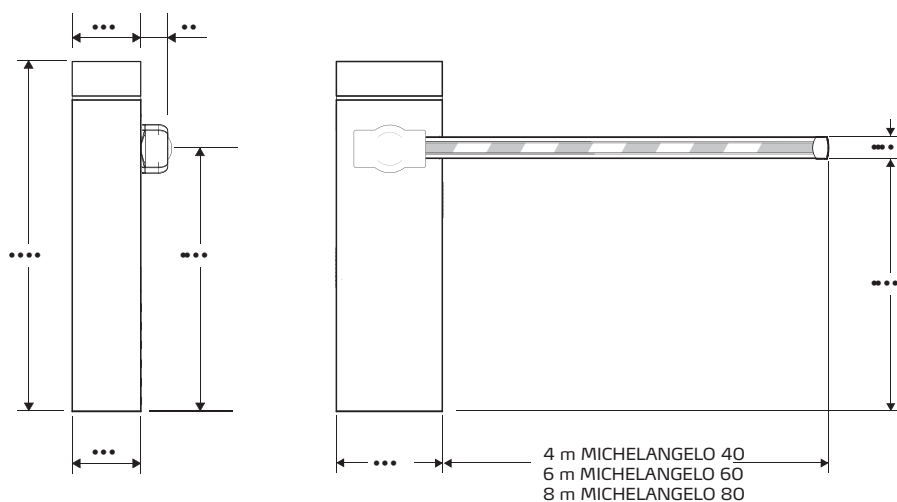


### Summary table

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

# Important Information

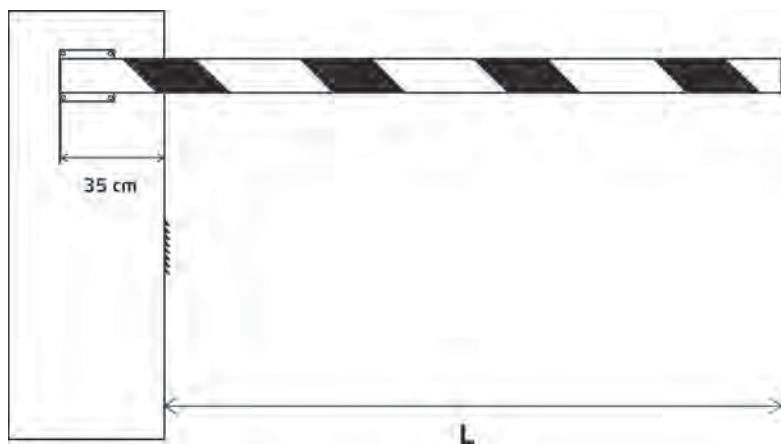
The BFT Michelangelo range of barriers are finely tuned and have some excellent safety features that many other barriers do not have. In the current climate where safety is a major concern, the main feature is called obstacle detection. If the barrier boom hits an obstacle, the boom stops and reverses. However, for these features to work correctly, only BFT accessories can be fitted to the barrier boom and when these BFT accessories are fitted, a portion of the barrier boom has to be removed to compensate for the weight of the accessories. This enables the barrier to be set up and balanced correctly.

In the event you need to fit BFT accessories to your Michelangelo barrier, we strongly recommend you contact us and we can then give you a minimum and maximum length of boom and advise you of the correct fixing point on the rotation lever inside the cabinet. A chart can be provided that is also appears in the Michelangelo instruction booklet.

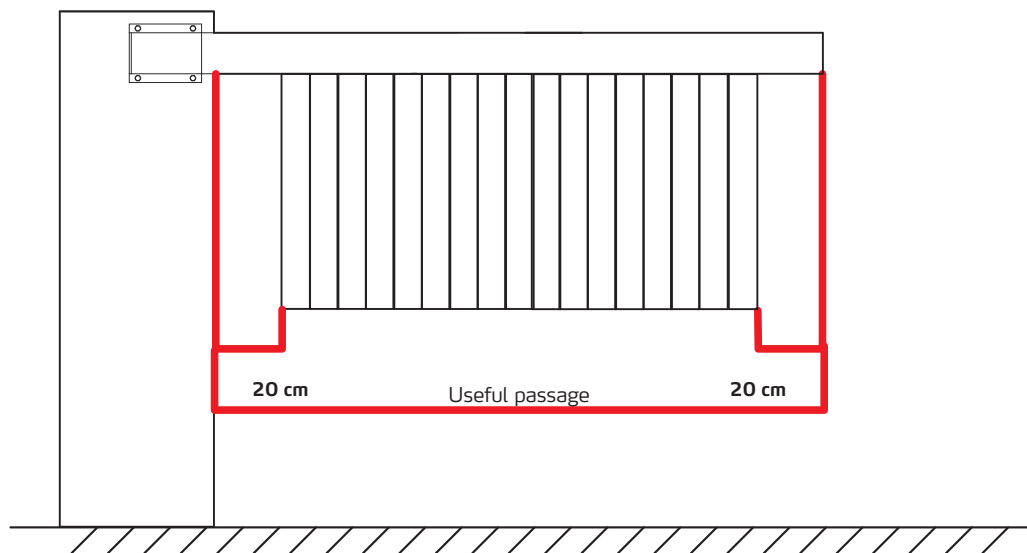
Failure to adhere to the above may result in a barrier failure where a new motor and gearbox might be required.

Thank You

## 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.



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.



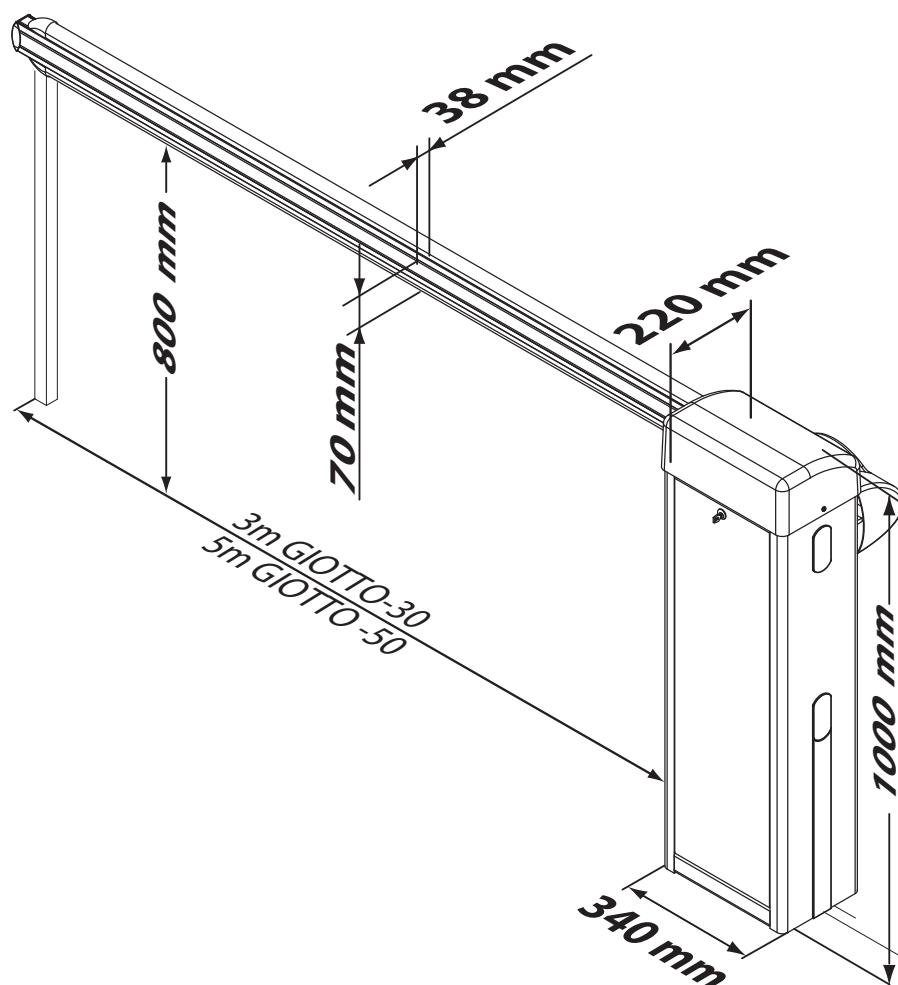
Backup battery power supply system, installable on-board unit (24V versions).



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.

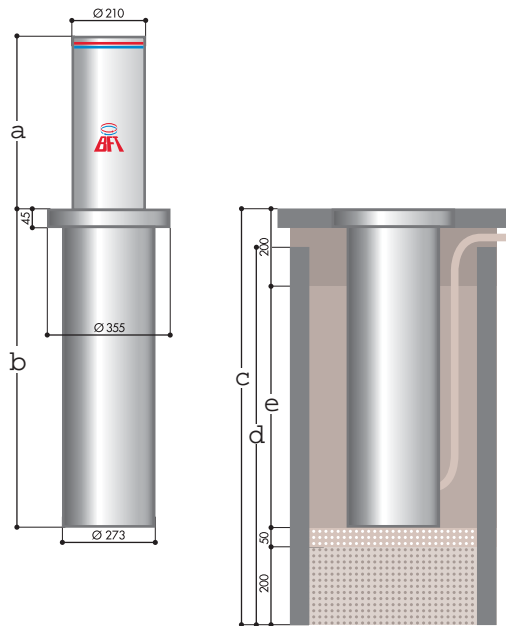


## Summary table

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



## Dimensions



	A	B	C	D	E
<b>STOPPY</b>	500 mm	915 mm	1100 mm	1000 mm	650 mm
<b>STOPPY H</b>	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



#### 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

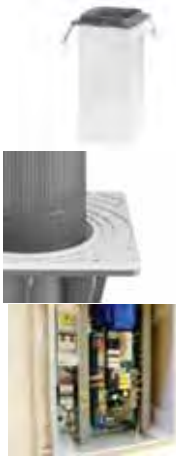
Complete range of hydraulic and fixed automatic bollards for the protection and safety of any spaces requiring controlled access.  
Ideal for installation in paces of particular architectural interest such as town centres, where maximum reliability and long life are essential.



