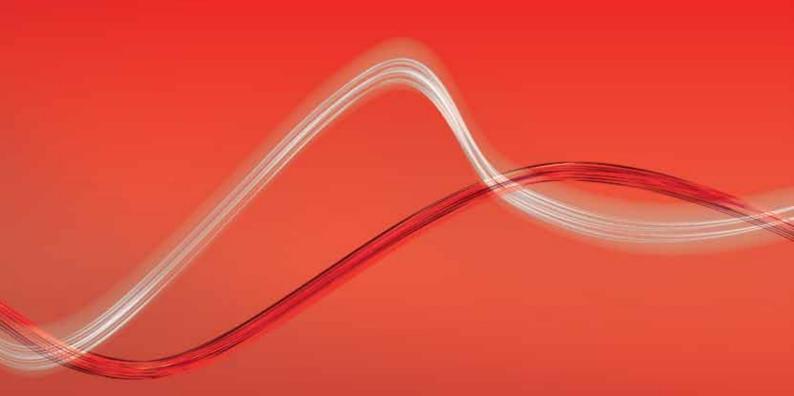
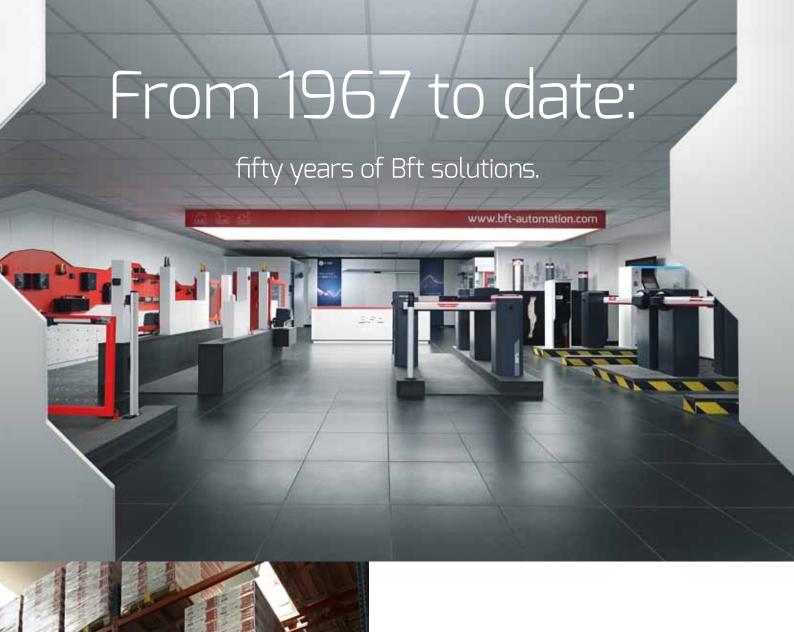
Catalogue 2019/2020







Our history is a story of creativity; originally the vision of one person, today we are an international company recognised across the world for our intelligent solutions and the reliability of our products.

Joining the Somfy Group in 2004 our company continues to evolve with greater resources, people and increased authority in the international market.

Over the years, whilst developing ever more efficient sliding and swing gate automation technology, the staff at Bft have successfully focused their efforts on creating new solutions for parking systems and access control.

Our 530 distributors and 24 branches in more than 120 countries prove that we know how to stand out and our everyday activities are still inspired by the same curiosity about the future that awaits us.



A place for everyone.

We have launched two specific business units where we develop and market access automation: Residential & Industrial, for businesses and private dwellings, and Commercial & Urban, where we handle infrastructure for large communities, typically with high numbers of visitors and vehicles, which require road barriers,

bollards and automatic doors.

In both situations, we satisfy the demands of customers, who are seeking a trusted and competent partner able to develop intelligent and technologically advanced systems which are simple and intuitive in everyday use.





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ANIE MUB 11723 00002 SASA ZAMP SIST SFOND. ANTE Z MOB + Z FX ANTE Z MOB + Z A Z M ANTE Z MOB + Z A Z M ANTE Z	P111722 00002		123	P120036 00003		151
P11724 00002 SASA STAFE PER POTOC. P11724 00002 SASA STAFE PER POTOC. P11725 00002 SASA PTA SE PROCEPHOTI. P11725 000020 SASA PTA SE PROCEPHOTI. P11725 000	. 111722 00002		123	P120036 00004		152
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P115010 00004 BIN120 CATENA 2X 1750 95 P120084 00000 OMEGA PS MAXIMA U36 149 P115015 00001 BIN B GDA 3020 CAT 91 P120085 BTM-SKIRT 149 P115015 00002 BIN B GDA 3CZ CAT 91 P120085 BTM-SKIRT 149 P115015 00002 BIN B GDA 2X1510 CAT 91 P120087 00001 BOOM P530 148 P115020 00001 BIN CATENA 2500 SINT 95 P120087 00002 BIN CATENA 3500 SINT 95 P120087 00004 BOOM P560 149 P115020 00001 BIN CATENA 2X1750 SINT 95 P120087 00004 BOOM P560 149 P115020 00002 BIN CATENA 2X1750 SINT 95 P120088 DIMA PRO36 148 P115020 00002 BIN CINGHIA 2X1450 PIG 95 P120089 00002 LIGHT P5 40 149 P120089 00002 LIGHT P5 40 149 P120089 00002 LIGHT P5 60 149 P120089 000002 LIGHT P5 60				P120081	MLC11	
P115015 00001 BIN B GDA 3020 CAT 91 P115015 00002 BIN B GDA 3620 CAT 91 P115015 00003 BIN B GDA 2XI510 CAT 91 P115015 00004 BIN B GDA 2XI510 CAT 91 P115015 00004 BIN B GDA 2XI510 CAT 91 P115020 00001 BIN CATENA 2900 SINT 95 P115021 00002 BIN CATENA 2500 SINT 95 P115022 00001 BIN CATENA 2500 SINT 95 P115022 00002 BIN CATENA 2500 SINT 95 P115022 00002 BIN CATENA 2500 SINT 95 P115022 00001 BIN CATENA 2500 SINT 95 P115022 00002 BIN CATENA 2500 SINT 95 P115022 00001 BIN CINGHIA 2500 PIG FE 95 P115023 00001 BIN CINGHIA 2500 PIG FE 95 P115023 00002 BIN CINGHIA 25105 PIG FE 95 P115024 00002 BIN CINGHIA 2X1450 PIG FE 95 P115026 00004 BIN B GDA 3620 BELT 91 P115026 00004 BIN B GDA 2X1510 CINGHIA 91 P115025 00004 BIN B GDA 2X1510 CINGHIA 91 P115035 00001 BIN 1250 2X1450 CATENA 93 P115035 00002 BIN 650-850 CATENA 93 P115036 00004 BIN 650-850 CATENA 93 P115036 00006 BIN 650-850 CATENA 93 P115036 00006 BIN 650-850 CATENA 93 P115036 00007 BIN 650-850 CATENA 93 P115036 00008 BIN 650-850 CATENA 93 P115036 00000 BIN 650-850 CATENA 93 P115030 00000 BIN 650-850 CATENA 93 P115					ALLU2 MAXIMA	155
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P115022 00001 BIN CINGHIA 2900 PIG FE 95 P120089 00001 LIGHT P5 30 149 P115023 00001 BIN CINGHIA 2500 PIG FE 95 P120089 00002 LIGHT P5 40 149 P115023 00002 BIN CINGHIA 2X1750 PIG FE 95 P120089 00003 LIGHT P5 50 149 P115026 00001 BIN B GDA 3020 BELT 91 P120092 00001 HYPHEN P5 149 P120092 00002 BIN B GDA 3620 BELT 91 P120092 00001 ART90 BOOM P530 149 P120092 00001 ART90 BOOM P530 149 P120092 00002 ART90 BOOM P530 149 P120092 00002 ART90 BOOM P530 149 P120092 00003 ART90 BOOM P530 149 P120092 000003 ART90 BOOM P550 149 P120092 ART90 BOOM P					BOOM PS60	149
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P115023 00002 BIN CINGHIA 2X175D PIG FE 95 P115026 00001 BIN B GDA 3020 BELT 91 P115026 00002 BIN B GDA 3020 BELT 91 P115026 00003 BIN B GDA 2X1810 CINGHIA 91 P115026 00004 BIN B GDA 2X1810 CINGHIA 91 P115029 BRTS 93 P115035 00001 BIN 1250-2900 CATENA 93 P115035 00002 BIN 1250 2X1750 CATENA 93 P115035 00004 BIN 1250 2X1750 CATENA 93 P115036 00004 BIN 650-850 CATENA 290 P115036 00004 BIN 650-850 CATENA 290 P115036 00004 BIN 650-850 CATENA 290 P115036 00006 BIN 650-850 CATENA 290 P115036 00007 BIN 650-850 CATENA 290 P115036 00008 BIN 650-850 CATENA 290 P115037 00008 BIN 650-850 CINGHIA 290 P11503	P115022 00002		95			149
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P115026 00001 BIN B GDA 3020 BELT 91 P120092 00001 ART90 BOOM P530 149 P115026 00002 BIN B GDA 2X1510 CINGHIA 91 P120092 00001 ART90 BOOM P530 149 P120092 00002 ART90 BOOM P530 149 P120092 00003 ART90 BOOM P530 149 P120092 00003 ART90 BOOM P530 149 P120092 00003 ART90 BOOM P550 149 P120093 00004 ART90 BOOM P530			QF			149
P115026 00002 BIN B GDA 3620 BELT 91 P120092 00001 ART90 BOOM P530 149 P115026 00004 BIN B GDA 2XIBID CINGHIA 91 P120092 00002 ART90 BOOM P530 R/G 149 P115029 BRTS 93 P120092 00003 ART90 BOOM P550 R/G 149 P115035 00001 BIN 1250-2900 CATENA 93 P120092 00004 ART90 BOOM P550 R/G 149 P120092 00003 ART90 BOOM P550 R/G 149 P120093 ADJ-F00T 149 P120093 ADJ-F00T 149 P120095 BRACKET SKIRT 149 P120095 BRA						149
P115026 00003 BIN B GDA 2X1510 CINGHIA 91 P120092 00002 ART90 BOOM P530 R/G 149 P115029 BRTS 93 P120092 00003 ART90 BOOM P550 R/G 149 P115035 00001 BIN 1250-2900 CATENA 93 P120092 00003 ART90 BOOM P550 R/G 149 P120092 00003 ART90 BOOM P550 R/G 149 P120092 00004 ART90 BOOM P530 R/G 149 P120092 0004 ART90 BOOM P530 R/G 149 P120092 00004 ART90 BOOM P530 R/G 149 P120092 00004 ART90 BOOM P530 R/G 1						
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P115036 00004 BIN 650-B50 CATENA 234 P115036 00005 BIN 650-B50 CATENA 271750 93 P115037 00001 BIN 650-B50 CINGHIA 2900 93	P115026 00003 P115026 00004 P115029 P115035 00001 P115035 00002 P115035 00003 P115035 00004	BIN B GDA 2X1810 CINGHIA BRTS BIN 1250-2900 CATENA BIN 1250-3500 CATENA BIN 1250 2X1450 CATENA BIN 1250 2X1750 CATENA	93 93 93 93	P120095 P121022 P121023	BRACKET SKIRT Q.BO KEY WM Q.BO KEY WM AV	149 230 230
P115036 00004 2X1450 P123001 00001 EBP 234	P115026 00003 P115026 00004 P115029 P115035 00001 P115035 00002 P115035 00003 P115035 00004 P115036 00001	BIN B GDA 2X1810 CINGHIA BRTS BIN 1250-2900 CATENA BIN 1250-3500 CATENA BIN 1250 2X1450 CATENA BIN 1250 2X1750 CATENA BIN 650-850 CATENA 2900	93 93 93 93 93	P120095 P121022 P121023 P121024	BRACKET SKIRT Q.BO KEY WM Q.BO KEY WM AV Q.BO TOUCH	149 230 230 229
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2X1750 95 P115037 00001 BIN 650-850 CINGHIA 2900 93 P12001 00013 EBP 24 234	P115026 00003 P115026 00004 P115029 P115035 00001 P115035 00002 P115035 00003 P115035 00004 P115036 00001 P115036 000002	BIN B GDA 2X1810 CINGHIA BRTS BIN 1250-2900 CATENA BIN 1250-3500 CATENA BIN 1250 2X1450 CATENA BIN 1250 2X1750 CATENA BIN 650-850 CATENA 2900 BIN 650-850 CATENA 3500 BIN 650-850 CATENA	93 93 93 93 93 93	P120095 P121022 P121023 P121024 P121025 P121028	BRACKET SKIRT Q.BO KEY WM Q.BO KEY WM AV Q.BO TOUCH Q.BO PAD MIME PAD	149 230 230 229 204 104
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What is U-Link?

The innovative technology that gives you new power

An exclusive Bft innovation: U-Link (Universal Link) is an exclusive Bft platform that allows the creation of technological ecosystems. In Home Automation Access, it allows communication with all the home access automation devices of any brand. So you save time and can control everything with ease, without any worries.

It is intuitive

Easy to install and use

It is scalable

Allows an unlimited number of devices to be added

It is flexible

Allows the creation of groups of interconnected products

It is practical Works with or without a web connection

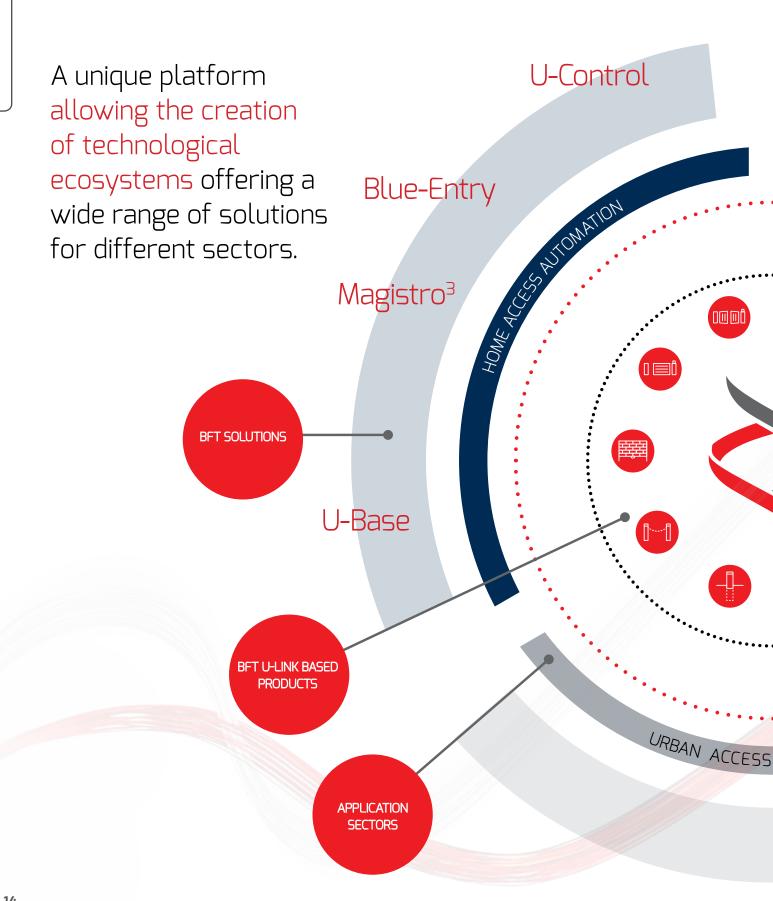
It is functional

Parameters can be controlled remotely via dedicated applications

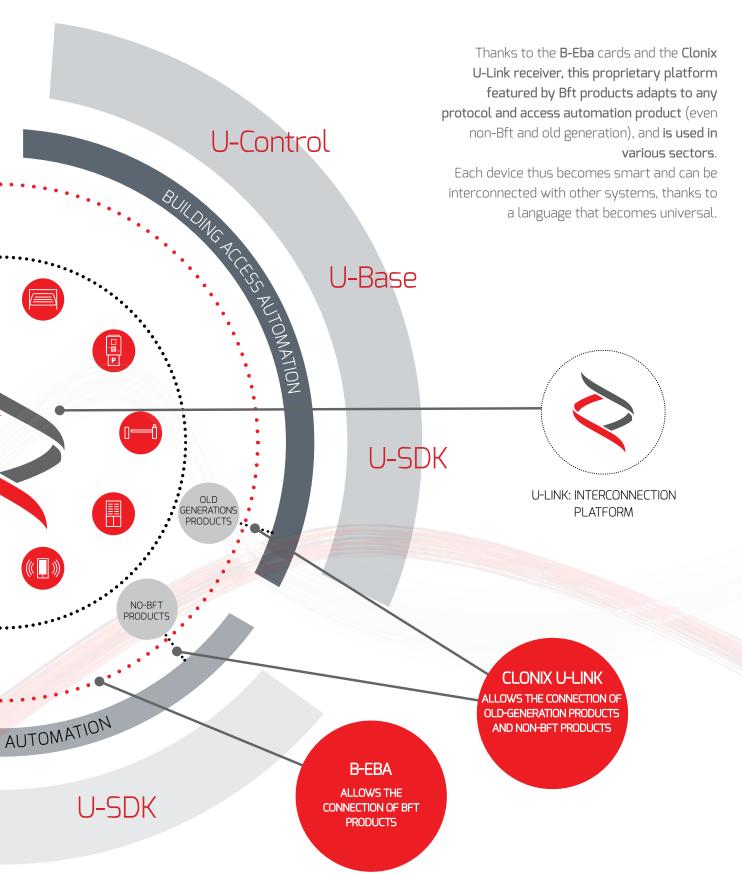




All in



one scheme: discover this amazing technology





BFT interconnectivity technology

This platform, which is exclusive to Bft, consists of the B-EBA expansion board and the Clonix U-Link receiver.

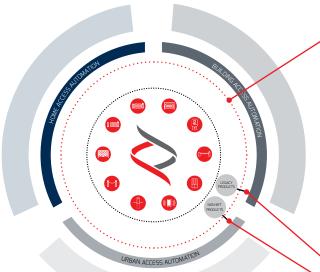
These two products enable U-Link to be connected to both BFT and non-BFT operators.



A direct link to your operators.

The B-EBA expansion boards make it possible to connect external devices such as PCs, smartphones and tablets with a BFT operator and with a Clonix receiver or to connect

multiple BFT products within a U-Link network. These accessories integrate with U-Link technology and with Bluetooth, Z-Wave and TCP/IP, protocols as well as with the RS485 serial interface.



Clonix U-Link

Connect legacy products and non-BFT products to U-Link.

Clonix receivers make it possible to connect older generation BFT operators or even non-BFT products to U-Link.

The U-Link system is a universal platform which allows you to create technological ecosystems by connecting BFT products to your smartphone or tablet through the B-EBA expansion board.

The Clonix receiver allows LI-Link to be integrated.

The Clonix receiver allows U-Link to be integrated with any type of operator, whether they are BFT or non-BFT. These two innovations make U-Link suitable in almost any configuration, solution or requirement – a truly limitless platform.

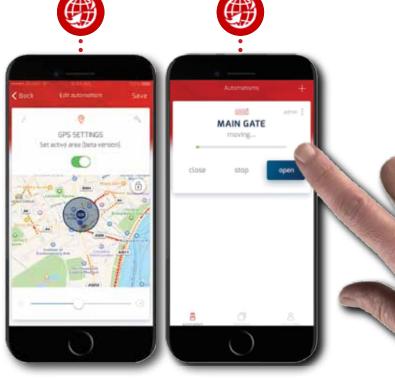
U-Control

U-Control is the new application from BFT which allows you to control one or more compatible U-Link devices which have the B-EBA Wi-Fi expansion board.





- Via an internet connection, the user can open/close/ stop an automated process directly from a smartphone or tablet (Android or iOS) and check on its status (open/ closed) in real time from any location.
- Control access from from almost anywhere for example, open or close your gates to allow access to a gardener who needs to mow the lawn while you are away.
- The GPS function, the iOS version allows you to initiate your automation processes automatically whenever your smartphone is in the vicinity
- Scenario management enables you to open or close your home's automation with a single click.
- Share functionality easily with other users. Once the app and the B-EBA Wi-Fi system have been installed and configured, you can authorise other users to control your installations simply by sharing a unique self-installing link with them.



Discover U-Control:



Watch the product video:



Watch the installation video:





With **Bft Easy Set** the installation of an automation system for swing gates has never been easier!



Thanks to the exclusive "Bft Easy Set" app, with a few simple steps, you can automatically obtain the installation dimensions of the brackets for the swing gate operators.

The application allows you to choose the opening angle of the gate according to the position of the brackets.

Available soon for your Android or iOS smartphone!



1. Choose your operator for swing gates



2. Enter the basic measurements of the gate and the desired opening angle



3. The App automatically calculates the position dimensions of the brackets



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.





A single communication platform for all types of control units and receivers. The innovative interconnectivity systems developed by Bft along with wireless connection solutions in the field of access point automation become integrated through the new U-link system communication protocol. A technology designed and developed to operate using specific gateways for any type of physical media and communication protocol. To fully facilitate installers in creating the system and in maintenance, Bft can offer solutions based on Bluetooth transmission systems in local and TCP/IP environments for remote connection. U-Link ensures an absolutely stable standard, correct communication, as well as secure data protection thanks to two levels of encryption, offered by the data encryption system and password of the protocol and by the underlying communication system. - U-Link is a technological platform that forms the heart of Bft products - U-link uses an open approach: by changing the B-Eba, Bft proprietary gateway, it is possible to adapt to many different communication languages - U-link is flexible: it can work with or without a network connection, depending on the B-Eba gateway installed - U-Link enables remote maintenance of the products thanks to two-way communication - U-link is scalable: an infinite number of objects can be added to a U-link network - U-Link allows the creation of groups of products: various B-Ebas can be grouped to allow individual or group control of the associated products U-link is an innovation that turns products into Bft solutions.

Dynamic Path Tracking



The thrust required to operate safely. A smart torque management system based on the microprocessor technology of BFT control units. Acquiring data from several indicators, it updates the level of thrust required to perform the operation. D-Track also facilitates the installer in providing for the certifications required by law. Conventional control units do not "read" the exact position of the gate and consequently apply constant thrust levels, without ensuring stable sensitivity during the opening and closing operations. BFT control devices record the slightest variation in the gate or door force, for example due to differences in temperature or wear, constantly supplying the optimum torque to the motor. A conventional control unit could not 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.

Nf Certification



Quality certification. Products with NF certification are periodically checked by independent auditing firms responsible for verifying the quality of each article. The verification criteria vary depending on the product and also include analysis of the different production sites. By purchasing an NF certified product you are assured that it meets the current standards and has undergone stringent compliance tests.

Er - Ready



The new coding system for direct cloning of remote controls Based on microprocessor technology, this system allows the cloning of any MITTO remote control in a MITTO REPLAY remote control. In fact, the first remote control "teaches" the second one the correct code which is automatically saved in the receiver the first time it is used. Everything occurs at the highest levels of security thanks to the use of the Rolling Code safe transmission system.





24V

A precise, safe and reliable technology Bft 24V technology ensures optimum performance with a precise adjustment of slowdown in closing and opening. Safety is another key aspect, ensuring the immediate stopping and reversal of movement in the presence of obstacles. The efficiency of the technology is a guarantee of the product's reliability.



Ecosol

A system powered by solar energy and suitable for all low-voltage installations. Ecosol is not just a technology attentive to the environment, but also a practical solution for doors and gates that are hard to reach from the mains power supply. Thanks to compatibility with all new and old 24V systems, it can be installed in any situation. Ecosol, a clean, renewable and endless charge.



Rolling Code

For safe transmission. 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.



Inverter

Motor rotation constantly under control The inverter is an electronic device allowing motor rotation speed to be controlled at any moment, ensuring safety and reliability of the installation, and even extending its life. This is because the inverter reduces the stresses on mechanical parts, subjecting them to less stress. The system also allows management of automation opening and closing times.



Reduction Unit In Oil Bath

The device included in a specific range of Bft barriers, offering great durability in being maintenance free; it ensures extreme quietness and irreversibility of movement.





Crank Handle System

Together with irreversibility of the reduction unit, this device included in a specific range Bft barriers provides intrinsic anti-vandal protection, preventing unauthorised opening of the gate.



Inductive Encoder

A contactless high-resolution device for detecting obstacles. It ensures rapid reversing of motion and improves smoothness of overall movement during acceleration and slowdown.



Three-Phase Induction Motor

This device, included in a specific range of Bft barriers, allows the motor to be maintenance-free and offers extreme reliability and quietness. It can also be used in hazardous areas, as it does not produce sparks.



Easily Accessed Hydraulic Pump

This solution, included in the range of Bft hydraulic bollards, allows quick maintenance without the use of a shaft lifting crane.



Certification Iwa 14-1:2103 V/7200 (N3C)/80/90

Anti-terrorism certification The X-Pass B 330/1200 bollard has obtained Iwa certification, classifying it as an anti-terrorism device. In the crash test, one of these bollards stopped a 7,200 kg heavy vehicle travelling at a speed of 80 kph. A perfect solution to protect sensitive buildings, such as barracks, banks and embassies, from intrusion by potentially dangerous vehicles. The test was carried out by the English company Mira, specialised in innovations in the world of engineering and product testing.





Efo

A device applicable to hydraulic bollards, allowing rapid rising of the shaft (about 3 times faster than the standard speeds), essential in case of emergency. The device consists of a high pressure reservoir which, when activated, gives the hydraulic pump additional thrust. Once used, the system is automatically reinstated, without requiring maintenance.



Ee Link

For fast and safe programming. EELINK is a 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. Thus EEdbase or U-base, the databases of the information stored in the installed systems, are constantly updated. Thanks to this software it possible to associate the necessary personal details with each system: owner's address and details, name of maintenance technician, names of every remote control holder, etc. With EElink, just press a few buttons to easily manage the customer base or preventive maintenance. Even operations that were once complex become easier: for example, reconfiguring the control unit or the radio receiver in case of replacement or the setup of a control panel, starting from a standard or custom configuration.



Inverter With Three-Phase Induction Motor

Allows precise control and management of bar/boom speed in a specific range of Bft barriers and also provides excellent dynamic performance in acceleration and slowdown, ensuring extreme quietness.



Automatic System For Communication With Operator

ERMES is the hardware and software system allowing automatic management of notification of alarms and events detected by a Sacs parking system, to mobile phones or email addresses.



Reading Of Passive Tag On Windscreen

Aura Tuva is a medium range UHF passive tag reading system that can be integrated in a parking system. The Tuva antenna, installed near the entry and exit posts, allows motorists with special adhesive tags on their windscreens to enter and exit the car park quickly, without having to show anything at the post.





Car Number-Plate Reading

Aura NEA is a vehicle number-plate reading system that can be integrated in parking systems. The camera, installed near the entry and exit posts, allows vehicles with registered number-plate to enter and exit the car park quickly, without having to show anything at the post. The use of the plate does not require specific physical supports, thereby offering maximum flexibility.

Silentech

Silentech

"Silentech", the Bft technology able to offer a range of products that are among the quietest on the market, thanks to careful and constant research on the internal mechanical parts of our motors.

Legend of uses

Legend of applications for BFT products



Home Access Automation

Full Access Specialist: that's what we have become, starting from automation in the residential context, a traditional area for Bft, which can count on 30 years of technological innovations.



Building Access Automation

A range focused on providing the control and protection of points of access to public and private structures.



ACCESS AUTOMATION

Urban Access Automation

Advanced parking systems, barriers and bollards integrated through the use of software dedicated to Urban Traffic Management: this is the result of the most innovative research made in Bft.

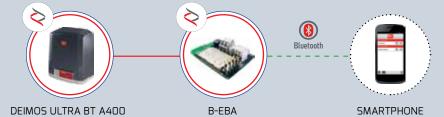
Some solutions of the Home Access Automation, Building



≣Ů

The remote control for sliding operators with U-link? A smartphone.

Technology abreast of the times and attentive to the use of U-link the house gate can now be opened with just your smartphone.





Interconnectivity on hand for U-link operators.

With the Magistro system every device can be controlled via PC, tablet or smartphone, from inside the home and remotely.





The remote control for non-Bft operators? A smartphone.

Technology abreast of the times and attentive to daily needs: thanks to the use of U-link technology the house gate can now be opened with just your smartphone.



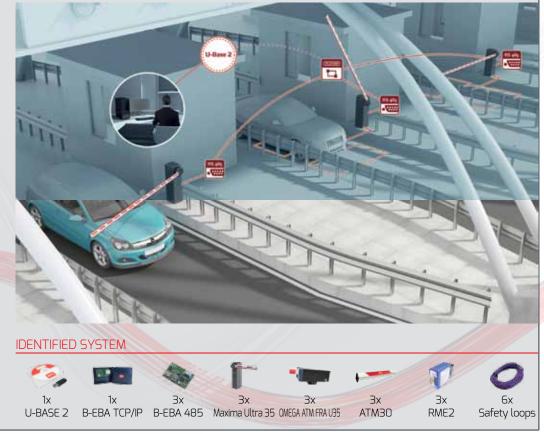
Motorway toll-gate - A boom that withstands impacts

Faults in the barriers are often due to accidental impacts against the boom. Hence the Bft solution that withstands impacts and quickly returns operational.

Thanks to the hinged boom release mechanism, the barrier minimises damage to the device in case of impact, thus allowing rapid reinstatement of the automation. The entire toll-gate barrier system is controlled remotely from a single computer with the U-BASE 2 software which allows prompt and precise diagnostics of the barriers included in the U-Link network.



- The boom will not damaged in case of impact
- Quickly resettable system
- Centralised remote control
- Barrier diagnostics



Access Automation and Urban Access Automation worlds.

U-Base 2 - Program a system remotely via a mobile device.

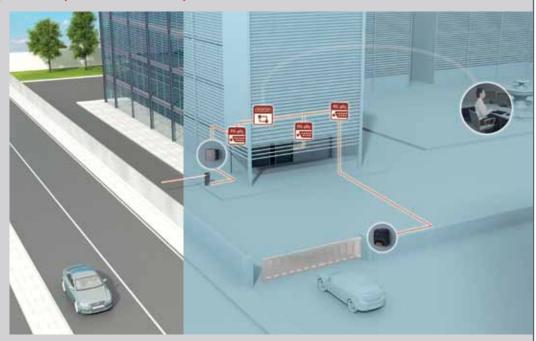
Programming and checking the proper operation of a system remotely with several operators via a mobile device? Thanks to U-Base 2 software everything is possible.

The B EBA TCP/IP GATEWAY interface connects the mobile device hosting U-Base 2 via the Internet, for the programming and management of all aspects of the Bft operators in a system, connected in series via an RS 485, and using U-link technology. It connects to the operators via B EBA 485 LINK modules.

The Clonix AC 2 E U-link accessory can be used if intending to control operators that are not U-link compatible. The speed and transmission stability combined with maximum safety in sending and receiving commands are the main advantages of this solution.

✓ ADVANTAGES

- Transmission speed and stability.
- Maximum security in the transmission of commands.
- Sending commands, status checking, diagnosis, programming, remote troubleshooting.



IDENTIFIED SYSTEM



U-BASE 2 FOR PC













BARRIER

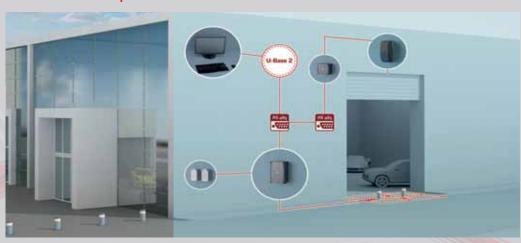
VISTA SL C

Centralised control of workshop access

With the new Clonix ULink, any automation device can easily be included in a serial network with 485 connection, controlled from a PC and U-Base software.

In this way, access to the dealer's workshop is easily managed from a centralised station, controlling both the opening of sectional doors and the bollards protecting the entry, even in case of a power failure. The system allows diagnostics of compatible U-link products included in the U-link network.

- ✓ ADVANTAGES
- Bollards non-reversible in case
- of a power failure
- Centralised access management
- Control of any automation device via clonix U-Link



IDENTIFIED SYSTEM



UBASE2



ARGO G







Gateway







219/700 L





CRF







visit <u>www.bft-automation.com</u> for more information about Home, Building and Urban catalogs



U-CONTROL



U-CONTROL

Application for the remote management and control of a U-Link device. The device connects to the home wifi network using B-EBA wifi. The application can handle up to 6 users per B-EBA (administrator user + 5 guests).

ATHOS AC A



ATHOS AC AThanks to its structure composed by die-cast aluminum shells and high end materials, such as the worm gear and the bronze crown, the Athos motor range guarantees the maximum strength, reliability and lifespan. Quick to be installed, Athos lets the maximum comfort, thanks to its high speed in opening and closing coupled to its silent operation. The motor is irreversible; the emergency opening is always easy thanks to the triangular key locking system.

ICARO ULTRA AC A



230V sliding gate operators for very intensive use, extremely sturdy and high-performance thanks to oil bath transmission. Control of torque via D-track technology and absolute encoder for maximum precision of movement. Control unit arranged for communication with U-link protocol and with tamperproof function. The control unit ensures complete safety thanks to the exclusive torque control system that makes these operators comply fully with the current European standards.

VIRGO SMART BT A



VIRGO SMART BT A

Electromechanical operator with articulated arm for residential use, for swing gate leaves of up to 2 metres and 200 kg. Ideal for any installation requirements, makes it easy to solve problems linked to large pillars thanks to the lever system. Operator-integrated control unit, limit switch and mechanical

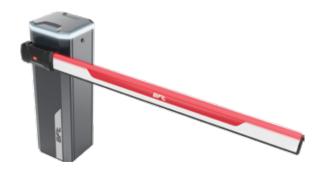
BOTTICELLI SMART BT A



BOTTICELLI SMART BT A

Electromechanical operators for intensive/very intensive use, designed for the automation of sectional garage doors. Suitable for installation in any context, thanks to the wide choice of chain rails available in the various lengths. The control unit and limit switch with encoder with mechanical stop are incorporated in the operator and rail respectively.

MAXIMA ULTRA 36



Range of 230V professional electro-mechanical barriers with inverter and asynchronous three-phase motor for frequent use. Possibility of managing 2 to 6 metre passages with fully accessorized rod in a single model. Cap with RGB lights (optional) to serve as traffic light, indicate availability of parking places and for self-diagnosis.



ALCOR AC A



ALCOR AC ADip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.

RIGEL 6 220-230V 50/60HZ



RIGEL 6 220-230V 50/60HZ Universal control panel with display for one or two 230V - 650+650W oper-

THEA A15 O.PF UNI



THEA A15 O.PF UNI

Pair of self-aligning photocells. Range 30 m. Power supply 24 V ac/dc. Pair of universal photocells suitable for non-BFT automation systems, adjustable with integrated flashing light. Synchronised infrared signal to avoid any possibility of accidental dazzling. For external application. Beam can be oriented 40° horizontally and 10° vertically. Range 30 m. Power supply 24 V ac/dc.

PHEBE ULTRA



Electromechanical operators for residential use for the automation of overhead garage doors. The built-in control unit manages the second operator for installation on large-size doors or doors with integrated pedestrian doors. The microprocessor technology also manages the torque of the motors with maximum precision and in total safety.

MITTO B RCB02 2CH CUSTOMIZED



MITTO B RCB02 2CH CUSTOMIZED

Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A

MIME TX



MIME TX

two-channel miniaturized 433 Mhz transmitter

B EBA WI-FI GATEWAY



B EBA WI-FI GATEWAYExpansion card permitting connection of a U-link device to a home Wi-Fi network. Connected operators may be remotely managed with the U-control app available for Android and IOS smartphones.