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

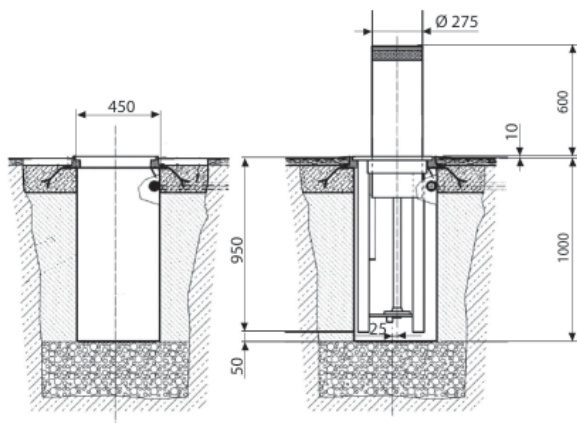
Highly configurable operator, for installation always in line with the customer's requirements



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 high security 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.



High security 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



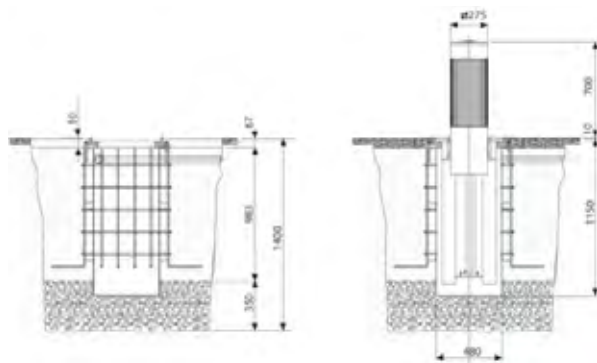
Highly configurable operator, for installation always in line with the customer's requirements



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



### ELL 5 N728021

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



### MOOVI ART90 N728029

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



### 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



### FAF D730088

Fixed rest fork for booms



### SB D573003

Aluminium skirt for road barrier booms



### STOPSIGN

Stop Sign for Barriers



### PARKY LIGHT

230v Red/Green Bulb Traffic Light



### 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



### 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



### KIT MOOVI PRM P120004

Hand protection kit against cutting, for MOOVI



### NOENTRYSIGN

No Entry Sign for Barriers



### TRAFFIC-LIGHT-LED

24v AC/DC Red/Green LED Traffic Light

# MICHELANGELO



## ATT 502 N728028

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



## ATT 504 N728027

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



## ATT 704 N728026

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



## MCL PCA 6 P120008

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



## ATT 706 N728030

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



## MCL PCA 8 P120010

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



## ELL 6 N728022

Complete 6 m rectangular boom for MICHELANGELO



## PCA 6 P120003 00002

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



## ACC MCL ATT N999386

Accessories pack for ATT 704 / 706 boom



## PCA 8 P120003 00003

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



## ACC MCL ELL N999391

Accessories pack for ELL 6 boom



## SB D573003

Aluminium skirt for road barrier booms



## BM D730964

Anchor base for MICHELANGELO series barriers



## MCL BAT P125011

Set of backup batteries for MICHELANGELO barriers



## FAF D730088

Fixed rest fork for booms



## THERMO P120018

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



## MCL FAF D730991

Fixed rest fork for booms. For MICHELANGELO, colour blue



## KIT MCL LAMPO P120006

Built-in flashing light for MICHELANGELO



## MOOVI GA D940008

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



## KIT MCL LIGHT P120005 00001

Boom lights for MICHELANGELO



## MOOVI GAMA D940009

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

## MICHELANGELO



### KIT MCL LIGHT P120005 00001

Boom lights for MICHELANGELO



### KIT SCHEDA MCL P120009

Control board for KIT MCL LIGHT and KIT MCL LAMPO



### SCS WIE P111408

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



### KIT MCL 130 P120007 00001

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



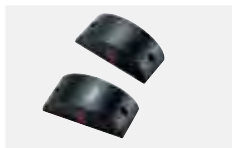
### STOPSIGN

Stop Sign for Barriers



### PARKY LIGHT

230v Red/Green Bulb Traffic Light



### CELLULA 130 P111273

Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc



### CELLULA 180 P111452

Pair of orientable photocells (180°horiz./20°vert.) For external application (range 25m - reduced in fog/rain). Power supply 24V ac/dc



### SCS 1 P111376

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



### BIR C N190104

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



### NOENTRYSIGN

No Entry Sign for Barriers



### TRAFFIC-LIGHT-LED

24v AC/DC Red/Green LED Traffic Light

## Complete 4 m round boom components



### ATT 704 N728026

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



### ACC MCL ATT N999386

Accessories pack for ATT 704 / 706 boom

## Complete 6 m round boom components



### ATT 706 N728030

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



### 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



**KIT SCHEDA MCL P120009**

Control board for KIT MCL LIGHT and KIT MCL LAMPO

## 6 m telescopic round boom components



**ATT 704 N728026**

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



**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.

## 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



**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**

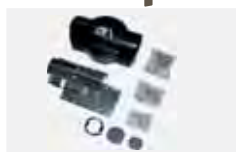
Control board for KIT MCL LIGHT and KIT MCL LAMPO

## 8 m telescopic round boom components



**ATT 704 N728026**

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



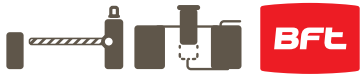
**ACC MCL ATT N999386**

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.



## 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

	<b>GTO AQG N999507</b> Pack of accessories for installation of rectangular boom		<b>SB D573003</b> Aluminium skirt for road barrier booms
	<b>GTO ATG N999513</b> Pack of accessories for installation of 3/5 m rectangular boom		<b>CBO D730251</b> Anchor base for MOOVI and GIOTTO series barriers
	<b>ATG3 N728031</b> Complete 3 metre round boom for GIOTTO		<b>PCA3 P120003 00001</b> Top and bottom cover profile for booms of 3 m max
	<b>ATG5 N728032</b> Complete 5 metre round boom for GIOTTO		<b>PCA6 P120003 00002</b> Top and bottom cover profile for booms of 6 m max
	<b>AQG3 N728033</b> Complete 3 metre rectangular boom for GIOTTO		<b>GTO BAT P120017</b> Set of buffer batteries for MOOVI and GIOTTO series barriers
	<b>AQG5 N728034</b> Complete 5 metre rectangular boom for GIOTTO		<b>KIT MOOVI LIGHT1 P120001 00002</b> Lights for 5 m boom for MOOVI and GIOTTO
	<b>GAM D940008</b> Mobile support leg for barriers		<b>KIT MOOVI LIGHT P120001 00001</b> Lights for 3 or 4.5 m boom for MOOVI and GIOTTO
	<b>GAMA D940009</b> Mobile support leg with shock absorber for barriers		<b>KIT MOOVI 130 P120002</b> Support for fitting CELLULA 130 on MOOVI and GIOTTO enclosure in line with boom
	<b>FAF D730088</b> Fixed rest fork for booms		<b>STOPSIGN</b> Stop Sign for Barriers
	<b>NOENTRYSIGN</b> No Entry Sign for Barriers		<b>PARKY LIGHT</b> 230v Red/Green Bulb Traffic Light
	<b>TRAFFIC-LIGHT-LED</b> 24v AC/DC Red/Green LED Traffic Light		

# STOPPY



## 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



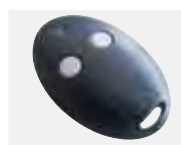
## TL P800039

Traffic-lights for STOPPY totem



## TPF P800040

Foundation and anchor plate for STOPPY totem



## MITTO 2 12V D111750

12V two-channel transmitter 433 MHz rolling code



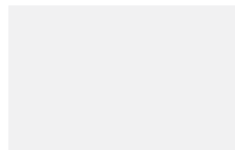
## T-BOX P121019

Wireless digital keypad 433 MHz Rolling code



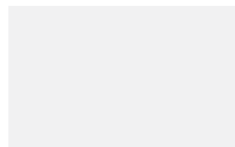
## CLONIX 2 D111662

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



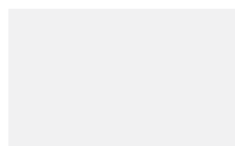
## CABLE STOPPY P800034

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



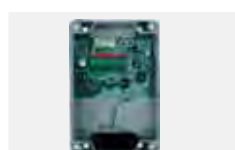
## STOPPY EXTENSION 25 P800041

25 m extension cable for STOPPY and STOPPY H operators



## STOPPY EXTENSION 50 P800042

50 m extension cable for STOPPY and STOPPY H operators



## ACOUSTIC DETECTOR D113705

Adjustable acoustic detector for sirens



## MITTO 4 12V D111751

12V four-channel transmitter 433 MHz rolling code



## SEK P121017

External key selector switch with vandal-proof metal frame

## PILLAR

**PLR CASE P800062 00001**

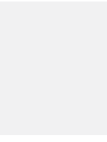
Installation recess for PILLAR series operators

**PLR CASE H P800062 00002**

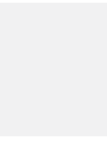
Installation recess for PILLAR H series operators

**PLR CASE H INOX P800063 00002**

Stainless steel installation recess for PILLAR H series operators

**TWR CASE CVR P800056**

Closure for TWR CASE series recesses

**BO F PLATE P800067**

Base for homogeneous appearance of fixed-automatic traffic bollards

**PLR POST P800066**

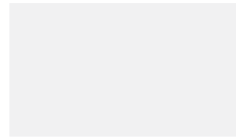
Column for central installation

**BO RAL P800045**

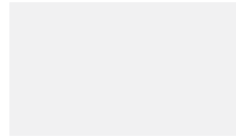
RAL paint treatment (colours in catalogue)

**BO LIGHT P800046**

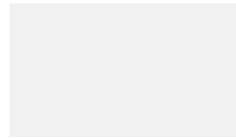
Flashing light incorporated in rod

**BO LIGHT PWR P800059**

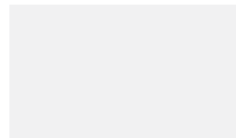
Lights power supply for fixed bollards (max 4 operators)