Electromechanical automation systems for swing gates

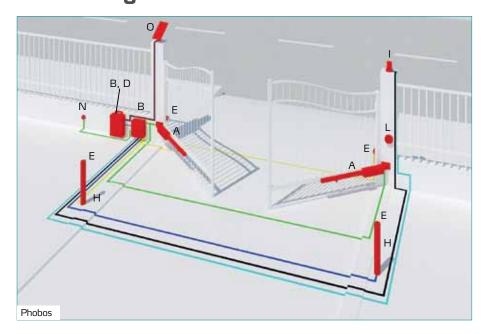
Guide to choosing

Max. width of door/ gate wing	Max. weight of door/ gate wing	Maximum angle	Motor voltage	Frequency of use	Kit	Operator	Plus
				electromech		ated swing gates	
2 m	150 kg	110 °			-	HIDE SW	Absolute encoder limit switch
		116 °				PHOBOS BT A25	Magnetic limit switch
					•	PHOBOS BT KIT A25 FRA	Magnetic limit switch
					-	KUSTOS BT A25	Covered worm screw Magnetic limit switch
		118 °	24 V	intensive	•	KUSTOS BT KIT A25 FRA	Covered worm screw Magnetic limit switch
2.5 m	400 kg	110			-	KUSTOS ULTRA BT A25	Covered worm screw Magnetic limit switch
2.5 m					•	KUSTOS ULTRA BT KIT A25 FRA	Covered worm screw Magnetic limit switch
					-	PHOBOS AC A25	Working time limit switch
		120 °			•	PHOBOS AC KIT A25 FRA	Working time limit switch
					_	PHOBOS AC A25 120V	Working time limit switch
					_	ATHOS AC A25 AR	-
	700 kg		230 V	Semi intens-	_	ATHOS AC A25 AL	
				ive	•	ATHOS AC KIT A25 EU	
		110°			_	ATHOS AC A40 AR	
	400 kg				_	ATHOS AC A40 AL	
					•	ATHOS AC KIT A40 EU	
	500 kg			intensive	_	PHOBOS BT A40	Magnetic limit switch
		124°	24 V		•	PHOBOS BT KIT A40 FRA	Magnetic limit switch
4 m		126°			-	KUSTOS BT A40	Covered worm screw Magnetic limit
					•	KUSTOS BT KIT A40 FRA	Covered worm screw Magnetic limit switch
					-	KUSTOS ULTRA BT A40	Covered worm screw Magnetic limit
					•	KUSTOS ULTRA BT KIT A40 FRA	Covered worm screw Magnetic limit switch
		430 0	120 V	Semi intens-	-	PHOBOS AC A50 120	Working time limit switch
5 m		129 °	230 V	ive	-	PHOBOS AC A50	Working time limit switch
			elect	romechanical :	swing operato	ors with articulated arm	
1.8 m		130 °	120 V	NoSet	-	E5 120	work time limit switch
1.8 M	j l	IJU	230 V	NUSET	-	E5 N	work time limit switch
	200 kg			C:	-	VIRGO SMART BT A 20	Limit switch Electromechanical
2 m		120 °		Semi intens- ive	-	VIRGO SMART BT A 20 SLAVE	Limit switch Electromechanical
			24 V	ive	•	VIRGO SMART BT A 20 KIT INT	Limit switch
					-	IGEA BT	Limit switch Electromechanical
	2501	475.0			•	IGEA BT KIT FRA THALIA	Limit switch
2.5 m	250 kg	125 °	22014	intensive	-	IGEA	Limit switch Electromechanical
			230 V		•	IGEA KIT FRA	Limit switch
			swing	gates with <u>unc</u>	lerground <u>ele</u>	ctromechanical operator	
	156.		120 V		-	ELI 250 N V 120	work time limit switch
2 m	150 kg	47.5 :		Semi intens-	-	ELI 250 N V	work time limit switch
2.5	300 kg	120 °	230 V	ive	-	ELI 250 N	work time limit switch
3.5 m	400 kg		24 V	intensive	-	ELI 250 N BT	Limit switch Magnetic





Installation guide



А	Operator
В	Control unit
С	Backup Batteries
D	Receiver
Е	Photocell
Н	Post
- 1	Flashing Beacon
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
0	Solar panel
	2x1.5
	3x1.5
	RG 58
	5x1
	2x1
	9x0.5
	4x2.5





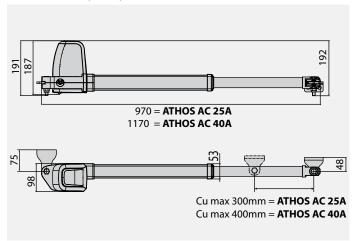




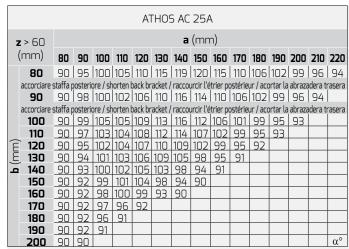


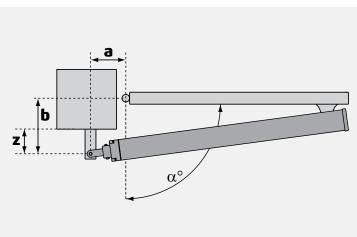
Thanks to its structure composed by die-cast aluminum shells and high end materials, such as the worm gear and the bronze crown, the Athos motor range guarantees the maximum strength, reliability and lifespan. Quick to be installed, Athos lets the maximum comfort, thanks to its high speed in opening and closing coupled to its silent operation. The motor is irreversible; the emergency opening is always easy thanks to the triangular key locking system.

Dimension (mm)



INSTALLATION DIMENSIONS





	ATHOS AC 4DA																	
	z > 60 a (mm)																	
	(mm)	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240
	80			100														
	accorciare :	staffa 90	postei 98	riore / 100	short 102	en bac 106	k brad 110	ket / 1 116	119	rcir l'e 122	étrier 125	ostér 129	ieur / 132	acorta 131	r la al 124	razad 118	era tr 114	asera 110
	accorciare :	staffa 90	poste 99	riore / 105	short 105	en bac 109	k brad 113	ket / 1 116	118	rcir l'e 120	étrier (123	ostér 125	ieur / 128	acorta 127	r la al 120	115	era tr 110	asera 108
	110	90	97	103	104	108	112	114	116	118	120	123	125	120	115	110	108	
	120	90	95	102	104	107	110	112	115	117	120	121	122	118	113	108		
1~	130	90	94	101	103	106	108	110	114	116	119	120	119	114	109			
	140	90	93	100	102	105	106	108	112	115	118	119	115	110				
<u>L</u>	150	90	92	99	101	103	104	107	111	114	117	116	110					
(mm)	160	90	92	98	100	102	104	107	110	112	115	111	_					
	1/0	90	92	97	99	101	103	106	109	110	112							
	180 190	90	92	96 96	98 98	100	102 102	105 104	108	110								
	200	90	91	94	97	99	101	103	108									
	210	90	91	94	97	99	101	103										
	220	90	91	94	97	99	101											
	230	90	91	93	96	1												
	240	90	91	93														α°

Technical features

	ATHOS AC A25 AR	ATHOS AC A25 AL	ATHOS AC A40 AR	ATHOS AC A40 AL			
Control unit		ALENA SW2					
Board power supply	230 V	230 V	230 V	230 V			
Motor voltage	230 V	230 V	230 V	230 V			
Power input	280 W	280 W	280 W	280 W			
Max. width of door/gate wing	2.5 m	2.5 m	4 m	4 m			
Max. weight of door/gate wing	700 kg	700 kg	400 kg	400 kg			
Useful rod stroke	300 mm	300 mm	400 mm	400 mm			
Maximum angle	110 °	110 °	110 °	110 °			
Cycle time	14 s	14 s	16 s	16 s			
Type of limit switch	work time	work time	work time	work time			
Slowdown	Yes	Yes	Yes	Yes			
Locking	Mechanical	Mechanical	Mechanical	Mechanical			
Release	Triangle key	Triangle key	Triangle key	Triangle key			
Impact reaction	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch			
Frequency of use	Semi intensive	Semi intensive	Semi intensive	Semi intensive			
Protection rating	IP54						
Environmental conditions	-20 ÷ 55 °C						





Code	Name		Description
P935108 00002	ATHOS AC A25 AR	new	Irreversible electromechanical operator 230 V for swing gates weighing up to 700 kg and 2.5 m long.
P935109 00002	ATHOS AC A25 AL	new	Irreversible electromechanical operator 230 V for swing gates weighing up to 700 kg and 2.5 m long.
P935115 00002	ATHOS AC A40 AR	new	Irreversible electromechanical operator 230 V for swing gates weighing up to 400 kg and 4 m long.
P935116 00002	ATHOS AC A40 AL	new	Irreversible electromechanical operator 230 V for swing gates weighing up to 400 kg and 4 m long.
R935339 00002	ATHOS AC KIT A25 EU	new	Complete kit 230 V for swing gates up to 700 kg in weight and 2.5 m in length.
R935344 00002	ATHOS AC KIT A40 EU	new	Complete kit 230 V for swing gates up to 400 kg in weight and 4 m in length.

ALENA SW2: Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors

D113811 00004 - ALENA SW2 - Recommended

- Application: control panel for one or two operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 400W max each operator
- Main features: programming of trimmer and dip-switch, removable terminal block with standard colouring, integrated radio receiver, remote controlled pedestrian opening. Soft opening and closing (only with electromechanical motor), management of resistive safety edges 8K2/contact, management of verified safety devices, management of electronic locks, electronic control of motor torque (only with electromechanical motor), pressure surge when opening.
- Main functions: stays locked when closed, 3/4 step logic, partial opening, fast closing and self-diagnostics
- Compatibility: ALTAIR and ARIES

RECOMMENDED ACCESSORIES

D113811 00003 - ALENA SW2 120V



ALENA SW2 120V control panel



N999724 - **PLE ATHOS**

Anchor plate for welding the mountings to masonry pillars for ATHOS operators









226 signalling devices226 safety devices - photocells and accessories 226 227 228

safety devices - sensitive edges rubber profiles 228 solenoid locks release systems

232

swing gates















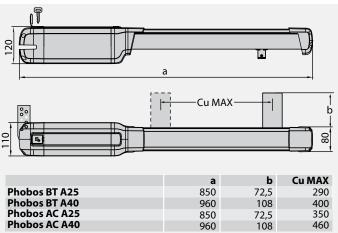


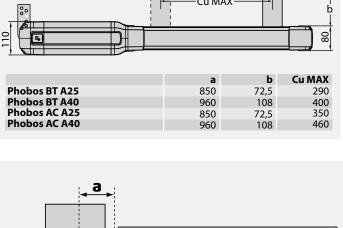


Complete range of electro-mechanical pistons for residential use, suitable for swing gates up to 5 metres in length and up to 500 kg in

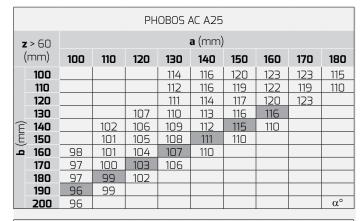
Simplified and intuitive wiring: the new ALENA control units have standardized and colourful terminal blocks for a maximum ease of connection of operators and accessories.

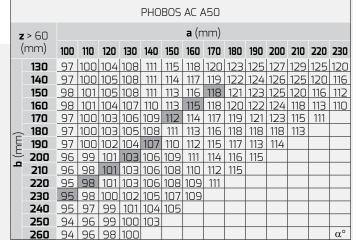
Dimension (mm)











Technical features

b

	PHOBOS AC A25	PHOBOS AC A50	PHOBOS AC A50 120V	PHOBOS AC A25 120V			
Control unit	RIGEL 6, A	LENA SW2	ALENA SW2				
Board power supply	230 V	230 V	230 V	230 V			
Motor voltage	230 V	230 V	120 V	120 V			
Power input	210 W	210 W	210 W	210 W			
Max. width of door/gate wing	2.5 m	5 m	5 m	2.5 m			
Max. weight of door/gate wing	400 kg	500 kg	500 kg	400 kg			
Useful rod stroke	350 mm	460 mm	460 mm	350 mm			
Maximum angle	120 °	129 °	129 °	120 °			
Cycle time	14 s	18 s	18 s	14 s			
Type of limit switch	work time	work time	work time	work time			
Slowdown	no	no	no	no			
Locking	Mechanical	Mechanical	Mechanical	Mechanical			
Release	Personal key	Personal key	Personal key	Personal key			
Impact reaction	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch			
Frequency of use	Semi intensive	Semi intensive	Semi intensive	Semi intensive			
Protection rating	IPX4						
Environmental conditions	-20 ÷ 55 ℃						





Code	Name	Description
P935098 00002	PHOBOS AC A25	Irreversible electromechanical operator 230 V for swing gates weighing up to 400 kg and 2.5 m long. Working time limit switch
P935097 00002	PHOBOS AC A50	Irreversible electromechanical operator 230 V for swing gates weighing up to 500 kg and 5 m long. Working time limit switch
P935097 00001	PHOBOS AC A50 120	Irreversible electromechanical operator 120 V for swing gates weighing up to 500 kg and 5 m long. Working time limit switch
R935304 00003	PHOBOS AC KIT A25 FRA	Complete kit 230 V for swing gates up to 400 kg in weight and 2.5 m in length. Working time limit switch
P935098 00001	PHOBOS AC A25 120V	Irreversible electromechanical operator 230 V for swing gates weighing up to 400 kg and 2.5 m long. Working time limit switch

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W

 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES



D113811 00004 - ALENA SW2

Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors



N733427 - **ARB PHOBOS N**

Front and rear adjustable bracket for PHOBOS operator



N733428 - ARB PHOBOS N L

Front and rear adjustable bracket for PHOBOS operator



N733722 - SFR A

Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUS-TOS BT A



N733723 - SFR L A

Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUS-TOS BT A



D730178 - PLE

Anchor plate for welding the mountings to masonry pillars for LUX, ORO, PHOBOS operators



N999405 - **CABLE N**

Control unit connecting cable for PHOBOS AC A. Coil of 100 m, 4x0,75

> With Bft Easy Set the installation of an automation system for swing gates has never been easier!











accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices226 safety devices - photocells and accessories 227 228 safety devices - sensitive edges rubber profiles

release systems

228 solenoid locks

232 233 233









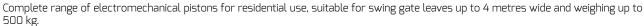








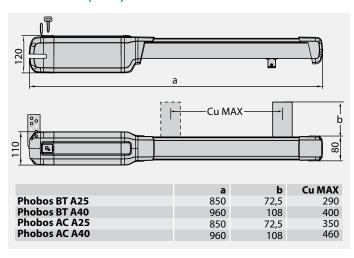


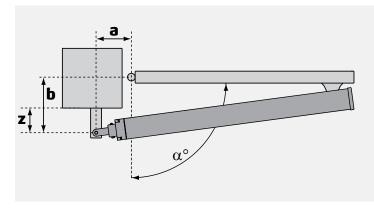


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Obstacle detection: the management and control system of the D-Track pair ensures maximum safety for people and property, as well as facilitating certification of the system

Dimension (mm)





INSTALLATION DIMENSIONS

	PHOBOS BT A25										
Z	· > 60		a (mm)								
((mm)	100	110 120 130 140 150 160								
	100				114	116	108	102	97		
	110				112	108	103	98	95		
	120				111	105	99	95			
	130			107	105	100	95	92			
1	140			105	100	95	92				
(mm)	150		105	100	95	92					
مَ			101	95	92	89					
	170	101	93	91	89						
	180	92	90	88							
	190	90	87								
	200	87							α°		

PHOBOS BT A40																	
z	> 60		a (mm)														
1)	mm)	100	110	120	130	140	150	160	170	180	190	200	210	220	230		
	130	100	104	107	110	113	116	119	121	124	123	114	109	104	101		
	140	100	103	106	109	112	115	118	120	122	116	110	107	102	98		
	150	99	102	105	108	111	114	117	119	120	112	106	102	98	95		
	160	98	101	105	107	110	113	115	116	114	109	103	99	96			
	170	97	110	104	107	109	112	114	113	109	105	100	96	93			
~	180	97	100	103	106	108	111	113	109	105	100	97	93				
(mm)	190	97	100	102	105	107	109	112	106	101	96	93					
드	200	97	99	101	104	106	106	106	100	97	93						
9	210	96	98	101	103	106	104	103	97	92							
	220	96	98	101	103	105	101	97	93								
	230	96	98	101	103	105	97	93									
	240	95	97	99	99	96	92										
	250	95	97	97	95	91											
	260	95	97	95	91												

Technical features

	DUODOS DE ADE	DUODOS DT A 40				
	PHOBOS BT A25	PHOBOS BT A40				
Control unit	THALIA, ZARA					
Board power supply	230 V	230 V				
Motor voltage	24 V	24 V				
Power input	40 W	40 W				
Max. width of door/gate wing	2.5 m	4 m				
Max. weight of door/gate wing	400 kg	500 kg				
Useful rod stroke	290 mm	400 mm				
Maximum angle	116 °	124 °				
Cycle time	15 s	20 s				
Type of limit switch	Magnetic	Magnetic				
Slowdown	Yes	Yes				
Locking	Mechanical	Mechanical				
Release	Personal key	Personal key				
Impact reaction	D-Track	D-Track				
Frequency of use	intensive	intensive				
Protection rating	IPX4					
Environmental conditions	-20 ÷ 55 ℃					





Code	Name	Description
P935096 00002	PHOBOS BT A25	Irreversible electromechanical operator 24 V for swing gates weighing up to 400 kg and 2.5 m long. Magnetic limit switch
P935095 00002	PHOBOS BT A40	Irreversible electromechanical operator 24 V for swing gates weighing up to 500 kg and 4 m long. Magnetic limit switch
R935306 00005	PHOBOS BT KIT A25 FRA	Complete kit 24 V for swing gates up to 400 kg in weight and 2.5 m in length. Magnetic limit switch
R935309 00005	PHOBOS BT KIT A40 FRA	Complete kit 24 V for swing gates up to 500 kg in weight and 4 m in length. Magnetic limit switch

THALIA: Control panel with display for one or two 24V electromechanical operators for swing gates



D113745 00002 - THALIA - Recommended



- Application: control panel with display for one or two 24V electromechanical operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: new standard colour removable terminal blocks, simplified scenario-based programming with display and integrated 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

RECOMMENDED ACCESSORIES



O D113747 00002 - THALIA P

Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems



D113796 00002 - ZARA BT L2

Control panel with dip switches and potentiometers for one or two 24V operators for swing gates



N733427 - **ARB PHOBOS N**

Front and rear adjustable bracket for PHOBOS operator



N733428 - **ARB PHOBOS N L**

Front and rear adjustable bracket for PHOBOS operator



D730178 - PLE

Anchor plate for welding the mountings to masonry pillars for LUX, ORO, PHOBOS operators



N733722 - SFR A

Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUS-TOS BT A



N733723 - **SFR L A**

Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUS-TOS BT A



N999404 - **CABLE N BT**

Control unit connecting cable for PHOBOS BT A, KUSTOS BT A. Coil of 100 m, 3x1,5



P125020 - **BBT BAT**

Set of backup batteries for THALIA and THALIA P



D111761 - **ME BT**

Control board for 24Vac solenoid lock for 24V automation

With Bft Easy Set the installation of an automation system for swing gates has never been easier!



See page 18









control devices

226 signalling devices226 safety devices - photocells and accessories 227 228 safety devices - sensitive edges rubber profiles

228 solenoid locks

release systems

232 233 233















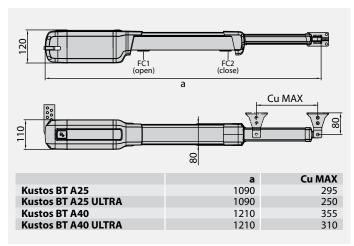


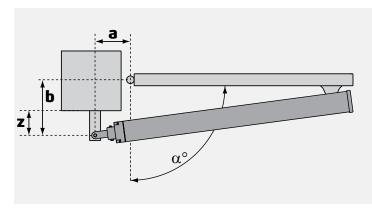
(EE link

Complete range of electromechanical pistons for residential use, suitable for swing gate leaves up to 4 metres wide and weighing up to

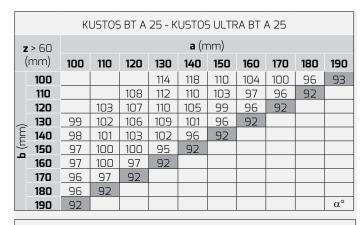
Quick and practical installation: the new KUSTOS BT A operators are designed to allow a quick and easy installation thanks to a numbers of important measures such as the magnetic limit switches and the magnetic locking pin.

Dimension (mm)





INSTALLATION DIMENSIONS



	KUSTOS BT A 40 - KUSTOS ULTRA BT A 40														
7	· > 60	a (mm)													
((mm)	100	110	120	130	140	150	160	170	180	190	200	210	220	
	100					117	120	123	126	119	113	108	104	101	
	110				112	116	119	121	122	116	110	105	105		
	120			107	110	114	117	120	117	111	106	102			
	130		103	106	109	113	116	117	113	107	102				
	140	97	102	105	108	112	115	113	110	103					
(F	150	97	101	104	107	110	113	110	104						
(mm)	160	97	100	104	107	109	110	105							
ڡ	170	96	100	103	106	108	105								
	180	96	100	103	106	107									
	190	96	99	102	105										
	200	96	98	101											
	210	95	98												
	220	95												α°	

Technical features

	KUSTOS BT A25	KUSTOS BT A40				
Control unit	THALIA					
Board power supply	230 V	230 V				
Motor voltage	24 V	24 V				
Power input	40 W	40 W				
Max. width of door/gate wing	2.5 m	4 m				
Max. weight of door/gate wing	400 kg	500 kg				
Useful rod stroke	295 mm	355 mm				
Maximum angle	118 °	126 °				
Cycle time	13 s	17 s				
Type of limit switch	Magnetic	Magnetic				
Slowdown	Yes	Yes				
Locking	Mechanical	Mechanical				
Release	Personal key	Personal key				
Impact reaction	D-Track	D-Track Ó				
Frequency of use	intensive	intensive				
Protection rating	IP44					
Environmental conditions	-20 ÷ 55 °C					





Code	Name	Description
P935099 00002	KUSTOS BT A25	Irreversible electromechanical operator 24 V for swing gates weighing up to 400 kg and 2.5 m long. Covered worm screw Magnetic limit switch
P935100 00002	KUSTOS BT A40	Irreversible electromechanical operator 24 V for swing gates weighing up to 500 kg and 4 m long. Covered worm screw Magnetic limit switch
R935307 00005	KUSTOS BT KIT A25 FRA	Complete kit 24 V for swing gates up to 400 kg in weight and 2.5 m in length. Covered worm screw Magnetic limit switch
R935310 00005	KUSTOS BT KIT A40 FRA	Complete kit 24 V for swing gates up to 500 kg in weight and 4 m in length. Covered worm screw Magnetic limit switch

THALIA: Control panel with display for one or two 24V electromechanical operators for swing gates



D113745 00002 - THALIA - Recommended

- Application: control panel with display for one or two 24V electromechanical operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: new standard colour removable terminal blocks, simplified scenario-based programming with display and integrated 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

RECOMMENDED ACCESSORIES



O D113747 00002 - THALIA P

Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems



D113796 00002 - ZARA BT L2

Control panel with dip switches and potentiometers for one or two 24V operators for swing gates



N733647 - ARB KUSTOS POSTERIORE

Pair of adjustable rear fixing brackets for Kustos BT A



N733646 - ARB KUSTOS ANTERIORE

Front adjustable fixing brackets for Kustos BT A



D730178 - PLE

Anchor plate for welding the mountings to masonry pillars for LUX, ORO, PHOBOS operators



N733722 - SFR A

Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUS-TOS BT A



N733723 - SFR L A

Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUS-TOS BT A



N999404 - **CABLE N BT**

Control unit connecting cable for PHOBOS BT A, KUSTOS BT A. Coil of 100 m, 3x1,5



P125020 - **BBT BAT**

Set of backup batteries for THALIA and THALIA P



D111761 - **ME BT**

Control board for 24Vac solenoid lock for 24V automation

With Bft Easy Set the installation of an automation system for swing gates has never been easier!



See page 18







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

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227 228 safety devices - sensitive edges rubber profiles 228 solenoid locks

release systems

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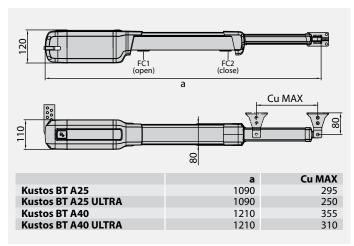


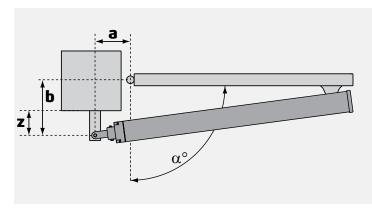


Complete range of electromechanical pistons for residential use, suitable for swing gate leaves up to 4 metres wide and weighing up to

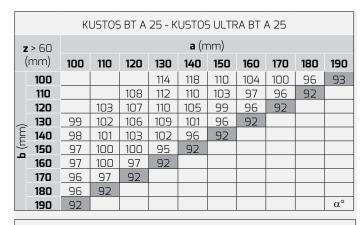
Quick and practical installation: the new KUSTOS BT A operators are designed to allow quick and easy installation, thanks to a number of important measures such as the covered worm screw, integrated stops, magnetic limit switches and the magnetic locking pin.

Dimension (mm)





INSTALLATION DIMENSIONS



	KUSTOS BT A 40 - KUSTOS ULTRA BT A 40														
	z	> 60		a (mm)											
1	((mm)	100	110	120	130	140	150	160	170	180	190	200	210	220
		100					117	120	123	126	119	113	108	104	101
		110				112	116	119	121	122	116	110	105	105	
		120			107	110	114	117	120	117	111	106	102		
		130		103	106	109	113	116	117	113	107	102			
		140	97	102	105	108	112	115	113	110	103				
	F	150	97	101	104	107	110	113	110	104					
h (mr	(mm)	160	97	100	104	107	109	110	105						
	ڡ	170	96	100	103	106	108	105							
		180	96	100	103	106	107								
		190	96	99	102	105									
		200	96	98	101										
		210	95	98											
		220	95												α°

	KUSTOS ULTRA BT A25	KUSTOS ULTRA BT A40
Control unit	THA	ILIA
Board power supply	230 V	230 V
Motor voltage	24 V	24 V
Power input	40 W	40 W
Max. width of door/gate wing	2.5 m	4 m
Max. weight of door/gate wing	400 kg	500 kg
Useful rod stroke	250 mm	355 mm
Maximum angle	118 °	126 °
Cycle time	13 s	17 s
Type of limit switch	Magnetic	Magnetic
Slowdown	Yes	Yes
Locking	Mechanical	Mechanical
Release	Personal key	Personal key
Impact reaction	D-Track	D-Track
Frequency of use	intensive	intensive
Protection rating	IP4	44
Environmental conditions	-20 ÷	55 °C





Code	Name	Description
P935101 00002	KUSTOS ULTRA BT A25	Irreversible electro-mechanical operator 24 V for swing gates up to 400 kg in weight and up to 2.5 m in length with covered worm screw. Integrated mechanical stops. Covered worm screw Magnetic limit switch
P935102 00002	KUSTOS ULTRA BT A40	Irreversible electro-mechanical operator $24\mathrm{V}$ for swing gates up to $500\mathrm{kg}$ in weight and up to $4\mathrm{m}$ in length with covered worm screw. Integrated mechanical stops. Covered worm screw Magnetic limit switch
R935308 00005	KUSTOS ULTRA BT KIT A25 FRA	Complete kit 24 V for swing gates up to 400 kg in weight and up to 2.5 m in length. Operators with covered worm screw (IP44). Integrated mechanical stops. Covered worm screw Magnetic limit switch
R935311 00005	KUSTOS ULTRA BT KIT A40 FRA	Complete kit 24 V for swing gates up to 500 kg in weight and up to 4 m in length. Operators with covered worm screw (IP44). Integrated mechanical stops. Covered worm screw Magnetic limit switch

THALIA: Control panel with display for one or two 24V electromechanical operators for swing gates



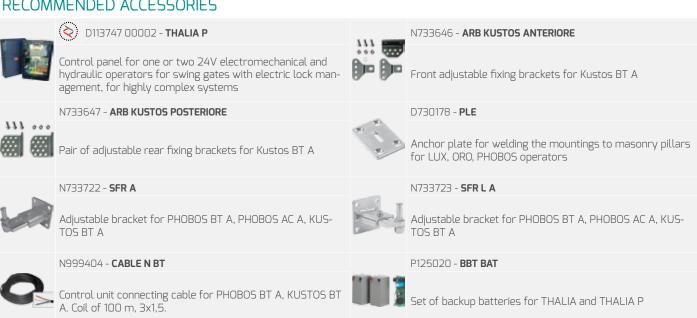
D113745 00002 - THALIA - Recommended



- Application: control panel with display for one or two 24V electromechanical operators for swing gates
 - Board power supply: 230V single-phase
 - Operators power supply: 24Vdc 180W max each operator
- Main features: new standard colour removable terminal blocks, simplified scenario-based programming with display and integrated 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

RECOMMENDED ACCESSORIES



With Bft Easy Set the installation of an automation system for swing gates has never



been easier!











226 signalling devices226 safety devices - photocells and accessories

227 228 safety devices - sensitive edges rubber profiles 228 solenoid locks release systems













Electromechanical automation systems for swing gates







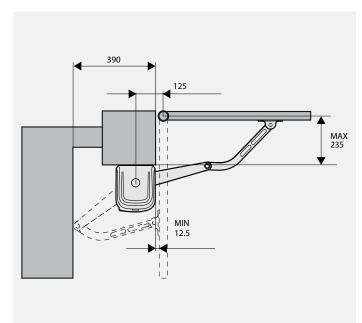
Electromechanical operator with articulated arm for residential use, for swing gate leaves of up to 2 metres and 200 kg. Operator-integrated control unit, limit switch and mechanical stops.

Ideal for any installation requirements, makes it easy to solve problems linked to large pillars thanks to the lever system.

Dimension (mm)

188 224

INSTALLATION DIMENSIONS



	VIRGO SMART BT A 20	VIRGO SMART BT A 20 SLAVE
Control unit	THALIA	
Board power supply	230 V	
Motor voltage	24 V	24 V
Power input	110 W	110 W
Max. width of door/gate wing	2 m	2 m
Max. weight of door/gate wing	200 kg	200 kg
Maximum angle	120 °	120 °
Cycle time	14 s	14 s
Type of limit switch	Electromechanical	Electromechanical
Slowdown	Yes	Yes
Locking	Mechanical	Mechanical
Release	Personal key	Personal key
Impact reaction	Electronic torque limiter	Electronic torque limiter
Frequency of use	Semi intensive	Semi intensive
Protection rating	IP.	44
Environmental conditions	-20 ÷	55 °C





Code	Name		Description	
P930129 00002	VIRGO SMART BT A 20	new	Irreversible electro-mechanical operator 24 V for swing gates up to 200 kg in weight and up to 2 m in length with integrated control unit. Limit switch Electromechanical	U-Link
P930130 00002	VIRGO SMART BT A 20 SLAVE	new	Irreversible electromechanical operator 24 V for swing gates weighing up to 200 kg and 2 m long. Limit switch Electromechanical	U-Link
R930150 00001	VIRGO SMART BT A 20 KIT INT	new	Complete kit 24 V for swing gates up to 200 kg in weight and 2 m in length. Limit switch Electromechanical	U-Link

THALIA: Control panel with display for one or two 24V electromechanical operators for swing gates



THALIA - Built in



- Application: control panel with display for one or two 24V electromechanical operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: new standard colour removable terminal blocks, simplified scenario-based programming with display and integrated 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 R, LIBRA MA R

RECOMMENDED ACCESSORIES

	N728052 - LAS		P111775 - TFS
	VIRGO BT A slide lever	O as	Virgo Smart BT A 3-wire board KIT (1 Kit per engine)
	N999735 - AAP		N998600 - AMV
-	VIRGO SMART BT A misaligned doors accessory	00 99	Virgo Smart BT A 20 mechanical stop KIT
9	N733421 - RCA		N733422 - RCAL
	Lever release for ARGO with steel cable, length 3.5 m		Lever release for ARGO with steel cable, length 7 m
2	N574039 - BOX		P125008 - VIRGO BAT
10	Wall safe for unlocking with steel cable and electrical control; cable not included		Set of backup batteries for VIRGO
	D111761 - ME BT		
	Control board for 24Vac solenoid lock for 24V automation systems		





control devices

P. 226 signalling devices
P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
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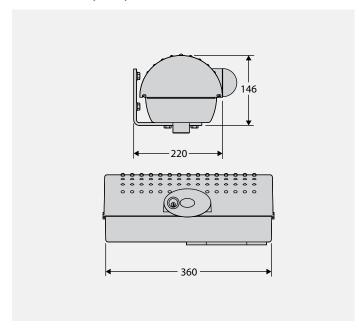




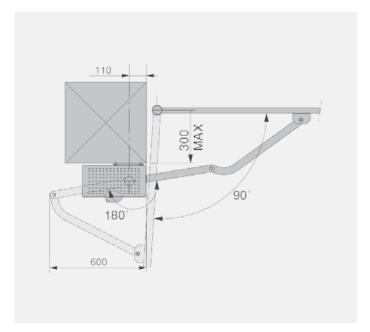


Range of irreversible electro-mechanical 24 v operators for swing gates up to 250 kg in weight and up to 2.5 m in length. Ideal for installation on large-size pillars thanks to its articulated levers that allow opening up to 125°.

Dimension (mm)



INSTALLATION DIMENSIONS



	IGEA BT
Control unit	THALIA
Board power supply	230 V
Motor voltage	24 V
Power input	40 W
Max. width of door/gate wing	2.5 m
Max. weight of door/gate wing	250 kg
Maximum angle	125 °
Cycle time	15 s
Type of limit switch	Electromechanical
Slowdown	Yes
Locking	Mechanical
Release	Knob operated with personal key
Impact reaction	D-Track
Frequency of use	intensive
Protection rating	IP44
Environmental conditions	-15 ÷ 60 °C





Code	Name	Description	
P935070 00002	IGEA BT	Irreversible electromechanical operator 24 V for swing gates weighing up to 250 kg and 2.5 m long. Limit switch Electromechanical	U-L
R935297 00002	IGEA BT KIT FRA THALIA	Complete kit 24 V for swing gates up to 250 kg in weight and 2.5 m in length. Limit switch Electromechanical	U-L



THALIA: Control panel with display for one or two 24V electromechanical operators for swing gates

\Q

D113745 00002 - THALIA - Recommended



- Application: control panel with display for one or two 24V electromechanical operators for swing gates
 Board power supply: 230V single-phase
 Operators power supply: 24Vdc 180W max each operator

- Main features: new standard colour removable terminal blocks, simplified scenario-based programming with display and integrated Main rectail c. New Standard cooled removable terminal states, simplified seems based programming with sisplety of 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 R, LIBRA MA R

RECOMMENDED ACCESSORIES

	MENDED / RECESSORIES		
	D113747 00002 - THALIA P Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems		N733421 - RCA
			Lever release for ARGO with steel cable, length 3.5 m
B	N733422 - RCAL		P135005 - LRV
	Lever release for ARGO with steel cable, length 7 m	7	Short articulated arms for IGEA and IGEA BT
	N574039 - BOX		P125020 - BBT BAT
6	Wall safe for unlocking with steel cable and electrical control; cable not included		Set of backup batteries for THALIA and THALIA P
A.	D111761 - ME BT		
	Control board for 24Vac solenoid lock for 24V automation systems		







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P. 231 P. 232 P. 233 P. 233 P. 234 P. 235













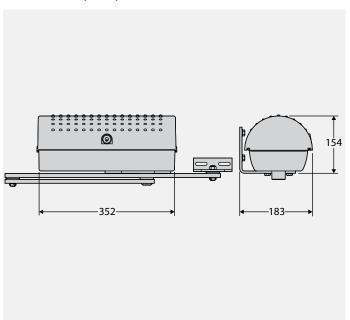




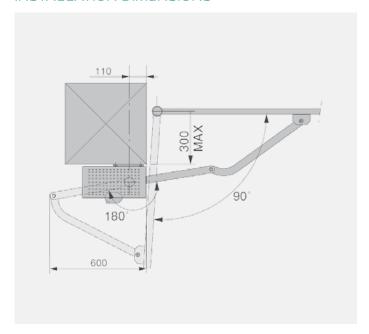


Range of electromechanical operators with articulated arm for residential use, for swing gate leaves of up to 2.5 metres and 250 kg. Ideal for installation on large-size pillars thanks to its articulated levers that allow opening up to 125°.

Dimension (mm)



INSTALLATION DIMENSIONS



	IGEA
Control unit	RIGEL 6
Board power supply	230 V
Motor voltage	230 V
Power input	300 W
Max. width of door/gate wing	2.5 m
Max. weight of door/gate wing	250 kg
Maximum angle	125°
Cycle time	15 s
Type of limit switch	Electromechanical
Slowdown	no
Locking	Mechanical
Release	Knob operated with personal key
Impact reaction	Electronic clutch
Frequency of use	intensive
Protection rating	IP44
Environmental conditions	-15 ÷ 60 °C





Code	Name	Description
P935065 00002	IGEA	Electromechanical operator 230 V for swing gates up to 250 kg in weight and 2.5 m in length. Limit switch Electromechanical
R935221 00002	IGEA KIT FRA	Complete kit 230 V for swing gates up to 250 kg in weight and 2.5 m in length. Limit switch Electromechanical

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 RIGEL 4 RIGEL 3 RIGEL N

RECOMMENDED ACCESSORIES

N733421 - **RCA**



Lever release for ARGO with steel cable, length 3.5 m



Lever release for ARGO with steel cable, length 7 m



Short articulated arms for IGEA and IGEA BT

D113811 00004 - ALENA SW2



N574039 - **BOX**

N733422 - **RCAL**





Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors









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233 233

















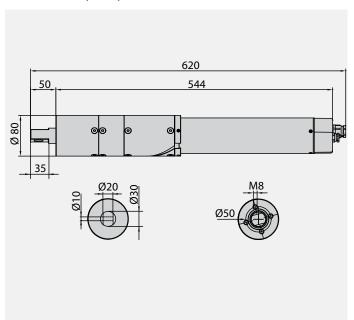




Residential 24V operator for gates of up to 150 kg in weight, able to integrate completely within the jambs of swing gates. Disappearing completely, it enables keeping the look of the gates "clean" while remaining a fundamental element of operational performance.

The Hide range includes an entire outfit of accessories needed to install the gate completely, such as the top and bottom hinges.

Dimension (mm)



	HIDE SW
Control unit	LIBRA CB HIDE
Board power supply	230 V
Motor voltage	24 V
Power input	40 W
Max. width of door/gate wing	2 m
Max. weight of door/gate wing	150 kg
Maximum angle	110 °
Cycle time	12 5
Type of limit switch	Absolute encoder
Slowdown	Yes
Locking	Electromechanical
Release	Steel cable
Impact reaction	D-Track
Frequency of use	intensive
Protection rating	IP45
Environmental conditions	-20 ÷ 60 °C





Code	Name	Description
P930124 00001	HIDE SW	Disappearing irreversible electromechanical operator 24 V for swing gates weighing up to 150 kg and 2 m long. Absolute encoder limit switch

LIBRA CB HIDE: Control panel with display for 1 or 2 HIDE SW series operators

D113742 00002 - LIBRA CB HIDE - Recommended



- Control panel with display for 1 or 2 HIDE SW series operators 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

RECOMMENDED ACCESSORIES



N999526 - HIDE HINGE SUP

Top hinge for the installation of HIDE SW series operator



N999524 - HIDE HINGE INF

Bottom fixed hinge for the installation of HIDE SW series operator



N574039 - **BOX**

Wall safe for unlocking with steel cable and electrical control; cable not included



P125005 - BT BAT

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









release systems

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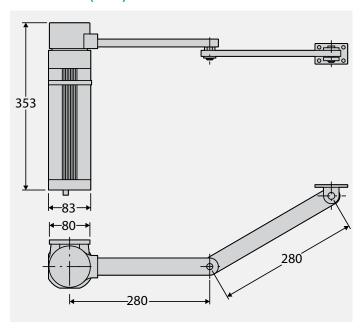






Reversible electro-mechanical operator with articulated arm and extremely small bulk. Suitable for residential use; capable of automating swing gate leaves up to 1.8 metres wide and weighing up to 200 kg.

Dimension (mm)



	E5 N	E5 120			
C					
Control unit		RIGEL 6			
Board power supply	230 V	230 V			
Motor voltage	230 V	120 V			
Power input	200 W	200 W			
Max. width of door/gate wing	1.8 m	1.8 m			
Max. weight of door/gate wing	200 kg	200 kg			
Maximum angle	130 °	130 °			
Cycle time	22 s	22 s			
Type of limit switch	work time	work time			
Slowdown	no	no			
Locking	Solenoid Lock	Solenoid Lock			
Release	Reversible	Reversible			
Impact reaction	Mechanical clutch	Mechanical clutch			
Frequency of use	Semi intensive	Semi intensive			
Protection rating	IP44				
Environmental conditions	-10 ÷	60 °C			





Code	Name	Description
P930003 00001	E5 N	Electromechanical operator 230 V for swing gates up to 200 kg in weight and 1.8 m in length. work time limit switch
P930003 00002	E5 120	Electromechanical operator 120 V for swing gates up to 200 kg in weight and 1.8 m in length. work time limit switch

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 RIGEL 4 RIGEL 3 RIGEL N

RECOMMENDED ACCESSORIES











228 solenoid locks release systems 232

233 233

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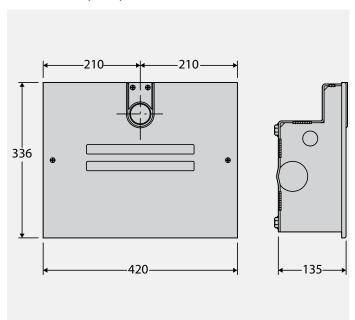






Complete range of irreversible underground electromechanical operators for swing gates up to 400 kg and 3.5 m long. The magnetic limit switch system (BT) guarantees maximum precision and reliability in any climatic conditions.

Dimension (mm)



	ELI 250 N BT
Control unit	THALIA
Board power supply	230 V
Motor voltage	24 V
Power input	175 W
Max. width of door/gate wing	3.5 m
Max. weight of door/gate wing	400 kg
Maximum angle	120 °
Cycle time	15 s
Type of limit switch	Magnetic
Slowdown	Yes
Locking	Mechanical
Release	Lever or lever with personalised key
Impact reaction	D-Track
Frequency of use	intensive
Protection rating	IP67
Environmental conditions	-20 ÷ 50 °C





Code	Name	Description
P930125 00001	ELI 250 N BT	In-ground irreversible electromechanical operator 24 V for swing gates weighing up to 400 kg and 3.5 m long. Limit switch Magnetic



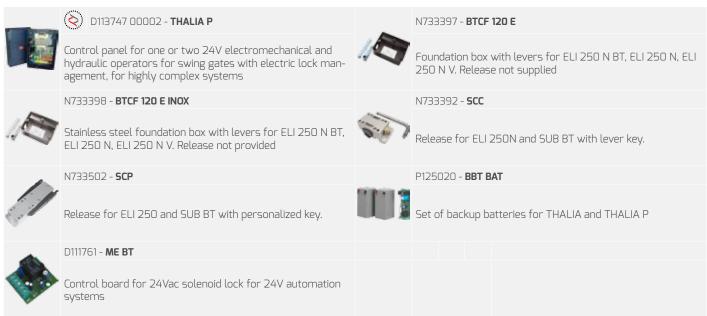
THALIA: Control panel with display for one or two 24V electromechanical operators for swing gates

D113745 00002 - THALIA - Recommended



- Application: control panel with display for one or two 24V electromechanical operators for swing gates
- Board power supply: 230V single-phase
- Operators power supply: 24Vdc 180W max each operator
- Main features: new standard colour removable terminal blocks, simplified scenario-based programming with display and integrated 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

RECOMMENDED ACCESSORIES









release systems











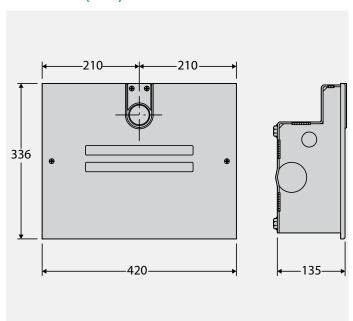




Range of underground electromechanical operators for residential use, for swing gate leaves of up to 3.5 metres and 400 kg. The built-in mechanical stops for both opening and closing enable making the installation totally invisible thanks to having eliminated the stops on the ground.

The magnetic limit switch system (BT) guarantees maximum precision and reliability in any climatic conditions.

Dimension (mm)



	ELI 250 N V	ELI 250 N	ELI 250 N V 120		
Control unit	RIGEL 6, A	LENA SW2	ALENA SW2		
Motor voltage	230 V	230 V	120 V		
Power input	300 W	300 W	300 W		
Max. width of door/gate wing	2 m	3.5 m	2 m		
Max. weight of door/gate wing	150 kg	300 kg	150 kg		
Maximum angle	120 °	120 °	120 °		
Cycle time	14 s	28 s	14 s		
Type of limit switch	work time	work time	work time		
Slowdown	no	no	no		
Locking	Mechanical	Mechanical	Mechanical		
Release	Lever or lever with personalised key	Lever or lever with personalised key	Lever or lever with personalised key		
Impact reaction	Electronic clutch	Electronic clutch	Electronic clutch		
Frequency of use	Semi intensive	Semi intensive	Semi intensive		
Protection rating	IP67				
Environmental conditions	-20 ÷ 50 °C				





Code	Name	Description
P930126 00002	ELI 250 N V	Underground electromechanical operator 230 V for swing gates up to 150 kg in weight and 2 m in length. work time limit switch
P930125 00002	ELI 250 N	Underground electromechanical operator 230 V for swing gates up to 300 kg in weight and 3.5 m in length. work time limit switch
P930126 00001	ELI 250 N V 120	Underground electromechanical operator 120 V for swing gates up to 150 kg in weight and 2 m in length. work time limit switch

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W

 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio Channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES









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release systems

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Hydraulic automation systems for swing gates

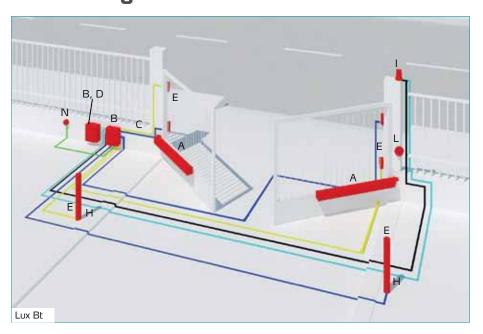
Guide to choosing

_									
Max. width of door/ gate wing	Max. weight of door/ gate wing	Maximum angle	Motor voltage	Frequency of use	of use Operator		Plus		
				electromech	nanically ope	rated swing gates			
2 m	300 kg	110 °	24 V	very intens- ive	-	GIUNO ULTRA BT A20	Selectable locking Magnetic limit switches		
				hydraulio	cally operat	ed swing gates			
				Semi intens-	-	ORO	Compact size		
1.8 m	180 kg	112 °		ive	•	ORO KIT	Compact size		
					•	ORO KIT FRA	Compact size		
		101°			-	LUX R 2B SN2 LUX R 2B 2SN UL/CSA	Locking on closure/opening		
						LUX FC 2B	Locking on closure/opening		
		117 °				LUX FC 2B UL/CSA	Locking on closure/opening		
					_	LUX	Reversible		
						LUX SA	Reversible		
2 m					_	LUX WINTER	Extremely low temperatures		
					-	LUX B			
	300 kg			very intens-	-	LUX BA	Reversible		
			230 V	ive	-	LUX 2B			
		123 °			-	LUX 2B WINTER	Extremely low temperatures		
					-	LUX 2B UL/CSA 120V	Locking on closure/opening		
					-	LUX R2B	Reversible		
2.2 m					-	LUX R	Reversible		
							-	LUX RSN2	Reversible
2.3 m					-	LUX MB	Locking on closure		
					•	LUX MB KIT	Locking on closure		
2.5 m	200 kg	112 °		Semi intens- ive	-	ORO E	Compact size		
3.5 m	300 kg		120 V 230 V		-	LUX GV	Reversible		
4 m		123 °			-	LUX L	Reversible		
4111					-	LUX LR	Reversible		
	500 kg			_	-	P4.5 UL/CSA	Closing slowdown		
4.5 m					-	P4,5	Closing slowdown		
			230 ¥		-	P4,5 WINTER	Extremely low temperatures		
5 m	800 kg	110 °	24 V	ive	-	GIUNO ULTRA BT A50	Selectable locking Magnetic limit switches		
2111	000 vg	123 °	230 V		-	LUX G WINTER	Extremely low temperatures		
		130 °		_	-	LUX G	Reversible		
_					120 V	-	-	P7 UL/CSA	Closing slowdown
7 m	500 kg	123 °	230 V		-	P7	Closing slowdown		
			_	wing gates wit	- h undergreu	P7 WINTER	Extremely low temperatures		
			5	wing gates wit	n under grou -	nd hydraulic operator SUB DX	very intensive		
					_	SUB SX	very intensive		
					-	SUB R DX	Slowdown		
					-	SUB R SX	Slowdown		
4.0		130 °	22014		_	SUB R WINTER DX	Extremely low temperatures		
1.8 m			230 V		-	SUB R WINTER SX	Extremely low temperatures		
					-	SUB EG DX	very intensive		
					-	SUB EG SX	very intensive		
		180°		ven intens	-	SUB G DX	very intensive		
	800 kg			very intens-	-	SUB G SX	very intensive		
		120 °	24 V	ļ .,,c	-	SUB BT	D-Track		
					-	SUB E DX	very intensive		
2.5 m			230 V		-	SUB E SX	very intensive		
		43.5 :			-	SUB ER DX	Slowdown		
	-	130 °	47.0	-	-	SUB ER SX	Slowdown		
			120 V	-	-	SUB R UL/CSA DX	Slowdown		
3.5 m			230 V		-	SUB EL DX	very intensive		
		180 °	120 V			SUB EL SX	very intensive		
		IDU	ı∠U V			SUB G UL/CSA DX	very intensive		





Installation guide



Α	Operator			
В	Control unit			
С	Backup Batteries			
D	Receiver			
Е	Photocell			
Н	Post			
I	Flashing Beacon			
L	Control system (key selector switch, keypad, badge reader)			
N	Junction box			
	2x1.5			
	3x1.5			
	RG 58			
	5x1			
	2x1			
0	Solar panel			



















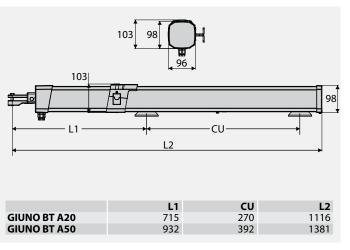




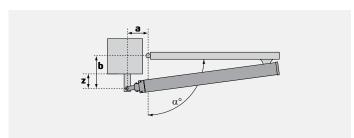
Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence

Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg. Anti-crushing safety guaranteed thanks to the exclusive D-Track system

Dimension (mm)



INSTALLATION DIMENSIONS



	GIUNO ULTRA BT A 20										
z	z > 45 a (mm)										
(1	mm)	90	100	110	125	135	145	155	165	175	
	90					110	104	98	95	91	
	100					105	99	95	91	88	
	110				108	100	95	91	88		
E	125				99	93	89	86			
(mm)	135			99	93	89					
9	145		95	97	89						
	155		95	91							
	165	91	91	86							
	175	91	85							α°	

	GIUNO ULTRA BT A 50											
Z	> 45		a (mm)									
(1	mm)	115	115 135 155 175 195 215 235 255 275									
	115				110	110	108	101	96	92		
	135			106	106	110	1025	96	92			
	155		107	106	108	103	96	91	87			
F	175		103	107	106	96	91	86				
mm	195		104	106	97	90	86					
9	215		101	99	90	85						
	235	96	101	90	84							
	255	95	89	83								
	275	88								α°		

	GIUNO ULTRA BT A20	GIUNO ULTRA BT A50			
Control unit	THAI	LIA P			
Board power supply	230 V	230 V			
Motor voltage	24 V	24 V			
Power input	90 W	90 W			
Max. width of door/gate wing	2 m	5 m			
Max. weight of door/gate wing	300 kg	800 kg			
Useful rod stroke	270 mm	392 mm			
Maximum angle	110 °	110 °			
Cycle time	14 s	20 s			
Type of limit switch	Magnetic	Magnetic			
Slowdown	Yes	Yes			
Locking	Selectable in opening/closing	Selectable in opening/closing			
Release	Triangle key	Triangle key			
Impact reaction	D-Track	D-Track			
Frequency of use	very intensive very intensive				
Protection rating	IP55				
Environmental conditions	-20 ÷ 60 °C				





Code	Name	Description
P935105 00001	GIUNO ULTRA BT A20	Hydraulic operator with 24 V for hinged wings up to 2 m. 300 kg in weight and use very intensive. Manoeuvre time 14 s. Selectable locking Magnetic limit switches
P935106 00001	GIUNO ULTRA BT A50	Hydraulic operator with 24 V for hinged wings up to 5 m. 800 kg in weight and use very intensive. Manoeuvre time 20 s. Selectable locking Magnetic limit switches

THALIA P: Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems



D113747 00002 - THALIA P - Recommended



- 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.
- Application: display panel for 1 or 2 24V operators
 Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R

RECOMMENDED ACCESSORIES

© D113745 00002 - THALIA		N733426 - ARB LUX
Control panel with display for one or two 24V electromechanical operators for swing gates		Adjustable front and rear bracket for LUX operator
N733474 - ARB LUX G	0	D610180 - CLS
Adjustable front and rear bracket for LUX G operator	Ĭ	Triangular release key l=52 mm
N999443 - PL LX BT		P125020 - BBT BAT
Anchor plate for welding the mountings to masonry pillars for LUX BT, GIUNO BT A		Set of backup batteries for THALIA and THALIA P
N999417 - CABLE LX BT		
1603 cable for LUX BT/GIUNO BT/IGEA - skein of 100 m		

With Bft Easy Set the installation of an automation system for swing gates has never been easier!



See page 18



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accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices
226 safety devices - photocells and accessories
227 safety devices - sensitive edges
228 rubber profiles P. 226 signalling devic P. 226 safety devices P. 227 safety devices P. 228 solenoid locks P. 229 release system P. 230

release systems







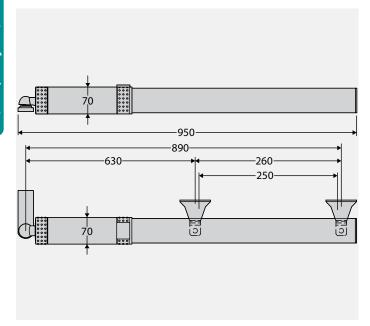




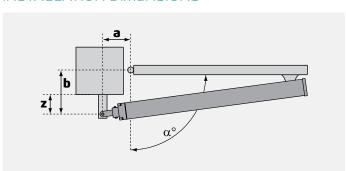


Extremely compact and sturdy hydraulic operators suitable for residential and small condominium use. Capable of automating swing gate leaves up to 2.5 metres wide and weighing up to 200 kg. Available in both reversible and irreversible versions. Maximum precision in force control guaranteed by by-pass valves.

Dimension (mm)



INSTALLATION DIMENSIONS



	ORO - ORO E										
Z	> 40	a (mm)									
(mm)	80	90	100	110	120	130	140	150	160	
	8Ó					112	104	99	94	91	
	90					105	99	94	91	88	
	100					100	94	91			
1	110					95	89	87			
(mm)	120			103	95	90					
) q	130		106	95	90	86					
	140		96	89							
	150	97	89	84							
	160	88	83	80						α°	

	ORO	ORO E			
Control unit	RIGE	EL 6			
Board power supply	230 V	230 V			
Motor voltage	230 V	230 V			
Power input	240 W	240 W			
Max. width of door/gate wing	1.8 m	2.5 m			
Max. weight of door/gate wing	180 kg	200 kg			
Useful rod stroke	250 mm	250 mm			
Maximum angle	112 °	112 °			
Cycle time	20 s	27 s			
Type of limit switch	work time	work time			
Slowdown	no	no			
Locking	Hydraulic closing	Solenoid Lock			
Release	Triangle key	Reversible			
Impact reaction	Hydraulic clutch	Hydraulic clutch			
Frequency of use	Semi intensive	Semi intensive			
Protection rating	IP55				
Environmental conditions	-10 ÷ 60 °C				





Code	Name	Description
P935059 00001	ORO	Irreversible hydraulic operator for hinged leaves up to 1.8 m and 180 kg in weight, duty Semi intensive. Manoeuvre time 20 s. Compact size
P935058 00001	ORO E	Reversible hydraulic operator for hinged leaves up to 2.5 m and weight 200 kg, use Semi intensive. Manoeuvre time 27 s. Compact size
R935222 00002	ORO KIT	Kit for swing gates up to 1.8 m and 180 kg in weight with irreversible hydraulic operators for Semi intensive use. Cycle time 20 s. Compact size
R935210 00011	ORO KIT FRA	Kit for swing gates up to 1.8 m and 180 kg in weight with irreversible hydraulic operators for Semi intensive use. Cycle time 20 s. Compact size

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W

 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES

	D114092 00002 - ALCOR AC A	_	D113680 00002 - ALPHA SD
	Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.	- &	Universal control panel with potentiometers for one 230V/500W single-phase operator
-12 kg	N733424 - ARB ORO	- 10	D730178 - PLE
1, 85	Adjustable front and rear brackets for ORO operator	1	Anchor plate for welding the mountings to masonry pillars for LUX, ORO, PHOBOS operators
	N999131 - NAT		D111013 - ME
0	Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath	A PART	Control board for 12Vac solenoid lock for 230V automation systems
0	D610180 - CLS		
I	Triangular release key l=52 mm		

With Bft Easy Set the installation of an automation system for swing gates has never been easier!













control devices

226 signalling devices226 safety devices - photocells and accessories

228

226 227 228 safety devices - sensitive edges rubber profiles

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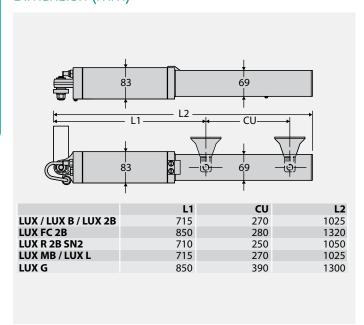




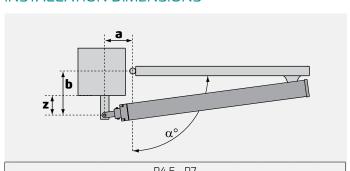
Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence

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.

Dimension (mm)



INSTALLATION DIMENSIONS



	P4,5 - P7											
z > 50		a (mm)										
(mm)	120	135	150	165	180	195	210	225	240	255	270	
120						117	109	103	99	95	92	
135					123	111	104	99	95	92		
150					114	105	99	95	92			
165				123	107	100	95	91				
€ 180				109	100	95	91					
. = 195			118	101	95	90						
<u> </u>			103	95	90							
225		106	95	89								
240		95	89									
255	95	88										
270	88										α°	

	LUX	LUX SA	LUX WINTER	LUX R	LUX RSN2	LUX B
Control unit			RIGI	EL 6		
Motor voltage	230 V					
Power input	250 W					
Max. width of door/gate wing	2 m	2 m	2 m	2.2 m	2.2 m	2 m
Max. weight of door/gate wing	300 kg					
Useful rod stroke	270 mm					
Maximum angle	123 °	123 °	123 °	123 °	123 °	123 °
Cycle time	17 s					
Type of limit switch	work time					
Slowdown	no	no	no	no	no	no
Locking	Solenoid Lock	Hydraulic closing				
Release	Reversible	Reversible	Reversible	Reversible	Reversible	Triangle key
Impact reaction	Hydraulic clutch					
Frequency of use	very intensive					
Protection rating	IP57					
Environmental conditions	-10 ÷ °C					





	LUX BA	LUX 2B	LUX 2B WINTER	LUX 2B UL/CSA 120V	LUX R2B	LUX R 2B 5N2	
Control unit			RIGE	EL 6			
Motor voltage	230 V	230 V	230 V	230 V	230 V	230 V	
Power input	250 W	250 W	250 W	250 W	250 W	250 W	
Max. width of door/gate wing	2 m	2 m	2 m	2 m	2 m	2 m	
Max. weight of door/gate wing	300 kg	300 kg	300 kg	300 kg	300 kg	300 kg	
Useful rod stroke	270 mm	270 mm	270 mm	270 mm	270 mm	250 mm	
Maximum angle	123 °	123 °	123 °	123 °	123 °	101 °	
Cycle time	17 s	17 s	17 s	17 s	17 s	16+slowdown s	
Type of limit switch	work time	work time	work time	work time	work time	work time	
Slowdown	no	no	no	no	no	Yes	
Locking	Solenoid Lock	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Solenoid Lock	Open/close hydraulics	
Release	Reversible	Triangle key	Triangle key	Triangle key	Reversible	Triangle key	
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive	
Protection rating	IP57						
Environmental conditions	-10 ·	-10 ÷ °C					

	LUX FC 2B	LUX R 2B 25N UL/CSA	LUX FC 2B UL/ CSA	LUX MB	LUX GV	LUX L
Control unit			RIGI	EL 6		
Motor voltage	230 V	230 V	230 V	230 V	230 V	230 V
Power input	280 W	250 W	280 W	250 W	250 W	250 W
Max. width of door/gate wing	2 m	2 m	2 m	2.3 m	3.5 m	4 m
Max. weight of door/gate wing	300 kg	300 kg	300 kg	300 kg	300 kg	500 kg
Useful rod stroke	280 mm	250 mm	280 mm	270 mm	270 mm	270 mm
Maximum angle	117 °	101 °	117 °	123 °	123 °	123 °
Cycle time	17 s	16+slowdown s	17 s	23 s	17 s	33 s
Type of limit switch	work time	work time	work time	work time	work time	work time
Slowdown	no	Yes	no	no	no	no
Locking	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Hydraulic closing	Solenoid Lock	Solenoid Lock
Release	Triangle key	Triangle key	Triangle key	Triangle key	Reversible	Reversible
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Protection rating	IP57					
Environmental conditions	-10 ÷ ℃					

	LUX LR	LUX G	LUX G WINTER		
Control unit		RIGEL 6			
Motor voltage	230 V	230 V	230 V		
Power input	250 W	250 W	250 W		
Max. width of door/gate wing	4 m	5 m	5 m		
Max. weight of door/gate wing	500 kg	800 kg	800 kg		
Useful rod stroke	270 mm	390 mm	270 mm		
Maximum angle	123 °	130 °	123 °		
Cycle time	33 s	48 s	17 s		
Type of limit switch	work time	work time	work time		
Slowdown	no	no	no		
Locking	Solenoid Lock	Solenoid Lock	Solenoid Lock		
Release	Reversible	Reversible	Reversible		
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch		
Frequency of use	very intensive	very intensive	very intensive		
Protection rating	IP57				
Environmental conditions		-10 ÷ °C			

With Bft Easy Set the installation of an automation system for swing gates has never been easier!

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Code	Name	Description
P935009 00001	LUX	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 $^{\circ}$. Locking system: Solenoid Lock Reversible
P935025 00001	LUX SA	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 $^{\circ}$. Locking system: Solenoid Lock Reversible
P935009 00025	LUX WINTER	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 $^{\circ}$. Locking system: Solenoid Lock Extremely low temperatures
P935044 00001	LUX R	Hydraulic operator 230 V for hinged leaves up to 2.2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 $^{\circ}$. Locking system: Solenoid Lock Reversible
P935044 00002	LUX RSN2	Hydraulic operator 230 V for hinged leaves up to 2.2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Solenoid Lock Reversible
P935010 00001	LUX B	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Hydraulic closing
P935027 00001	LUX BA	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Solenoid Lock Reversible
P935011 00001	LUX 2B	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 $^{\circ}$. Locking system: Open/close hydraulics
P935011 00028	LUX 2B WINTER	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Open/close hydraulics Extremely low temperatures
P935011 00013	LUX 2B UL/CSA 120V	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Open/close hydraulics Locking on closure/opening
P935046 00001	LUX R2B	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Solenoid Lock Reversible
P935046 00002	LUX R 2B SN2	230 V hydraulic operator for swing gate up to 2 m long and weighing 300 kg. Opening 250 mm, movement time 16+slowdown s and maximum opening angle 101°. Locking system: Open/close hydraulics
P935039 00001	LUX FC 2B	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 280 mm, manoeuvre time 17 s and maximum opening angle 117 °. Locking system: Open/close hydraulics
P935046 00004	LUX R 2B 2SN UL/CSA	230 V hydraulic operator for swing gate up to 2 m long and weighing 300 kg. Opening 250 mm, movement time 16+slowdown s and maximum opening angle 101°. Locking system: Open/close hydraulics Locking on closure/opening
P935039 00002	LUX FC 2B UL/CSA	Hydraulic operator 230 V for hinged leaves up to 2 m and 300 kg in weight. Useful travel 280 mm, manoeuvre time 17 s and maximum opening angle 117 °. Locking system: Open/close hydraulics Locking on closure/opening
P935035 00001	LUX MB	Hydraulic operator 230 V for hinged leaves up to 2.3 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 23 s and maximum opening angle 123 °. Locking system: Hydraulic closing Locking on closure
P935014 00001	LUX GV	Hydraulic operator 230 V for hinged leaves up to 3.5 m and 300 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 °. Locking system: Solenoid Lock Reversible
P935012 00001	LUX L	Hydraulic operator 230 V for hinged leaves up to 4 m and 500 kg in weight. Useful travel 270 mm, manoeuvre time 33 s and maximum opening angle 123°. Locking system: Solenoid Lock Reversible
P935049 00001	LUX LR	Hydraulic operator 230 V for hinged leaves up to 4 m and 500 kg in weight. Useful travel 270 mm, manoeuvre time 33 s and maximum opening angle 123°. Locking system: Solenoid Lock Reversible
P935013 00001	LUX G	Hydraulic operator 230 V for hinged leaves up to 5 m and 800 kg in weight. Useful travel 390 mm, manoeuvre time 48 s and maximum opening angle 130°. Locking system: Solenoid Lock Reversible
P935013 00022	LUX G WINTER	Hydraulic operator 230 V for hinged leaves up to 5 m and 800 kg in weight. Useful travel 270 mm, manoeuvre time 17 s and maximum opening angle 123 $^{\circ}$. Locking system: Solenoid Lock Extremely low temperatures
R935217 00002	LUX MB KIT	Kit for swing gates up to 2.3 m, 300 kg in weight. Hydraulic operators with useful travel 270 mm, max angle 123 °, locking Hydraulic closing and release Triangle key. Cycle time 23 s. Power input 250 W. Locking on closure

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W

 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 RIGEL 4 RIGEL 3 RIGEL N





RECOMMENDED ACCESSORIES

	D114092 00002 - ALCOR AC A		D113680 00002 - ALPHA SD
	Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.	- &	Universal control panel with potentiometers for one 230V/500W single-phase operator
	N733426 - ARB LUX		N733474 - ARB LUX G
	Adjustable front and rear bracket for LUX operator		Adjustable front and rear bracket for LUX G operator
	D730178 - PLE		N999131 - NAT
7	Anchor plate for welding the mountings to masonry pillars for LUX, ORO, PHOBOS operators	0	Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath
	D111013 - ME	(3)	D610180 - CLS
L. Marie	Control board for 12Vac solenoid lock for 230V automation systems	Ţ	Triangular release key l=52 mm

With Bft Easy Set the installation of an automation system for swing gates has never been easier!











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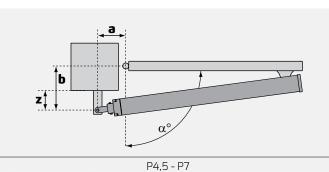
Extremely sturdy and reliable hydraulic operators for industrial and condominium use. They can automate swing gate leaves up to 7m wide and weighing up to 500kg.

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.

Dimension (mm)

90 1418 1335-925 -390 @ **10**

INSTALLATION DIMENSIONS



						- C,+	/					
Z	> 50		a (mm)									
(1	mm)	120	135	150	165	180	195	210	225	240	255	270
)	12Ó						117	109	103	99	95	92
	135					123	111	104	99	95	92	
	150					114	105	99	95	92		
	165				123	107	100	95	91			
(mm)	180				109	100	95	91				
ĮΕ	195			118	101	95	90					
) q	210			103	95	90						
	225		106	95	89							
	240		95	89								
	255	95	88									
	270	88										α°

	P4,5	P4,5 WINTER	P4.5 UL/CSA	P7	P7 WINTER	P7 UL/CSA
Control unit			RIG	EL 6		
Board power supply	230 V	V	V	230 V	230 V	230 V
Motor voltage	230 V	230 V	120 V	230 V	230 V	120 V
Power input	250 W					
Max. width of door/gate wing	4.5 m	4.5 m	4.5 m	7 m	7 m	7 m
Max. weight of door/gate wing	500 kg					
Useful rod stroke	390 mm					
Maximum angle	123 °	123 °	123 °	123 °	123 °	123 °
Cycle time	28+slowdown s	28+slowdown s	28+slowdown s	42+slowdown s	42+slowdown s	42+slowdown s
Type of limit switch	work time					
Slowdown	During closing					
Locking	Solenoid Lock					
Release	Reversible	Reversible	Reversible	Reversible	Reversible	Reversible
Impact reaction	Hydraulic clutch					
Frequency of use	very intensive					
Protection rating			IP!	55		
Environmental conditions	-10 ÷ 60 °C	-30 ÷ 60 °C	-10 ÷	60 °C	-30 ÷ 60 °C	-10 ÷ 60 °C





Code	Name	Description
P935061 00001	P4,5	Reversible hydraulic operator for swing gates up to 4.5 m. 500 kg in weight. Cycle time 28+slowdown s. Useful travel 390 mm. max angle 123 °. Closing slowdown
P935061 00004	P4,5 WINTER	Reversible hydraulic operator for swing gates up to 4.5 m. 500 kg in weight. Cycle time $28+s$ lowdown s. Useful travel 390 mm. max angle 123° . Extremely low temperatures
P935061 00003	P4.5 UL/CSA	Reversible hydraulic operator for swing gates up to 4.5 m. 500 kg in weight. Cycle time 28+slowdown s. Useful travel 390 mm. max angle 123 °. Closing slowdown
P935060 00001	P7	Reversible hydraulic operator for swing gates up to 7 m. 500 kg in weight. Cycle time 42+slowdown s. Useful travel 390 mm. max angle 123°. Closing slowdown
P935060 00004	P7 WINTER	Reversible hydraulic operator for swing gates up to 7 m. 500 kg in weight. Cycle time 42+slowdown s. Useful travel 390 mm. max angle 123°. Extremely low temperatures
P935060 00003	P7 UL/CSA	Reversible hydraulic operator for swing gates up to 7 m. 500 kg in weight. Cycle time 42+slowdown s. Useful travel 390 mm. max angle 123 °. Closing slowdown

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators

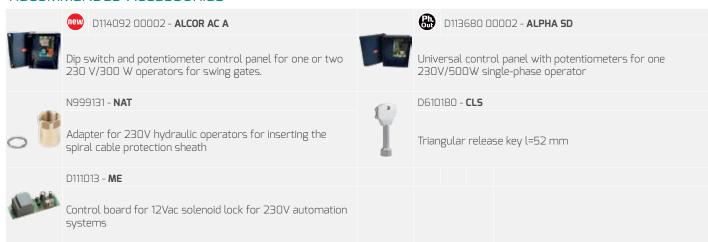


D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
- Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES



With Bft Easy Set the installation of an automation system for swing gates has never been easier!













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232 233 233

















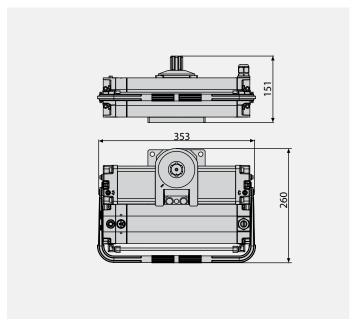






Low voltage hydraulic operator for very intensive use, suitable for any type of residential, industrial or multi-residence application. Compact and sturdy, they can automate swing gate leaves up to 2.5m wide and weighing up to 800kg. Fitted with mechanical stops and virtual encoder, guaranteeing maximum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

Dimension (mm)



	SUB BT
Control unit	THALIA P
Board power supply	230 V
Motor voltage	24 V
Power input	300 W
Max. width of door/gate wing	2.5 m
Max. weight of door/gate wing	800 kg
Maximum angle	120 °
Cycle time	13 s
Slowdown	Yes
Locking	Open/close hydraulics
Release	Lever or lever with personalised key
Impact reaction	D-Track
Frequency of use	very intensive
Protection rating	IP67
Environmental conditions	-20 ÷ 60 °C





Code	Name	Description
P930123 00001	SUB BT	Low voltage, in-ground irreversible hydraulic operator for hinged leaves up to 2.5 m. weight 800 kg. D-Track

THALIA P: Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems



D113747 00002 - THALIA P - Recommended



- 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.
- Application: display panel for 1 or 2 24V operators
 Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R

RECOMMENDED ACCESSORIES

D113745 00002 - THALIA		N733480 00001 - FCS BT
Control panel with display for one or two 24V electromech- anical operators for swing gates		Foundation box for SUB BT series operators
N733392 - SCC		N733502 - SCP
Release for ELI 250N and SUB BT with lever key.		Release for ELI 250 and SUB BT with personalized key.
P125020 - BBT BAT		
Set of backup batteries for THALIA and THALIA P		







control devices

release systems

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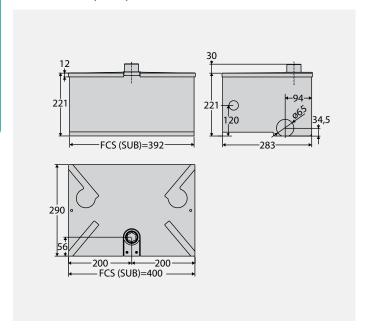




Compact and sturdy, capable of automating swing gate leaves up to 3.5 metres wide and weighing up to 800 kg.