**BO BUZZ P800050**

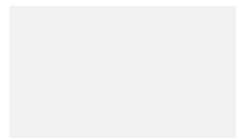
Movement audible warning

**PLR F RMW P800068**

Accessory for conversion from fixed to mobile bollard

**BO ALARM P800047**

Cylinder head and raised operator alarm kit

**BO THERMO P800048**

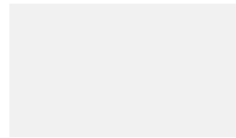
Thermostat-controlled heating element for low temperatures

**BO CB THERMO P800057**

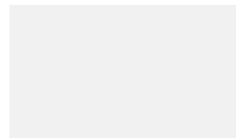
Heating element for PLR CB series control units

**BO EXT P800049**

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

**PIL SECURITY P800060**

Tamper-proof screw fasteners for cylinder head with key

**PIL DOWN P800061**

Automatic operator lowering system for use in the event of a power cut

# 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 TWR 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



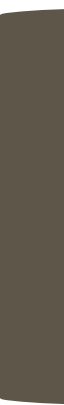
## BO CB THERMO P800057

Heating element for PLR CB series control units



## BO EXT P800049

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





# Automation systems for automatic pedestrian doors





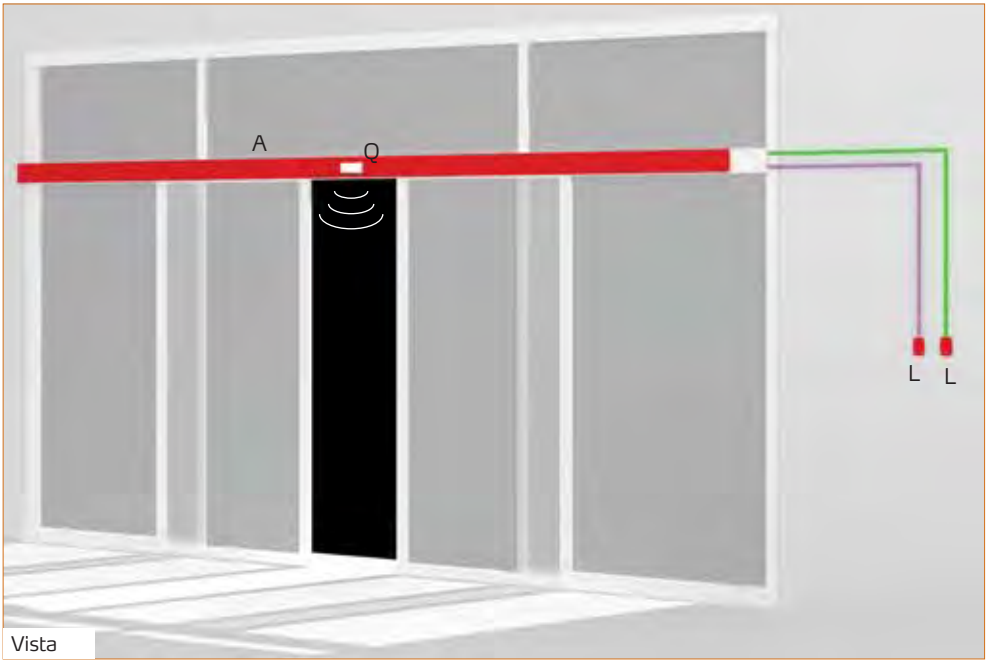
# Automation systems for automatic pedestrian doors

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	182
		120+120kg	from 800mm to 2900mm	VISTA SL2	182

## Installation guide

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

	ARIA
<b>MOTORS POWER SUPPLY</b>	
Motor 1 230V output	
Motor 2 230V output	
Motor 1 24V output	•
Motor 2 24V output	
<b>LIMIT SWITCH INPUTS</b>	
Single for Opening	
Single for Closing	
Separate Inputs for Opening	
Separate Inputs for Closing	
Encoder	•
<b>CONTROLS INPUTS</b>	
RADAR EXT input	•
RADAR INT input	•
OPEN KEY input	•
EMERGENCY input	•
<b>EMERGENCY STOP</b>	
Stop	•
<b>SAFETY SYSTEMS INPUTS</b>	
Photocells	
Photocells for Opening	•
Photocells for Closing	•
Photocells Inputs Check	•
Safety Edge	
8K2 Safety Edge	
Safety Edges Inputs Check	
<b>AUXILIARY INPUTS/OUTPUTS</b>	
Solenoid Lock	•
Door Status	•
Alarm	•
<b>MOTORS CONTROLS</b>	
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	•
<b>FUNCTIONS</b>	
Automatic Re-closing Control (TCA)	•
Clearing time	•
Anti-panic	•
Use mode scenarios	•
Locking Modes	•
Water Hammer	•
<b>MISCELLANEOUS</b>	
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.

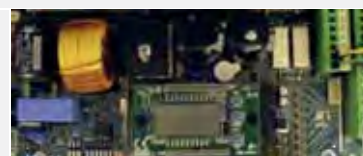
The cushioned rail and shaped wheels guarantee absolute silence in movement.

24V

((ER-Ready))



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



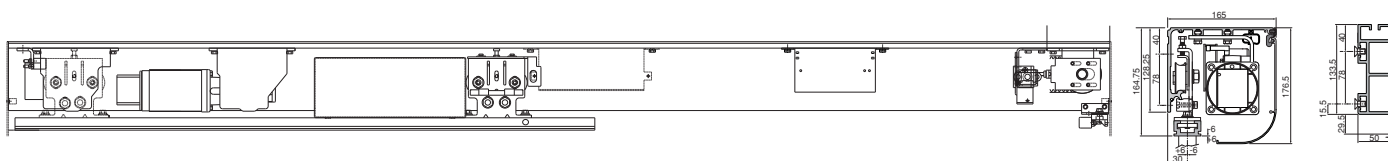
WMP rapid assembly profile.

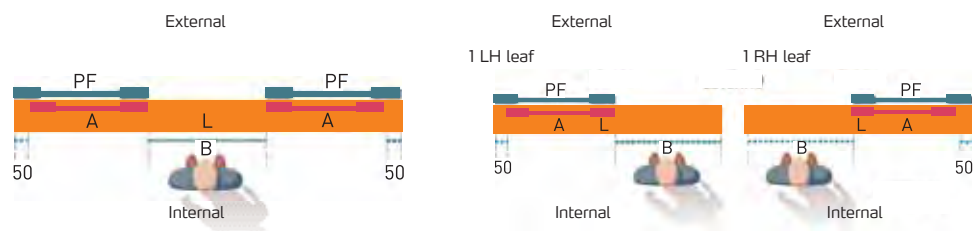


Electrical locking with the holding of the doors at each stop position.



### Dimensions





	Case length (L)
	Opening (B)
	Leaf length (A)
	Fixed part (PF) A+50

## Summary table

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

For the natural aluminium version enter the same code as the anodised guard but with the extension 00001 instead of 00002.

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

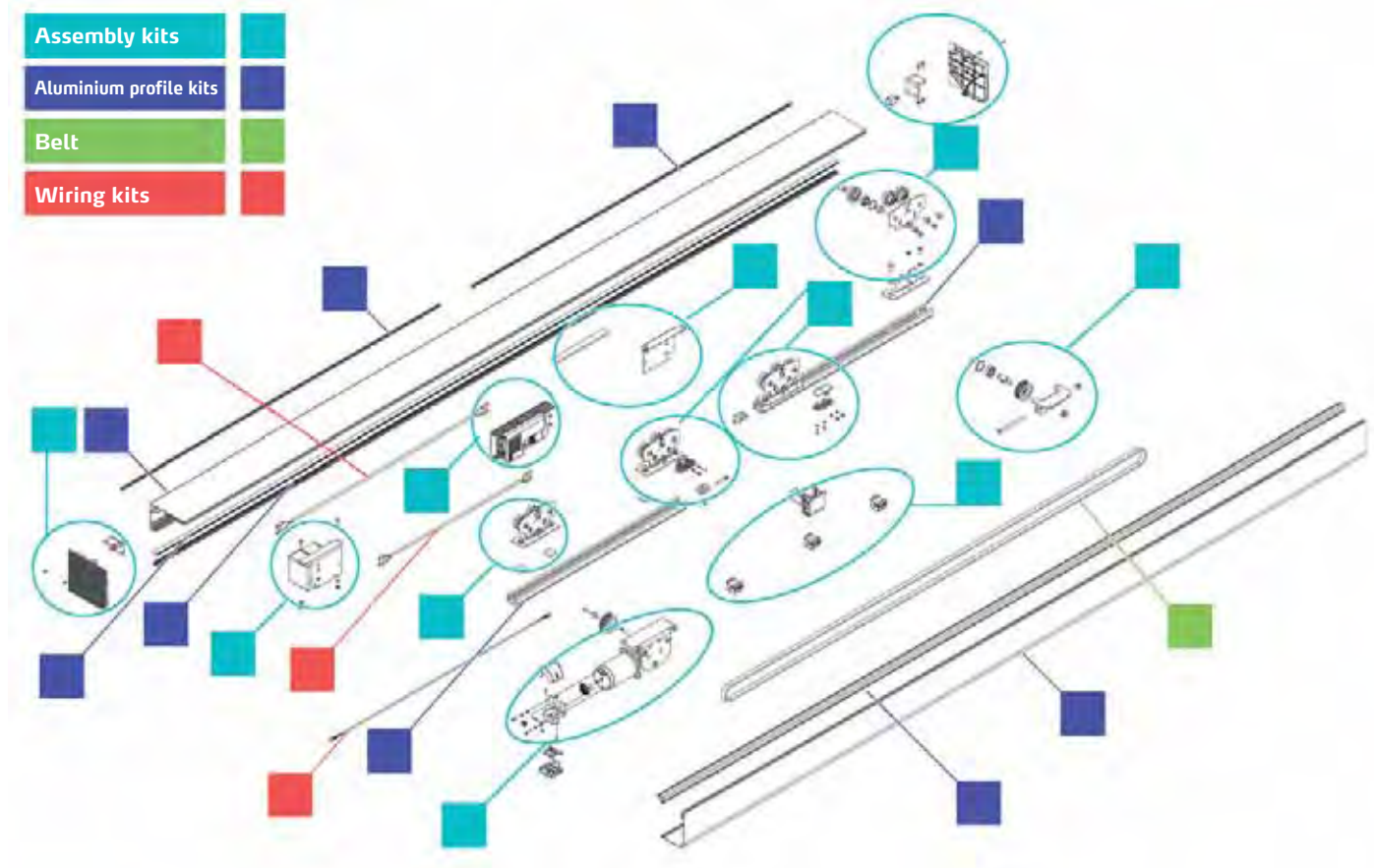
## Technical features

	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

[illegible]

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

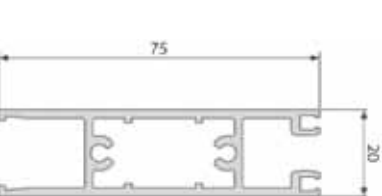


Profile kit

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.