Available in reversible and non-reversible versions, with or without slowdown during opening and closing and with opening angles up to

Dimension (mm)



	SUB DX	SUB SX	SUB R DX	SUB R SX	SUB R UL/CSA DX	SUB R WINTER DX
Control unit			RIG	EL 6		
Board power supply	230 V					
Motor voltage	230 V	230 V	230 V	230 V	120 V	230 V
Power input	250 W					
Max. width of door/gate wing	1.8 m	1.8 m	1.8 m	1.8 m	3.5 m	1.8 m
Max. weight of door/gate wing	800 kg					
Maximum angle	130 °	130 °	130 °	130 °	130 °	130 °
Cycle time	24 s	24 s	14+slowdown s	14+slowdown s	14+slowdown s	14+slowdown s
Type of limit switch	work time					
Slowdown	no	no	Yes	Yes	Yes	Yes
Locking	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics
Release	Triangle key	Triangle key	Triangle key	Triangle key	Non reversing	Non reversing
Impact reaction	Hydraulic clutch					
Frequency of use	very intensive					
Protection rating			IP	67		
Environmental conditions			-10 ÷ 60 °C			-30 ÷ 60 °C





	SUB R WINTER SX	SUB E DX	SUB E SX	SUB ER DX	SUB ER SX	SUB EL DX
Control unit			RIG	EL 6		
Board power supply	230 V	230 V	230 V	230 V	230 V	230 V
Motor voltage	230 V	230 V	230 V	230 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W
Max. width of door/gate wing	1.8 m	2.5 m	2.5 m	2.5 m	2.5 m	3.5 m
Max. weight of door/gate wing	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg
Maximum angle	130 °	130 °	130 °	130 °	130 °	130 °
Cycle time	14+slowdown s	24 s	24 s	14+slowdown s	14+slowdown s	33 s
Type of limit switch	work time	work time	work time	work time	work time	work time
Slowdown	Yes	no	no	Yes	Yes	no
Locking	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Solenoid Lock	Solenoid Lock	Solenoid Lock
Release	Non reversing	Non reversing	Non reversing	Reversible	Reversible	Reversible
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Protection rating			IP	67		
Environmental conditions	-30 ÷ 60 °C			-10 ÷ 60 °C		

	SUB EL SX	SUB G DX	SUB G SX	SUB G UL/CSA DX	SUB EG DX	SUB EG SX
Control unit			RIG	EL 6		
Board power supply	230 V	230 V	230 V	230 V	230 V	230 V
Motor voltage	230 V	230 V	230 V	120 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W	250 W
Max. width of door/gate wing	3.5 m	1.8 m	1.8 m	3.5 m	1.8 m	1.8 m
Max. weight of door/gate wing	800 kg	800 kg	800 kg	800 kg	800 kg	800 kg
Maximum angle	130 °	180°	180 °	180°	130 °	130 °
Cycle time	33 s	33 s	33 s	33 s	24 s	24 s
Type of limit switch	work time	work time	work time	work time	work time	work time
Slowdown	no	no	no	no	no	no
Locking	Solenoid Lock	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics	Open/close hydraulics
Release	Reversible	Triangle key	Triangle key	Non reversing	Non reversing	Non reversing
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Protection rating			IP	67		
Environmental conditions			-10 ÷	60 °C		





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Code	Name	Description
P930026	матте	Description
00001	SUB DX	In-ground 230 V hydraulic operator Triangle key for hinged leaves up to 1.8 m. Manoeuvre time 24 s. Right operator. very intensive
P930026 00002	SUB SX	In-ground 230 V hydraulic operator Triangle key for hinged leaves up to 1.8 m. Manoeuvre time 24 s. Left operator. very intensive
P930012 00005	SUB R DX	In-ground 230 V irreversible hydraulic operator for swing gates up to 1.8 m with slowdown. Maneuver time 14+slowdown s. Right operator. Slowdown
P930012 00006	SUB R SX	In-ground 230 V irreversible hydraulic operator for swing gates up to 1.8 m with slowdown. Maneuver time 14+slowdown s. Left operator. Slowdown
P930012 00007	SUB R UL/CSA DX	In-ground 120 V irreversible hydraulic operator for swing gates up to 3.5 m with slowdown. Maneuver time 14+slowdown s. Right operator. Slowdown
P930012 00009	SUB R WINTER DX	In-ground 230 V irreversible hydraulic operator for swing gates up to 1.8 m with slowdown. Maneuver time 14+slowdown s. Right operator. Extremely low temperatures
P930012 00010	SUB R WINTER SX	In-ground 230 V irreversible hydraulic operator for swing gates up to 1.8 m with slowdown. Maneuver time 14+slowdown s. Left operator. Extremely low temperatures
P930009 00004	SUB E DX	In-ground 230 V hydraulic operator Non reversing for hinged leaves up to 2.5 m. Manoeuvre time 24 s. Right operator. very intensive
P930009 00005	SUB E SX	In-ground 230 V hydraulic operator Non reversing for hinged leaves up to 2.5 m. Manoeuvre time 24 s. Right operator. very intensive
P930013 00007	SUB ER DX	In-ground 230 V irreversible hydraulic operator for swing gates up to 2.5 m with slowdown. Maneuver time 14+slowdown s. Right operator. Slowdown
P930013 00008	SUB ER SX	In-ground 230 V irreversible hydraulic operator for swing gates up to 2.5 m with slowdown. Maneuver time 14+slowdown s. Left operator. Slowdown
P930014 00005	SUB EL DX	In-ground 230 V hydraulic operator Reversible for hinged leaves up to 3.5 m. Manoeuvre time 33 s. Right operator. very intensive
P930014 00006	SUB EL SX	In-ground 230 V hydraulic operator Reversible for hinged leaves up to 3.5 m. Manoeuvre time 33 s. Right operator. very intensive
P930010 00005	SUB G DX	In-ground 230 V hydraulic operator Triangle key for hinged leaves up to 1.8 m. Manoeuvre time 33 s. Right operator. very intensive
P930010 00006	SUB G SX	In-ground 230 V hydraulic operator Triangle key for hinged leaves up to 1.8 m. Manoeuvre time 33 s. Right operator. very intensive
P930010 00007	SUB G UL/CSA DX	In-ground 120 V hydraulic operator Non reversing for hinged leaves up to 3.5 m. Manoeuvre time 33 s. Right operator. very intensive
P930011 00005	SUB EG DX	In-ground 230 V hydraulic operator Non reversing for hinged leaves up to 1.8 m. Manoeuvre time 24 s. Right operator. very intensive
P930011 00006	SUB EG SX	In-ground 230 V hydraulic operator Non reversing for hinged leaves up to 1.8 m. Manoeuvre time 24 s. Right operator. very intensive
		<u>-</u>

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
- Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N





RECOMMENDED ACCESSORIES

1	D114092 00002 - ALCOR AC A		D113680 00002 - ALPHA SD				
	Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.		Universal control panel with potentiometers for one 230V/500W single-phase operator				
1	D610256 - CL5/82		N733066 00003 - FCS DX				
	Triangular release key for SUB operators l=82 mm		Foundation box designed for fitting the SUB right-hand operator, allowing easy maintenance without ever having to disassemble the gate leaf				
	N733066 00004 - FCS SX		N733066 00001 - CPS DX				
	Foundation box designed for fitting the SUB left-hand operator, allowing easy maintenance without ever having to disassemble the gate leaf		Foundation box designed for fitting the SUB right-hand operator				
	N733066 00002 - CPS SX		N733092 - CP5 G				
	Foundation box designed for fitting the SUB left-hand operator		Weight-bearing foundation box for preparation for assembly of SUB G right and left operator				
\	N728002 - BSC		D111013 - ME				
	Arm for installation of SUB out of the gate axis	C.	Control board for 12Vac solenoid lock for 230V automation systems				







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Sliding gate automation systems

Guide to choosing

Max. door/ gate weight	Supply voltage AC	Frequency of use	Kit	Operator	Plus
				slide	
			-	DEIMOS BT A400 V	Limit switch Electromechanical
300 kg	24 V		-	DEIMOS BT A400 V SQ	Limit switch Electromechanical
	120 V		-	DEIMOS ULTRA BT A400 V	U-Link and Magnetic limit switch
		intensive	-	DEIMOS BT A400 V 120	Limit switch Electromechanical
	24 V		-	DEIMOS BT A600 V	Limit switch Electromechanical
360 kg			-	DEIMOS BT A600 V SQ	Limit switch Electromechanical
			-	DEIMOS ULTRA BT A600 V	U-Link and Magnetic limit switch
	120 V		-	DEIMOS BT A600 V 120	Limit switch Electromechanical
370 kg	120 V	Semi intens-	-	DEIMOS AC A600 120 V	Unit with removable standard terminals Frontal screws
270 Kg	230 V	ive	-	DEIMOS AC A600 V	Unit with removable standard terminals Frontal screws
	24 V		-	DEIMOS BT A400	Limit switch Electromechanical
		intensive	-	DEIMOS BT A400 SQ	Limit switch Electromechanical
			•	DEIMOS BT KIT A400 FRA	Limit switch
			-	DEIMOS ULTRA BT A400	U-Link and Magnetic limit switch
400 kg			•	DEIMOS ULTRA BT KIT A400 FRA	U-Link and limit switch
	120 V	Semi intens ive	-	DEIMOS AC A800 120 V	Brake and clutch electronically managed. Limit switch Electromechanical
			-	DEIMOS AC A800 120 V SL DN	Brake and clutch electronically managed. Limit switch Electromechanical
		intensive	-	DEIMOS BT A400 120	Limit switch Electromechanical
	230 V	Semi intens- ive	-	DEIMOS AC A800 V	Brake and clutch electronically managed. Limit switch Electromechanical
			-	DEIMOS AC A800 V SL DN	Brake and clutch electronically managed. Limit switch Electromechanical
500 kg		intensive	-	ARES BT A1000 V	Limit switch Electromechanical
	24 V		-	DEIMOS BT A600	Limit switch Electromechanical
			-	DEIMOS BT A600 SQ	Limit switch Electromechanical
			•	DEIMOS BT KIT A600 FRA	Limit switch
			-	DEIMOS ULTRA BT A600	U-Link and Magnetic limit switch
600 kg			•	DEIMOS ULTRA BT KIT A600 FRA	U-Link and limit switch
ado kg	120 V	Semi intens- ive	-	DEIMOS AC A600 120	Unit with removable standard terminals Frontal screws
		intensive	-	DEIMOS BT A600 120	Limit switch Electromechanical
	230 V	Semi intens-	-	DEIMOS AC A600	Unit with removable standard terminals. Frontal screws.
			_	DEIMOS AC A600 SQ	Frontal screws
			•	DEIMOS AC KIT A600 FRA	Unit with removable standard terminals Frontal screws
750 kg	24 V	intensive	-	ARES BT A1500 V	Limit switch Electromechanical
	120 V	Semi intens-	-	DEIMOS AC A800 120	Brake and clutch electronically managed. Limit switch Electromechanical
			-	DEIMOS AC A800 120 SL DN	Brake and clutch electronically managed. Limit switch Electromechanical
			-	DEIMOS AC A800	Brake and clutch electronically managed. Limit switch Electromechanical
800 kg			-	DEIMOS AC A800 SQ	Brake and clutch electronically managed. Limit switch Electromechanical
			•	DEIMOS AC KIT A800 FRA	Brake and clutch electronically managed. Limit switch
			-	DEIMOS AC A800 SL DN	Brake and clutch electronically managed. Limit switch Electromechanical
			•	DEIMOS AC KIT A800 INT SL DN	Brake and clutch electronically managed. Limit switch
1000 kg	24 V	intensive	-	ARES BT A1000	Limit switch Electromechanical
			-	ARES ULTRA BT A1000	U-Link and Magnetic limit switch
	120 V		-	ARES ULTRA BT A1000 120	U-Link and Magnetic limit switch
	230 V	very intens-	-	ICARO SMART AC A2000 V	Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.





Max. door/ gate weight	Supply voltage AC	Frequency of use	Kit	Operator	Plus			
	24 V		-	ARES BT A1500	Limit switch Electromechanical			
1500 kg	24 V	intensive	-	ARES ULTRA BT A1500	U-Link and Magnetic limit switch			
			-	ARES ULTRA BT A1500 120	U-Link and Magnetic limit switch			
	120 V		-	ICARO SMART AC A2000 120	Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.			
				-	ICARO SMART AC A2000 V 120	Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.		
2000 kg			-	ICARO SMART AC A2000	Control unit arranged for communication with U-link protocol and tamper-proof function. Absolute encoder and torque management with D-track system.			
		very intens- ive	-	ICARO SMART AC A2000 SQ	Limit switch Electromechanical. Equipped with mechanical safety clutch.			
	230 V		_	-	ICARO SMART AC A2000 V SQ	Limit switch Electromechanical. Equipped with mechanical safety clutch.		
								-
			-	SP3500 TRI 230	Control unit with display and U-Link communication protocol			
3500 kg	600 V		-	SP3500 TRI 400	Control unit with display and U-Link communication protocol			
	400 V		-	SP3500 SF TRI 400	Control unit with display and U-Link communication protocol			

Installation guide



Α	Operator
В	Control unit
С	Backup Batteries
D	Receiver
Ε	Photocell
F	Photocell safety edge
G	Sensitive edge
Н	Post
1	Flashing Beacon
L	Control system (key selector switch, keypad, badge reader)
М	Rack
0	Solar panel
	2x1.5
	3x1.5
	RG 58
	5x1
	2x1
	9x0.5







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

P. 226 signalling devices
P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
P. 228 solenoid locks
P. 229 release systems
P. 230













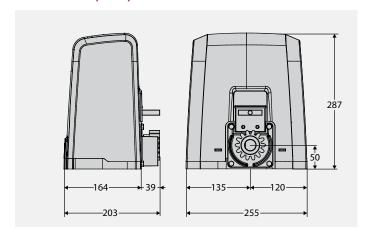






Range of operators for sliding gates weighing up to 600 Kg. Power supply 24V. Maximum leaf speed up to 16 m/min. Residential use.

Dimension (mm)



	DEIMOS BT A400	DEIMOS BT A400 V	DEIMOS BT A400 SQ	DEIMOS BT A400 V SQ	DEIMOS BT A400 120	DEIMOS BT A400 V 120	
Control unit	HAI	MAL	_			HAMAL	
Board power supply	230 V	230 V	230 V	230 V	120 V	120 V	
Supply voltage AC	24 V	24 V	24 V	24 V	120 V	120 V	
Power input	50 W	50 W	50 W	50 W	50 W	50 W	
Max. door/gate weight	400 kg	300 kg	400 kg	300 kg	400 kg	300 kg	
Gate speed	12 m/min	16 m/min	12 m/min	16 m/min	12 m/min	16 m/min	
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	
Pinion module	4	4	4	4	4	4	
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes	
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
Release	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	
Impact reaction	D-Track	D-Track	D-Track	D-Track	D-Track	D-Track	
Frequency of use	intensive	intensive	intensive	intensive	intensive	intensive	
Protection rating	IP24						
Environmental conditions			-20 ÷	55 °C			

	DEIMOS BT A600	DEIMOS BT A600 V	DEIMOS BT A600 SQ	DEIMOS BT A600 V SO	DEIMOS BT A600 120	DEIMOS BT A600 V 120
Control unit	HAI	MAL			HAMAL	
Board power supply	230 V	230 V	230 V	230 V	120 V	120 V
Supply voltage AC	24 V	24 V	24 V	24 V	120 V	120 V
Power input	70 W	70 W	70 W	70 W	70 W	70 W
Max. door/gate weight	600 kg	360 kg	600 kg	360 kg	600 kg	360 kg
Gate speed	12 m/min	16 m/min	12 m/min	16 m/min	12 m/min	16 m/min
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical
Pinion module	4	4	4	4	4	4
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key
Impact reaction	D-Track	D-Track ′	D-Track	D-Track	D-Track	D-Track
Frequency of use	intensive	intensive	intensive	intensive	intensive	intensive
Protection rating	IP24					
Environmental conditions	-20 ÷ 55 °C					





Code	Name	Description
P925222 00002	DEIMOS BT A400	Operator 24 V for sliding gates up to 400 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P925222 00003	DEIMOS BT A400 V	Operator 24 V for sliding gates up to 300 kg in weight. Leaf speed 16 m/min. Limit switch Electromechanical
P925222 00005	DEIMOS BT A400 SQ	Operator 24 V for sliding gates up to 400 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P925222 00006	DEIMOS BT A400 V SQ	Operator 24 V for sliding gates up to 300 kg in weight. Leaf speed 16 m/min. Limit switch Electromechanical
P925222 00001	DEIMOS BT A400 120	Operator 120 V for sliding gates up to 400 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P925222 00004	DEIMOS BT A400 V 120	Operator 120 V for sliding gates up to 300 kg in weight. Leaf speed 16 m/min. Limit switch Electromechanical
P925224 00002	DEIMOS BT A600	Operator 24 V for sliding gates up to 600 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P925224 00003	DEIMOS BT A600 V	Operator 24 V for sliding gates up to 360 kg in weight. Leaf speed 16 m/min. Limit switch Electromechanical
P925224 00005	DEIMOS BT A600 SQ	Operator 24 V for sliding gates up to 600 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P925224 00006	DEIMOS BT A600 V SQ	Operator 24 V for sliding gates up to 360 kg in weight. Leaf speed 16 m/min. Limit switch Electromechanical
P925224 00001	DEIMOS BT A600 120	Operator 120 V for sliding gates up to 600 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P925224 00004	DEIMOS BT A600 V 120	Operator 120 V for sliding gates up to 360 kg in weight. Leaf speed 16 m/min. Limit switch Electromechanical
R925267 00002	DEIMOS BT KIT A400 FRA	Complete kit 24 V for sliding gates weighing up to 400 kg. Leaf speed 12 m/min. Limit switch Electromechanical
R925271 00002	DEIMOS BT KIT A600 FRA	Complete kit 24 V for sliding gates weighing up to 600 kg. Leaf speed 12 m/min. Limit switch Electromechanical

HAMAL: Control panel with trimmer and dip switch for one operator, 230V - 70W

HAMAL - Built in



- Control panel with trimmer and dip switch for one operator, 230V 70W
- Application: built-in control unit for one 24V operator for sliding gates
- Board power supply: 230V single-phase
- Operator power supply: 24V 80W
- Main features: removable terminal blocks with new standard colour-coding, dip-switch programming and potentiometers, incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing
- Principal functions: automatic closing, pedestrian opening with remote control only, 8k2 obstruction sensor input, rapid closure

RECOMMENDED ACCESSORIES







226 signalling devices
226 safety devices - photocells and accessories
227 safety devices - sensitive edges

P. 227 safety devices - sensitive edges
P. 228 rubber profiles
P. 228 solenoid locks

release systems

P. 232 P. 233 P. 233 P. 234

DEIMOS ULTRA BT A

















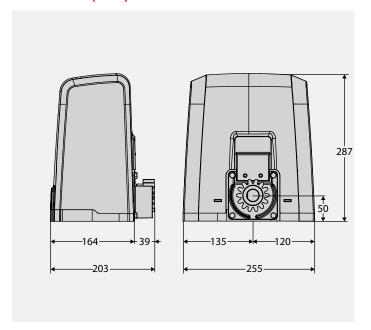




Range of operators for sliding gates weighing up to 600 Kg.
Maximum leaf speed up to 16 m/min.
Newly designed magnetic limit switch for quicker installation; precise and perfectly integrated with architecture of site.
Residential use.

Control unit designed for use with the Blue Entry system.

Dimension (mm)



	DEIMOS ULTRA BT A400	DEIMOS ULTRA BT A400 V	DEIMOS ULTRA BT A600	DEIMOS ULTRA BT A600 V	
Control unit		K SL1	MERAK SL2		
Board power supply	230 V	230 V	230 V	230 V	
Supply voltage AC	24 V	24 V	24 V	24 V	
Power input	50 W	50 W	70 W	70 W	
Max. door/gate weight	400 kg	300 kg	600 kg	360 kg	
Gate speed	12 m/min	16 m/min	12 m/min	16 m/min	
Type of limit switch	Magnetic	Magnetic	Magnetic	Magnetic	
Pinion module	4	4	4	4	
Slowdown	Yes	Yes	Yes	Yes	
Locking	Mechanical	Mechanical	Mechanical	Mechanical	
Release	Lever-operated with personal key				
Impact reaction	D-Track	D-Track	D-Track	D-Track	
Frequency of use	intensive	intensive	intensive	intensive	
Protection rating	IP44				
Environmental conditions		-20 ÷ 55 °C			





Code	Name	Description	
P925221 00002	DEIMOS ULTRA BT A400	Operator 24 V for sliding gates up to 400 kg in weight. Leaf speed 12 m/min. U-Link and Magnetic limit switch	U-Link
P925221 00003	DEIMOS ULTRA BT A400 V	Operator 24 V for sliding gates up to 300 kg in weight. Leaf speed 16 m/min. U-Link and Magnetic limit switch	U-Link
P925223 00002	DEIMOS ULTRA BT A600	Operator 24 V for sliding gates up to 600 kg in weight. Leaf speed 12 m/min. U-Link and Magnetic limit switch	U-Link
P925223 00003	DEIMOS ULTRA BT AGOO V	Operator 24 V for sliding gates up to 360 kg in weight. Leaf speed 16 m/min. U-Link and Magnetic limit switch	U-Link
R925265 00002	DEIMOS ULTRA BT <mark>KIT</mark> A400 FRA	Complete kit 24 V for sliding gates weighing up to 400 kg. Leaf speed 12 m/min. U-Link and Magnetic limit switch	U-Link
R925269 00002	DEIMOS ULTRA BT <mark>KIT</mark> AGOO FRA	Complete kit 24 V for sliding gates weighing up to 600 kg. Leaf speed 12 m/min. U-Link and Magnetic limit switch	U-Link

MERAK: Incorporated control unit for one 24V operator for sliding gates

MERAK - Built in



- Incorporated control unit for one 24V operator for sliding gates
- Board power supply: 230V single-phase
- Operator power supply: 24V 80W
- Main functions:: automatic closing, quick closing, pedestrian passage, people-present operation, maintenance warnings.
- Compatibility: HQSC-D, QSC-D MA
- Principal features: removable terminal boards with new colour standard, simplified scenario programming with display, integrated dual channel receiver, protection against crushing based on D-Track system, slowdown during opening and closing

RECOMMENDED ACCESSORIES









control devices

227 228 safety devices - sensitive edges rubber profiles P. 228 solenoid locks release systems





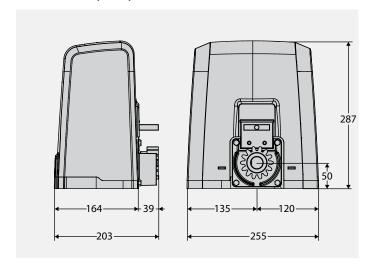






Range of residential operators for sliding gates weighing up to 800 Kg. Electromechanical limit switch, 230V supply power.

Dimension (mm)



	DEIMOS AC A600	DEIMOS AC A600 SQ	DEIMOS AC A600 V	DEIMOS AC A600 120	DEIMOS AC A600 120 V	DEIMOS AC A800
Control unit	SHYRA AC	Not present		SHYRA AC		SHYRA-F AC
Board power supply	230 V	230 V	230 V	230 V	230 V	230 V
Supply voltage AC	230 V	230 V	230 V	120 V	120 V	230 V
Power input	400 W	400 W	400 W	400 W	400 W	300 W
Max. door/gate weight	600 kg	600 kg	370 kg	600 kg	370 kg	800 kg
Gate speed	9 m/min	9 m/min	11 m/min	9 m/min	11 m/min	9 m/min
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical
Pinion module	4	4	4	4	4	4
Slowdown	no	no	no	no	no	no
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key
Impact reaction	Mechanical clutch	Mechanical clutch	Mechanical clutch	Mechanical clutch	Mechanical clutch	Electronic clutch
Frequency of use	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive
Protection rating			IP:	24		
Environmental conditions	-20 ÷ 55 °C					

	DEIMOS AC A800 SL DN	DEIMOS AC A800 SQ	DEIMOS AC A800 V	DEIMOS AC A800 V SL DN	DEIMOS AC A800 120	DEIMOS AC A800 120 SL DN	DEIMOS AC A800 120 V	DEIMOS AC A800 120 V SL DN
Control unit	SHYRA-F AC	Not present			SHYRA	A-F AC		
Board power supply	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Supply voltage AC	230 V	230 V	230 V	230 V	120 V	120 V	120 V	120 V
Power input	300 W	400 W	300 W	300 W	300 W	300 W	300 W	300 W
Max. door/gate weight	800 kg	800 kg	400 kg	400 kg	800 kg	800 kg	400 kg	400 kg
Gate speed	9 m/min	9 m/min	11 m/min	11 m/min	9 m/min	9 m/min	11 m/min	11 m/min
Type of limit switch	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical
Pinion module	4	4	4	4	4	4	4	4
Slowdown	Yes	no	no	Yes	no	Yes	no	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release				Lever-operated with personal key				Lever-operated with personal key
Impact reaction	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch	Electronic clutch
Frequency of use	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive
Protection rating				IP:	24			
Environmental condi- tions				-20 ÷	55 °C			





Code	Name	Description
P925230 00002	DEIMOS AC A600	Operator 230 V for sliding gates up to 600 kg in weight. Leaf speed 9 m/min. Unit with removable standard terminals. Frontal screws.
P925230 00005	DEIMOS AC A600 SQ	Operator 230 V for sliding gates up to 600 kg in weight. Leaf speed 9 m/min. Frontal screws
P925230 00003	DEIMOS AC A600 V	Operator 230 V for sliding gates up to 370 kg in weight. Leaf speed 11 m/min. Unit with removable standard terminals Frontal screws
P925230 00001	DEIMOS AC A600 120	Operator 120 V for sliding gates up to 600 kg in weight. Leaf speed 9 m/min. Unit with removable standard terminals Frontal screws
P925230 00004	DEIMOS AC A600 120 V	Operator 120 V for sliding gates up to 370 kg in weight. Leaf speed 11 m/min. Unit with removable standard terminals Frontal screws
P925231 00002	DEIMOS AC A800	Operator 230 V for sliding gates up to 800 kg in weight. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925253 00002	DEIMOS AC A800 SL DN	Operator 230 V for sliding gates up to 800 kg in weight. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925231 00005	DEIMOS AC A800 SQ	Operator 230 V for sliding gates up to 800 kg in weight. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925231 00003	DEIMOS AC A800 V	Operator 230 V for sliding gates up to 400 kg in weight. Leaf speed 11 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925253 00003	DEIMOS AC A800 V SL DN	Operator 230 V for sliding gates up to 400 kg in weight. Leaf speed 11 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925231 00001	DEIMOS AC A800	Operator 120 V for sliding gates up to 800 kg in weight. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925253 00001	DEIMOS AC A800 120 SL DN	Operator 120 V for sliding gates up to 800 kg in weight. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925231 00004	DEIMOS AC A800 120 V	Operator 120 V for sliding gates up to 400 kg in weight. Leaf speed 11 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
P925253 00004	DEIMOS AC A800 120 V SL DN	Operator 120 V for sliding gates up to 400 kg in weight. Leaf speed 11 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
R925281 00002	DEIMOS AC KIT A600 FRA	Complete kit 230 V for sliding gates weighing up to 600 kg. Leaf speed 9 m/min. Unit with removable standard terminals Frontal screws
R925283 00002	DEIMOS AC KIT ABOO FRA	Complete kit 230 V for sliding gates weighing up to 800 kg. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical
R925332 00002	DEIMOS AC KIT A800 INT SL DN	Complete kit 230 V for sliding gates weighing up to 800 kg. Leaf speed 9 m/min. Brake and clutch electronically managed. Limit switch Electromechanical

SHYRA AC: SHYRA AC control panel

SHYRA AC - Built in



- Control panel for DEIMOS AC A600 range of sliding operators
- Board power supply: 230V single-phase
- Operator power supply: 230 V single-phase, max. 500 W
- Main functions: pedestrian opening (only by remote control), quick closing, pulse blocking
- Main features: removable terminal blocks, settings controlled by potentiometers, LED-based fault reporting and incorporated dual channel receiver, two safety verified inputs, one of wich dedicated to 8k2 safety edge.

SHYRA-F AC: control board SHYRA-F AC

SHYRA-F AC - Built in



- Control panel for DEIMOS AC A800 sliding gate operator range.
- Board power supply: 230V single-phase
- Operator power supply: 230 V single-phase, max. 500 W
- Main functions: pedestrian opening (only by remote control), quick closing, pulse blocking
- Main features: removable terminal blocks, settings controlled by potentiometers, LED-based fault reporting and incorporated dual channel receiver, electronic clutch management via trimmer, two verified safety inputs, one of wich dedicated to 8k2 safety edge.

RECOMMENDED ACCESSORIES



D221073 - **CP**

plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.



Base plate for DEIMOS series (supplied with operator)

N999320 - **CVZ-S**

steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports Max. load capacity 800 kg.



D571053 - **CVZ**

steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices226 safety devices - photocells and accessories

227 228 safety devices - sensitive edges rubber profiles

228 solenoid locks

release systems

233 233

232













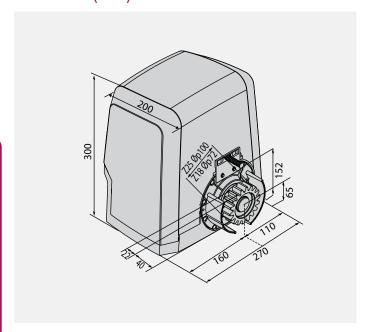






Range of 24V sliding gate operators for intensive use with leaves up to 1500 kg, maximum leaf speed 12 m/min $\,$

Dimension (mm)



	ARES BT A1000 V	ARES BT A1500 V	ARES BT A1000	ARES BT A1500		
Control unit		HAN	HAMAL			
Board power supply	230 V	230 V	230 V	230 V		
Supply voltage AC	24 V	24 V	24 V	24 V		
Power input	240 W	400 W	240 W	400 W		
Max. door/gate weight	500 kg	750 kg	1000 kg	1500 kg		
Gate speed	12 m/min	12 m/min	9 m/min	9 m/min		
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical		
Pinion module	4	4	4	4		
Slowdown	Yes	Yes	Yes	Yes		
Locking	Mechanical	Mechanical	Mechanical	Mechanical		
Release	Knob operated with personal key					
Impact reaction	D-Track	D-Track	D-Track	D-Track		
Frequency of use	intensive	intensive	intensive	intensive		
Protection rating	IP24					
Environmental conditions		-20 ÷ 55 °C				





Code	Name	Description
P926190 00002	ARES BT A1000 V	Operator 24 V for sliding gates up to 500 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P926188 00002	ARES BT A1500 V	Operator 24 V for sliding gates up to 750 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical
P926189 00002	ARES BT A1000	Operator 24 V for sliding gates up to 1000 kg in weight. Leaf speed 9 m/min. Limit switch Electromechanical
P926187 00002	ARES BT A1500	Operator 24 V for sliding gates up to 1500 kg in weight. Leaf speed 9 m/min. Limit switch Electromechanical

HAMAL: Control panel with trimmer and dip switch for one operator, 230V - 70W

HAMAL - Built in



- Control panel with trimmer and dip switch for one operator, 230V 70W
- Application: built-in control unit for one 24V operator for sliding gates

- Application: Building to the Control of the 244 operator for stiding gates
 Board power supply: 230V single-phase
 Operator power reprovable terminal blocks with new standard colour-coding, dip-switch programming and potentiometers, incorporated the base of particles of the control of the 244 operator for stiding gates ated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing

 Principal functions: automatic closing, pedestrian opening with remote control only, 8k2 obstruction sensor input, rapid closure

RECOMMENDED ACCESSORIES

	D221073 - CP		N999320 - CVZ-S				
N. F.	plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.		steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports Max. load capacity 800 kg.				
//	D571053 - CVZ		D571054 - CFZ				
15	steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.	Name of the last o	galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.				
	N999156 - SFI		P125035 - SL BAT2				
	Base plate for ARES and ICARO (supplied with operator)	W.	Emergency battery kit for Deimos BT A, Ares BT A, Deimos Ultra BT A, Ares Ultra BT A.				
	P125018 - THEKE B PRA 01						
	Metal protection box for ARES and ICARO series sliding operators						





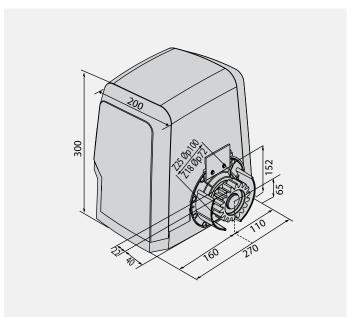






 $24\ V$ sliding gates operator for intensive use,up to 1500 Kg in weight. Leaf speed up to 9 m/min. Magnetic limit switch and control board with U-link protocol embedded

Dimension (mm)



	ARES ULTRA BT A1000	ARES ULTRA BT A1000 120	ARES ULTRA BT A1500	ARES ULTRA BT A1500 120
Control unit		MER	RAK	
Board power supply	230 V	120 V	230 V	120 V
Supply voltage AC	24 V	120 V	24 V	120 V
Power input	240 W	240 W	400 W	400 W
Max. door/gate weight	1000 kg	1000 kg	1500 kg	1500 kg
Gate speed	9 m/min	9 m/min	9 m/min	9 m/min
Type of limit switch	Magnetic	Magnetic	Magnetic	Magnetic
Pinion module	4	4	4	4
Slowdown	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical
Release	Lever-operated with personal key			
Impact reaction	D-Track	D-Track	D-Track	D-Track
Frequency of use	intensive	intensive	intensive	intensive
Protection rating	IP44			
Environmental conditions		55 °C		





Code	Name	Description	
P926193 00002	ARES ULTRA BT A1000	Operator 24 V for sliding gates up to 1000 kg in weight. Leaf speed 9 m/min. U-Link and Magnetic limit switch	U-Link
P926193 00001	ARES ULTRA BT A1000 120	Operator 120 V for sliding gates up to 1000 kg in weight. Leaf speed 9 m/min. U-Link and Magnetic limit switch	U-Link
P926191 00002	ARES ULTRA BT A1500	Operator 24 V for sliding gates up to 1500 kg in weight. Leaf speed 9 m/min. U-Link and Magnetic limit switch	U-Link
P926191 00001	ARES ULTRA BT A1500 120	Operator 120 V for sliding gates up to 1500 kg in weight. Leaf speed 9 m/min. U-Link and Magnetic limit switch	U-Link

MERAK: Incorporated control unit for one 24V operator for sliding gates

MERAK - Built in



- Incorporated control unit for one 24V operator for sliding gates
- Board power supply: 230V single-phase
- Operator power supply: 24V 80W
- Main functions;: automatic closing, quick closing, pedestrian passage, people-present operation, maintenance warnings.
- Compatibility: HQSC-D, QSC-D MA
- Principal features: removable terminal boards with new colour standard, simplified scenario programming with display, integrated
 dual channel receiver, protection against crushing based on D-Track system, slowdown during opening and closing

RECOMMENDED ACCESSORIES

	(CCOMMENDED / CCCSSOTICS						
		D221073 - CP		N999320 - CVZ-S			
N. S. C.	plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.	-	steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports Max. load capacity 800 kg.				
	E	D571053 - CVZ		D571054 - CFZ			
		steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.	Service Control of the Control of th	galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.			
		P111468 - B EBA RS 485 LINK		P125035 - SL BAT2			
,		Expansion board for connection of central units with serial controls management	W.	Emergency battery kit for Deimos BT A, Ares BT A, Deimos Ultra BT A, Ares Ultra BT A.			
		P125018 - THEKE B PRA 01		N999156 - SFI			
	Metal protection box for ARES and ICARO series sliding operators		Base plate for ARES and ICARO (supplied with operator)				







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P. 226 safety devices - photocells and accessories
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ICARO SMART AC A























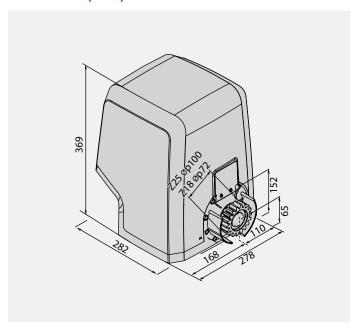




230V sliding gate operators for very intensive use, extremely sturdy and high-performance thanks to oil bath transmission. Control of torque via D-track technology and absolute encoder for maximum precision of movement. Control unit arranged for communication with U-link protocol and with tamper-proof function.

The control unit ensures complete safety thanks to the exclusive torque control system that makes these operators comply fully with the current European standards.

Dimension (mm)



	ICARO SMART AC A2000 V	ICARO SMART AC A2000 V SQ	ICARO SMART AC A2000	ICARO SMART AC A2000 SQ	ICARO SMART AC A2000 V 120	ICARO SMART AC A2000 120
Control unit	LEO B CBB LO2	-	LEO B CBB LO2	-	LEO B C	BB LO2
Board power supply	230 V	- V	230 V	- V	230 V	230 V
Supply voltage AC	230 V	230 V	230 V	230 V	120 V	120 V
Power input	750 W	750 W	750 W	750 W	750 W	750 W
Max. door/gate weight	1000 kg	2000 kg	2000 kg	2000 kg	2000 kg	2000 kg
Gate speed	12 m/min	12 m/min	9 m/min	9 m/min	12 m/min	9 m/min
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical
Pinion module	4	4	4	4	4	4
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key	Lever-operated with personal key
Impact reaction	Mechanical clutch + encoder	Mechanical clutch + encoder	Mechanical clutch + encoder	Mechanical clutch + encoder	Mechanical clutch + encoder	Mechanical clutch + encoder
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive	very intensive
Protection rating	IP24					
Environmental conditions		-20 ÷ 55 °C		-20 ÷ 60 °C	-20 ÷	55 °C





Code	Name	Description	
P925237 00002	ICARO SMART AC A2000 V	Operator 230 V for sliding gates up to 1000 kg with absolute encoder. Leaf speed 12 m/min. Limit switch Electromechanical. Equipped with mechanical safety clutch, torque management via D-track technology and gear unit in oil bath. Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.	U-Link
P925237 00003	ICARO SMART AC A2000 V SQ	Operator 230 V for sliding gates up to 2000 kg in weight. Leaf speed 12 m/min. Limit switch Electromechanical. Equipped with mechanical safety clutch.	U-Link
P925236 00002	ICARO SMART AC A2000	Operator 230 V for sliding gates up to 2000 kg with absolute encoder. Leaf speed 9 m/min. Limit switch Electromechanical. Equipped with mechanical safety clutch, torque management via D-track technology and gear unit in oil bath. Control unit arranged for communication with U-link protocol and tamper-proof function. Absolute encoder and torque management with D-track system.	U-Link
P925236 00003	ICARO SMART AC A2000 SQ	Operator 230 V for sliding gates up to 2000 kg in weight. Leaf speed 9 m/min. Limit switch E tromechanical. Equipped with mechanical safety clutch.	lec-
P925237 00001	ICARO SMART AC A2000 V 120	Operator 120 V for sliding gates up to 2000 kg with absolute encoder. Leaf speed 12 m/min. Limit switch Electromechanical. Equipped with mechanical safety clutch, torque management via D-track technology and gear unit in oil bath. Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.	U-Link
P925236 00001	ICARO SMART AC A2000 120	Operator 120 V for sliding gates up to 2000 kg with absolute encoder. Leaf speed 9 m/min. Limit switch Electromechanical. Equipped with mechanical safety clutch, torque management via D-track technology and gear unit in oil bath. Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.	U-Link

LEO B CBB LO2: Incorporated control unit for one 230V operator for sliding gates

LEO B CBB LO2 - Built in



- Incorporated control unit for one 230V operator for sliding gates
 Application: built-in control unit for one 230V operator for sliding gates
- Board power supply: 230V single-phaseOperator power supply: 230V 750W
- Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display, incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing
- Main functions: automatic re-closing, fast closing, pedestrian opening

RECOMMENDED ACCESSORIES

	Necommended Necessories						
	D221073 - CP		N999320 - CVZ-S				
N. P.	plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.	and the same of th	steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports Max. load capacity 800 kg.				
//	D571053 - CVZ		D571054 - CFZ				
1=	steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.	Name of the last o	galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.				
	N999156 - SFI	4	P125018 - THEKE B PRA 01				
	Base plate for ARES and ICARO (supplied with operator)		Metal protection box for ARES and ICARO series sliding operators				
	P111468 - B EBA RS 485 LINK						
	Expansion board for connection of central units with serial controls management						





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ICARO ULTRA AC A





















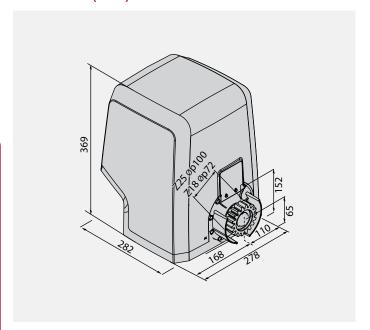




230V sliding gate operators for very intensive use, extremely sturdy and high-performance thanks to oil bath transmission. Control of torque via D-track technology and absolute encoder for maximum precision of movement. Control unit arranged for communication with U-link protocol and with tamper-proof function.

The control unit ensures complete safety thanks to the exclusive torque control system that makes these operators comply fully with the current European standards.

Dimension (mm)



	ICARO ULTRA AC A2000
Control unit	LEO B CBB LO2
Board power supply	230 V
Supply voltage AC	230 V
Power input	750 W
Max. door/gate weight	2000 kg
Gate speed	9 m/min
Type of limit switch	Magnetic
Pinion module	4
Slowdown	Yes
Locking	Mechanical
Release	Lever-operated with personal key
Impact reaction	Mechanical clutch + encoder
Frequency of use	very intensive
Protection rating	IP55
Environmental conditions	-20 ÷ 55 °C





Code	Name	Description	
P925238 00002	ICARO ULTRA AC A2000	Operator 230 V for sliding gates up to 2000 kg with absolute encoder. Leaf speed 9 m/min. Limit switch Magnetic. Equipped with mechanical safety clutch, torque management via D-track technology and gear unit in oil bath. Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.	U-Link

LEO B CBB LO2: Incorporated control unit for one 230V operator for sliding gates

LEO B CBB LO2 - Built in



- Incorporated control unit for one 230V operator for sliding gates
 Application: built-in control unit for one 230V operator for sliding gates

- Application: Balterin Control of an Interior Operator For Stiding gates
 Board power supply: 230V single-phase
 Operator power supply: 230V 750W
 Main features: removable terminal blocks with new standard colour-coding, simplified scenario-based programming with display, incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing
 Main functions: automatic re-closing, fast closing, pedestrian opening

RECOMMENDED ACCESSORIES

	D221073 - CP		N999320 - CVZ-S	
	plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.	the same of the sa	steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports Max. load capacity 800 kg.	
***************************************	D571054 - CFZ	//	D571053 - CVZ	
	galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.	E	steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.	
	N999156 - SFI		P125018 - THEKE B PRA 01	
	Base plate for ARES and ICARO (supplied with operator)		Metal protection box for ARES and ICARO series sliding operators	
	P111468 - B EBA RS 485 LINK			
	Expansion board for connection of central units with serial controls management			













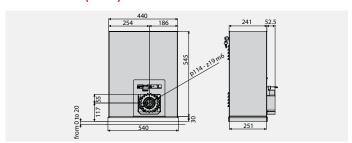




Powerful, robust operators with 400V three-phase power supply designed specifically for large, heavy gates.