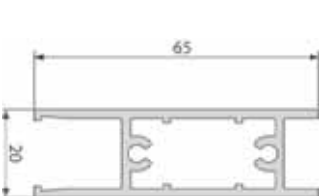
**PROFILES NOT COMPATIBLE WITH SASAM SYSTEM. CONTACT BFT FOR FURTHER INFORMATION.**

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



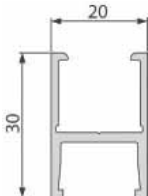
Top profile for fixed leaf. 5 m bars.

10 items



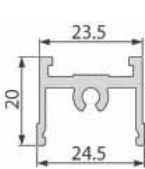
Top profile for fixed leaf. 5 m bars.

4 items



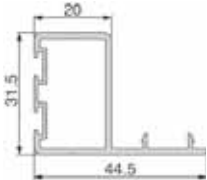
Jamb profile. 5 m bars.

28 items



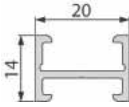
Frame profile. 5 m bars.

18 items



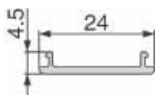
Edge profile/photocell holder. 5 m bars.

10 items



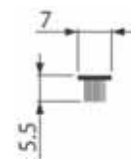
Latch profile. 5 m bars.

4 items



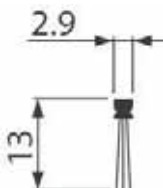
Weather strip profile. 5 m bars.

18 items



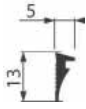
Mobile leaf sealing brush pack. 30 m roll

1 item



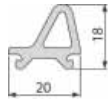
Side sealing brush pack. 30 m roll

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



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



# Access control and hands-free devices



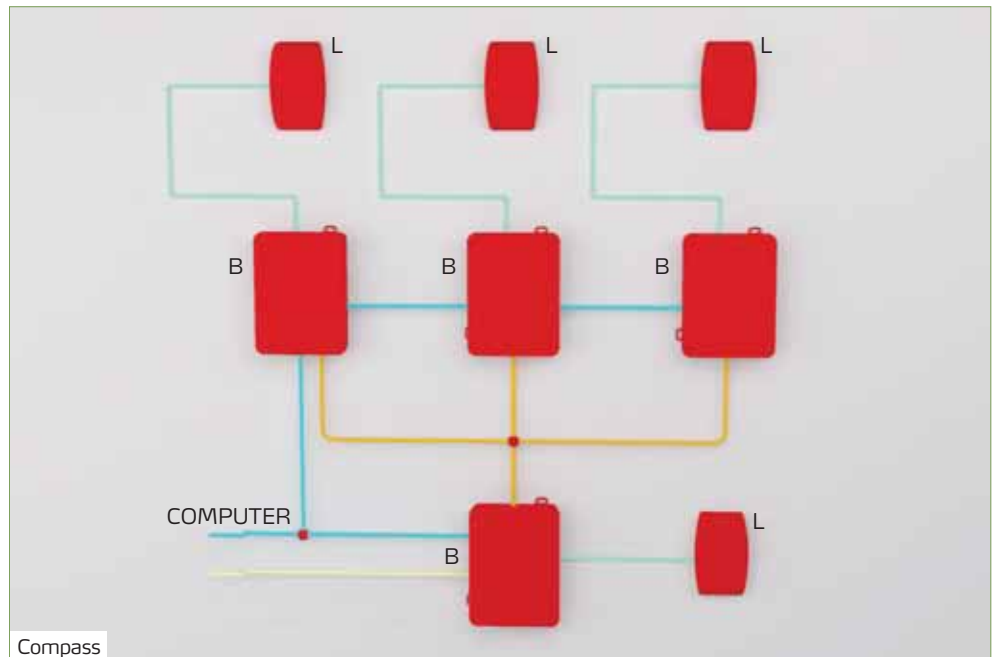


## Access control and hands-free devices

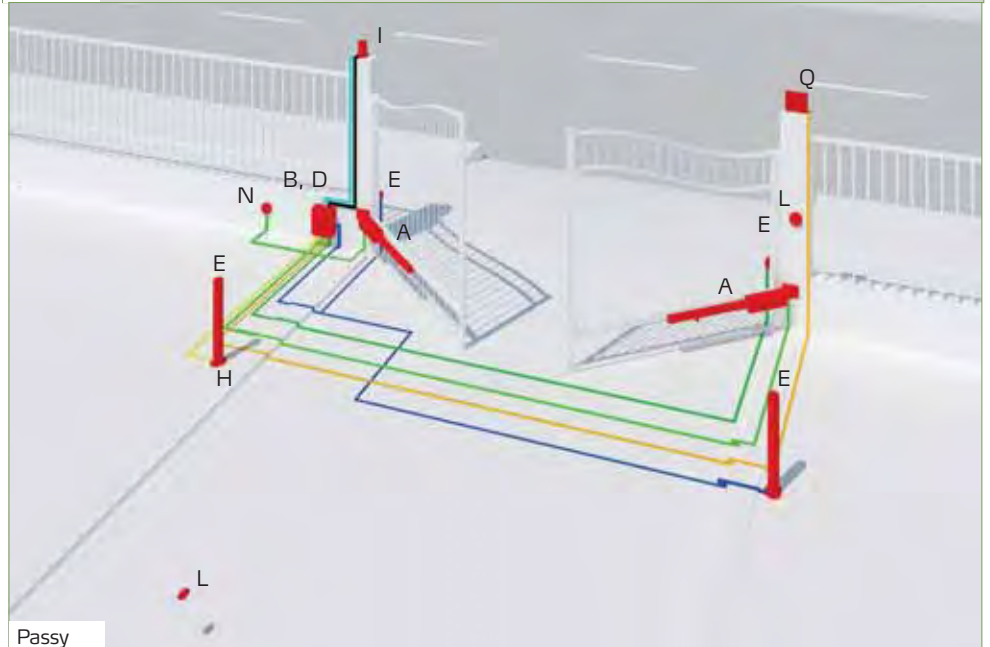
Private and protected areas, working environments and sports grounds can all become more secure with BFT access control systems. State-of-the-art electronics and a wide range of accessories make it possible to create systems based on badges, transponders and hands-free devices, made to measure to suit 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	
2x1.5	
3x1.5	
RG 58	
3x1	
RS 232	
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.

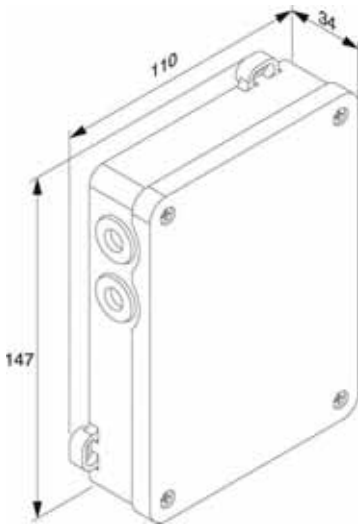


**Summary table**

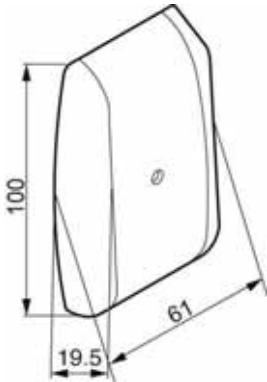
Code	Name	Voltage	Legend
D113256	COMPASS 485	230V	B
D113691	COMPASS SC USB	230V	B
D113704	COMPASS SLIM		L



# 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.



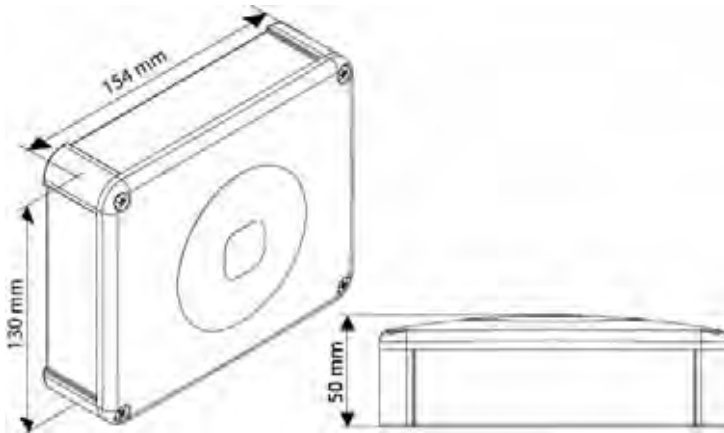
Can be combined with COMPASS access control system via the RTD CA 2048 receiver.



Summary table

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

## 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



**RTD CA 2048 D113671 00002**  
Four-channel rolling code receiver with 2048 codes and built-in programming display. Usable with COMPASS



**COMPASS - ISOCARD D110912**  
ISO standard proximity badge



**COMPASS - CUSTOM ISOCARD D110917**  
ISO proximity badge with customized black and white logo



**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



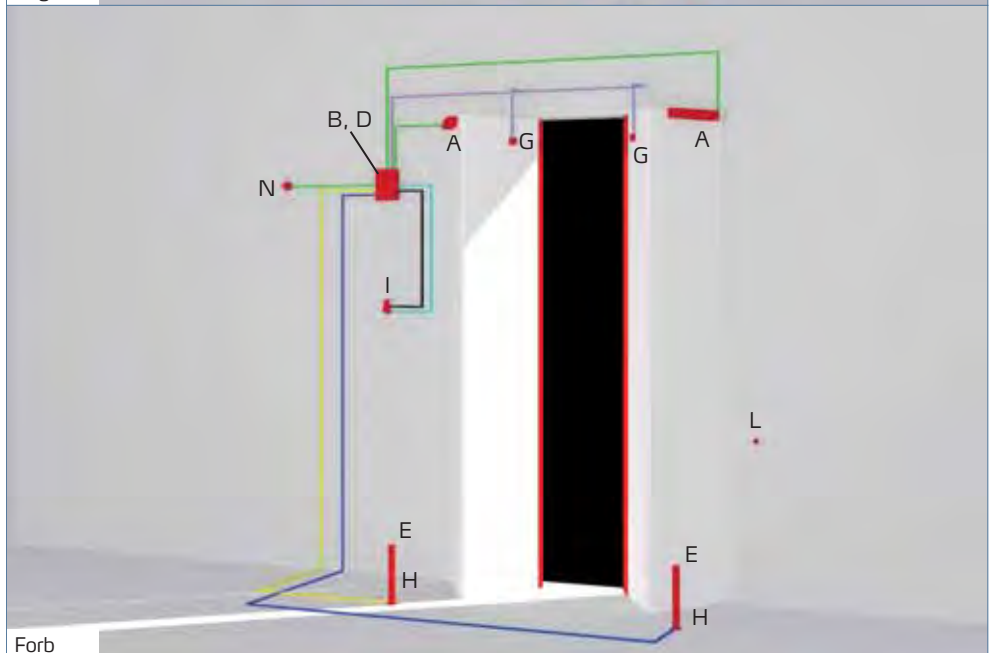
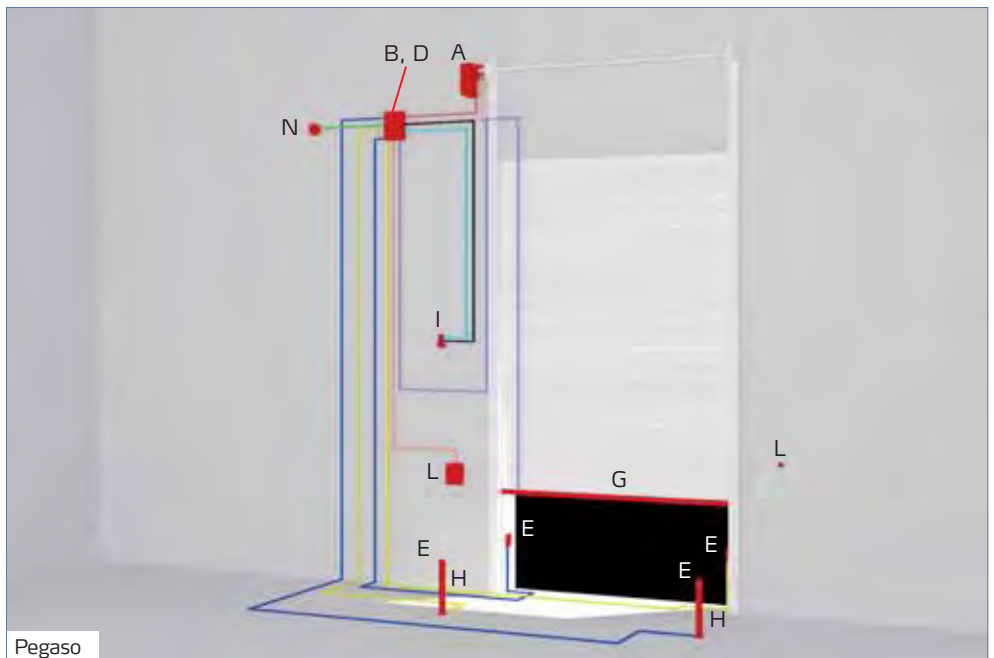
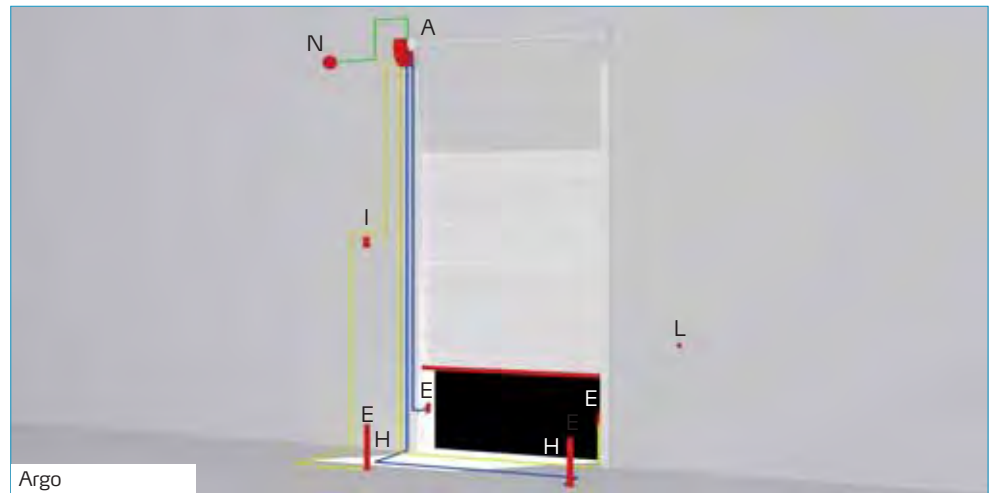
# Automation systems for industrial sectional doors and folding doors

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	20m²	24V	30rpm	ARGO	160
		230V	33rpm	PEGASO SC 230V	162
	25m²	230V	24rpm	PEGASO C 230V	162
				PEGASO SB 230V	162
	35m²	24V	18rpm	ARGO G	160
	45m²	400V	24rpm	PEGASO C TRI 400V	162
				PEGASO SB TRI 400V	162

	Max surface area	Max weight	Max speed	Operator	pag.
industrial folding doors		250kg	24V	IGEA LB BT	166
			230V	IGEA LB	166
	6m²		230V	FORB	164
	2.4m²		230V	FORB R	164
			230V	FORB ERSa	164

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

	RIGEL 5	LIBRA C MA	ALTAIR P	VENERE D
<b>MOTORS POWER SUPPLY</b>				
Motor 1 230V output	■		■	
Motor 2 230V output	■		■	
Motor 1 24V output		■		■
Motor 2 24V output		■		
<b>LIMIT SWITCH INPUTS</b>				
Single for Opening				
Single for Closing				
Separate Inputs for Opening	■	■		
Separate Inputs for Closing	■	■		
Encoder				■
<b>CONTROLS INPUTS</b>				
Start	■	E1	E1	■
Pedestrian Start	■	■	E2	■
Internal Start	■			
Open	■	E1	E1	
Close	■		E2	
Timer	E1			
Pedestrian Timer	E1			
<b>EMERGENCY STOP</b>				
Stop	■	■	■	■
<b>SAFETY SYSTEMS INPUTS</b>				
Photocells		■	■	■
Photocells for Opening	E2			
Photocells for Closing	■			
Photocells Inputs Check	■	■		■
Safety Edge	E2			
Safety Edges Inputs Check	■			
<b>AUXILIARY INPUTS/OUTPUTS</b>				
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			
<b>MOTORS CONTROLS</b>				
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		■		■
<b>FUNCTIONS</b>				
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.			
<b>MISCELLANEOUS</b>				
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.







Exclusive encoder position reset knob for fast, safe installations.



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



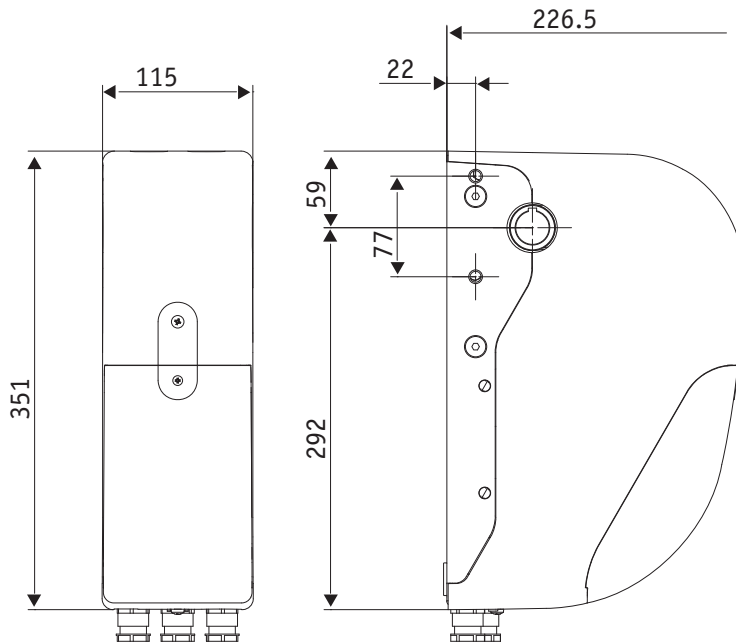
Control unit with on-board programming display and D-Track torque, speed and position management and control system. Incorporated dual channel radio receiver.



Summary table

	Code	Name	Voltage	Door surface area	Max torque	Legend
	P925202 00001	ARGO	24V	20m²	55Nm	A
	P925206 00002	ARGO G	24V	35m²	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

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



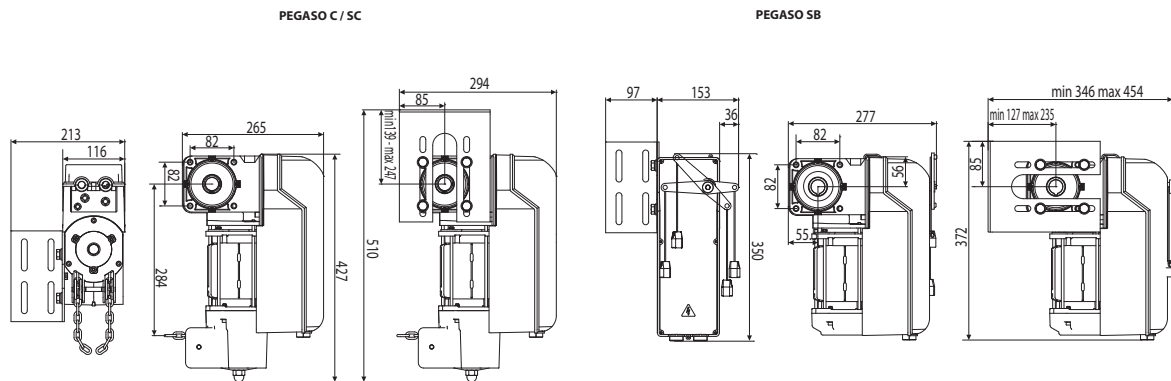
Ready-to-use cables with quick-fit connectors.