The heavy structure of the gear motor, the painted galvanised steel casing and the on-board control unit make it the ideal solution for all industrial situations where reliability and power are essential.

Dimension (mm)



Technical features

	SP3500 TRI 230	SP3500 TRI 400	SP3500 SF TRI 400
Control unit		SIRIO CBB	
Board power supply Supply voltage AC	230 V	400 V	400 V
Supply voltage AC ´	230 V	400 V	400 V
Power input	550 W	550 W	550 W
Max. door/gate weight	3500 kg	3500 kg	3500 kg
Gate speed	10.5 m/min	10 m/min	10 m/min
Type of limit switch	Electromechanical	Electromechanical	Electromechanical
Pinion module	6	6	6
Slowdown	no	no	no
Locking	Mechanical	Mechanical	Mechanical
Release	Hexagonal key	Hexagonal key	Hexagonal key
Impact reaction	Sensitive edgé	Sensitive edge	Sensitive edgé
Frequency of use	very intensive	very intensive	very intensive
Protection rating	<u> </u>	´ IP54	,
Environmental condi- tions		-15 ÷ 50 °C	
(10115			

Code	Name	Description	
P925207 00002	SP3500 TRI 230	Operator 230 V for sliding gates weighing up to 3500 kg. Leaf speed 10.5 m/min. U-link and limit switch Electromechanical. Three-phase power supply 230 V. Fixing base included. Control unit with display and U-Link communication protocol	U-Link
P925207 00001	SP3500 TRI 400	Operator 400 V for sliding gates up to 3500 kg in weight. Gate speed 10 m/min. U-link and limit switch Electromechanical. Three-phase 400 V power supply. Anchorage base included. Operator with mechanical brake Control unit with display and U-Link communication protocol	U-Link
P925244 00003	SP3500 SF TRI 400	Operator 400 V for sliding gates weighing up to 3500 kg. Leaf speed 10 m/min. U-link and lim switch Electromechanical. Three-phase power supply 400 V. Fixing base included. Control unit display and U-Link communication protocol	

SIRIO CBB 400V: 400V single operator control unit for sliding gates

SIRIO CBB 400V - Built in



- Main features: Removable terminal blocks with standard colour-coding, programming and diagnostics with display and U-link communication protocol.
- Main functions: automatic re-closing, separate opening and closing
- Radio receiver not included
- Application: built-in 400V single operator control unit for sliding gates
- Board power supply: 400V three-phase

RECOMMENDED ACCESSORIES



P111468 - **B EBA RS 485 LINK**

Expansion board for connection of central units with serial controls management







Adjustable anchor base for SP3500, supplied separately



P125016 - **SP3500 SAFETY**

D571491 - CFZ6



Safety microswitch for SP3500





Dual channel 433 MHz rolling code plug-in receiver. 128-position memory. 12-28 Vdc , 16-28 Vac.



D111664 - CLONIX 2 2048

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

galvanized steel rack, 6-module, cross-section 30 x 30 mm,

length 2 m, welding Max. load capacity 4000 kg.



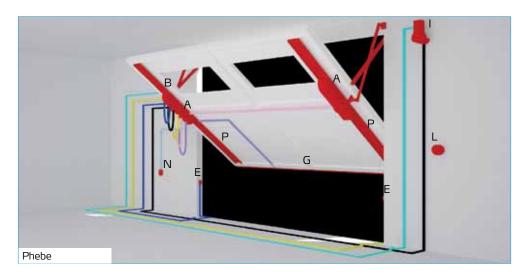


Automation systems for garage doors

Guide to choosing

Door sur- face area	Nominal voltage	Frequency of use	Kit	Operator	Plus				
Sectional garage doors									
			-	BOTTICELLI	D-Track				
10 m ²		intensive	-	BOTTICELLI BT A 650	D-Track				
10111		Semi intens- ive	-	TIZIANO B GDA 260 S01	D-Track				
			-	BOTTICELLI 800 U	D-Track				
13 m²	24 V	intensive	-	BOTTICELLI SMART BT A 850	D-Track				
			-	BOTTICELLI 800	D-Track				
16 m²			-	EOS 1200 U	D-Track				
10 111		very intens-	-	BOTTICELLI SMART BT A 1250	D-Track				
20 m ²		ive	-	ARGO	Built-in courtesy light				
35 m²			-	ARGO G					
Overhead garage doors									
			-	PHEBE BT A U	Built-in control unit with D-Track				
			-	PHEBE BT A SQ	Limit switch on-board the motor Limit switch Electromechanical				
			-	PHEBE BT A U C	Built-in control unit with D-Track				
		C: :+	-	PHEBE BT A C SQ	Limit switch on-board the motor Limit switch Electromechanical				
8 m²	24 V	Semi intens-	-	PHEBE BT A U IP44	IP44				
		140	-	PHEBE BT A SQ IP44	IP44 Limit switch Electromechanical				
			-	PHEBE ULTRA BT A	Limit switch with IMU sensor				
			-	PHEBE ULTRA BT A SQ	Limit switch with IMU sensor				
			•	PHEBE BT A U KIT ITA	Built-in control unit with D-Track Limit switch				
			-	BERMA	knob release				
		vor intens	-	BERMA SEB	lever for steel cable release				
9 m ²	230 V	very intens-	-	BERMA R	knob release and hydraulic slowdown				
		146	-	BERMA SEB R	lever for steel cable release and hydraulic slowdown				
			-	BERMA SA R	automatic release and hydraulic slowdown				

Installation guide



А	Operator
В	Control unit
С	Backup Batteries
D	Receiver
E	Photocell
G	Sensitive edge
Н	Post
	Flashing Beacon
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
Р	Fitting system
	2x1.5
	3x1.5
	5x1.5
	RG 58
	3x1
	5x1
	2x1
	9x0.5
	4x2.5







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

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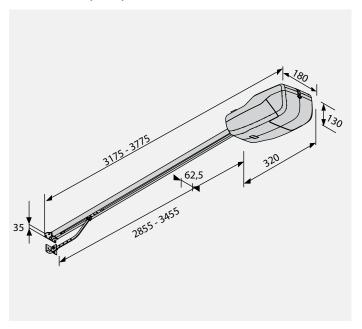






Just 13 cm thick, the TIZIANO is one of the most compact operators on the market and can be installed in any architectural context. Thanks to the control unit's built-in radio receiver, TIZIANO can memorize the codes of 10 MITTO or KLEIO remote controls and/or wireless control systems such as RB, MIMEPAD or T-BOX.

Dimension (mm)



	TIZIANO B GDA 260 501			
Control unit	VENERE B GDA			
Nominal voltage	24 V			
Power input	100 W			
Max. door/gate weight	60 kg			
Door surface area	10 m ²			
Gate speed	6.6 m/min			
Type of limit switch	Encoder			
Slowdown	Yes			
Locking	Mechanical			
Release	Cord or steel cable			
Impact reaction	D-Track			
Frequency of use	Semi intensive			
Protection rating	IPXO			
Environmental conditions	-20 ÷ 60 °C			





Code	Name	Description
P915199 00002		Operator for sectional garage doors with tractive force 60 kg and Semi intensive use. Door surface area 10 m². Opening speed 6.6 m/min. D-Track

VENERE M B GDA: Control panel for one 24V operator for garage doors

VENERE M B GDA - Built in



- Control panel for one 24V operator for garage doors Application: control unit for 124V garage door operator Board power supply: 230V single-phase Operator power supply: 24V 100W

- Main features: dip-switch programming and potentiometers, incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing
- Main functions: automatic re-closing, automatic torque control

RECOMMENDED ACCESSORIES

	P115015 00001 - BIN B GDA 3020 CAT		P115015 00002 - BIN B GDA 3620 CAT
	Chain rail for TIZIANO B GDA, length 3020 mm, useful travel 2560 mm		Chain rail for TIZIANO B GDA, length 3620 mm, useful travel 3160 mm
<i>b</i>	P115015 00003 - BIN B Gda 2x1510 Cat	b	P115015 00004 - BIN B Gda 2x1810 Cat
	Chain track divided into two halves for TIZIANO B GDA, length 3020 mm, useful travel 2560 mm		Chain track divided into two halves for TIZIANO B GDA, length 3620 mm, useful travel 3160 mm
	P115026 00001 - BIN B GDA 3020 BELT	<i>a</i>	P115026 00002 - BIN B GDA 3620 BELT
	Monoblock belt rail, length 3020 mm, useful length 2560 mm		Monoblock belt rail, length 3620 mm, useful length 3160 mm
<i>b</i>	P115026 00003 - BIN B GDA 2x1510 CINGHIA	b	P115026 00004 - BIN B GDA 2x1810 CINGHIA
	Two-piece monoblock belt rail, length 3020 mm, useful length 2560 mm		Two-piece monoblock belt rail, length 3620 mm, useful length 3160 mm
4	N999620 - SAS1 KIT B GDA 260 B01		N999621 - SAS2 KIT B GDA 260 B01
	Brackets for ceiling mounting TIZIANO B GDA up to max 30 cm		Brackets for ceiling mounting TIZIANO B GDA up to max 50 cm
\wedge	P115005 - SM1		N733069 - SET/S
0	External manual release for overhead garage door (1 operator)	*0	External release for insulated sectional and overhead doors of thickness up to 50 mm.





















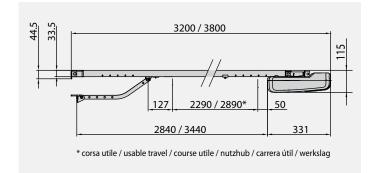


d-track **Q** U-Link

Electromechanical operators for intensive/very intensive use, designed for the automation of sectional garage doors. Suitable for installation in any context, thanks to the wide choice of chain rails available in the various lengths.

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

Dimension (mm)



Technical features

	BOTTICELLI BT A 650	BOTTICELLI SMART BT A 850	BOTTICELLI SMART BT A 1250
Control unit	VENERE BT A ETD	VENERE BT A DIS	VENERE BT A DIS
Nominal voltage	24 V	24 V	24 V
Power input	200 W	200 W	236 W
Tractive force and thrust	650 N	850 N	1250 N
Number of daily movements at 60°	50	50	100
Door surface area	10 m ²	13 m ²	16 m²
Max opening speed (chain rail)	240 mm/sec	240 mm/sec	190 mm/sec
Max opening speed (belt rail)	210 mm/sec	210 mm/sec	
Type of limit switch	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening
Slowdown	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical
Release	Cord or steel cable	Cord or steel cable	Cord or steel cable
Impact reaction	D-Track	D-Track	D-Track
Protection rating	IP20	IP20	IP20
Environmental conditions	-20 ÷ 60 °C	-20 ÷ 60 °C	-20 ÷ 60 °C

Code	Name		Description	
P915211 00002	BOTTICELLI BT A 650	new	24 V operator for sectional garage doors with tractive force 60 kg and intensive use. Max do face area 10 m ² . Opening speed 240 mm/sec. D-Track	or sur-
P915212 00002	BOTTICELLI SMART BT A 850	new	24 V operator for sectional garage doors with tractive force 80 kg and intensive use. Max door surface area 13 m². Opening speed 240 mm/sec. D-Track	U-Link
P915213 00002	BOTTICELLI SMART BT A 1250	new	24 V operator for sectional garage doors with tractive force 120 kg and very intensive use. Max door surface area 16 m². Opening speed 190 mm/sec. D-Track	U-Link

VENERE BT A ETD: Control unit with electronic trimmer-dip switch for 1 x 24 V operator for garage doors

VENERE BT A ETD - Built in



- Control unit with electronic trimmer-dip switch for 1 x 24 V operator for garage doors
- Board power supply: 230V single-phase
- Power supply to motor and accessories: 24 V
- Main features: integrated two-channel receiver, D-Track anti-crushing system, soft opening and closing
 Main functions: automatic re-closing, automatic torque control
- Programming with electronic trimmer-dip switch (shown on display)

VENERE BT A DIS: Control unit with display for 1 x 24 V operator for garage doors

VENERE BT A DIS - Built in



- Control unit with display for 1 x 24 V operator for garage doors
- Board power supply: 230V single-phase
- Power supply to motor and accessories: 24 V
- Main features: integrated two-channel receiver, D-Track anti-crushing system, soft opening and closing
- Main functions: automatic re-closing, automatic torque control
- Programming with display
- U-Link protocol

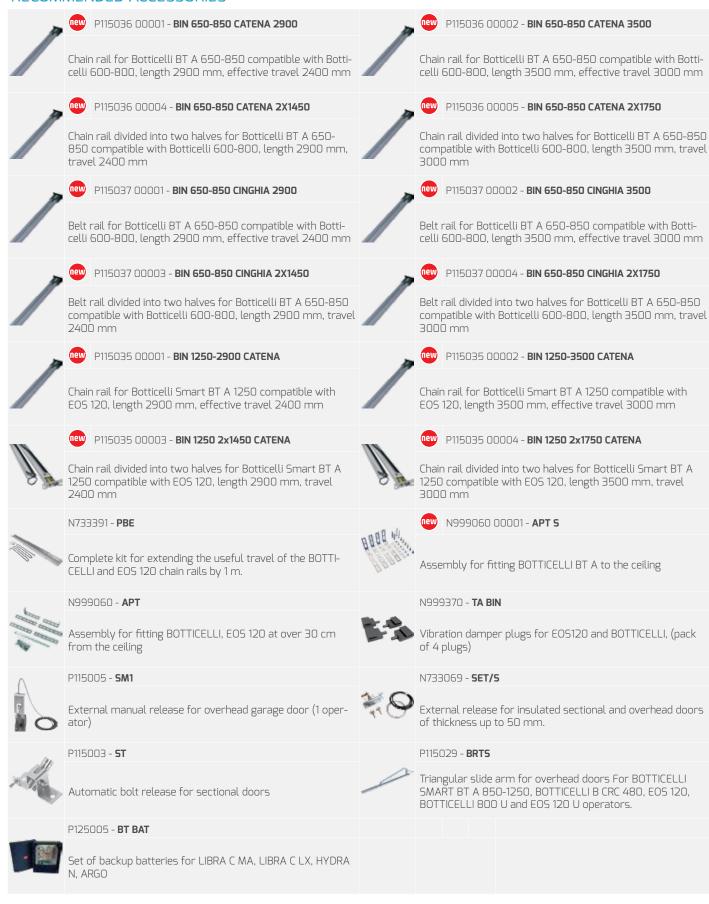


Automation systems for garage doors





RECOMMENDED ACCESSORIES









accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

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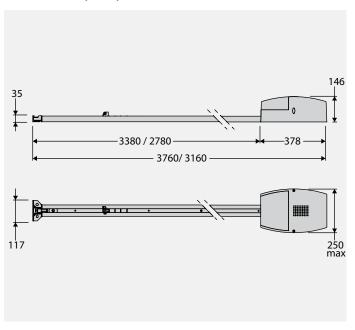






Electromechanical operators for intensive/very intensive use, designed for the automation of sectional garage doors. Suitable for installation in any context, thanks to the wide choice of chain rails available in the various lengths. The control unit and limit switch with encoder with mechanical stop are incorporated in the operator and rail respectively.

Dimension (mm)



	BOTTICELLI	BOTTICELLI 800 U	BOTTICELLI 800	E05 1200 U		
Control unit	VENERE		VENERE D			
Nominal voltage	24 V	24 V	24 V	24 V		
Power input	150 W	236 W	236 W	236 W		
Max. door/gate weight	60 kg	80 kg	80 kg	120 kg		
Door surface area	10 m ²	13 m²	13 m ²	16 m²		
Type of limit switch	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening		
Gate speed	5 m/min	5 m/min	5 m/min	4.5 m/min		
Slowdown	Yes	Yes	Yes	Yes		
Locking	Mechanical	Mechanical	Mechanical	Mechanical		
Release	Cord or steel cable	Cord or steel cable	Cord or steel cable	Cord or steel cable		
Impact reaction	D-Track	D-Track	D-Track	D-Track		
Frequency of use	intensive	intensive	intensive	very intensive		
Protection rating	IPXO					
Environmental conditions	-15 ÷ 60 °C					

Code	Name		Description		
P915194 00002	BOTTICELLI		24 V operator for sectional garage doors with tractive force 60 kg and intensive use. Max door surface area 10 m². Opening speed 5 m/min. D-Track		
P915194 00007	BOTTICELLI 800 U	(+)	$24V$ operator for sectional garage doors with tractive force 80 kg and intensive use. Max door surface area 13 m^2 . Opening speed 5 m/min. D-Track	U-Link	
P915201 00005	BOTTICELLI 800		24 V operator for sectional garage doors with tractive force 80 kg and intensive use. Max door surface area 13 m². Opening speed 5 m/min. D-Track	U-Link	
P915195 00005	E05 1200 U	(4)	24 V operator for sectional garage doors with tractive force 120 kg and very intensive use. Max door surface area 16 m ² . Opening speed 4.5 m/min. D-Track	(S)	





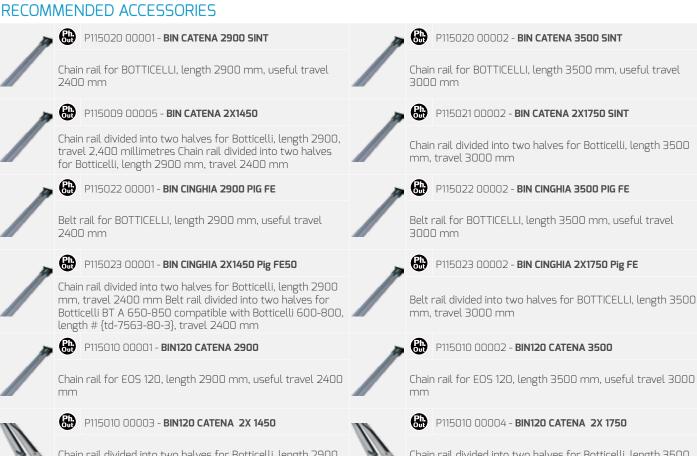
VENERE D: Control panel for one 24V operator for garage doors



VENERE D - Built in



- Control panel for one 24V operator for garage doors
- Application: control unit for 124V garage door operator
- Board power supply: 230V single-phase
- Operator power supply: 24V 100W
- Main features: programming with display, incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing
- Main functions: automatic re-closing, automatic torque control













N999370 - **TA BIN** Vibration damper plugs for EOS120 and BOTTICELLI, (pack



N733069 - **SET/S** External release for insulated sectional and overhead doors

of thickness up to 50 mm.

Triangular slide arm for overhead doors For BOTTICELLI SMART BT A 850-1250, BOTTICELLI B CRC 480, EOS 120, BOTTICELLI 800 U and EOS 120 U operators.



Chain rail divided into two halves for Botticelli, length 3500 mm, travel 3000 mm



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



P115005 - SM1

External manual release for overhead garage door (1 operator)



P115003 - **ST**

P125006 - CB EOS

Automatic bolt release for sectional doors



Set of backup batteries for VENERE D





P115029 - BRTS



accessories for control units set of batteries for control units expansion boards software receivers transmitters

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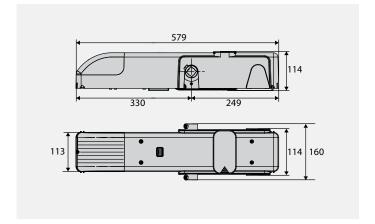






Electromechanical operators for residential use for the automation of overhead garage doors. The built-in control unit manages the second operator for installation on large-size doors or doors with integrated pedestrian doors. The microprocessor technology also manages the torque of the motors with maximum precision and in total safety.

Dimension (mm)



	PHEBE BT A U	PHEBE BT A SQ	PHEBE BT A U C	PHEBE BT A C SQ	PHEBE BT A U IP44	PHEBE BT A SQ IP44	PHEBE ULTRA BT A	PHEBE ULTRA BT A SQ
Control unit			VE	GA		•	VEGA	ULTRA
Nominal voltage	24 V	24 V	24 V					
Power input	40 W	40 W	40 W					
Cycle time	17-20 s	17-20 s	17-20 s					
Door surface area	8 m²	8 m²	8 m ²	8 m²	8 m²	8 m²	8 m²	8 m ²
Type of limit switch	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Electromech- anical	Mems tecno- logy	Mems tecno- logy
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	knob	knob	knob	knob	knob	knob	knob	knob
Impact reaction	D-Track	D-Track	D-Track	D-Track	D-Track	D-Track	D-Track	D-Track
Frequency of use	Semi intensive	Semi intensive	Semi intensive					
Protection rating		IP20			IP44			
Environmental conditions				-15 ÷	60 °C			

PHEBE BT A U PHEBE BT A SQ PHEBE BT A U Description Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20 Limit switch Electromechanical Built-in control unit with D-Track Operator for overhead garage doors of maximum surface area 8 m² and Semi intensive use. time 17-20 s, IP20 Limit switch on-board the motor Limit switch Electromechanical P15139 PHEBE BT A U C PHEBE BT A U C Description Electromechanical Built-in control unit with D-Track Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20 Limit switch Electromechanical Built-in control unit with D-Track	(
PHEBE BT A U imum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20 Limit switch Electromechanical Built-in control unit with D-Track P915136 00003 PHEBE BT A SQ Operator for overhead garage doors of maximum surface area 8 m² and Semi intensive use. time 17-20 s, IP20 Limit switch on-board the motor Limit switch Electromechanical Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20	U-Link Cycle
time 17-20 s, IP20 Limit switch on-board the motor Limit switch Electromechanical Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20	<u>(</u>
PHEBE BT A U C imum surface area 8 m ² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20	
CITTLE SWITCH LEECTI OFFICE TRANSPORT OF THE WITTE OF THE CITTLE OF THE	U-Link
P915139 D0003 Operator for overhead garage doors of maximum surface area 8 m² and Semi intensive use. time 17-20 s, IP20 Limit switch on-board the motor Limit switch Electromechanical	Cycle
P915137 00002 PHEBE BT A U IP44 Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP44 Limit switch Electromechanical IP44	U-Link
P915137 00003 PHEBE BT A SQ IP44 Operator for overhead garage doors of maximum surface area 8 m² and 5emi intensive use. time 17-20 s, IP44 IP44 Limit switch Electromechanical	Cycle
P915138 00002 PHEBE ULTRA BT A Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m² and Semi intensive use with slowdown. Cycle time 17-20 s, IP44 Limit switch Mems tecnology Limit switch with IMU sensor	U-Link
P915138 D0003 PHEBE ULTRA BT A SQ Operator for overhead garage doors of maximum surface area 8 m² and Semi intensive use. time 17-20 s, IP44 Limit switch Mems tecnology Limit switch with IMU sensor	Cycle
R915150 00002 PHEBE BT A U KIT ITA Kit for up&over garage doors of maximum surface area 8 m². Operator with incorporated panel, slowdown and duty Semi intensive. Manoeuvre time 17-20 s, IP44 Built-in control unit with D-Track Limit switch Electromechanical	U-Link





VEGA: Display control card for 1 or 2 operators for up-and-over garage doors

VEGA - Built in



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

RECOMMENDED ACCESSORIES

	© 113836 00002 - VEGA QUADRO QSG		P125007 - BT BAT1
: 50	Vega control board in CPEL panel Application: control panel for one or two overhead garage door operators		Emergency battery kit for HYDRA N CPEL, only for external board not compatible with board on motor
	P125042 - KABP		P125020 - BBT BAT
	Battery adapter wiring kit necessary for PHEBE BT A with built-in control unit and for BBT BAT		Set of backup batteries for THALIA and THALIA P
_	N733299 - CTBP		D412377 - BCP
	Pack of 1800 mm drive tubes and fixing bases for completing the PHEBE N KIT		Short welding base for PHEBE series operators (L 578 mm)
	N733288 - BLP		N733120 - CTA
TITI	Long welding base for PHEBE series operators (L 1600 mm)		2 square drive tubes of cross section 20x20 mm and length 1800 mm for PHEBE N series operators
	N733129 - CTA2		N733112 - CBA
	2 square drive tubes of cross section 20x20 mm and length 200 mm for PHEBE N series operators		Straight telescopic arms for the installation of PHEBE series operators on overhead door
	N733119 - CBAS	dia.	N733113 - CBASL
Tries	Straight telescopic arms for the installation of PHEBE series operators on overhead door of length 1000 mm		Straight telescopic arms for the installation of PHEBE series operators on overhead door of length 1500 mm
	N733114 - CBAC		N733221 - CBAC-G
	Curved telescopic arms for the installation of PHEBE series operators on overhead door	ڪ	Curved telescopic arms for installation of PHEBE BT A series operators on up-and-over doors
\cap	P115005 - 5M1	/ 11/	P115001 - SM2
0	External manual release for overhead garage door (1 operator)	0	External manual release for overhead garage door (2 operators)







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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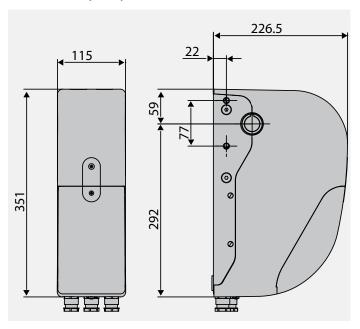


24V electromechanical operator for sectional garage doors installable in residential, industrial and commercial environments.

The sturdy mechanical structure and microprocessor technology of the control unit allow intensive use of the operator, while ensuring maximum reliability over time.

Also, the D-Track torque control system and absolute encoder ensure extremely precise control of leaf movement and obstacle detection.

Dimension (mm)



	ARGO	ARGO G		
Control unit	VENERE D ARGO	VENERE D ARGO G		
Nominal voltage	24 V	24 V		
Power input	240 W	240 W		
Type of limit switch	Absolute encoder	Absolute encoder		
Door surface area	20 m ²	35 m ²		
Slowdown	Yes	Yes		
Locking	Mechanical	Mechanical		
Release	Cord or steel cable	Steel cable		
Impact reaction	D-Track	D-Track		
Frequency of use	very intensive	very intensive		
Protection rating	P40			
Environmental conditions	-15 ÷ 55 °C			





Code	Name	Description
P925202 00001	ARGO	Operator for sectional doors of surface area up to 20 m² and very intensive use. Built-in courtesy light
P925206 00002	ARGO G	Operator for sectional doors of surface area up to 35 m ² and very intensive use.

VENERE D ARGO: Control panel for one 24V operator for garage doors

VENERE D ARGO - Built in



- Control panel for one 24V operator for garage doors
 Application: control unit for 1 24V garage door operator
 Board power supply: 230V single-phase
 Operator power supply: 24V

- Main features: programming with display, incorporated dual channel receiver, D-Track anti-crushing system, slowdown during opening and closing
- Main functions: automatic re-closing, automatic torque control

RECOMMENDED ACCESSORIES

	N999592 - CKK		N733148 - COR 30
	Pack of mounting tabs for ARGO and ARGO G	0,-	Z30 gear kit complete with accessories for industrial sectional doors, for 1 " (25.4 mm) shafts
	N733149 - COR 40	î	N733338 - PIG 12/ULISSE S
9,9	Z40 gear kit complete with accessories for industrial sectional doors, for 1 " (25.4 mm) shafts		Z12 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts
n	N733336 - PIG 14/ULISSE S	ı	N733339 - PIG 18/ULISSE S
00/	Z14 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts	***	Z18 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts
n	N733337 - PIG 30/ULISSE S	0	N733421 - RCA
	N733337 - PIG 30/ULISSE S Z30 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts		N733421 - RCA Lever release for ARGO with steel cable, length 3.5 m
	Z30 pinion gear for industrial sectional doors, for 1" (25.4		
	Z30 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts		Lever release for ARGO with steel cable, length 3.5 m
	Z30 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts N733422 - RCAL		Lever release for ARGO with steel cable, length 3.5 m N574039 - BOX Wall safe for unlocking with steel cable and electrical con-







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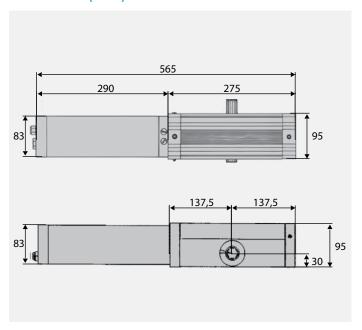




Hydraulic operator for very intensive use for overhead garage doors.

Designed for the toughest conditions of use, it combines strength and the typical reliability of hydraulic operators.

Dimension (mm)



	BERMA	BERMA SEB	BERMA R	BERMA SEB R	BERMA SA R
Control unit			RIGEL 6		
Nominal voltage	230 V	230 V	230 V	230 V	230 V
Power input	250 W	250 W	250 W	250 W	250 W
Slowdown	no	no	Hydraulic	Hydraulic	Hydraulic
Door surface area	9 m²	9 m ²	² 9 m ²	9 m²	² 9 m ²
Locking	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Release	knob	lever for steel cable	knob	lever for steel cable	automatic
Impact reaction	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch	Hydraulic clutch
Frequency of use	very intensive	very intensive	very intensive	very intensive	very intensive
Protection rating IPX5					
Environmental conditions			-15 ÷ 60 °C		





Code	Name	Description
P915006 00001	BERMA	Hydraulic operator for overhead garage doors of maximum surface area 9 m² and very intensive use. knob release
P915103 00001	BERMA SEB	Hydraulic operator for overhead garage doors of maximum surface area 9 m² and very intensive use. lever for steel cable release
P915007 00001	BERMA R	Hydraulic operator for overhead garage doors of maximum surface area 9 m² and very intensive use. knob release and hydraulic slowdown
P915105 00001	BERMA SEB R	Hydraulic operator for overhead garage doors of maximum surface area 9 m² and very intensive use. lever for steel cable release and hydraulic slowdown
P915009 00001	BERMA SA R	Hydraulic operator for overhead garage doors of maximum surface area 9 $\rm m^2$ and very intensive use. automatic release and hydraulic slowdown

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W

 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific removable terminal blocks. radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES

RECUM	RECOMMENDED ACCESSORIES						
	D114092 00002 - ALCOR AC A	_	D113680 00002 - ALPHA SD				
	Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.	- &	Universal control panel with potentiometers for one 230V/500W single-phase operator				
	N733038 - CA1		N733040 - CA2				
	Straight arm accessories for installation of one BERMA series operator on overhead door of 4 m max width		Straight arm accessories for installation of two BERMA series operators on overhead door				
	N733041 - CA2C		N733042 - CAS1				
	Accessories for the installation of two BERMA series operators on overhead door (curved arms)		Straight arm accessories for installation of one Berma operator L = 1000 mm Spain version				
	N733074 - CAS1L		N733048 - CAS2				
No.	Straight arm accessories for installation of one Berma operator L = 1500 mm Spain version		Straight arm accessories for installation of two Berma operators L = 1000 mm Spain version				
	N733075 - CA52L		N733020 - SEB				
nite	Straight arm accessories for installation of two Berma operators L = 1500 mm Spain version	OR R	External key release for BERMA, FORB, IGEA LB and IGEA LB BT				









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Roller shutters automation systems

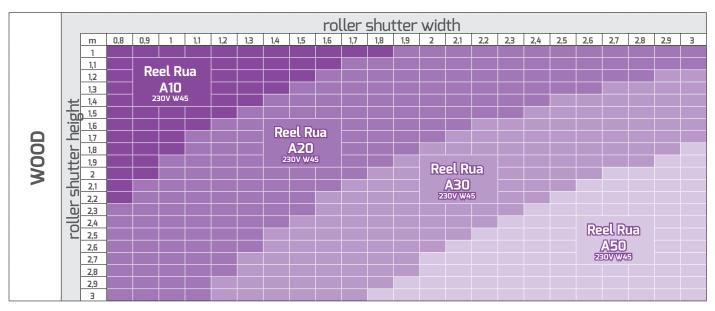
Guide to choosing

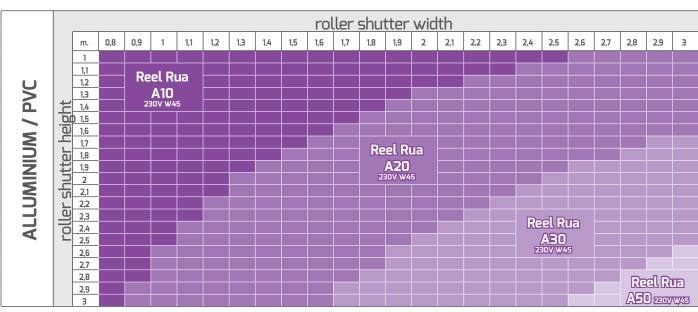
Installation guide

Motor power supply	Outer dia- meter	Actuator weight	Fre- quency of use	Operator
			ROLL	-UP
		2.1 kg		REEL EASY RUA A10 230V R45 REEL EASY B10 230V W45
	60 mm	2.2 kg		REEL EASY RUA A20 230V R45 REEL EASY B20 230V W45
230 V		2.75 kg	Resid- ential	REEL EASY RUA A30 230V R45 REEL EASY B30 230V W45
		2.8 kg		REEL EASY RUA A50 230V R45 REEL EASY B50 230V W45
3.3 kg			REEL EASY RUA A50 230V WM45	



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











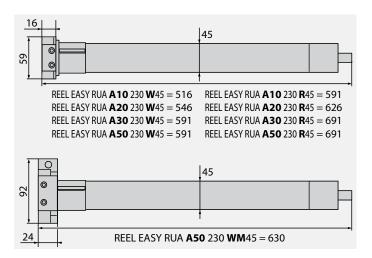


The new Reel range comprises a complete offer of tubular motors:

- · wire operators, with electromechanical limit switches and manual override (WM model)
- · radio operators, with adjustable limit switches with new radio controls.

A renewed and complete line of accessories and versions makes the new Reel range the ideal solution in the context of first installations and restructuring.

Dimension (mm)



Technical features

	REEL EASY B10 230V W45	REEL EASY B20 230V W45	REEL EASY B30 230V W45	REEL EASY B50 230V W45	REEL EASY RUA A50 230V WM45	REEL EASY RUA A10 230V R45
Control unit			ELBA			Built-In
Motor power supply	230 V	230 V				
Power input	125 W	180 W	235 W	285 W	285 W	125 W
Outer diameter	60 mm	60 mm				
N° limit switch revolutions	28	28	28	28	28	28
Type of end switch	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release					Handle	
Frequency of use	Residential	Residential	Residential	Residential	Residential	Residential
Protection rating	IP44					
Environmental conditions	-10 ÷ 40 °C					

	REEL EASY RUA A20 230V R45	REEL EASY RUA A30 230V R45	REEL EASY RUA A50 230V R45	
Control unit		Built-In		
Motor power supply	230 V	230 V	230 V	
Power input	180 W	235 W	285 W	
Outer diameter	60 mm	60 mm	60 mm	
N° limit switch revolutions	28	28	28	
Type of end switch	Electronic	Electronic	Electronic	
Locking	Mechanical	Mechanical	Mechanical	
Release				
Frequency of use	Residential	Residential	Residential	
Protection rating		IP44		
Environmental conditions	-10 ÷ 40 °C			







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Code	Name		Description
P910052 00001	REEL EASY B10 230V W45	new	Wired operator for roller shutters. Max shutter weight 18 kg. max torque 10 nm and power input 125 W. Shaft rotation speed 16 Rpm
P910052 00002	REEL EASY B20 230V W45	new	Wired operator for roller shutters. Max shutter weight 35 kg. max torque 20 nm and power input 180 W. Shaft rotation speed 16 Rpm
P910052 00003	REEL EASY B30 230V W45	new	Wired operator for roller shutters. Max shutter weight 55 kg. max torque 30 nm and power input 235 W. Shaft rotation speed 16 Rpm
P910052 00004	REEL EASY B50 230V W45	new	Wired operator for roller shutters. Max shutter weight 88 kg. max torque 50 nm and power input 285 W. Shaft rotation speed 12 Rpm
P910049 00001	REEL EASY RUA A50 230V WM45		Wired operator for roller shutters. Max shutter weight 88 kg. max torque 50 nm and power input 285 W. Leaf speed 12 Rpm. Handle release.
P910047 00001	REEL EASY RUA A10 230V R45	(4)	Radio operator for roller shutters. Max shutter weight 18 kg. Max torque 10 nm and power input 125 W. Shaft rotation speed 16 Rpm
P910047 00002	REEL EASY RUA A20 230V R45		Radio operator for roller shutters. Max shutter weight 35 kg. Max torque 20 nm and power input 180 W. Shaft rotation speed 16 Rpm
P910047 00003	REEL EASY RUA A30 230V R45		Radio operator for roller shutters. Max shutter weight 55 kg. Max torque 30 nm and power input 235 W. Shaft rotation speed 16 Rpm
P910047 00004	REEL EASY RUA A50 230V R45	(3)	Radio operator for roller shutters. Max shutter weight 88 kg. Max torque 50 nm and power input 285 W. Shaft rotation speed 12 Rpm

RECOMMENDED ACCESSORIES

IXECOIVI	WILNDED ACCESSORIES		
_	P111515 - SHEDIR B CBC 02 L01		P121028 - MIME PAD
	Control unit for wired centralisation. For 2 operators (or 2 groups of operators)		4-channel wall-mounted radio control with rolling code
	D113831 - MIME TX		D113716 00002 - ELBA
(600)	two-channel miniaturized 433 Mhz transmitter		ELBA control panel
	P111376 - SCS 1	a	P111183 - CREP
	Expansion card	7	Twilight sensor
	P111182 - ANEM		M999323 - AD 5027
	Anemometric sensor with encoder for wind		Drive wheel and limit switch adapter for RUL60. Not suitable with REEL EASY B
/ -	N999327 - AD5028		N999348 - AD5029
	Octagonal adapter Ø70 mm zamak. Not suitable with REEL EASY B		Round adapter Ø63x1.5 mm. Not suitable with REEL EASY B
12-5	N999349 - AD5030	12-5	N999350 - AD5031
	Deprat LP62 adapter. Not suitable with REEL EASY B		Deprat LP89 adapter. Not suitable with REEL EASY B
~~	N999351 - AD5032	~~~	N999395 - AD5034
	ZF 64 adapter. Not suitable with REEL EASY B		ZF 54 adapter. Not suitable with REEL EASY B
125	(h) N999396 - AD5035		M999397 - AD5036
	Ogive adapter Ø78 mm. Not suitable with REEL EASY B		Octagonal adapter 60 PL. Not suitable with REEL EASY B
10	N999547 - AD5038		P130015 - 5M504
	Metallic ogive adapter Ø70 mm. Not suitable with REEL EASY B	0	Support with bearing for octagonal roller - screw type





RECOMMENDED ACCESSORIES









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control devices

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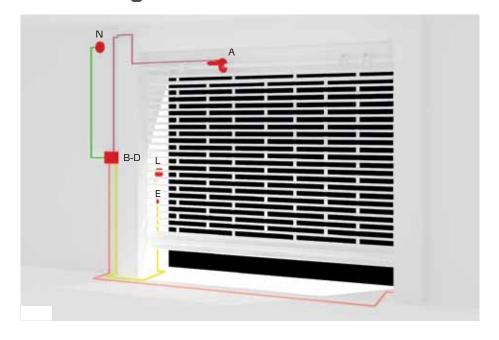


Automation systems for rolling shutters

Guide to choosing

Shaft dia- meter	Spring holder diameter	Maximum torque	Power supply	Kit	Operator	Plus
ROLLER SHUTTER						
60 mm	200 mm	130 nm		-	WIND RMB 130B 200-230	Adapters for spring holders and shaft included in pack
				-	WIND RMB 130B 200-230 EF	Adapters for spring holders and shaft included in the package.
		170 nm		-	WIND RMB 170B 200-230	Adapters for spring holders and shaft included in pack
			22014	-	WIND RMB 170B 200-230 EF	Adapters for spring holders and shaft included in pack
		357 nm	230 V	-	WIND RMB 350B 200-230 EF	Adapters for spring holders and shaft included in the package.
101 mm	240 mm	235 nm		-	WIND RMC 235B 240-230	Adapters for spring holders and shaft included in pack
				-	WIND RMC 235B 240-230 EF	Adapters for spring holders and shaft included in pack
		445 nm		-	WIND RMC 445B 240-230 EF	Adapters for spring holders and shaft included in pack

Installation guide



Α	Operator
В	Control unit
D	Receiver
Е	Photocell
L	Control devices
N	Junction box
	3x1.5
	2x1
	2x1 9x0.5
=	





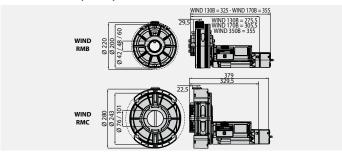






230V operators for roller shutters with maximum torque up to 445 Nm. Suitable for mounting on shutters with pulley diameter of 200, 220, 240 and 280mm shaft diameter 42, 48, 60, 76 and 101mm. Available in versions with or without electric brake.