Summary table

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



### 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.

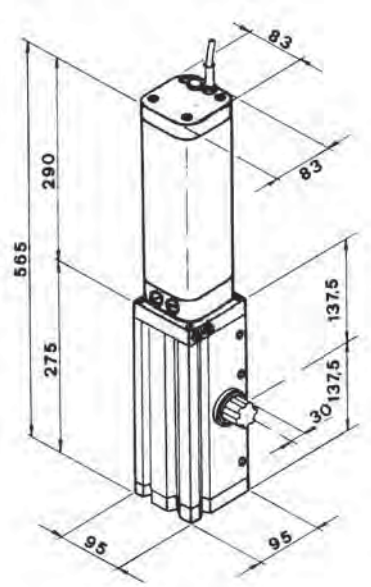


Summary table

Code	Name	Voltage	Door surface area	Legend
P935017 00001	FORB	230V	6m²	A
P935038 00001	FORB ERSA	230V	2.4m²	A
P935019 00001	FORB R	230V	2.4m²	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



24V

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.

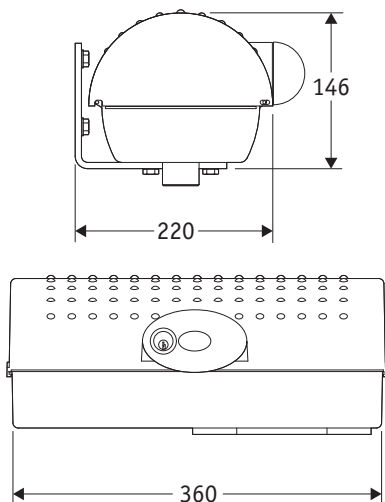


Summary table

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



## 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



#### 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 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 inch shaft



### PEG CCP N999468

Extension for PEGASO C operators release chain. Length 4 m



### PIG 12/ULISSE S N733338

Z12 pinion gear for industrial sectional doors, for 1 inch (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



### 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



### RCA N733421

Lever release with steel cable, length 3.5 m



### B EBA 201 R02 P111466

Expansion board for INPUT/OUTPUT



### RCAL N733422

Lever release with steel cable, length 7 m



### LIBRA C MA D113672 00005

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



### 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



### 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 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

	<p><b>CELLULA 50 P111272</b></p> <p>Pair of flush adjustable photocells (range 25m - reduced in fog/rain) Power supply 24V ac</p>		<p><b>CELLULA 130 P111273</b></p> <p>Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc</p>
	<p><b>CELLULA 180 P111452</b></p> <p>Pair of orientable photocells (180°horiz./20°vert.) For external application (range 25m - reduced in fog/rain). Power supply 24V ac/dc</p>		<p><b>DCW P111410</b></p> <p>Wireless photocell with possibility of managing infrared or resistive safety edge</p>
	<p><b>DCW COVER P111454</b></p> <p>Anodised aluminium cover for DCW and CELLULA180</p>		

	<b>B LTA 230 R1 D113748 00002</b> Blinker with built-in antenna for 230V motors		<b>B LTA 230 R2 D113749 00002</b> Blinker without antenna for 230V motors
	<b>B LTA 024 R1 D113748 00003</b> Blinker with built-in antenna for 24V motors		<b>B LTA 024 R2 D113749 00003</b> Blinker without antenna for 24V motors
	<b>B 00 R01 P123026</b> Metal guard for B LTA		<b>B 00 R02 P123025</b> Wall mounting for B LTA series blinker
	<b>MITTO 2 12V D111750</b> 12V two-channel transmitter 433 MHz rolling code		<b>MITTO 4 12V D111751</b> 12V four-channel transmitter 433 MHz rolling code
	<b>MITTO 2 REPLAY D111841</b> 12V 2-channel transmitter, copyable with rolling code		<b>MITTO 4 REPLAY D111842</b> 12V 4-channel transmitter, copyable with rolling code
	<b>SEK P121017</b> External key selector switch with vandal-proof metal frame		<b>T-BOX P121019</b> Wireless digital keypad 433 MHz Rolling code
	<b>RB P121016</b> 4-channel wall-mounted radio control with rolling code		<b>SPC D121611</b> External button panel with 2 start-stop buttons.
	<b>SPC2 D121612</b> External button panel with 2 open-close buttons.		<b>SPCE D121613</b> External button panel with mushroom-head emergency button.
	<b>SPC3 D121619</b> Open stop close button panel.		<b>TELECOMANDO P111405</b> Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8
	<b>FALCON P111407</b> Industrial presence sensor installable up to 7 m		



# Parking Management Solutions



# Parking Management Solutions

SACS, a company specialising in car park revenue systems for over 20 years, is fully owned by BFT and brings to market a range of parking management solutions to meet the growing requirement for managing parking spaces and generating new revenue streams for government and various commercial businesses alike.

Every parking management environment is unique, with different challenges and requirements; some are very simple and straight forward and others much more complex. Some are small with no on-site staff; others are multi-story and could include the requirement for remote management from anywhere in the world.

BFT have a wide range of hardware and software products which, together with in-house technical consultancy, can provide cost effective solutions to the requirements for most parking revenue situations.

Please contact BFT at the telephone numbers shown at the back of this catalogue and we will be pleased to discuss your individual requirements in more detail.



Aura 30L



Aura Janica



Maya Automatic Cash Machine

## Control units



### 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



### 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



### 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



### 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



### 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



### THALIA D113745 00002

- 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



#### 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



#### 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



#### 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



#### 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



#### 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



#### 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

## Control units



### 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



### 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



### 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



### UNIPOWER D121501

- 12Vdc power supply for Proxima



### PROXIMA P111326

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



### PROXIMA BLUE P111465

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

## Accessories for control units


**CP SD N999369**

Set of cable clamps for SD panel

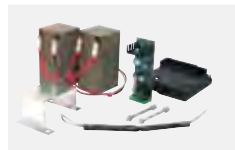

**SFQ N999070**

Set of SD and QSG panel fixing brackets

## 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**

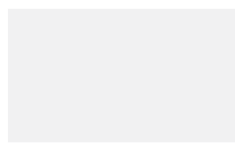
Set of backup batteries for VENERE D


**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



## ME BT D111761

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



## SCS 1 P111376

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



## SCS 1 MA P111377

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



## SCS WIE P111408

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



## SCS IO P125014

Serial Input Output expansion board-Available while stock lasts



## IT23 P111399

Connection interface for CELLULA RFL in accordance with EN12453 Standard



## FLC 8K2 P111400

Interface for connecting one or more 8K2 type edges



## SS D111061

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



## SSR5 D111704

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



## SPL D113050

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



## TLB D113727

Traffic-light management board for LIBRA C LX



## RAU P111449

Wired connection board for BFT plug-in receivers



## SW NET P121015 00001

Interface for connecting standard buttons to FAST NET systems



## B EBA 201 R04 P111469

Expansion board for Blue-Tooth connection



## B EBA 201 R02 P111466

Expansion board for INPUT/OUTPUT



## B EBA 201 R03 P111467

Expansion board for WIEGAND devices connection



## B EBA 201 R01 P111468

Expansion board for serial control central groups connection

## Receivers



### CLONIX 2 2048 D111664

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



### CLONIX 2 D111662

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



### CLONIX 2E D113674 00001

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



### CLONIX 2E 2048 D113674 00003

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



### CLONIX 4 RTE D113718 00002

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



### RTD 2048 D113670 00002

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



### MOP D111713 00001

Accessory for adding an output channel to RTD



### RTD RS N733301 00001

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



### ER 1 P130025

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



### RE D111050

Wired connection board for two BFT plug-in receivers



### AEL 433 D113632

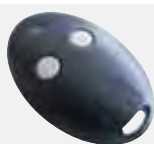
Antenna for 433 Mhz radio remote control with 4 m cable



### 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



## TEO 2 D111362

433mhz Dip Switch two button transmitter (Yellow Button). Available in a 4 button version

## Control devices



### T-BOX P121019

Wireless digital keypad 433 MHz Rolling code



### SEK P121017

External key selector switch with vandal-proof metal frame



### INTRO P121011

Recessed key switch



### SC NET P121014

Key switch for FAST NET systems



### CRC D531097

Coded replacement key. Specify serial number of key to be replaced when making order



### SPC D121611

External button panel with 2 start-stop buttons.



### SPC2 D121612

External button panel with 2 open-close buttons.



### SPC3 D121619

Open stop close button panel.



### SPCE D121613

External button panel with mushroom-head emergency button.



### LCM D121011

Magnetic key reader. For column mounting - see mod. CLC



### RB P121016

4-channel wall-mounted radio control with rolling code



### CLC D731022

Column for magnetic key readers. Height 1 m



### CM D121012

Magnetic key for LCM reader



### 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



### POX-UP N733103 00001

SIBOX two-button panel with indicator light for SIBOX safe, for direct connection to operator



### POX-SC N733103 00002

SIBOX two-button panel with indicator light for SIBOX safe, for connection to control unit



### CSC 50 P903008

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

# 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

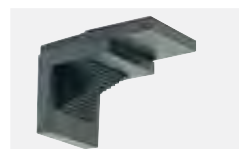
Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8

# Blinkers



## 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 blinker

## Safety devices - Photocells and accessories



### CELLULA 130 P111273

Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc



### PRO 130 P111081

Anodised aluminium vandal-proof guard for CELLULA 130



### CC130 P903005

Pair of aluminium posts for CELLULA 130 photocells



### CC130/2 P903006

Pair of aluminium posts with double fitting for CELLULA 130 photocells



### CSC 130 P903007

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



### PFC1 P903010

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



### CELLULA 50 P111272

Pair of flush adjustable photocells (range 25m - reduced in fog/rain) Power supply 24V ac



### FL NET P111382

Pair of FL NET photocells Dip switch bus addressing



### FL130B P111043 0001

Pair of self-aligning photocells for external application (range 25m - reduced in fog/rain) Power supply 24V ac/dc



### CSC 50 P903008

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



### CC50 P903004

Pair of aluminium posts for CELLULA 50 and CELLULA RFL photocells



### CCI D221573

Recessed container for CELLULA 50 and INTRO.