Dimension (mm)



Technical features

	WIND DMD 120D	WIND DMD 120D	WIND DMD 1700	WIND DMD 170D	WIND DMD SECO	WIND DMC 22E	WIND RMC 235B	WIND DMC 44ED
	200-230	200-230 EF	200-230	200-230 EF	200-230 EF	240-230	240-230 EF	240-230 EF
Control unit				ELBA/E	LBA BU			
Power supply	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Power input	400 W	400 W	600 W	600 W	1200 W	600 W	600 W	1200 W
Shaft diameter	60 mm	60 mm	60 mm	60 mm	60 mm	101 mm	101 mm	101 mm
Spring holder diameter	200 mm	200 mm	200 mm	200 mm	200 mm	240 mm	240 mm	240 mm
Maximum torque	130 nm	130 nm	170 nm	170 nm	357 nm	235 nm	235 nm	445 nm
Rotation speed	10 Rpm	10 Rpm	10 Rpm	10 Rpm	10 Rpm	8 Rpm	8 Rpm	8 Rpm
Type of end switch	nuİl	nuİl	nuİl	nuİl	nuİl	null	null	null
Locking	null	Electric brake	null	Electric brake	Electric brake	null	Electric brake	Electric brake
Impact reaction	no	no	no	no	no	no	no	no
Protection rating IP20								
Environmental conditions -10 ÷ 50 °C								

Code	Name	Description
P910041 00002	WIND RMB 130B 200-230	Operator for shutters with spring holder pulley diam. 60 mm. Max. torque 130 nm and absorbed power 400 W. Reversible. Adapters for spring holders and shaft included in pack
P910042 00002	WIND RMB 130B 200-230 EF	Operator for shutters with spring holder pulley diam. 60 mm. Max. torque 130 nm and absorbed power 400 W. Release with steel cable and knob for electric brake. Adapters for spring holders and shaft included in the package.
P910043 00002	WIND RMB 170B 200-230	Operator for shutters with spring holder pulley diam. 60 mm. Max. torque 170 nm and absorbed power 600 W. Reversible. Adapters for spring holders and shaft included in pack
P910044 00002	WIND RMB 170B 200-230 EF	Operator for shutters with spring holder pulley diam. 60 mm. Max. torque 170 nm and absorbed power 600 W. Release with steel cable and knob for electric brake. Adapters for spring holders and shaft included in pack
P910046 00002	WIND RMB 350B 200-230 EF	Operator for shutters with spring holder pulley diam. 60 mm. Max. torque 357 nm and absorbed power 1200 W. Release with steel cable and knob for electric brake. Adapters for spring holders and shaft included in the package.
P910038 00002	WIND RMC 235B 240-230	Operator for shutters with spring holder pulley diam. 101 mm. Max. torque 235 nm and absorbed power 600 W. Reversible. Adapters for spring holders and shaft included in pack
P910039 00002	WIND RMC 235B 240-230 EF	Operator for shutters with spring holder pulley diam. 101 mm. Max. torque 235 nm and absorbed power 600 W. Release with steel cable and knob for electric brake. Adapters for spring holders and shaft included in pack
P910040 00002	WIND RMC 445B 240-230 EF	Operator for shutters with spring holder pulley diam. 101 mm. Max. torque 445 nm and absorbed power 1200 W. Release with steel cable and knob for electric brake. Adapters for spring holders and shaft included in pack

ELBA BU: Control panel, max 230V, for roller shutters or roll-up doors

D113717 00002 - ELBA BU - Recommended

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

RECOMMENDED ACCESSORIES

P111515 - SHEDIR B CBC 02 L01 Control unit for wired centralisation. For 2 operators (or 2 groups of operators) N574039 - BOX Wall safe for unlocking with steel cable and electrical control; cable not included D113716 00002 - ELBA ELBA control panel N999510 - X EF1 Electric brake for Wind Rmc and Rmb 230V



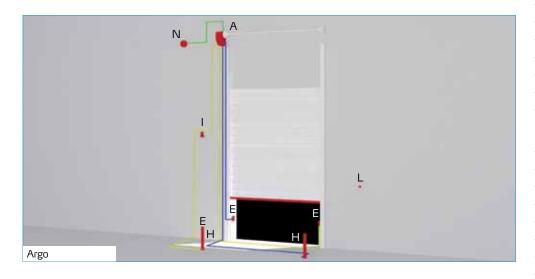


Automation systems for industrial sectional doors and folding doors

Guide to choosing

Nominal voltage	Frequency of use	Kit	Operator	Plus			
			industria	al sectional doors			
	Semi intens- ive	-	PEGASO BCJA620L01				
		-	PEGASO BCJA625L01				
230 V		-	PEGASO BCJA625L02				
23U V		-	PEGASO BCJA620L11				
		-	PEGASO BCJA625L11				
		-	PEGASO BCJA625L12				
		-	PEGASO BCJA645W01				
400 V	intensive	-	PEGASO BCJA645W02				
		-	PEGASO BCJA645W11				
	industrial folding doors						
24 V	Semi intens-	-	IGEA LB BT	D-Track			
	ive	-	IGEA LB	Electric clutch			
220.1/	very intens-	-	FORB	Hydraulic protection against crushing			
230 V		-	FORB R	Hydraulic slowdown			
		-	FORB ERSA	Hydraulic slowdown			

Installation guide



Α	Operator	
В	Control unit	
D	Receiver	
E	Photocell	
G	Sensitive edge	
Н	Post	
- 1	Flashing Beacon	
L	Control system (key selector switch, keypad, badge reader)	
N	Junction box	
	2x1.5	
	6x1	
	3x1.5	
	RG 58	
	5x1	
	2x1	
	4x2.5	







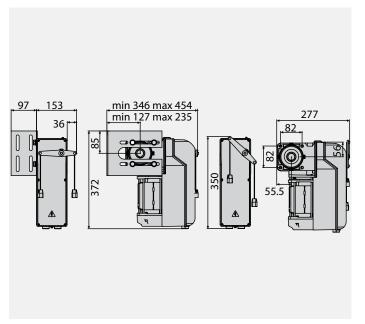


24V electromechanical operator for semi-intensive use, for automation of industrial sectional doors up to 25 m² (Pegaso B Cja 625) or up to

Limit switches with absolute encoder, with the possibility of rapid adjustment from floor.

Max. opening speed 24rpm and max. torque 70Nm (Pegaso B Cja625); max. opening speed 24rpm and max. torque 100Nm (Pegaso B Cja 645).

Dimension (mm)



Technical features

	PEGASO BCJA620L01	PEGASO BCJA625L01	PEGASO BCJA625L02	PEGASO BCJA645W01	PEGASO BCJA645W02
Control unit		LEO B CBB LO1		LEO B C	BB W01
Nominal voltage	230 V	230 V	230 V	400 V	400 V
Power input	750 W	750 W	750 W	980 W	980 W
Max surface area	20 m ²	25 m ²	25 m ²	45 m ²	45 m ²
Shaft diameter	25.4 mm	25.4 mm	25.4 mm	25.4 mm	25.4 mm
Door surface area	20 m ²	25 m ²	25 m ²	45 m ²	45 m ²
Travel	18	18	18	18	18
Type of limit switch	Absolute encoder	Absolute encoder	Absolute encoder	Absolute encoder	Absolute encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Chain release	Chain release	Double cable release	Chain release	Double cable release
Frequency of use	Semi intensive	Semi intensive	Semi intensive	intensive	intensive
Protection rating	IP!	54	IP55	IP54	IP55
Environmental conditions			-10 ÷ 50 °C		











Code	Name	Description
P925205 00003	PEGASO BCJA620L01	Automatic electromechanical operator for industrial sectional doors with max surface area 20 m² and use Semi intensive. Power supply 230 V. max speed 33 Rpm. max torque 50 nm. Chain release. IP54
P925203 00004	PEGASO BCJA625L01	Automatic electromechanical operator for industrial sectional doors with max surface area 25 m² and use Semi intensive. Power supply 230 V. max speed 24 Rpm. max torque 70 nm. Chain release. IP54
P925204 00004	PEGASO BCJA625L02	Automatic electromechanical operator for industrial sectional doors with max surface area 25 m ² and use Semi intensive. Power supply 230 V. max speed 24 Rpm. max torque 70 nm. Double cable release. IP55
P925203 00005	PEGASO BCJA645W01	Automatic electromechanical operator for industrial sectional doors with max surface area 45 m ² and use intensive. Power supply 400 V. max speed 24 Rpm. max torque 100 nm. Chain release. IP54
P925204 00005	PEGASO BCJA645W02	Automatic electromechanical operator for industrial sectional doors with max surface area 45 m² and use intensive. Power supply 400 V. max speed 24 Rpm. max torque 100 nm. Double cable release. IP55

LEO B CBB LO1: Control board for PEGASO CJA single phase operators

D113767 00002 - LEO B CBB L01 - Recommended



- Control board for PEGASO CJA single phase operators
- Application: control panel for one operator PEGASO B CJA monophase series Board power supply: 230V single-phase
- Operator power supply: 230V monophase

LEO B CBB WO1: Control board for PEGASO CJA tree-phase operators

D113768 00002 - LEO B CBB W01 - Recommended



- Application: control unit for 1 Pegaso B Cja series three-phase operator Board power supply: 400V three-phase Operator power supply: 400V three-phase
- Application: control unit for PEGASO B CJA three-phase operators Board power supply: 400V three-phase
- Operator power supply: 400V three-phase

RECOMMENDED ACCESSORIES







RECOMMENDED ACCESSORIES

î	N733336 - PIG 14/ULISSE S	î	N733339 - PIG 18/ULISSE S
	Z14 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts	***	Z18 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts
î	N733337 - PIG 30/ULISSE S		N733148 - COR 30
00	Z30 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts	0,0	Z30 gear kit complete with accessories for industrial sectional doors, for 1 " (25.4 mm) shafts
	N733149 - COR 40		N733121 - SFZ
9,9	Z40 gear kit complete with accessories for industrial sectional doors, for 1 " (25.4 mm) shafts		Additional fixing bracket kit. To be used on chain drive installations.
	N733449 - PEGASO ADA	400	P111407 - FALCON
	PEGASO ADA adapter for installation on doors with 1"1/4 shaft		Industrial presence sensor installable up to 7 m.













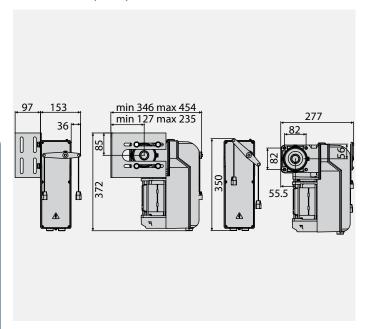


24V electromechanical operator for semi-intensive use, for automation of industrial sectional doors up to 25 m 2 (Pegaso B Cja 625) or up to 45 m 2

Limit switches with absolute encoder, with the possibility of rapid adjustment from floor.

Max. opening speed 24rpm and max. torque 70Nm (Pegaso B Cja625); max. opening speed 24rpm and max. torque 100Nm (Pegaso B Cja 645). Pead man switch

Dimension (mm)



	PEGASO BCJA620L11	PEGASO BCJA625L11	PEGASO BCJA625L12	PEGASO BCJA645W11
Nominal voltage	230 V	230 V	230 V	400 V
Power input	750 W	750 W	750 W	980 W
Max surface area	20 m ²	25 m ²	25 m ²	45 m ²
Shaft diameter	25.4 mm	25.4 mm	25.4 mm	25.4 mm
Door surface area	20 m ²	25 m ²	25 m ²	45 m ²
Travel	18	18	18	18
Type of limit switch	Absolute encoder	Absolute encoder	Absolute encoder	Absolute encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical
Release	Chain release	Chain release	Double cable release	Chain release
Frequency of use	Semi intensive	Semi intensive	Semi intensive	intensive
Protection rating	IP54		IP55	IP54
Environmental conditions	-10 ÷ 50 °C			





Code	Name	Description
P925205 00004	PEGASO BCJA620L11	Electromechanical operator, deadman, for industrial sectional doors with max surface area 20 m ² and use Semi intensive. Power supply 230 V. max speed 33 Rpm. max torque 50 nm. Chain release. IP54
P925203 00006	PEGASO BCJA625L11	Electromechanical operator, deadman, for industrial sectional doors with max surface area 25 m ² and use Semi intensive. Power supply 230 V. max speed 24 Rpm. max torque 70 nm. Chain release. IP54
P925204 00006	PEGASO BCJA625L12	Electromechanical operator, deadman, for industrial sectional doors with max surface area 25 m ² and use Semi intensive. Power supply 230 V. max speed 24 Rpm. max torque 70 nm. Double cable release. IP55
P925203 00007	PEGASO BCJA645W11	Electromechanical operator, deadman, for industrial sectional doors with max surface area 45 m ² and use intensive. Power supply 400 V. max speed 24 Rpm. max torque 100 nm. Chain release. IP54

RECOMMENDED ACCESSORIES

D12	21631 - PEGASO CABLE MONO		D424522 B05466 64 B1 6 BB1
			D121632 - PEGASO CABLE TRI
	re-wired power supply cable for PEGASO single phase perators. Length 1 m		Pre-wired power supply cable for PEGASO three-phase operators. Length 1 m
D12	21624 - PEGASO UP CONTROL 5		D121625 - PEGASO UP CONTROL 10
GA	able with pre-wired OPEN - STOP - CLOSE keypad for PE- ASO UP operators. For adjusting motor limit switches from por level. Length 5 m	3	Cable with pre-wired OPEN - STOP - CLOSE keypad for PE-GASO UP operators. For adjusting motor limit switches from floor level. Length 10 m
N9:	999468 - PEG CCP	î	N733338 - PIG 12/ULISSE S
Ext	xtension for PEGASO C operators release chain. Length 4	00	Z12 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts
N73	733336 - PIG 14/ULISSE S	î	N733339 - PIG 18/ULISSE 5
Z14	4 pinion gear for industrial sectional doors, for 1 " (25.4 m) shafts	00	Z18 pinion gear for industrial sectional doors, for 1 " (25.4 mm) shafts
N73	733337 - PIG 30/ULISSE S		N733148 - COR 30
Z30	30 pinion gear for industrial sectional doors, for 1 " (25.4 m) shafts	,	Z30 gear kit complete with accessories for industrial sectional doors, for 1 " (25.4 mm) shafts
N73	733149 - COR 40		N733121 - SFZ
	40 gear kit complete with accessories for industrial seconal doors, for 1 " (25.4 mm) shafts		Additional fixing bracket kit. To be used on chain drive installations.
N73	733449 - PEGASO ADA		
PEC sha	EGASO ADA adapter for installation on doors with 1"1/4 naft		









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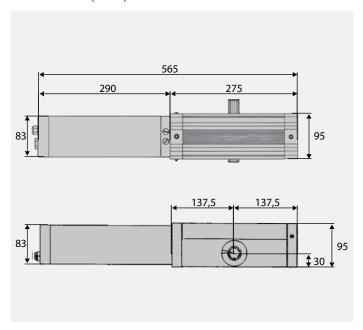






Hydraulic operator for very intensive use for industrial folding doors, maximum two panels per leaf. Designed for the toughest conditions of use, it combines strength and the typical reliability of hydraulic operators.

Dimension (mm)



	FORB	FORB R	FORB ERSA
Control unit		RIGEL 6	
Nominal voltage	230 V	230 V	230 V
Power input	250 W	250 W	250 W
Max surface area	6 m ²	2.4 m ²	2.4 m ²
Door surface area	6 m ²	2.4 m ²	2.4 m ²
Opening or closing time	25	Language	Language
Slowdown	no	Yes	Yes
Locking	Hydraulic	Hydraulic	absent
Release	Lever or steel cable	Lever or steel cable	Lever or steel cable
Impact reaction	Sure-safe anti-crushing system with 2 bypass valves	Sure-safe anti-crushing system with 2 bypass valves	Sure-safe anti-crushing system with 2 bypass valves
Frequency of use	very intensive	very intensive	very intensive
Protection rating	, IP:	57	IP20
Environmental conditions	-15 ÷ 60 °C		





Code	Name	Description
P935017 00001	FORB	Hydraulic operator for industrial folding doors (maximum two panels) of maximum surface area 6 m ² and very intensive use. Hydraulic protection against crushing
P935019 00001	FORB R	Hydraulic operator for industrial folding doors (maximum two panels) of maximum surface area 2.4 m² and very intensive use. Hydraulic slowdown
P935038 00001	FORB ERSA	Hydraulic operator for industrial folding doors (maximum two panels) of maximum surface area 2.4 m² and very intensive use. With slowdown of movements and automatic release. Hydraulic slowdown

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W

 Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio Channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES

N733020 - **SEB**



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



P111407 - FALCON

Industrial presence sensor installable up to 7 m.







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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release systems



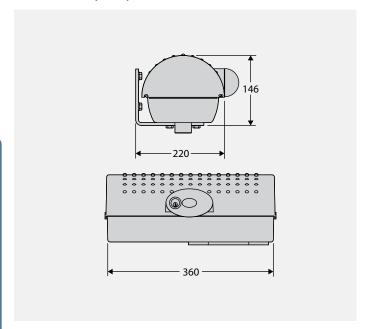






Range of electromechanical operators for industrial folding doors, maximum two panels per leaf. Available also in 24V version to guarantee maximum anti-crushing safety and precision in movement and slowdown.

Dimension (mm)



	IGEA LB BT	IGEA LB
Control unit	THALIA P	RIGEL 6
Nominal voltage	24 V	230 V
Power input	40 W	300 W
Max. door/gate weight	250 kg	250 kg
Panel length	2 m	2 m
Type of limit switch	Electromechanical	Electromechanical
Slowdown	Yes	Yes
Locking	Mechanical	Mechanical
Release	External accessory with personal key	External accessory with personal key
Impact reaction	D-Track	Electronic clutch
Frequency of use	Semi intensive	Semi intensive
Protection rating	IP.	4X
Environmental conditions	-15 ÷	60 °C





Code	Name	Description
P935072 00002	IGEA LB BT	Electromechanical operator for industrial folding doors (max. two panels) with panel length 2 m. door weight 250 kg and use Semi intensive. D-Track
P935077 00001	IGEA LB	Electromechanical operator for industrial folding doors (max. two panels) with panel length 2 m. door weight 250 kg and use Semi intensive. Electric clutch

THALIA P: Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems



D113747 00002 - THALIA P - Recommended



- 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.
- Application: display panel for 1 or 2 24V operators
- Compatibility: LIBRA C MA, LIBRA, LIBRA R, LIBRA MA R

RIGEL 6 220-230V 50/60HZ: Universal control panel with display for one or two 230V - 650+650W operators



D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended

- Universal control panel with display for one or two 230V 650+650W operators
- Application: universal control panel for one or two operators
- Board power supply: 230V single-phase
- Operators power supply: 230V single-phase 600+600W
- Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators , weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.
- 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 5 - RIGEL 4 - RIGEL 3 - RIGEL N

RECOMMENDED ACCESSORIES



D113811 00004 - ALENA SW2

Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors



🔷 🗎 D113745 00002 - **THALIA**

N733020 - SEB



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

Control panel with display for one or two 24V electromechanical operators for swing gates









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Automation systems for automatic pedestrian doors

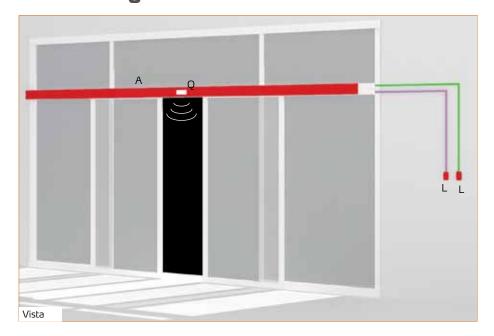
Guide to choosing

Number of doors	Supply voltage AC	Clear opening	Kit	Operator	Plus
				Sliding	
1		750÷2550 mm	-	VISTA SL E-107 230V	
		750 mm	-	VISTA SL-107	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 750 mm and crosspiece width 1600 mm.
	24 V	800÷2900 mm	-	VISTA SL E-208 230V	
2		800 ÷ 3300 mm	-	VISTA TL2-207	Maximum useful passage
		800 mm	-	VISTA SL-208	For very heavy gate leaves
4		1600 ÷ 4400 mm	-	VISTA TL4-416	Maximum useful passage
	Swing				
1	24 V	700 ÷ 1400	-	VISTA SW MXL	Ideal for "fail safe" installations (management with batteries)
	· ·	mm	-	VISTA SW SXL	Ideal for "fail secure" installations (management with spring)





Installation guide



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

















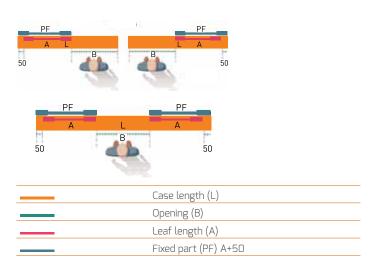




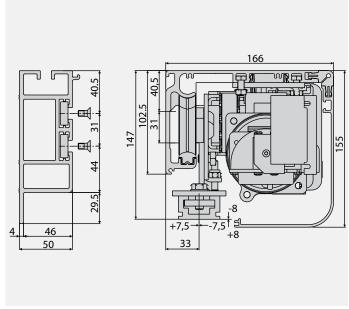


Complete range of automation systems for sliding pedestrian doors with a maximum leaf weight of 150 kg. The control unit, with a programming display and microprocessor technology, makes it possible to control all the main functions auto-

Shock-absorbing track and specially shaped wheels ensure that movement is absolutely silent. U-Link interconnectivity protocol



Dimension (mm)



	VISTA SL-1	VISTA SL-2	
Control unit	ARIA	EVO	
Supply voltage AC	24 V	24 V	
Nominal power consumption	230 W	230 W	
Leaf type	Sliding	Sliding	
Number of doors	1	2	
Door weight	150 kg	120+120 kg	
Manual cycle	Reversible	Reversible	
Motor type	Dunker motor	Dunker motor	
Type of limit switch	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening	
Clear opening	750 mm	800 mm	
Opening speed	up to 100	up to 200	
Closing speed	up to 100	up to 200	
Approach speed	5 ÷ 10	5 ÷ 10	
Locking	Mechanical	Mechanical	
Release	Release lever	Release lever	
Impact reaction	Electronic torque limiter	Electronic torque limiter	
Use cycle	Continuous	Continuous	
Protection rating	IPX0		
Environmental conditions	50 °C		





Code	Name	Anodised casing	Description	
P960502 00006	VISTA SL-107	P111411 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 750 mm and crosspiece width 1600 mm.	U-Link
P960503 00006	VISTA SL-108	P111412 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 850 mm and crosspiece width 1800 mm.	U-Link
P960504 00006	VISTA SL-109	P111414 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 950 mm and crosspiece width 2000 mm.	U-Link
P960505 00006	VISTA SL-110	P111473 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1050 mm and crosspiece width 2200 mm.	U-Link
P960506 00006	VISTA SL-111	P111416 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1150 mm and crosspiece width 2400 mm.	U-Link
P960507 00006	VISTA SL-112	P111417 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1250 mm and crosspiece width 2600 mm.	U-Link
P960508 00006	VISTA SL-113	P111418 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1350 mm and crosspiece width 2800 mm.	U-Link
P960509 00006	VISTA SL-114	P111419 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1450 mm and crosspiece width 3000 mm.	U-Link
P960510 00006	VISTA SL-115	P111420 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1550 mm and crosspiece width 3200 mm.	U-Link
P960511 00006	VISTA SL-116	P111421 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1650 mm and crosspiece width 3400 mm.	U-Link
P960512 00006	VISTA SL-117	P111422 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1750 mm and crosspiece width 3600 mm.	U-Link
P960513 00006	VISTA SL-119	P111423 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 1950 mm and crosspiece width 4000 mm.	U-Link
P960514 00006	VISTA SL-121	P111424 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 2150 mm and crosspiece width 4400 mm.	U-Link
P960515 00006	VISTA SL-123	P111425 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 2350 mm and crosspiece width 4800 mm.	U-Link
P960516 00006	VISTA SL-125	P111426 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 150 kg. useful passage 2550 mm and crosspiece width 5200 mm.	U-Link
P960517 00002	VISTA SL-208	P111413 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 800 mm and crosspiece width 1900 mm. For very heavy gate leaves	U-Link
P960518 00002	VISTA SL-209	P111414 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 900 mm and crosspiece width 2000 mm. For very heavy gate leaves	U-Link
P960519 00002	VISTA SL-210	P111473 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1000 mm and crosspiece width 2200 mm. For very heavy gate leaves	U-Link
P960520 00002	VISTA SL-211	P111416 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1100 mm and crosspiece width 2400 mm. For very heavy gate leaves	U-Link
P960521 00002	VISTA SL-212	P111417 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1200 mm and crosspiece width 2600 mm. For very heavy gate leaves	U-Link
P960522 00002	VISTA SL-213	P111418 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1300 mm and crosspiece width 2800 mm. For very heavy gate leaves	U-Link
P960501 00002	VISTA SL-214	P111419 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1400 mm and crosspiece width 3000 mm. For very heavy gate leaves	U-Link
P960523 00002	VISTA SL-215	P111420 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1500 mm and crosspiece width 3200 mm. For very heavy gate leaves	U-Link
P960524 00002	VISTA SL-216	P111421 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1600 mm and crosspiece width 3400 mm. For very heavy gate leaves	U-Link







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Code	Name	Anodised casing	Description	
P960525 00002	VISTA SL-217	P111422 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1700 mm and crosspiece width 3600 mm. For very heavy gate leaves	U-Link
P960526 00002	VISTA SL-219	P111423 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 1900 mm and crosspiece width 4000 mm. For very heavy gate leaves	U-Link
P960527 00002	VISTA SL-221	P111424 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 2100 mm and crosspiece width 4400 mm. For very heavy gate leaves	U-Link
P960528 00002	VISTA SL-223	P111425 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 2300 mm and crosspiece width 4800 mm. For very heavy gate leaves	U-Link
P960529 00002	VISTA SL-225	P111426 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 2500 mm and crosspiece width 5200 mm. For very heavy gate leaves	U-Link
P960530 00002	VISTA SL-227	P111427 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 2700 mm and crosspiece width 5600 mm. For very heavy gate leaves	U-Link
P960531 00002	VISTA SL-229	P111428 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 120+120 Kg. useful passage 2900 mm and crosspiece width 6000 mm. For very heavy gate leaves	U-Link

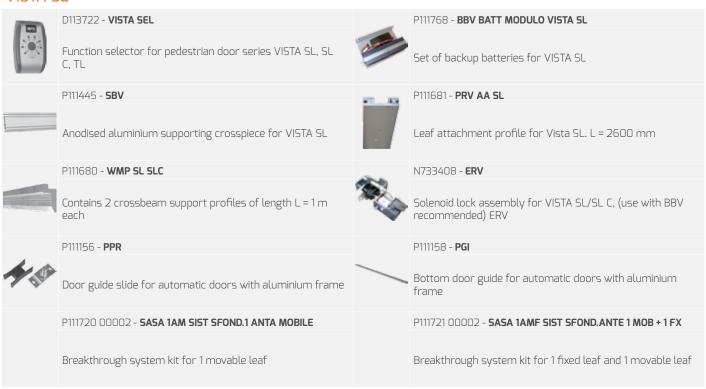
ARIA EVO: Control unit for pedestrian doors

ARIA EVO - Built in



- Control unit for pedestrian doors
- Application: control unit for pedestrian doors
- Board power supply: 230V single-phase
- Operator power supply: 24V
- Main features: programming with display, incorporated dual channel receiver, anti-crushing, slowdown during opening and closing
- Main functions: automatic re-closing, alarms management, anti-break-in logics

VISTA SL







VISTA SL

VIJIA 2	,	
	P111722 00002 - SASA 2AM SIST SFOND2 ANTE MOB	P111723 00002 - SASA 2AMF SIST SFOND.ANTE 2 MOB + 2 FX
	Breakthrough system kit for 2 movable leaves	Breakthrough system kit for 2 fixed leaves and 2 movable leaves
	P111724 00002 - SASA STAFFE PER FOTOC. RILIEVO SFONDAM. ANTE	P111725 00002 - SASA PRA 2,5 PROF.PROT.ANTA FX/MOB 2.5M
	Bracket kit for mounting FPA1 photocells for leaf breakage detection	Protection profile for fixed/movable leaf. Length L = 2.5 m
	P111726 00002 - SASA PRA 5 PROF. PROTEZ.ANTA FX/MOB, 5M	P111607 00002 - PRV 40.080 CORNICE ABBATTIMENTO L=6,82
	Protection profile for fixed/movable leaf. Length L = 5 m	Break-open frame for fixed leaf joint. Length L = 6.82 m
	P111610 00002 - PRV 40.120 MONTANTE ABBATTIMENTO L=5,1	N733589 - PRV 40.A53 CERNIERE PER SASA DX
	Break-open upright for fixed leaf joint. Length L = 5.1 m	Right hinge for joint on fixed leaf
	N733590 - PRV 40.A54 CERNIERE PER SASA SX	P111753 - OA-AXIS T
	Left hinge for joint on fixed leaf	Active infrared sensor for activation and security with safety test
	P111751 - 0A-AXIS II	P111754 - 0A-203C
	Active infrared sensor for activation and security	Active infrared sensor for activation and presence
	P111755 - OA-PRESENCE TN	P111759 - OT 3
	Active infrared sensor for security	Elbow-operated pushbutton, silver
	P111653 - VIO-DT2	P111654 - VIO-DT1
	Safety and bi-directional activation sensor, dual technology, monitored	Safety and mono-directional activation sensor, dual technology, monitored
	P111655 - IXIO-DT1	P111656 - VIO-ST
	Safety and mono-directional activation sensor, dual technology, monitored, programmable c.telecom.	Infrared safety sensor, monitored
	P111662 - VIO-M	P111676 - MAGIC SWITCH
	Compact mono-directional activation sensor	Activation touch button
	P111677 - PUSH PLATE	P111678 - SPAC
PUSH TO TIPEN	Activation button	Pair of locks (2) for glass leaf







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
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P. 229 release systems
P. 230





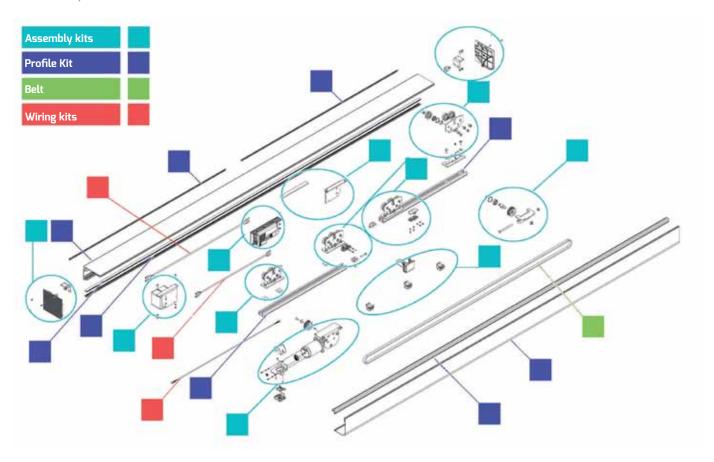
VISTA SL

P111687 - KIT FPA MA-I2		P111685 - KIT FPA2
FPA MA 12 kit with two pairs photocells and brackets for Vista	\$	FPA kit with two pairs photocells and brackets for Vista
P111683 - KIT FPA1		
FPA kit with pair of photocells and brackets for Vista		





Assembly kits



VISTA SL

Code	Manage
Code	Name
P960621 00002	MOUNTING KIT MODULO VISTA SL1 LEAF EVO 230V
P111749	EXPANSION KIT MODULO VISTA FOR 2 LEAVES
P960614 00001	KIT PROFILI VISTA SL 3M UTILE N
P960614 00002	KIT PROFILI VISTA SL 3M UTILE 0
P960615 00001	KIT PROFILI VISTA SL 4.4M UTILE N
P960615 00002	KIT PROFILI VISTA SL 4.4M UTILE 0
P960616 00001	KIT PROFILI VISTA SL 6M UTILE N
P960616 00002	KIT PROFILI VISTA SL 6M UTILE 0
D191099	CINGHIA DENTATA GOMMA RPP8-15 ANTIS. 30M















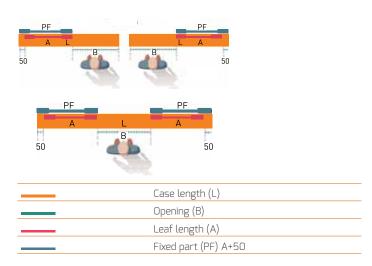




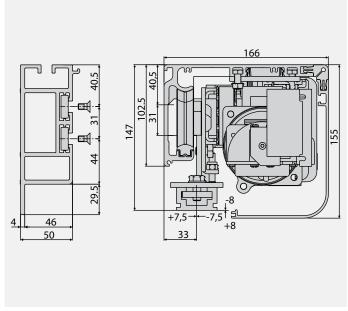
Complete range of automation devices for sliding pedestrian doors with maximum leaf weight of 100 kg and speeds of up to 70cm/s

The control unit, with a programming display and microprocessor technology, makes it possible to control all the main functions automatically.

Shock-absorbing track and specially shaped wheels ensure that movement is absolutely silent. U-Link interconnectivity protocol



Dimension (mm)



	VISTA SL E-1	VISTA SL E-2
Control unit	ARIA EVO	ARIA EVO
Supply voltage AC	24 V	24 V
Nominal power consumption	120 W	120 W
Leaf type	Sliding	Sliding
Number of doors	1	2
Door weight	100 kg	80+80 kg
Manual cycle	Reversible	Reversible
Type of limit switch	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening
Clear opening	750÷2550 mm	800÷2900 mm
Opening speed	70	140
Closing speed	70	140
Approach speed	5 ÷ 10	5 ÷ 10
Locking	Mechanical	Mechanical
Release	Release lever	Release lever
Impact reaction	Electronic torque limiter	Electronic torque limiter
Use cycle	Continuous	Continuous
Protection rating	IPXO	IPXO
Environmental conditions	50 °C	50 °C





Code	Name		Anodised casing	Description
P960634 00002	VISTA SL E-107 230V	new	P111411 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 750 mm and crosspiece width 1600 mm.
P960635	VISTA SL E-108	new	P111412	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002 P960636	230V VISTA SL E-109	new	00002 P111414	useful passage 850 mm and crosspiece width 1800 mm. Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002 P960637	230V VISTA SL E-110		00002 P111473	useful passage 950 mm and crosspiece width 2000 mm. Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002	230V	new	00002	useful passage 1050 mm and crosspiece width 2200 mm.
P960638 00002	VISTA SL E-111 230V	new	P111416 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1150 mm and crosspiece width 2400 mm.
P960639 00002	VISTA SL E-112 230V	new	P111417 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1250 mm and crosspiece width 2600 mm.
P960640 00002	VISTA SL E-113 230V	new	P111418 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1350 mm and crosspiece width 2800 mm.
P960641	VISTA SL E-114	new	P111419	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002 P960642	230V VISTA SL E-115	new	00002 P111420	useful passage 1450 mm and crosspiece width 3000 mm. Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002 P960643	230V VISTA SL E-116		00002 P111421	useful passage 1550 mm and crosspiece width 3200 mm. Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002 P960644	230V VISTA SL E-117	new	00002 P111422	useful passage 1650 mm and crosspiece width 3400 mm. Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002	230V	new	00002	useful passage 1750 mm and crosspiece width 3600 mm.
P960645 00002	VISTA SL E-119 230V	new	P111423 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1950 mm and crosspiece width 4000 mm.
P960646 00002	VISTA SL E-121 230V	new	P111424 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 2150 mm and crosspiece width 4400 mm.
P960647 00002	VISTA SL E-123 230V	new	P111425 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 2350 mm and crosspiece width 4800 mm.
P960648	VISTA SL E-125	new	P111426	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg.
00002 P960649	230V VISTA SL E-208	new	00002 P111413	useful passage 2550 mm and crosspiece width 5200 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960650	230V VISTA SL E-209		00002 P111414	Kg. useful passage 800 mm and crosspiece width 1900 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960651	230V VISTA SL E-210	new	00002 P111473	Kg. useful passage 900 mm and crosspiece width 2000 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002	230V	new	00002	Kg. useful passage 1000 mm and crosspiece width 2200 mm.
P960652 00002	VISTA SL E-211 230V	new	P111416 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1100 mm and crosspiece width 2400 mm.
P960653 00002	VISTA SL E-212 230V	new	P111417 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1200 mm and crosspiece width 2600 mm.
P960654 00002	VISTA SL E-213 230V	new	P111418 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1300 mm and crosspiece width 2800 mm.
P960655	VISTA SL E-214	new	P111419	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960656	230V VISTA SL E-215	new	00002 P111420	Kg. useful passage 1400 mm and crosspiece width 3000 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960657	230V VISTA SL E-216		00002 P111421	Kg. useful passage 1500 mm and crosspiece width 3200 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960658	230V VISTA SL E-217	new	00002 P111422	Kg. useful passage 1600 mm and crosspiece width 3400 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002	230V	new	00002	Kg. useful passage 1700 mm and crosspiece width 3600 mm.
P960659 00002	VISTA SL E-219 230V	new	P111423 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1900 mm and crosspiece width 4000 mm.
P960660 00002	VISTA SL E-221 230V	new	P111424 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 2100 mm and crosspiece width 4400 mm.
P960661 00002	VISTA SL E-223 230V	new	P111425 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 2300 mm and crosspiece width 4800 mm.
P960662	VISTA SL E-225	new	P111426	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960663	230V VISTA SL E-227	new	00002 P111427	Kg. useful passage 2500 mm and crosspiece width 5200 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002 P960664	230V VISTA SL E-229		00002 P111428	Kg. useful passage 2700 mm and crosspiece width 5600 mm. Operator for pedestrian sliding doors with 2 leaf with max weight 80+80
00002	230V	new	00002	Kg. useful passage 2900 mm and crosspiece width 6000 mm.
ADIA CVO	Control unit for nodo	4.4		

ARIA EVO: Control unit for pedestrian doors

ARIA EVO - Built in



- Control unit for pedestrian doors
- Application: control unit for pedestrian doors

- Board power supply: 230V single-phase
 Operator power supply: 24V
 Main features: programming with display, incorporated dual channel receiver, anti-crushing, slowdown during opening and closing
- Main functions: automatic re-closing, alarms management, anti-break-in logics







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13722 - **VISTA SEL**

nction selector for pedestrian door series VISTA SL, SL



odised aluminium supporting crosspiece for VISTA SL



ntains 2 crossbeam support profiles of length L = 1 m

1156 - **PPR**

or guide slide for automatic doors with aluminium frame

1720 00002 - **SASA 1AM SIST SFOND.1 ANTA MOBILE**

eakthrough system kit for 1 movable leaf

1722 00002 - **SASA 2AM SIST SFOND_.2 ANTE MOB**

eakthrough system kit for 2 movable leaves

1724 00002 - **Sasa Staffe Per Fotoc. Rilievo Sfondam.** ITE

acket kit for mounting FPA1 photocells for leaf breakage tection

1726 00002 - **SASA PRA 5 PROF. PROTEZ.ANTA FX/MOB, 5M**

otection profile for fixed/movable leaf. Length L = 5 m

1610 00002 - **PRV 40.120 MONTANTE ABBATTIMENTO L=5,1**

Break-open upright for fixed leaf joint. Length L = 5.1 m

N733590 - **PRV 40.A54 CERNIERE PER SASA SX**

Left hinge for joint on fixed leaf

P111751 - **OA-AXIS II**

Active infrared sensor for activation and security

P111755 - OA-PRESENCE TN

Active infrared sensor for security

P111653 - **VIO-DT2**

Safety and bi-directional activation sensor, dual technology, monitored

P111655 - IXIO-DT1



P111662 - VIO-M

Compact mono-directional activation sensor

P111677 - **PUSH PLATE**

Activation button

P111687 - **KIT FPA MA-I2**

FPA MA 12 kit with two pairs photocells and brackets for Vista



P111768 - BBV BATT MODULO VISTA SL

Set of backup batteries for VISTA SL

P111681 - **PRV AA SL**

Leaf attachment profile for Vista SL. L = 2600 mm

N733408 - **ERV**

Solenoid lock assembly for VISTA SL/SL C, (use with BBV recommended) ERV

P111158 - **PGI**

leaves



P111721 00002 - **SASA 1AMF SIST SFOND.ANTE 1 MOB + 1 FX**

Breakthrough system kit for 1 fixed leaf and 1 movable leaf

P111723 00002 - SASA 2AMF SIST SFOND.ANTE 2 MOB + 2 FX Breakthrough system kit for 2 fixed leaves and 2 movable

P111725 00002 - SASA PRA 2.5 PROF.PROT.ANTA FX/MOB 2.5M

Protection profile for fixed/movable leaf. Length L = 2.5 m

P111607 00002 - **PRV 40.080 CORNICE ABBATTIMENTO L=6,82**

Break-open frame for fixed leaf joint. Length L = 6.82 m

N733589 - **PRV 40.A53 CERNIERE PER SASA DX**

Right hinge for joint on fixed leaf

P111753 - **OA-AXIS T**

Active infrared sensor for activation and security with safety test

P111754 - **0A-203C**

Active infrared sensor for activation and presence

P111759 - **OT 3**

Elbow-operated pushbutton, silver

P111654 - **VIO-DT1**

Safety and mono-directional activation sensor, dual technology, monitored

P111656 - **VIO-ST**



Infrared safety sensor, monitored

P111676 - **MAGIC SWITCH**



Activation touch button

P111678 - **SPAC**

Pair of locks (2) for glass leaf

P111685 - **KIT FPA2**

FPA kit with two pairs photocells and brackets for Vista



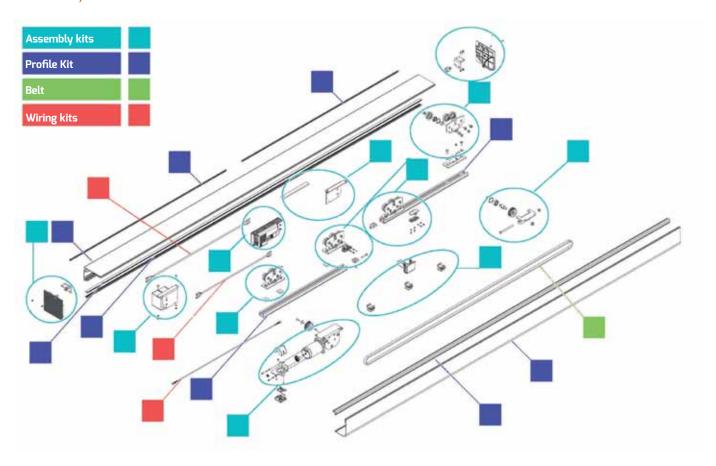




VISTA SL E



Assembly kits



VISTA SLE

Code	Name
P960633 00002	Kit Vista SLE Modulo 1 Anta - 230V
P111749	EXPANSION KIT MODULO VISTA FOR 2 LEAVES
P960614 00001	KIT PROFILI VISTA SL 3M UTILE N
P960614 00002	KIT PROFILI VISTA SL 3M UTILE O
P960615 00001	KIT PROFILI VISTA SL 4.4M UTILE N
P960615 00002	KIT PROFILI VISTA SL 4.4M UTILE O
P960616 00001	KIT PROFILI VISTA SL 6M UTILE N
P960616 00002	KIT PROFILI VISTA SL 6M UTILE O
D191099	CINGHIA DENTATA GOMMA RPP8-15 ANTIS. 30M







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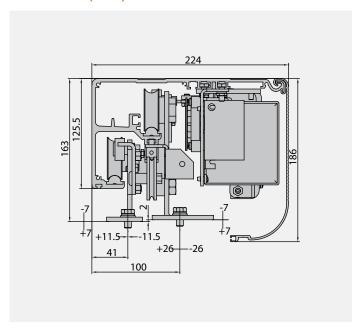




Automation for telescopic sliding doors for leaf weights up to 2x120Kg and 4x80Kg. Ideal for obtaining maximum useful passage in a limited space, the control unit with programming display allows local automatic adjustment of all the main functions and remote management via U-Link interconnectivity protocol

Sum of length of two movable leaves (A) Case length (L) Opening (B) Fixed part (PF) A+50

Dimension (mm)



	VISTA TL2-2	VISTA TL4-4
Control unit	ARIA	EVO
Supply voltage AC	24 V	24 V
Nominal power consumption	230 W	230 W
Leaf type	Sliding	Sliding
Number of doors	2	4
Door weight	2x120 kg	4x80 kg
Manual cycle	Reversible	Reversible
Type of limit switch	Encoder + mechanical stop for opening	Encoder + mechanical stop for opening
Clear opening	800 ÷ 3300 mm	1600 ÷ 4400 mm
Opening speed	up to 100	up to 200
Closing speed	up to 100	up to 200
Locking	Mechanical Mechanical	Mechanical
Release	Release lever	Release lever
Impact reaction	Electronic torque limiter	Electronic torque limiter
Use cycle	Continuous	Continuous
Protection rating	IPX0	IPX14
Environmental conditions	ons -20 ÷ 55 °C	

U-Link

U-Link

U-Link

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U-Link





P860589 VISTA TL2-208 Uperator for telescopic skiding pedestrian doors with 2 leaves and max, weight 2x120 kg, useful passage 750 mm and transom with 1950 mm. Maximum useful passage 950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950 mm and transom with 1950 mm. Maximum useful passage 1950			
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p960589 p960589 vista TL2-222 perator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x/120 kg. useful passage 2450 mm and transom width 3600 mm. Maximum useful passage 2450 mm and transom width 3600 mm. Maximum useful passage 2450 mm and transom width 3600 mm. Maximum useful passage 2450 mm and transom width 3600 mm. Maximum useful passage 2450 mm and transom width 3600 mm. Maximum useful passage 2450 mm and transom width 3900 mm. Maximum useful passage 2650 mm and transom width 3900 mm. Maximum useful passage 2650 mm and transom width 4200 mm. Maximum useful passage 2650 mm and transom width 4200 mm. Maximum useful passage 2650 mm and transom width 4200 mm. Maximum useful passage 2650 mm and transom width 4200 mm. Maximum useful passage 2650 mm and transom width 4500 mm. Maximum useful passage 2650 mm and transom width 4500 mm. Maximum useful passage 2650 mm and transom width 4500 mm. Maximum useful passage 2650 mm and transom width 4600 mm. Maximum useful passage 2650 mm and transom width 4600 mm. Maximum useful passage 2650 mm and transom width 4600 mm. Maximum useful passage 2650 mm and transom width 4600 mm. Maximum useful passage 2650 mm and transom width 3600 mm. Maximum useful passage 2650 mm and transom width 5600 mm. Maximum useful passage 2650 mm and transom width 5600 mm. Maximum useful passage 2650 mm and transom width 5600 mm. Maximum useful passage 2650 mm and transom width 5600 mm. Maximum useful passage 2600 mm and transom width 5600 mm. Maximum useful passage 2600 mm and transom width 5600 mm. Maximum useful passage 2600 mm and transom width 5600 mm. Maximum useful passage 2600 mm and transom width 2600 mm. Maximum useful passage 2600 mm and transom width 3600 mm. Maximum useful passage 2600 mm and transom width 3600 mm. Maximum useful passage 2600 mm and transom width 3600 mm. Maximum useful passage 2600 mm and transom width 3600 mm. Maximum useful passage 2600 mm and transom width 3600 mm. Maximum useful passage 2600 mm and transom width 3600 mm. Maximum useful passag		VISTA TL2-218	
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P960602 VISTA TL4-430 VISTA TL4-430 Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3000 mm and transom width 4700 mm. Maximum useful passage P960603 VISTA TL4-432 Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3000 mm and transom width 4700 mm. Maximum useful passage Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3200 mm and transom width 5000 mm. Maximum useful passage Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg.		VISTA TL4-426	
useful passage 3000 mm and transom width 4700 mm. Maximum useful passage P960603 UISTA TL4-432 Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3200 mm and transom width 5000 mm. Maximum useful passage P960604 VISTA TL4-434 Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg.		VISTA TL4-428	
useful passage 3200 mm and transom width 5000 mm. Maximum useful passage P960604 VICTA TI 4-434 Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg.		VISTA TL4-430	
		VISTA TL4-432	
useful passage 3400 mm and transom width 5300 mm. Maximum useful passage	P960604 00002	VISTA TL4-434	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3400 mm and transom width 5300 mm. Maximum useful passage







P. 226 signalling devices
P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
P. 228 solenoid locks
P. 229 release systems
P. 230 P. 231 P. 232 P. 233 P. 233 P. 234 P. 235





Code	Name	Description	
P960605 00002	VISTA TL4-436	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3600 mm and transom width 5600 mm. Maximum useful passage	U-Link
P960606 00002	VISTA TL4-438	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 3800 mm and transom width 5900 mm. Maximum useful passage	U-Link
P960607 00002	VISTA TL4-440	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 4000 mm and transom width 6200 mm. Maximum useful passage	U-Link
P960608 00002	VISTA TL4-442	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 4200 mm and transom width 6500 mm. Maximum useful passage	U-Link
P960609 00002	VISTA TL4-444	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 4400 mm and transom width 6800 mm. Maximum useful passage	U-Link

ARIA EVO: Control unit for pedestrian doors

ARIA EVO - Built in



- Control unit for pedestrian doors
 Application: control unit for pedestrian doors
 Board power supply: 230V single-phase
 Operator power supply: 24V
 Main features: programming with display, incorporated dual channel receiver, anti-crushing, slowdown during opening and closing
 Main functions: automatic re-closing, alarms management, anti-break-in logics

VISTA TL

	D113722 - VISTA SEL		P111158 - PGI
	Function selector for pedestrian door series VISTA SL, SL C, TL		Bottom door guide for automatic doors with aluminium frame
	P111618 00001 - PRV BR.48		P111618 00002 - PRV BR.49
	Finishing brush 20 mm, length 2.5 m		Finishing brush 27 mm, length 2.5 m
	P111688 - PPA TL FX		P111689 - PPA TL GD
	Vista TL glass leaf fixing clamp		Floor guides for Vista TL glass leaves
	P111717 - PRV AA TL		P111156 - PPR
	Wing attachment profile for Vista TL, 5100 mm long		Door guide slide for automatic doors with aluminium frame
	P111661 - SPRV TL T		P111660 - PRV TL T
	Profile closing brackets, 5pcs		Vista tl anodised closing profile, length 6.8 m
W 40	N733565 - SLV SBV TL2	4	N733408 - ERV
	SBV TL side fixing brackets		Solenoid lock assembly for VISTA SL/SL C, (use with BBV recommended) ERV
	P111503 - BBV SLC TL		P111678 - SPAC
	Battery powered anti-panic device for VISTA SL C, TL		Pair of locks (2) for glass leaf





VISTA TL

P111664 00002 - PPA TL 3200 0		P111664 00001 - PPA TL 3200 N
Clamps for glass leaf, 3200 mm, anodised		Clamps for glass leaf, 3200 mm, natural
P111663 00002 - PPA TL 1600 0		P111663 00001 - PPA TL 1600 N
Clamps for glass leaf, 1600 mm, anodised		Clamps for glass leaf, 1600 mm, natural
P111640 00001 - SBV TL		N733564 - SLV SBV TL1
Vista TL support beam, length 6.82 m	1	SBV TL ceiling fixing brackets
P111751 - 0A-AXIS II		P111753 - 0A-AXIS T
		Active infrared sensor for activation and security with safety test
P111755 - OA-PRESENCE TN		P111754 - 0A-203C
Active infrared sensor for security		Active infrared sensor for activation and presence
P111653 - VIO-DT2		P111654 - VIO-DT1
Safety and bi-directional activation sensor, dual technology, monitored		Safety and mono-directional activation sensor, dual technology, monitored
P111655 - IXIO-DT1		P111656 - VIO-ST
Safety and mono-directional activation sensor, dual technology, monitored, programmable c.telecom.		Infrared safety sensor, monitored
P111662 - VIO-M		P111676 - MAGIC SWITCH
Compact mono-directional activation sensor		Activation touch button
P111759 - OT 3		P111677 - PUSH PLATE
Elbow-operated pushbutton, silver	PUSH TO DPEN	Activation button





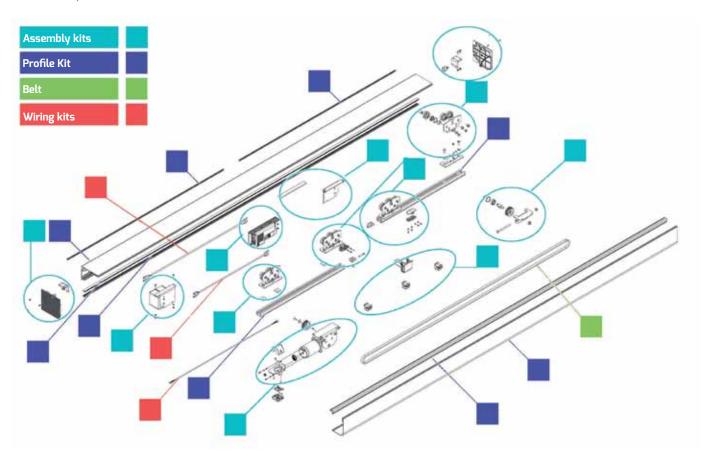


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Assembly kits



VISTA TL

Code	Name
P960610 00002	KIT MONTAGGIO VISTA TL 2 ANTE
P960611 00002	KIT MONTAGGIO VISTA TL 4 ANTE
P960613 00001	KIT PROFILI VISTA TL 4,7M N
P960613 00002	KIT PROFILI VISTA TL 4,7M O
P960612 00001	KIT PROFILI VISTA TL 6,8M N
P960612 00002	KIT PROFILI VISTA TL 6,8M O















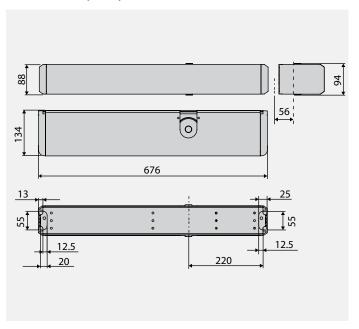






Range of automation for pedestrian doors swing, suitable for automating existing inputs and ideal for heavy use, heavy doors and large. Available both with motorized control of opening and closing that with management of closure spring

Dimension (mm)



	VISTA SW MXL	VISTA SW SXL
Control unit	Digital display and dip switch	Digital display and dip switch
Supply voltage AC	24 V	24 V
Nominal power consumption	400 W	400 W
Leaf type	Swing	Swing
Door weight	250 kg	250 kg
Maximum opening angle	110 °	110 °
Manual cycle	Reversible	Reversible
Motor type	Dunker motor	Dunker motor
Type of limit switch	Encoder	Encoder
Shaft max output torque	85 nm	85 nm
Closing	With motor	Return spring
lear opening	700 ÷ 1400 mm	700 ÷ 1400 mm
Opening speed	up to 70	up to 70
Closing speed	up to 40	up to 40
Closing force (according to EN 1154)	·	EN4-EN6
Emergency operation	Backup Batteries	Spring closing/manual manoeuvre
Locking	Solenoid Lock	Solenoid Lock
mpact reaction	Electronic torque limiter	Electronic torque limiter
Jse cycle	Continuous	Continuous
Protection rating	IP40	IP40
Environmental conditions	-10 ÷ 50 °C	-10 ÷ 50 °C





Code	Name	Description
P960578 00002	VISTA SW MXL	Operator for hinged doors with motor opening and closing. Leaves with max. weight 250 kg. max. width 684 mm Ideal for "fail safe" installations (management with batteries)
P960577 00002	VISTA SW SXL	Operator for hinged doors with motor and closing with return spring. Leaves with max. weight 250 kg. max. width 684 mm Ideal for "fail secure" installations (management with spring)

VISTA SW

D73	D113789 - VISTA SEL SW		P111568 - TSWP XL
	Function selector Vista SW		Profiles Vista SW double, 1.5 m.
	P111564 - BBV SW MXL	m	P111563 00004 - EXT ASW XL 90
	Emergency battery kit for Vista SW MXL, compatible with SXL with external installation		Arm connection L=90 mm Vista SW XL, spacer
m	P111563 00003 - EXT ASW XL 70		P111563 00002 - EXT ASW XL 50
	Arm connection L=70 mm Vista SW XL, spacer		Arm connection L=50 mm Vista SW XL, spacer
	P111563 00001 - EXT ASW XL 30		P111567 - ASW XL ARTL
	Arm connection L=30 mm Vista SW XL, spacer		Vista SW XL long articulated push arm. Jamb dimens. 150 mm
	P111566 - ASW XL ART		P111565 - ASW XL RIG
~	Vista SW XL articulated push arm. Max jamb dimens.: 150 mm	and the same of th	Vista SW XL rigid pull arm. Jamb max dimens.: 100 mm
	P111657 00003 - 4SAFE SENSORE SICUR IR MONIT.SW/ 2MOD/900		P111657 00002 - 4SAFE SENSORE SICUR.IR MONIT.SW/ 2MOD/700
	Monitored IR safety sensor for side-hung leaves, 2 modules, 900 mm		Monitored IR safety sensor for side-hung leaves, 2 modules, 700 mm
	P111657 00001 - 4SAFE SENSORE SICUR IR MONIT.SW/ 1MOD/700		P111656 - VIO-ST
	Monitored IR safety sensor for side-hung leaves, 1 module, 700 mm		Infrared safety sensor, monitored
	P111662 - VIO-M		P111756 - OA-EDGE T 340 1M
	Compact mono-directional activation sensor		Active infrared sensor for security L 340 mm with 1 module with safety test
	P111757 - OA-EDGE T 700 1M		P111758 - OA-EDGE T 1200 2M
	Active infrared sensor for security L 700 mm with 1 module with safety test		Active infrared sensor for security L 1200 mm with 2 modules with safety test
	P111759 - OT 3		
	Elbow-operated pushbutton, silver		







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PRV 20	Code	Name	Description
	P111630 00002	PRV 20.010	Upright L= 5.10m, 4pcs, 7.4Kg. Anodised.
	P111631 00002	PRV 20.020	Low upright L= 5.10m, 8pcs, 12Kg. Anodised.
Ca	P111632 00002	PRV 20.030	Strip L= 5.10m, 5pcs, 20.4Kg. Anodised.
	P111633 00002	PRV 20.040	Crosspiece L= 5.10m, 4pcs, 19.3Kg. Anodised.
	P111635 00002	PRV 20.060	Fixed adapter L= 5.10m, 6pcs, 9.7Kg
	P111636 00002	PRV 20.070	"L" fixed L= 5.10m, 12pcs, 15.2Kg. Anodised.
	P111637 00002	PRV 20.080	Photocell holder L= 5.10m, 6pcs, 18Kg. Anodised.
2 - Tw	P111638 00002	PRV 20.090	Labyrinth L= 5.10m, 8pcs, 14.9Kg. Anodised.
	P111639 00002	PRV 20.100	Guide rail L= 5.10m, 6pcs, 8.9Kg. Anodised.
	P111690 00002	PRV 20.110	Strip L= 6.82m, 2pcs, 36.2Kg. Anodised.
W 44	P111645	PRV 20.A16	Fixed wing accessories kit, 20pcs





BFE			
PRV 20			
M	P111646	PRV 20.A17	Sliding wing accessories kit, 20pcs
	P111647	PRV 20.A18	Floor guide, 1pc
	P111648	PRV 20GD.19	Telescopic floor guide, 1pc
A1	P111649	PRV 20GD.20	Glass separation strip accessories kit, 20pcs
	P111650	PRV 20.A21	Plate for fixing strip in corridor, 1pc
29	P111651	PRV 20.A22	Plate for fixing strip to wall, 1pc
	P111710	PRV 20.A23	Hex socket screw M5X16 8.8 500PCS, 500pcs
(1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 t	P111711	PRV 20.A24	Hex socket countersunk flathead cap screw M5X12 10.9 100PCS, 100pcs





P111642 PRV BR.13

Small brush 10mm, 20pcs



P111620

PRV BR.26

Narrow soft brush, 175 m



P111621

PRV BR.27

Wide soft brush, 450 m







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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PRV 20			
	P111618	PRV BR.47	Small brush 14mm. L= 2.5m, 20 pcs
	P111623	PRV GK.02	Type 2 glass stop seal, 400 m
	P111624	PRV GK.03	Type 3 glass stop seal, 150 m
	P111625	PRV GK.06	Type 6 glass stop seal, 250 m
	P111626	PRV GK.07	Type 7 glass stop seal, 250 m
	P111712	PRV GK.09	Type 9 glass stop seal, 180m
	P111641	PRV GK.12	Profile rabbet seal, 75m
	P111643	PRV GK.14	Stopping seal, 100m
	P111644	PRV GK.15	Type A glass stop sea, 90m
	P111619	PRV GK.24	Semifixed wing rabbet seal, 250 m
	P111622	PRV GK.28	Sliding wing rabbet seal, 50 m





PRV 40	Code	Name	Description
	P111600 00002	PRV 40.010	Sliding wing upright L= 5.1 m, 2pcs, 8.6Kg. Anodised.
	P111602 00002	PRV 40.030	Automation adapter L= 5.1 m, 4pcs, 13.5Kg
	P111603 00002	PRV 40.040	Fake upright on wall L= 5.1 m, 4pcs, 7.8Kg. Anodised.
48 S	P111601 00002	PRV 40.020	Sliding wing bottom crosspiece L= 5.1, 4pcs, 26Kg. Anodised.
	P111604 00002	PRV 40.050	Airtight labyrinth L= 5.1 m, 4pcs, 12.7Kg. Anodised.
	P111605 00002	PRV 40.060	Fanlight closing piece L= 5.1 m, 8pcs, 15.7Kg. Anodised.
7	P111606 00002	PRV 40.070	Cap for uprights. L= 5.1 m, 20pcs, 13.1Kg. Anodised.
	P111608 00002	PRV 40.090	Standard trim. L= 6.82 m, 4pcs, 23.1Kg. Anodised.
	P111609 00002	PRV 40.110	Sliding wing guide. L= 5.1 m, 12pcs, 19.3Kg
	P111611 00002	PRV 40.130	Profile for fanlight. L= 6.82, 2pcs, 30.6Kg. Anodised.
	P111691 00002	PRV 40.170	"U" profile 30x45x30x2, 4pcs, 14.7Kg. Anodised.







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PRV 40			
	P111612 00002	PRV 40.140	Small vert glass stop L= 6.5 m, 8pcs, 14.2Kg. Anodised.
	P111613 00002	PRV 40.150	Med vert glass stop L= 6.5 m, 8pcs, 13.8Kg. Anodised.
	P111614 00002	PRV 40.160	Large vert glass stop L= 6.5 m, 8pcs, 14.8Kg. Anodised.
	P111615 00002	PRV 40.310	Small horiz glass stop L= 6.5 m, 8pcs, 14.2Kg. Anodised.
	P111616 00002	PRV 40.320	Med horiz glass stop L= 6.5 m, 8pcs, 13.8Kg. Anodised.
	P111617 00002	PRV 40.330	Large horiz glass stop L= 6.5 m, 8pcs, 14.8Kg. Anodised.
	P111627	PRV 40GD.70	Low friction floor guide, 1pc
	P111628	PRV 40GD.78	Low friction floor guide for telesc wing, 1pc
	P111696	PRV 40.A39	Profile rectangular insert, 8pcs
	P111697	PRV 40.A40	Carr/profile hex insert, 40pcs
	P111698	PRV 40.A38	Frame spacer exten. 2.5mm, 200pcs





PRV 40

PRV 40			
	P111699	PRV 40.A49	Universal coupling, 100pcs
	P111700	PRV 40.A50	Upright add. external bracket, 40pcs
	P111701	PRV 40.A52	Trim add. external bracket, 40pcs
	P111702	PRV 40.A55	Frame aligning spacer 12mm, 80pcs
	P111703	PRV 40.A72	45° joint aligning bracket, 200pcs
- 100 MAI	P111704	PRV 40.A73	Glass ass. spacer kit 30pcs, 100pcs
	P111705	PRV 40.A75	Prof carriage fixing screw M8x16hex, 200pcs
	P111706	PRV 40.A76	Screw for fixing prof to crosspiece M6x8 panhead, 500pcs
	P111707	PRV 40.A77	90° prof ass. screw Self-thr 4.8x32, 500pcs
	P111708	PRV 40.A79	Guide/labyr. fixing screw 2.9x19, 200pcs
	P111709	PRV 40.A80	Hex socket countersunk flathead cap screw M6X12 ZN+ES 100PCS, 100pcs







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Accessories



Code	Name	
P111159 00076	PPA 12 123	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 123
P111159 00029	PPA 10 225	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 225
P111159 00030	PPA 10 227	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 227
P111159 00031	PPA 10 229	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 229
P111159 00066	PPA 12 110	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 110
P111159 00067	PPA 12 111	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 111
P111159 00068	PPA 12 112	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 112
P111159 00069	PPA 12 113	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 113
P111159 00071	PPA 12 115	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 115
P111159 00074	PPA 12 119	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 119
P111159 00028	PPA 10 223	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 223
P111159 00081	PPA 12 211	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 211
P111159 00083	PPA 12 213	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 213
P111159 00085	PPA 12 215	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 215
P111159 00087	PPA 12 217	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 217
P111159 00088	PPA 12 219	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 219
P111159 00089	PPA 12 221	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 221
P111159 00090	PPA 12 223	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 223
P111159 00091	PPA 12 225	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 225
P111159 00093	PPA 12 229	Clamp for supporting all-glass doors, thickness 12 mm, for VISTA 229
P111159 00016	PPA 10 208	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 208
P111159 00003	PPA 10 109	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 109
P111159 00004	PPA 10 110	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 110
P111159 00005	PPA 10 111	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 111
P111159 00006	PPA 10 112	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 112
P111159 00007	PPA 10 113	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 113
P111159 00008	PPA 10 114	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 114
P111159 00009	PPA 10 115	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 115
P111159 00010	PPA 10 116	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 116
P111159 00013	PPA 10 121	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 121
P111159 00002	PPA 10 108	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 108
P111159 00019	PPA 10 211	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 211
P111159 00020	PPA 10 212	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 212
P111159 00021	PPA 10 213	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 213
P111159 00022	PPA 10 214	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 214
P111159 00023	PPA 10 215	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 215
P111159 00024	PPA 10 216	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 216
P111159 00025	PPA 10 217	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 217
P111159 00026	PPA 10 219	Clamp for supporting all-glass doors, thickness 10 mm, for VISTA 219



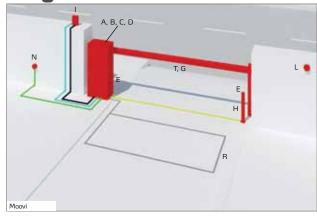


Automatic barriers - road barriers

Guide to choosing

	duide to choosing					
Useful passage	Frequency of use	Motor power supply	Operator	Plus		
				AD BARRIERS		
			MAXIMA ULTRA 36 120V INOX			
			MAXIMA ULTRA 36 120V RAL			
		120 V	MAXIMA ULTRA 36 XL 120V			
			MAXIMA ULTRA 36 XL INOX 120V			
from 2 to	20,000 (up		MAXIMA ULTRA 36 XL RAL 120V			
6 m	to 3 m), 5,000 (up to		MAXIMA ULTRA 36 XL RAL 230V			
	6 m) Op/gg		MAXIMA ULTRA 36 XL INOX 230V MAXIMA ULTRA 36 XL 230V			
	0111) Op/88	230 V	MAXIMA ULTRA 36 XL 230V MAXIMA ULTRA 36 230V RAL			
			MAXIMA ULTRA 36 INOX 230V			
			MAXIMA ULTRA 36 230V			
	1	120 V	MAXIMA ULTRA 36 120V			
from 1.7 to		.20	MAXIMA ULTRA 35 SM	U-Link embedded. Three-phase motor with inverter. Crank-connecting rod anti-van- dalism system. Gearmotor in oil bath		
5 m	Continuous		MAYIMA III TDA DE CM CT. CTCCI. (INIOV)	U-Link embedded. Three-phase motor with inverter. Crank-connecting rod anti-van-		
			MAXIMA ULTRA 35 SM ST. STEEL (INOX)	dalism system. Gearmotor in oil bath		
from 6.5 to 8 m	intensive		MAXIMA 80	Wide useful passage		
from 1.7 to 3 m	very intens-		MAXIMA 30	Fast barrier		
from 4 to 8 m from 4 to	ive	230 V	MAXIMA ULTRA 68 SM	U-Link embedded. Three-phase motor with inverter. Crank-connecting rod anti-van- dalism system. Gearmotor in oil bath		
6.4 m	intensive		MAXIMA 60	Intensive barrier Control unit with display and built-in receiver		
	Semi intens-		MOOVI 30 MOOVI 30 RAL	Control unit with display and built-in receiver Control unit with display and built-in receiver		
			MOOVI 30 RMM	Control unit with display and built-in receiver		
			MOOVI 30 RMM RAL	Control unit with display and built-in receiver		
			MOOVI 30 RMM INOX	Control unit with display and built-in receiver		
			GIOTTO BT A 305 U 230V50	New U-Link control unit with display and receiver in head		
3 m	very intens-			New U-Link control unit with display and receiver in head		
3111	ive	24 V	GIOTTO BT A 305 U 120V60	New U-Link control unit with display and receiver in head		
		24 V	GIOTTO BT A 30S U 120V60 RAL PERS	New U-Link control unit with display and receiver in head		
			GIOTTO BT A 30 U 230V50	New U-Link control unit with display and receiver in head		
				New U-Link control unit with display and receiver in head		
	intensive	sive	M00VI 305	Rapid barrier		
			MOOVI 305 RAL	Rapid barrier		
			MOOVI 505 INOX	Rapid barrier Control unit with display and built-in receiver		
		230 V	MOOVI 60 MOOVI 60 RAL	Control unit with display and built-in receiver Control unit with display and built-in receiver		
	Semi intens-		MOOVI 60 RMM	Control unit with display and built-in receiver		
	ive		MOOVI 60 RMM RAL	Control unit with display and built-in receiver		
			MOOVI 60RMM INOX	Control unit with display and built-in receiver		
			GIOTTO BT A 605 U 230V50	New U-Link control unit with display and receiver in head		
	very intens-			New U-Link control unit with display and receiver in head		
6 m	ive		GIOTTO BT A 605 U 120V60	New U-Link control unit with display and receiver in head		
			GIOTTO BT A 60S U 120V60 RAL PERS	New U-Link control unit with display and receiver in head		
		24 V	MICHELANGELO BT A 60 U			
		∠→ V	MICHELANGELO BT A 60 U RAL			
	intensive		MICHELANGELO BT A 60 U 120			
			MICHELANGELO BT A 60 U 120 RAL			
			GIOTTO BT A 60 U 230V50	New U-Link control unit with display and receiver in head		
				New U-Link control unit with display and receiver in head		
			MICHELANGELO BT A 80 U MICHELANGELO BT A 80 U RAL			
8 m	intensive	24 V	MICHELANGELO BT A 80 U RAL			
			MICHELANGELO BT A 80 U 120 RAL			

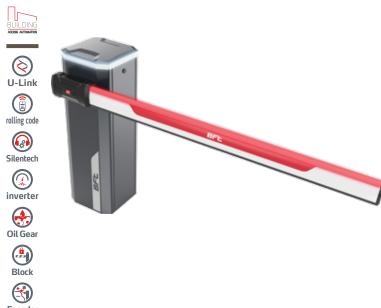
Installation guide



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







Range of 230V professional electro-mechanical barriers with inverter and asynchronous three-phase motor for frequent use. Possibility of managing 2 to 6 metre passages with fully accessorized rod in a single model. Cap with RGB lights (optional) to serve as traffic light, indicate availability of parking places and for self-diagnosis.