### CELLULA 180 P111452

Pair of orientable photocells (180°horiz./20°vert.) For external application (range 25m - reduced in fog/rain). Power supply 24V ac/dc



### DCW COVER P111454

Anodised aluminium cover for DCW and CELLULA180



### DCW BAT N999465

Pack of 12 batteries for DCW photocell safety edge



### CC DCW P903016

Pair of aluminium posts and guards for DCW and CELLULA180



### A-CELLULA FLX P111464

Pair of flashing photocells for ALISEO series operators

# Rubber edge


**CM1000 P111050**

Mechanical edge, length 1 m


**CM1500 P111051**

Mechanical edge, length 1.5 m


**CM1700 P111052**

Mechanical edge, length 1.7 m


**CM2000 P111053**

Mechanical edge, length 2 m


**CM3000 P111054**

Mechanical edge, length 3 m


**CM4000 P111055**

Mechanical edge, length 4 m


**CM5000 P111056**

Mechanical edge, length 5 m


**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

# Electric locks


**EBP P123001 00001**

230Vac electric drop lock


**EBP 24 P123001 00013**

24Vac solenoid lock, with 230/24V transformer installable in control panel


**EBPE 52 P123006 00001**

230Vac solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 50 mm


**EBPE 75 P123008 00001**

230Vac solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 75 mm


**ECB DX D121016**

Right-hand horizontal solenoid lock, 12-24V


**ECB SX D121017**

Left-hand horizontal solenoid lock, 12-24V


**ECB VERTICALE D121018**

Vertical solenoid lock, 12-24V

## Non BFT Locks



### ES180

180kg External Mag Lock



### ES400

400kg External Mag Lock



### ES500

500kg External Mag Lock



### PGL600

680kg External Mag Lock



### VS65

Small round hold open External Mag Lock



### CISA

Rotary Hook Dead Lock



### AUTO BOLT

Spring Loaded Drop Bolt non-powered



### E205

Heavy Duty Drop Lock with 50mm drop c/w Transformer



### M315

Extremely Heavy Duty Drop Lock with 150mm drop c/w Control Interface

## Loop Detectors & Cable



### LD100

240v Single Channel Loop Detector



### LD102

24v Single Channel Loop Detector



### LD200

240v Dual Channel Loop Detector



### LD202

24v Dual Channel Loop Detector



### LD 113-2

24v Single Channel Induction Loop Card



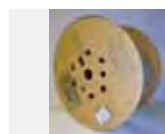
### LD 213-2

24v Dual Channel Induction Loop Card



### LOOPCABLE

100m Roll of Loop Cable



### LOOPCABLE500

500m Roll of Loop Cable



### CT100























230V Vehicle Traffic Counter



### LOOP BASE

11pin Loop Base

## Other Accessories

	<b>ENCLOSURE SMALL</b> 400 X 300 X 150 Steel Enclosure		<b>PSU12V-DC</b> 12v 1A Encapsulated PSU
	<b>ENCLOSURE MEDIUM</b> 500 X 300 X 200 Steel Enclosure		<b>ARD12T</b> 12v DC 1.5A PSU with Timer
	<b>ENCLOSURE LARGE</b> 500 x 400 x 200 Steel Enclosure		<b>ADL</b> Armoured Cable Protector for Door/Gate
	<b>ENCLOSURE X-LARGE</b> 600 X 600 X 250 Steel Enclosure		<b>RELAY09</b> VHLR 9-30v AC/DC Universal Relay
	<b>KEYSWITCH</b> High Quality 2 Position <u>Latching</u> Keyswitch		<b>RELAY08</b> 240v AC Relay (requires 11pin Loop Base)
	<b>PUSHBUTTON</b> IP65 Single Push Button		<b>RELAY 12/RELAY 14</b> 24v 1A Relay for use with BFT 24v control panels c/w plug-in base
	<b>EXT03</b> IP65 3 Button Push Button		<b>RELAY-BASE</b> 4 Pole Relay Base
	<b>GAS CLOSER</b> Gas Closer for Ped Gates		<b>RELAY01</b> 230v-24v Latching Relay
	<b>GAS KEY</b> Gas Closer Adjuster Knob		<b>RELAY03 / RELAY04</b> 24v AC Relay / 230v Relay
	<b>TIMER</b> 24/7 Timer		<b>RELAY00</b> 12v Interface Relay
	<b>DRA18-12</b> 12v DC, 1.5A Power Supply		<b>RELAY05</b> Maglock Delay Relay

# ASO

## RUBBER PROFILES & ENDCAPS



**GE F65**

GE F 65 Profile with clip foot



**EK 65F**

EK 65F endcaps for GE F 65 profile



**GE F45**

GE F 45 Profile with clip foot



**EK 45F**

EK 45F endcaps for GE F 45 profile



**GE245TK**

GE245TK Profile with T foot



**EK245T**

EK245T endcaps for GE245 profile



**GE225TK**

GE225TK Profile with T foot



**EK225T**

EK225T endcaps for GE225TK profile



**SKL15-10**

SKL15-10TK Profile for hinge areas

## ALUMINIUM BACKING



**AL30-10**

Aluminium profile for clip foot



**AL25-14**

Aluminium profile for T foot



**AL15-9**

Aluminium profile for T foot

## RESISTORS & CABLES



**KS 6 W**

KS 6 W connector with 8.2 kOhm resistor



**KS 2 W**

KS 2 W connector with 8.2 kOhm resistor  
(for SKL15-10 ONLY)



**KS 6 L2.5M**

KS 6 L 2.5m connector with 2.5m cable



**KS 2 L**

KS 2 L 0.5m connector with 0.5m cable  
(for SKL15-10 ONLY)



**KS 6 L**

KS 6 L 0.5m connector with 0.5m cable

# ASO

## GATE ELECTRONICS & ASSEMBLY TOOLS



**SCISSOR**  
ASO Profile cutting tool



**PLUGINST**  
Plug insert tool



**GLUESET**  
Glue set ( Large 20ml includes Glue, Activator, Primer)



**INDUS**  
Compact mounting system for sliding gates, includes electronic controller CAT 3



**SK 32-24**  
SK Relay controller, 24V, Dual inputs/ outputs (For swing gates, CAT3)

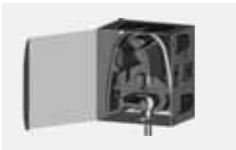
## PLUG 'N' SENSE



**KS8W-45**  
ASO KS8W End cap component kit for GE F45 Profile ONLY. Includes 8.2K resistor Plug with sealant, clip and rubber end cap



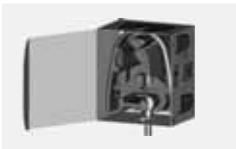
**KS8L2.5M-65**  
ASO KS8W End cap component kit for GE F65 Profile ONLY. Includes 2.5M cable Plug with sealant, clip and rubber end cap



**KS8L0.5M-45**  
ASO KS8W End cap component kit for GE F45 Profile ONLY. Includes 0.5M cable Plug with sealant, clip and rubber end cap



**GE F65**  
GE F 65 Profile with clip foot



**KS8L2.5M-45**  
ASO KS8W End cap component kit for GE F45 Profile ONLY. Includes 2.5M cable Plug with sealant, clip and rubber end cap



**GE F45**  
GE F 45 Profile with clip foot



**KS8W-65**  
ASO KS8W End cap component kit for GE F65 Profile ONLY. Includes 8.2K resistor Plug with sealant, clip and rubber end cap



**AL30-10**  
Aluminium profile for clip foot



**KS8L0.5M-65**  
ASO KS8W End cap component kit for GE F65 Profile ONLY. Includes 0.5M cable Plug with sealant, clip and rubber end cap

## VIDEX Intercom Systems

The Videx items shown below are the most popular everyday intercom systems that we sell. We can offer the full range of multi user and access control systems. Please contact our sales office for further information.

Unfortunately we don't have the space below to show an image of all Videx products. Please do not hesitate to contact us if there is a product that is not shown in this catalogue.

### Audio Intercoms



#### 8000 SERIES AUDIO

Available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



#### 8000 SERIES AUDIO C/W 0-9 KEYPAD

Available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



#### 4000 SERIES AUDIO

Available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



#### 4000 SERIES AUDIO C/W 0-9 KEYPAD

Available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.

### BT Interface Kit



#### 8000 SERIES AUDIO C/W 380 BT INTERFACE MODULE

Available in Surface or Flush.



#### 8000 SERIES AUDIO C/W 0-9 KEYPAD AND 380 BT INTERFACE MODULE

Available in Surface or Flush.

### GSM Audio Intercom Kits



#### 4000 SERIES AUDIO ONLY

Available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



#### 4000 SERIES AUDIO C/W 0-9 KEYPAD

Available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.

**Digital GSM for up to 1000 users is available - please call for details.**

# VIDEX Intercom Systems

## Video Intercom Kits



### 8000 SERIES AUDIO/VIDEO INTERCOM

Available in Black & White or Colour. Also available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



### 8000 SERIES AUDIO/VIDEO C/W 0-9 KEYPAD

Available in Black & White or Colour. Also available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



### 4000 SERIES AUDIO/VIDEO INTERCOM

Available in Black & White or Colour. Also available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.



### 4000 SERIES AUDIO/VIDEO C/W 0-9 KEYPAD

Available in Black & White or Colour. Also available in Surface, Flush, Vandal Resistant Surface and Vandal Resistant Flush.

Attractive looking internal monitors, such as the Eclipse and Kristal, are available.

## Videx Keypads



### 810N

Basic 1 Code Stand Alone Keypad, Surface or Flush Mount available, part Stainless Steel, part Aluminium.



### 800N

2 Code Stand Alone Keypad, Surface or Flush Mount available, full stainless steel - our most popular keypad.



### 900N

60 Code Stand Alone Keypad, Surface or Flush Mount available.



### 4000 SERIES KEYPAD

3 Code Stand Alone Keypad, Surface or Flush Mount available, to match the 4000 range of intercoms (you need to order 1 x 4800 and 1 x 4881).

## Other Intercom Systems



**GM-WT009**

GSM Dial to Open Unit



**GM-SC901AU**

Wireless Intercom Kit, No Keypad



**GM-SC902AU**

Wireless Intercom Kit with 0-9 Keypad



**GM-SC100AU**

Additional Handset for Wireless Intercoms



**ACT 5 KEYPAD**

0-9 Surface Mount Stand Alone Keypad



**KEYPAD - DGA**

DGA Digicode Keypad Module

## Diracom Wireless Intercom Dect Phone system



**DIRACOM-AUDIO-8K**

Videx front end wireless intercom kit, no keypad



**DIRACOM-COMBI-8K**

Videx front end wireless intercom kit, with 0-9 keypad



**DIRACOM-TX**

Diracom Aerial and Power Supply



**DIRACOM-REPEATER**

Diracom Repeater



**DRHS**

Additional cordless telephone & charging base

## Combi Arialdo Gate Hardware

Our Combi Arialdo range of gate hardware has been very successful and is increasing in popularity. Our range and stock levels of these products are always expanding - here is just a brief selection of the gate hardware available.

Unfortunately, we don't have the space to show an image of all products. Please do not hesitate to contact us if there is a product that is not shown below.

### Cantilever Products

	<b>395-S</b> Cantilever Gate Carriage Small <i>maximum opening 7m, maximum gate weight 800kg</i>		<b>399Z6-M</b> 6m Cantilever Gate Track Medium
	<b>395-M</b> Cantilever Gate Carriage Medium <i>maximum opening 10m, maximum gate weight 1000kg</i>		<b>399Z6-L</b> 6m Cantilever Gate Track Large
	<b>395-L</b> Cantilever Gate Carriage Large <i>maximum opening 14m, maximum gate weight 1500kg</i>		<b>399M-6</b> 6m Cantilever Gate Track, Medium, Plain Steel
	<b>9999-M</b> 9 Wheel Cantilever Gate Carriage Medium <i>maximum opening 15m, maximum gate weight 1900kg</i>		<b>399L-6</b> 6m Cantilever Gate Track, Large, Plain Steel
	<b>9999-L</b> 9 Wheel Cantilever Gate Carriage Large <i>maximum opening 22m, maximum gate weight 3050kg</i>		<b>397-S</b> End Stop Small
	<b>399Z3-S</b> 3m Cantilever Gate Track Small		<b>397-M</b> End Stop Medium
	<b>399Z3-M</b> 3m Cantilever Gate Track Medium		<b>397-L</b> End Stop Large
	<b>399Z3-L</b> 3m Cantilever Gate Track Large		<b>396-S</b> Support Wheel Small
	<b>399Z6-S</b> 6m Cantilever Gate Track Small		<b>396-M</b> Support Wheel Medium

# Combi Arialdo Gate Hardware



**396-L**

Support Wheel Large



**470-S**

Cantilever Track Guide Rollers Small



**396R-S**

Small End Guide without Wheel, Small



**470-M**

Cantilever Track Guide Rollers Medium



**396R-M**

Small End Guide without Wheel, Small



**470-L**

Cantilever Track Guide Rollers Large



**396R-L**

Small End Guide without Wheel, Small



**472**

Tension Bar for Cantilever Gates

## Track & Wheel



**900**

Concrete-In Ground Track



**902**

Surface Ground Track



**901**

Joining Pin for 900 & 902 Track



**410**

Wheel with outside support, round groove - 80mm and 100mm



**430-90**

90mm O Groove Wheel 2 Bearings



**430-100**

100mm O Groove Wheel 2 Bearings



**430-120**

120mm O Groove Wheel 2 Bearings



**430-140**

140mm O Groove Wheel 2 Bearings



**430-160**

160mm O Groove Wheel 2 Bearing









**431-120**

90mm & 120mm **V** Groove Wheel 2 Bearings

# Combi Arialdo Gate Hardware

## Guide Rollers

	<b>448</b> 30x35mm Convex Nylon Roller		<b>450-25X30</b> 25mm Nylon Guide Roller
	<b>450-30X40</b> 30mm Nylon Guide Roller		<b>450-40X45</b> 40mm Nylon Guide Roller
	<b>450-40X60</b> 40mm Nylon Guide Roller		<b>450-40X60SKH</b> 40mm Nylon Guide Roller c/w Finger Trap Protection Cover

## Gate Stops














	<b>380</b> Embedded Swing Gate Stop		<b>380F</b> Surface Mount Seing Gate Stop
	<b>381S</b> 90mm High Weld On Gate Stop		<b>382S</b> Small Sliding Gate Stop
	<b>382L</b> Large Sliding Gate Stop		<b>383</b> Large Sliding Gate Stop, Track Mounted

## Adjustable Upper Guides

	<b>462-S</b> Small Upper Guide c/w 4 Rollers		<b>462-M</b> Medium Upper Guide c/w 4 Rollers
	<b>462-L</b> Large Upper Guide c/w 4 Rollers		

# Combi Arialdo Gate Hardware

## Gate Hinges

	<b>375-M18</b> 18mm Adjustable U Bolt Hinge		<b>375-M20</b> 20mm Adjustable U Bolt Hinge
	<b>375-M24</b> 24mm Adjustable U Bolt Hinge		<b>379-M20</b> 20mm Long U Bolt Hinge
	<b>379-M24</b> 24mm Long U Bolt Hinge		<b>845TUB</b> Adjustable Self Assembly Clamp Hinge with nut and washer - 40mm and 50mm
	<b>848TUB</b> Adjustable Self Assembly Clamp Hinge with plate - 30mm, 40mm and 50mm		<b>850-M18</b> 18mm Adjustable Clamp Hinge
	<b>850-M22</b> 22mm Adjustable Clamp Hinge		<b>850-M27</b> 27mm Adjustable Clamp Hinge
	<b>860S-M18</b> 18mm Adjustable Plate		<b>860S-M20</b> 20mm Adjustable Plate
	<b>860S-M22</b> 22mm Adjustable Plate		<b>860S-M24</b> 24mm Adjustable Plate




















## Post Caps

	Square Zinc Post Caps - 20mm, 30mm, 40mm, 50mm, 60mm, 80mm, 100mm, 120mm, 150mm, 175mm and 200mm. We also carry the 80mm and 100mm in stainless steel.
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## Other Items

	<b>811</b> Screw On Rack Fixing
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# SEAV

	<b>BE-HAPPY-RS1</b> Be Happy RS 1 Transmitter - 433mhz		<b>BE-HAPPY-RS2</b> Be Happy RS 2 Transmitter - 433mhz
	<b>BE-HAPPY-RS3</b> Be Happy RS 3 Transmitter - 433mhz		<b>BE-HAPPY-S1</b> Be Happy S1 Transmitter - 433mhz
	<b>BE-HAPPY-S2</b> Be Happy S2 Transmitter - 433mhz		<b>BE-HAPPY-S3</b> Be Happy S3 Transmitter - 433mhz
	<b>BESAFE-CARD</b> Proximity Card		<b>BESAFE-KEY-FOB</b> Proximity Key Fob
	<b>BESAFE-READER</b> Proximity Reader		<b>BESAFE-RX</b> BeSafe RX Controller
	<b>PCELL-2208</b> IR/IT 2208 Wireless Photocells		<b>LRS-2166</b> LRS 2166 433mhz Control Panel
	<b>RES-2224-RX</b> RES 2175 2 - Channel 433mhz REC/ANT (120)		<b>PCELL-940</b> IR/IT 940 Long Range Photocells
	<b>TXS-1</b> TXS1 433mhz Transmitter		<b>TXS-2</b> TXS2 433mhz Transmitter
	<b>TXS-3</b> TXS3 433mhz Transmitter		<b>TXS-4</b> TXS4 433mhz Transmitter
	<b>TXS-ESA</b> TXS ESA 433mhz Transmitter		

## TERMS & CONDITIONS OF SALE

Please do not hesitate to contact us should you require a copy of our Terms & Conditions of Sale

## **Bft Spa**

Via Lago di Vico, 44  
36015 Schio (VI) / Italy  
Tel: +39 0445 696511  
Fax: +39 0445 696522

**[www.bft.it](http://www.bft.it)**

### **SPAIN**

**BFT GROUP ITALIBERICA DE AUTOMATISMOS S.L.**  
08401 Granollers - (Barcelona)  
[www.bftautomatismos.com](http://www.bftautomatismos.com)

### **FRANCE**

**AUTOMATISMES BFT FRANCE**  
69800 Saint Priest  
[www.bft-france.com](http://www.bft-france.com)

### **GERMANY**

**BFT TORANTRIEBSSYSTEME Gmb H**  
90522 Oberasbach  
[www.bft-torantriebe.de](http://www.bft-torantriebe.de)

### **BENELUX**

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1400 Nivelles  
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[www.bft-usa.com](http://www.bft-usa.com)

### **CHINA**

**BFT CHINA**  
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[www.bft-china.cn](http://www.bft-china.cn)

### **DUBAI**

**BFT GULF**  
Jebel Ali Free Zone

## **Bft Automation UK Ltd (North)**

Unit 8E, Newby Road Industrial Estate  
Hazel Grove, Stockport, Cheshire, SK7 5DA  
Tel: 0161 456 0456  
Fax: 0161 456 9090

**[www.bft.co.uk](http://www.bft.co.uk)**

## **Bft Automation UK Ltd (South)**

Unit B, Aerial Business Park  
Membury, Berkshire, RG17 7RZ  
Tel: 0800 32 88 198  
Fax: 0800 32 88 298

**[www.bft.co.uk](http://www.bft.co.uk)**

## **Bft Ireland**

Unit 1, Naas Road Business Park  
Muirfield Drive, Dublin 12  
Tel: 01 4564711  
Fax: 01 4508337

**[www.bftautomation.ie](http://www.bftautomation.ie)**