Dimension (mm)

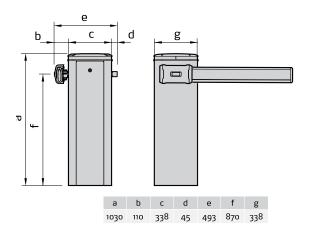


Table for choosing the version of the barrier MAXIMA ULTRA 36

-	•	L —	-
		BAR PS	

ADJ-FOOT

STD version

XL version

STD

L	2000	2500	3000	3500	4000	4500	5000	5500	6000
BOOM PS	STD	STD	STD	STD	STD	STD	STD	STD	STD
BOOM PS +ADJ FOOT	STD	STD	STD	STD	STD	STD	STD	STD	XL
BOOM PS +BTM SKIRT	STD	STD	STD	STD	STD	STD	STD	XL	XL
BOOM PS +ADJ FOOT +BTM SKIRT	STD	STD	STD	STD	STD	STD	STD	XL	XL





Technical features

	MAXIMA ULTRA 36 230V	MAXIMA ULTRA 36 INOX 230V	MAXIMA ULTRA 36 230V RAL	MAXIMA ULTRA 36 XL 230V	MAXIMA ULTRA 36 XL INOX 230V	MAXIMA ULTRA 36 XL RAL 230V
Useful passage	from 2 to 6 m					
Opening or closing time	from 0.7 to 3.9 s					
Control unit	CSB-XT	CSB-XT	CSB-XT	CSB-XT	CSB-XT	CSB-XT
Motor type	Three-phase asyn- chronous					
Gear unit type	In oil bath					
Inverter	Yes	Yes	Yes	Yes	Yes	Yes
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Impact reaction	Encoder	Encoder	Encoder	Encoder	Encoder	Encoder
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Inside the structure					
Frequency of use	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg
MCBF (Mean Cycles Between Failures)	7000000 Op	7000000 Op	7000000 Op	7000000 Op	7000000 Op	7000000 Op
Environmental conditions	-40 ÷ 60 °C					
Protection rating	IP55	IP55	IP55	IP55	IP55	IP55









Code	Name		Description
P940093 00002	MAXIMA ULTRA 36 230V	new	RAL 7015 barrier, including standard spring, 230V. Cap excluded
P940093 00202	MAXIMA ULTRA 36 INOX 230V	new	Stainless steel barrier, including standard spring, 230V. Cap excluded
P940093 00102	MAXIMA ULTRA 36 230V RAL	new	RAL custom barrier, including standard spring, 230V. Cap excluded
P940094 00002	MAXIMA ULTRA 36 XL 230V	new	RAL 7015 barrier, including strong spring, 230V. Cap excluded
P940094 00202	MAXIMA ULTRA 36 XL INOX 230V	new	Stainless steel barrier, including strong spring, 230V. Cap excluded
P940094 00102	MAXIMA ULTRA 36 XL RAL 230V	new	RAL custom barrier, including strong spring, 230V. Cap excluded
P940093 00001	MAXIMA ULTRA 36 120V	new	RAL 7015 barrier body, includes standard spring, 120 V. Excludes cap
P940093 00201	MAXIMA ULTRA 36 120V INOX	new	Stainless steel barrier body, includes standard spring, 120 V. Excludes cap
P940093 00101	MAXIMA ULTRA 36 120V RAL	new	Custom RAL barrier body, includes standard spring, 120 V. Excludes cap
P940094 00001	MAXIMA ULTRA 36 XL 120V	new	RAL 7015 barrier body, includes strong spring, 120 V. Excludes cap
P940094 00201	MAXIMA ULTRA 36 XL INOX 120V	new	Stainless steel barrier body, includes strong spring, 120 V. Excludes cap
P940094 00101	MAXIMA ULTRA 36 XL RAL 120V	new	Custom RAL barrier body, includes strong spring, 120 V. Excludes cap

CSB XT: 24V single operator control unit for barriers

CSB XT - Built in



- Board power supply: 230V single-phase
 Main characteristics: removable terminal boards withe new colour standard, simplified programming with scenario display, integrated two-channel receiver, D-Track based antisquashing system and slowdown during opening or closing.
 24V single operator control unit for barriers

RECOMMENDED ACCESSORIES

	P940095 00000 - Crown MAXIMA U36	P940095 00003 - Crown RGB MAXIMA U36
	Cap without lights for Maxima Ultra 36.	Cap with RGB lights for Maxima Ultra 36. Functions: flashing, traffic light, diagnostics.
	P940095 00200 - Crown MAXIMA U36 INOX	P940095 00203 - Crown RGB MAXIMA U36 INOX
	Cap without lights for Maxima Ultra 36.	Cap with RGB lights for Maxima Ultra 36 Stainless Steel. Functions: flashing, traffic light, diagnostics.
	P940095 00100 - Crown MAXIMA U36 RAL	P940095 00103 - Crown RGB MAXIMA U36 RAL
	Cap without lights for Maxima Ultra 36. Custom RAL	Cap with RGB lights for Maxima Ultra 36. Custom RAL. Functions: flashing, traffic light, diagnostics.
	P120088 - DIMA PR036	P120087 00001 - B00M P530
ÌIÍ	Foundation template and clamps for installation of Maxima Ultra 36 barriers.	Aluminium bar, opening L = 3 m with red reflectors. Includes rubber and upper optical diffuser. Lights excluded.
	P120087 00002 - B00M P540	P120087 00003 - BOOM P550
	Aluminium bar, opening L = 4 m with red reflectors. Includes rubber and upper optical diffuser. Lights excluded.	Aluminium bar, opening L = 5 m with red reflectors. Includes rubber and upper optical diffuser. Lights excluded.





	P120087 00004 - BOOM P560		P120084 00000 - OMEGA PS MAXIMA U36
	Aluminium bar, opening L = 6 m with red reflectors. Includes rubber and upper optical diffuser. Lights excluded.		Single lock for protective finger trapping casing and screws for MAXIMA ULTRA 36. BOOM PS bar excluded.
	P120094 00000 - OMEGA FRA PS MAXIMA U36		P120089 00001 - LIGHT P5 30
	Resettable impact protection connector (manual) for Maxima Ultra 36 barrier. BOOM PS bar excluded.		High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 3 metres long. Power supply unit excluded.
	P120089 00002 - LIGHT P5 40		P120089 00003 - LIGHT PS 50
	High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 4 metres long. Power supply unit excluded.	9	High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 5 metres long. Power supply unit excluded.
	P120089 00004 - LIGHT P5 60	3	P120075 - ALLU 2 MAXIMA ULTRA
	High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 6 metres long. Power supply unit excluded.		Power supply for ATM LIGHT Kit on Maxima Ultra
	P120091 - HYPHEN PS		P120085 - BTM-SKIRT
	Internal reinforcement/joint for BOOM PS booms. Already included in the Maxima Ultra 36 XL barriers but recommended for barriers L >= 5 m with or without accessories.		Lower skirt for BOOM PS booms. Module length L = 2 m.
	P120086 - FULL-SKIRT		P120095 - BRACKET SKIRT
	Full skirt (top and bottom) for BOOM PS booms. Module length $L=2$ m. Does not include SKIRT BRACKET required for anchoring the first module to the barrier body.	\	Anchoring bracket for BTM SKIRT and FULL SKIRT.
	P120093 - ADJ-F00T		P120092 - KIT ART90 P5
.//	Suspended cushioned telescopic supporting foot for BOOM PS booms.		Kit for 90° articulated bar. Excludes bar, bar connector, LIGHT PS lighting. Compatible with BOOM PS booms.
	P120092 00001 - ART90 BOOM P530		P120092 00002 - ART90 BOOM P530 R/G
	Boom bar PS 90° articulated L = 5 m pre-fitted. Excludes LIGHT PS lighting.		Boom bar PS L = 5 m 90° articulated including bar and LIGHT PS lighting pre-fitted.
	P120092 00003 - ART90 BOOM P550		P120092 00004 - ART90 BOOM P550 R/G
	Boom bar PS 90° articulated L = 5 m pre-fitted. Excludes LIGHT PS lighting.		Boom bar PS L = 5 m 90° articulated including bar and LIGHT PS lighting pre-fitted.







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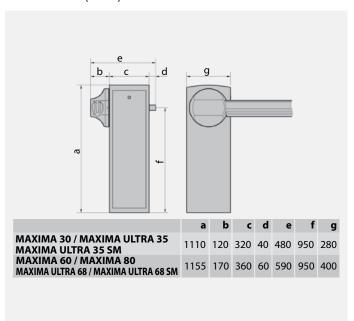


Range of professional 230 Vac electromechanical barriers with speed variator and three-phase induction motor for high frequency of use. Designed and developed to operate in a wide variety of conditions such as large car parks, motorway tollgates with frequent reversing, industrial installations.

Possibility of setting the useful passage from electronic control unit. Mechanical movement with crank to make the bar operate smoothly, also managing slowdowns in opening and closing.

Equipped with U-Link protocol, they allow integration in Parking Management or Building Management systems

Dimension (mm)



Technical features

	MAXIMA ULTRA 35 SM	MAXIMA ULTRA 35 SM ST. STEEL (INOX)	MAXIMA ULTRA 68 SM
Control unit		CSB-XT	
Motor power supply	230 V	230 V	230 V
Power input	300 W	300 W	300 W
Motor type	Three-phase asynchronous	Three-phase asynchronous	Three-phase asynchronous
Gear unit type	In oil bath	In oil bath	In oil bath
Inverter	Yes	Yes	Yes
Slowdown	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical
Release	Inside the structure	Inside the structure	Inside the structure
Impact reaction	Encoder	Encoder	Encoder
Useful passage	from 1.7 to 5 m	from 1.7 to 5 m	from 4 to 8 m
Frequency of use	Continuous	Continuous	very intensive
MCBF (Mean Cycles Between Failures)	5000000 Op	5000000 Op	2000000 Op
Protection rating		IP54	
Environmental conditions		-30 ÷ 60 °C	





Code	Name	Description	
P940073 00002	MAXIMA ULTRA 35 SM	Electromechanical barrier 230 V with incorporated INVERTER allows 20,000 (up to 3m), 5,000 (up to 5m) Op/gg. Opening time from 0.7 to 3 s with slowdown Yes. Max bar length: 5m. Suitable for installations in areas with frequent transit and frequent reversing (motorway tollgates, busy car parks, etc.) U-Link embedded Three-phase motor with inverter Crank-connecting rod anti-vandalism system Gearmotor in oil bath	U-Link
P940073 00007	MAXIMA ULTRA 35 SM ST. STEEL (INOX)	Electromechanical barrier 230 V with incorporated INVERTER allows 20,000 (up to 3m), 5,000 (up to 5m) Op/gg. Opening time from 0.7 to 3 s with slowdown Yes. Max bar length: 5m. Suitable for installations in areas with frequent transit and frequent reversing (motorway tollgates, busy car parks, etc.) U-Link embedded Three-phase motor with inverter Crank-connecting rod anti-vandalism system Gearmotor in oil bath	U-Link
P940074 00002	MAXIMA ULTRA 68 SM	Electromechanical barrier 230 V with incorporated INVERTER allows 3000 Op/gg. Opening time from 4.5 to 6 s with slowdown Yes. Max bar length: 8m. Suitable for installations in areas with frequent transit and frequent reversing (motorway tollgates, busy car parks, etc.) U-Link embedded Three-phase motor with inverter Crank-connecting rod anti-vandalism system Gearmotor in oil bath	U-Link

CSB XT: 24V single operator control unit for barriers

CSB XT - Built in



- Board power supply: 230V single-phase
- Main characteristics: removable terminal boards withe new colour standard, simplified programming with scenario display, integrated two-channel receiver, D-Track based antisquashing system and slowdown during opening or closing.
- 24V single operator control unit for barriers

RECOMMENDED ACCESSORIES

	P120077 00001 - KIT ATM LIGHT 3 R/G 2W		P120077 00002 - KIT ATM LIGHT 5 R/G 2W
	Red-green LED lights kit for fitting on ATM bars up to 3m.		Red-green LED lights kit for fitting on ATM bars up to 5m.
	P120077 00003 - KIT ATM LIGHT 8 R/G 2W	3	P120056 - MLR2.5
	Red-green LED lights kit for fitting on ATML bars up to 8 m.		Red spring - MAXIMA Utra 35 Ref. spring table
3	P120057 - MLB3	3	P120058 - MLV5
	Blue spring - MAXIMA Ultra 35 Ref. spring table		Green spring - MAXIMA Ultra 35 Ref. spring table
×	P120059 - MLC7.5	-	P120060 - MLC9
MULLUSCOSOSON/A	White spring - MAXIMA Ultra 68. Ref. spring table		Yellow spring - Maxima Ultra 68. Ref. spring table
3	P120081 - MLC11		P120036 00001 - ATM25
**************************************	Violet spring - Maxima Ultra 68. Ref. spring table		Aluminium bar L=2.5 m with drop-shaped profile and red reflectors. Lights and rubber protection not included. Completely protected by new polystyrene packaging.
	P120036 00002 - ATM30		P120036 00003 - ATM40
	Aluminium bar L=3 m with drop-shaped profile and red reflectors. Lights and rubber protection not included. Completely protected by new polystyrene packaging.		Aluminium bar L=4 m with drop-shaped profile and red reflectors. Lights and rubber protection not included. Completely protected by new polystyrene packaging





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P120036 00004 - ATM50		P120041 - ATML60
Aluminium bar L=5 m with drop-shaped profile and red reflectors. Lights and rubber protection not included. Completely protected by new polystyrene packaging.		Aluminium bar L = 6 m Ø92 mm. Lights and rubber not included. Completely protected by new polystyrene packaging.
P120042 - ATML EXT2		P120078 - IS ATML
Extension L=2m for bar model ATML 60. Lights and rubber not included.		Internal reinforcement for ATML rods
P120062 - OMEGA ATM U35	_	P120071 - OMEGA ATM FRA U35
Single clamping for ATM bar for MAXIMA ULTRA 35. Bar not included.		Single clamping for ATM bar for Maxima Ultra 35
P120046 - OMEGA ATML U		P120047 - OMEGA FRC ATML U
Single clamping, hand guard and screws for ATML bar on MAXIMA 68 ULTRA. Bar not included.		Fork clamping for ATML bar on barrier model. MAXIMA 68 ULTRA. Bar not included.
P120053 00001 - PCA ATM 3		P120053 00002 - PCA ATM 5
Rubber protection (red) for fitting on bar $L = 3 \text{ m}$ max.		Rubber protection (red) for fitting on bar L = 5 m max.





-	P120053 00003 - PCA ATM 8	@- I	P120075 - ALLU 2 MAXIMA ULTRA
	Protection rubber (black) for fitting on bars from $L = 6 \div 8$ m.	5	Power supply for ATM LIGHT Kit on Maxima Ultra
	P120076 - TP MAXIMA ULTRA		P120079 - EBB KIT ATML
	Thermal probe for Maxima Ultra barriers	0	Adjustable suspended foot, powder coated cataphoresis treated.
10	P120080 - FAF UNI R		P120050 - GA ATM
Ĭ	Adjustable suspended foot, powder coated cataphoresis treated.		Adjustable suspended foot, powder coated cataphoresis treated.
	P120049 - RST ATM		P120032 - SRV DIN
	Aluminium rack. Price for 3 metres. Suspended foot not included. Compatible with ATML and ATM model bars.		Standard DIN rail for interfacing barrier with parking system, configured and prewired with thermal magnetic switch, additional supply terminals, socket for metal mass detector and standard input/output terminal block
(2) Min.	P120033 - FCS MAXIMA 5		P120035 - FCS MU68
	2 additional limit switches for MAXIMA 30/MAXIMA ULTRA 35		2 additional limit switches for Maxima Ultra 6 - 8 m





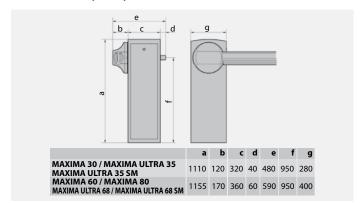






Range of professional 230 Vac electro-mechanical barriers for frequent use, designed to work under a great variety of conditions including large car parks, motorway toll gates with frequent reversing, industrial installations. Mechanical movement with crank to make the bar operate smoothly and harmoniously, also managing slowdowns in opening and closing.

Dimension (mm)



Technical features

	MAXIMA 30	MAXIMA 60	MAXIMA 80
c	MAXIMA 3U		MAXIMA 8U
Control unit		CSB-BR	
Motor power supply	230 V	230 V	230 V
Power input	300 W	300 W	300 W
Motor type	Single phase	Single phase	Single phase
Gear unit type	In oil bath	In oil bath	In oil bath
Slowdown	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical
Release	Inside the structure	Inside the structure	Inside the structure
Impact reaction	Electronic magnetic reverser	Electronic magnetic reverser	Electronic magnetic reverser
Useful passage	from 1.7 to 3 m	from 4 to 6.4 m	from 6.5 to 8 m
Frequency of use	very intensive	intensive	intensive
MCBF (Mean Cycles Between Failures)	5000000 Op	2000000 Op	2000000 Op
Protection rating		IP54	
Environmental conditions		-30 ÷ 60 °C	

Code	Name	Description
P940070	MAXIMA 30	Electromechanical barrier 230 V allows 10000 Op/gg. Opening time 1.7 s with slowdown. Max bar length: 3m. Suitable for installations in areas with frequent transit and frequent reversing (busy car parks, etc.) Fast barrier
P940071	MAXIMA 60	Industrial electromechanical barrier 230 V allows 2000 Op/gg. Opening time 8 s with slowdown Yes. Max length of bar 6m. Possibility of fitting single or double bar holder Intensive barrier
P940072	MAXIMA 80	Industrial electromechanical barrier 230 V allows 2000 Op/gg. Opening time 9 s with slowdown Yes. Max length of bar 8m. Possibility of fitting single or double bar holder Wide useful passage

CSB: 24V single operator control unit for barriers

CSB - Built in



- Board power supply: 230V single-phase
- Main characteristics: removable terminal boards withe new colour standard, simplified programming with scenario display, integrated two-channel receiver, D-Track based antisquashing system and slowdown during opening or closing.
- 24V single operator control unit for barriers





	MENDED ACCESSORIES	
~_	P120077 00001 - KIT ATM LIGHT 3 R/G 2W	P120077 00002 - KIT ATM LIGHT 5 R/G 2W
	Red-green LED lights kit for fitting on ATM bars up to 3m.	Red-green LED lights kit for fitting on ATM bars up to 5m.
	P120077 00003 - KIT ATM LIGHT 8 R/G 2W	new P120083 - ALLU2 Maxima
	Red-green LED lights kit for fitting on ATML bars up to 8 m.	Power supply for ATM LIGHT Kit on Maxima Ultra
	P120036 00001 - ATM25	P120036 00002 - ATM30
	Aluminium bar L=2.5 m with drop-shaped profile and red reflectors. Lights and rubber protection not included. Completely protected by new polystyrene packaging.	Aluminium bar L=3 m with drop-shaped profile and red reflectors. Lights and rubber protection not included. Completely protected by new polystyrene packaging.
	P120041 - ATML60	P120042 - ATML EXT2
	Aluminium bar L = 6 m Ø92 mm. Lights and rubber not included. Completely protected by new polystyrene packaging.	Extension L=2m for bar model ATML 60. Lights and rubber not included.
	P120078 - IS ATML	P120048 - OMEGA ATM FRA
	Internal reinforcement for ATML rods	Fracture system clamping for bar ATM
	P120044 - OMEGA ATML	P120045 - OMEGA FRC ATML
	Single clamping, hand guard and screws for ATML bar on MAXIMA 60/80. Bar not included.	New fork clamping for ATML bar on barrier model. MAXIMA 60/80. Bar not included.
	P120053 00001 - PCA ATM 3	P120053 00002 - PCA ATM 5
	Rubber protection (red) for fitting on bar L = 3 m max.	Rubber protection (red) for fitting on bar L = 5 m max.
150	P120053 00003 - PCA ATM 8	P120033 - FCS MAXIMA 5
	Protection rubber (black) for fitting on bars from L = 6÷8 m.	2 additional limit switches for MAXIMA 30/MAXIMA ULTRA 35
~	P120034 - FCS MAXIMA 6-8	P120049 - RST ATM
	2 additional limit switches for MAXIMA 60/80	Aluminium rack. Price for 3 metres. Suspended foot not included. Compatible with ATML and ATM model bars.
	P120050 - GA ATM	P120080 - FAF UNI R
	Adjustable suspended foot, powder coated cataphoresis treated.	Adjustable suspended foot, powder coated cataphoresis treated.
	P120079 - EBB KIT ATML	P120032 - SRV DIN
0	Adjustable suspended foot, powder coated cataphoresis treated.	Standard DIN rail for interfacing barrier with parking system, configured and prewired with thermal magnetic switch, additional supply terminals, socket for metal mass detector and standard input/output terminal block





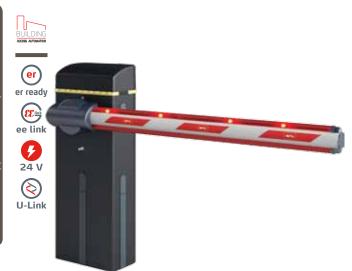




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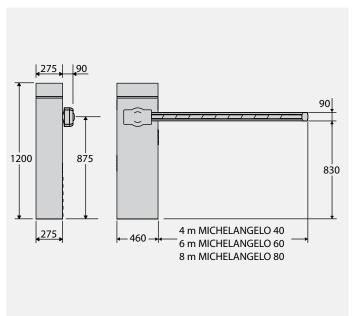




Range of barriers for very intensive use, for clear openings of up to 8 metres.

The wide range of accessories, incorporated flashing light and the arrangement for photocells make them ideal in any context

Dimension (mm)







Technical features

	MICHELANGELO BT A 60 U	MICHELANGELO BT A 60 U RAL	MICHELANGELO BT A 60 U 120	MICHELANGELO BT A 60 U 120 RAL	MICHELANGELO BT A 80 U	MICHELANGELO BT A 80 U RAL
Control unit			MERA	AK BM		
Motor power supply	24 V	24 V	24 V	24 V	24 V	24 V
Power input	300 W	300 W	300 W	300 W	300 W	300 W
Type of limit switch	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Key	Key	Key	Key	Key	Key
Impact reaction	Encoder	Encoder	Encoder	Encoder	Encoder	Encoder
Useful passage	6 m	6 m	6 m	6 m	8 m	8 m
Frequency of use	intensive	intensive	intensive	intensive	intensive	intensive
Protection rating			IP:	54		
Environmental conditions			-20 (-40 with	n THERMO) °C		

	MICHELANGELO BT A 80 U 120	MICHELANGELO BT A 80 U 120 RAL
Control unit	MERA	IK BM
Motor power supply	24 V	24 V
Power input	300 W	300 W
Type of limit switch	Electronic	Electronic
Slowdown	Yes	Yes
Locking	Mechanical	Mechanical
Release	Key	Key
Impact reaction	Encoder	Encoder
Useful passage	8 m	8 m
Frequency of use	intensive	intensive
Protection rating	IP <u>s</u>	54
Environmental conditions	-20 (-40 with	THERMO) °C





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Code	Name	Description	
P940076 00002	MICHELANGELO BT A 60 U	Barrier with 24 V power supply for useful passage up to 6 m and opening time 6 s. Impact reaction via Encoder. Control unit with ULink slot, display and receiver in head. RAL 7015 grey colour	U-Link
P940076 00102	MICHELANGELO BT A 60 U RAL	Barrier with 24 V power supply for useful passage up to 6 m and opening time 6 s. Impact reaction via Encoder. Control unit with ULink slot, display and receiver in head. RAL colour on request.	U-Link
P940076 00001	MICHELANGELO BT A 60 U 120	Control unit with ULink slot, display and receiver in head. RAL 7015 grey colour Barrier with 24 V power supply for useful passage up to 6 m and opening time 6 s. Impact reaction via Encoder.	U-Link
P940076 00101	MICHELANGELO BT A 60 U 120 RAL	Control unit with ULink slot, display and receiver in head. RAL colour on request Barrier with 24 V power supply for useful passage up to 6 m and opening time 6 s. Impact reaction via Encoder.	U-Link
P940077 00002	MICHELANGELO BT A 80 U	Barrier with 24 V power supply for useful passage up to 8 m and opening time 8 s. Impact reaction via Encoder. Control unit with ULink slot, display and receiver in head. RAL 7015 grey colour	U-Link
P940077 00102	MICHELANGELO BT A 80 U RAL	Control unit with ULink slot, display and receiver in head. RAL colour on request Barrier with 24 V power supply for useful passage up to 8 m and opening time 8 s. Impact reaction via Encoder.	U-Link
P940077 00001	MICHELANGELO BT A 80 U 120	Control unit with ULink slot, display and receiver in head. RAL 7015 grey colour Barrier with 24 V power supply for useful passage up to 8 m and opening time 8 s. Impact reaction via Encoder.	U-Link
P940077 00101	MICHELANGELO BT A 80 U 120 RAL	Control unit with ULink slot, display and receiver in head. RAL colour on request Barrier with 24 V power supply for useful passage up to 8 m and opening time 8 s. Impact reaction via Encoder.	U-Link

MERAK BM8: Incorporated control unit for one 24V operator for sliding gates

MERAK BM8 - Built in



- Incorporated control unit for one 24V operator for sliding gates
- Board power supply: 230V single-phase
 Main characteristics: removable terminal boards withe new colour standard, simplified programming with scenario display, integrated two-channel receiver, D-Track based antisquashing system and slowdown during opening or closing.

RECOMMENDED ACCESSORIES

-	D730964 - BM		N728022 - AQ6
last A	adjustable base plate for mod. MICHELANGELO - BM		Complete 6 m rectangular boom for MICHELANGELO
	N728026 - AT 704		N728030 - AT 706
	Round boom ø 70 mm, length 4.3 m. for clear spaces up to 4 m ATT 704		Round boom diam. 70 mm length 6.35 m for MICHELAN-GELO. for openings up to 6 m
	N728028 - AT 502		N728027 - AT 504
	Second part of telescopic round boom for MICHELANGELO, diam. 50 mm, length 2.6 m.		Second part of telescopic round boom for MICHELANGELO, diam. 50 mm, length 4.6 m.
	N999606 - OMEGA AQ 6	-	N999607 - OMEGA AT 70
N. W. W. W. W. W. W. W. W. W. W. W. W. W.	Accessories pack for AQ 6 boom		Accessories pack for AT 704/706
	N999386 - ACC MCL ATT		P120072 - KIT ML MCL40
0.1	Accessories pack for ATT 704 / 706 ACC MCL ATT boom		Spring kit for conversion from Michelangelo 60 to Michelangelo 40
	P120028 00001 - PCA N3		P120028 00002 - PCA N4
	Top and bottom rubber cover profile for booms of 3 m max.		Top and bottom rubber cover profile for booms of 4 m max.





	WEINDED ACCESSORIES		
	P120028 00003 - PCA N5		P120028 00004 - PCA N6
	Top and bottom rubber cover profile for booms of 5 m max.		Top and bottom rubber cover profile for booms of 6 m max.
A	P120028 00005 - PCA N8	metal .	P120006 - KIT MCL LAMPO
	Top and bottom rubber cover profile for booms of 8 m max.	desperantella desperantella desperantella	Integrated flashing light. The MCL CARD KIT is needed for operation
	P120009 - KIT SCHEDA MCL		P120005 00001 - KIT MCL LIGHT
The same of the sa	Control board for KIT MCL LIGHT and KIT MCL LAMPO	AND AND AND AND AND AND AND AND AND AND	Light kit (6 lights) for boom. For use in conjunction with PCA. The MCL CARD KIT is necessary for operation
	D573003 - SB	¥	D730088 - FAF
	Aluminium skirt for road barrier booms. Price per linear metre (Calculate length of useful passage minus 40cm)		Fixed rest fork for booms for cementing to ground.
	P120026 - ZFAF2	V	P120023 - FAF 2
00	Additional anchor plates for cementing FAF2 forks to ground.	I	Rest fork for booms. For bolting to ground.
	D940008 - GA AQ AT		D940009 - GAMA AQ AT
	Movable support leg for AQ or AT booms (on MOOVI, MICHELANGELO and GIOTTO barriers) -		Dampened movable support leg for AQ or AT booms (on MOOVI, MICHELANGELO and GIOTTO barriers) -
AU S. TO	P120018 - THERMO		N190104 - BIR C
6	Thermostatically controlled heating element for use of GIOTTO BT A, MOOVI, MICHELANGELO BT A barriers to ambient temperatures of -40 $^{\circ}\text{C}$		Rubber safety edge (H 30 mm), price per m
	P125038 - BAT KIT MCL BT A		P111401 00001 - VENTIMIGLIA NS
TIA.	Set of backup batteries for MICHELANGELO BT A barriers	W. Carrier	Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)
	P111001 00003 - RME 2		D110926 00001 - SPIRA 2X1
	230 V dual channel metal object detector with installation base	0	Magnetic loop 2 x 1 m



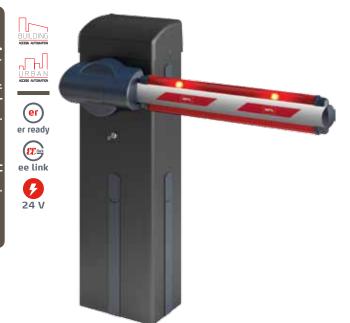




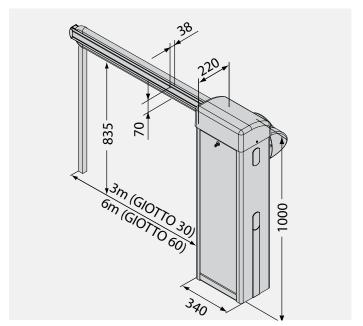
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Dimension (mm)



Range of barriers for intensive and very intensive use, able to manage useful passages up to 6 m. Integrated control unit with U-Link connectivity

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





Technical features

	GIOTTO BT A 30 U 230V50	GIOTTO BT A 30 U 230V50 RAL PERS	GIOTTO BT A 305 U 230V50	GIOTTO BT A 305 U 230V50 RAL PERS	GIOTTO BT A 305 U 120V60	GIOTTO BT A 305 U 120V60 RAL PERS
Control unit			MERA	AK BG		
Power supply	230 V	230 V	230 V	230 V	120 V	120 V
Power input	250 W	250 W	300 W	300 W	300 W	300 W
Motor power supply	24 V	24 V	24 V	24 V	24 V	24 V
Type of limit switch	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Personal key	Personal key	Personal key	Personal key	Personal key	Personal key
Impact reaction	Encoder	Encoder	Encoder	Encoder	Encoder	Encoder
Useful passage	3 m	3 m	3 m	3 m	3 m	3 m
Frequency of use	intensive	intensive	very intensive	very intensive	very intensive	very intensive
Protection rating			IP:	54		
Environmental conditions			-20/(-40 with TH	ERMO access.) °C		

	GIOTTO BT A 60 U 230V50	GIOTTO BT A 60 U 230V50 RAL PERS	GIOTTO BT A 605 U 230V50	GIOTTO BT A 605 U 230V50 RAL PERS	GIOTTO BT A 605 U 120V60	GIOTTO BT A 605 U 120V60 RAL PERS
Control unit			MERA	AK BG		
Power supply	230 V	230 V	230 V	230 V	120 V	120 V
Power input	250 W	250 W	300 W	300 W		
Motor power supply	24 V	24 V	24 V	24 V	24 V	24 V
Type of limit switch	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Release	Personal key	Personal key	Personal key	Personal key	Personal key	Personal key
Impact reaction	Encoder	Encoder	Encoder	Encoder	Encoder	Encoder
Useful passage	6 m	6 m	6 m	6 m	6 m	6 m
Frequency of use	intensive	intensive	very intensive	very intensive	very intensive	very intensive
Protection rating			iP.	54		
Environmental conditions			-20/(-40 with TH	IERMO access.) °C		





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Code	Name	Description	
P940078 00002	GIOTTO BT A 30 U 230V50	Barrier with 24 V motor power supply for clear opening up to 3 m and opening time 4 s. Impact resistance by means of Encoder. Grey RAL 7015 New U-Link control unit with display and receiver in head	U-Link
P940078 00102	GIOTTO BT A 30 U 230V50 RAL PERS	Barrier with 24 V power supply for clear opening up to 3 m and opening time 4 s. Impact resistance by means of Encoder. RAL colour as requested New U-Link control unit with display and receiver in head	U-Link
P940079 00002	GIOTTO BT A 305 U 230V50	Barrier with 24 V motor power supply for clear opening up to 3 m and opening time 2.5 s. Impact resistance by means of Encoder. Grey RAL 7015 New U-Link control unit with display and receiver in head	U-Link
P940079 00102	GIOTTO BT A 305 U 230V50 RAL PERS	Barrier with 24 V power supply for clear opening up to 3 m and opening time 2.5 s. Impact resistance by means of Encoder. RAL colour as requested New U-Link control unit with display and receiver in head	U-Link
P940079 00001	GIOTTO BT A 305 U 120V60	Barrier with 24 V motor for useful passage up to 3 m and opening time 2.5 s. Impact reaction via Encoder. Version 120V 60Hz New U-Link control unit with display and receiver in head	U-Link
P940079 00101	GIOTTO BT A 305 U 120V60 RAL PERS	Barrier with 24 V motor for useful passage up to 3 m and opening time 2.5 s. Impact reaction via Encoder. Version 120V 60Hz New U-Link control unit with display and receiver in head	U-Link
P940080 00002	GIOTTO BT A 60 U 230V50	Barrier with 24 V motor power supply for clear opening up to 6 m and opening time 5 s. Impact resistance by means of Encoder. Grey RAL 7015 New U-Link control unit with display and receiver in head	U-Link
P940080 00102	GIOTTO BT A 60 U 230V50 RAL PERS	Barrier with 24 V power supply for clear opening up to 6 m and opening time 5 s. Impact resistance by means of Encoder. RAL colour as requested New U-Link control unit with display and receiver in head	U-Link
P940081 00002	GIOTTO BT A 605 U 230V50	Barrier with 24 V motor power supply for clear opening up to 6 m and opening time 4 s. Impact resistance by means of Encoder. Grey RAL 7015 New U-Link control unit with display and receiver in head	U-Link
P940081 00102	GIOTTO BT A 60S U 230V50 RAL PERS	Barrier with 24 V power supply for clear opening up to 6 m and opening time 4 s. Impact resistance by means of Encoder. RAL colour as requested New U-Link control unit with display and receiver in head	U-Link
P940081 00001	GIOTTO BT A 605 U 120V60	Barrier with 24 V motor for useful passage up to 6 m and opening time 4 s. Impact reaction via Encoder. Version 120V 60Hz New U-Link control unit with display and receiver in head	U-Link
P940081 00101	GIOTTO BT A 605 U 120V60 RAL PERS	Barrier with 24 V motor for useful passage up to 6 m and opening time 4 s. Impact reaction via Encoder. Version 120V 60Hz New U-Link control unit with display and receiver in head	U-Link

MERAK BG: 24V single operator control unit for barriers

MERAK BG - Built in



- Board power supply: 230V single-phase
 Main characteristics: removable terminal boards withe new colour standard, simplified programming with scenario display, integrated two-channel receiver, D-Track based antisquashing system and slowdown during opening or closing.
 24V single operator control unit for barriers

RECOMMENDED ACCESSORIES

RECOMMENDED ACCESSORIES								
	D730251 - CBO		N728033 - AQ3					
- V	Base plate for mod. MOOVI - GIOTTO		Complete 3 metre rectangular boom for GIOTTO and MOOVI					
	N728034 - AQ5	-	N999507 - OMEGA AQ					
	Complete 5 metre rectangular boom for GIOTTO and MOOVI	O. W.	Pack of accessories for installation of 3/5 m rectangular boom for MOOVI/GIOTTO					
	N728031 - AT3		N728032 - AT5					
	Complete 3 metre round boom for MOOVI/GIOTTO		Complete 5 metre round boom for MOOVI/GIOTTO					
	N728038 - AT6	-	N999513 - OMEGA AT					
	Complete 6 metre round boom for MOOVI/GIOTTO		Pack of accessories for installation of 3/5 m round boom for MOOVI/GIOTTO					





TILCOIVI	MENDED ACCESSORIES		
γ	P120023 - FAF 2		N999608 - ACTR
	Rest fork for booms. For bolting to ground.		Pack of 12 additional reflective labels (1 pack already included with each boom)
p===	N728051 - ART 90 Q		D573003 - SB
	90° articulated joint for Moovi and Giotto booms. Max 4m clear passage.		Aluminium skirt for road barrier booms. Price per linear metre (Calculate length of useful passage minus 40cm)
	P120001 00001 - KIT LIGHT		P120001 00002 - KIT LIGHT1
#3254 #3254 #3254	Lights on boom 3 - 4.5 m		Lights for booms over 4.5 m
	P120028 00001 - PCA N3		P120028 00002 - PCA N4
	Top and bottom rubber cover profile for booms of 3 m max.		Top and bottom rubber cover profile for booms of 4 m max.
	P120028 00003 - PCA N5		P120028 00004 - PCA N6
	Top and bottom rubber cover profile for booms of 5 m max.		Top and bottom rubber cover profile for booms of 6 m max.
	P120026 - ZFAF2	Ī	D940007 - GAM
70	Additional anchor plates for cementing FAF2 forks to ground.		Mobile rest leg for BGV barrier boom (not usable on BGV 30)
	D940008 - GA AQ AT		D940009 - GAMA AQ AT
	Movable support leg for AQ or AT booms (on MOOVI, MICHELANGELO and GIOTTO barriers) -		Dampened movable support leg for AQ or AT booms (on MOOVI, MICHELANGELO and GIOTTO barriers) -
_	N190104 - BIR C	-4-	P111401 00001 - VENTIMIGLIA NS
	Rubber safety edge (H 30 mm), price per m	WANT OF THE PARTY	Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)
	P120074 - BAT KIT GIOTTO M BG	0118	P120018 - THERMO
O E	Buffer battery kit for Giotto BT A series barrier	6	Thermostatically controlled heating element for use of GIOTTO BT A, MOOVI, MICHELANGELO BT A barriers to ambient temperatures of -40 $^{\circ}\text{C}$
	P111001 00003 - RME 2		P111274 - RME 1 BT
	230 V dual channel metal object detector with installation base		24 V single channel metal object detector with installation base
	D110926 00001 - SPIRA 2X1		
0	Magnetic loop 2 x 1 m		







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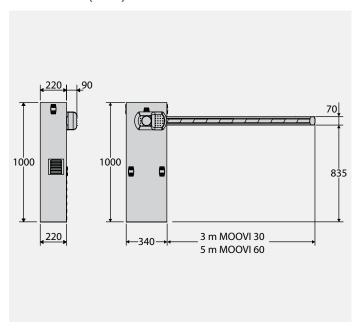






Range of barriers for very intensive use, for clear openings up to 6 m. The wide range of accessories available makes them ideal in any context.

Dimension (mm)



Technical features

	W00A130	MOOVI 30 RAL	MOOVI 30 RMM	MOOVI 30 RMM RAL	M00VI 305	M00VI 305 RAL	
Control unit	ALPHA	A BOM		LEO N	MV D		
Motor power supply	230 V	230 V	230 V	230 V	230 V	230 V	
Power input	300 W	300 W	300 W	300 W	300 W	300 W	
Type of limit switch	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	
Slowdown			Yes	Yes	Yes	Yes	
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
Release	Personal key	Personal key	Personal key	Personal key	Personal key	Personal key	
Impact reaction	Sensitive edge	Sensitive edge	Encoder	Encoder	Encoder	Encoder	
Useful passage	3 m	3 m	3 m	3 m	3 m	3 m	
Frequency of use	Semi intensive	Semi intensive	Semi intensive	Semi intensive	intensive	intensive	
Protection rating	IP24						
Environmental conditions	-20 ÷ 50 °C						





	MOOVI 305 INOX	MOOVI 60	MOOVI 60 RAL	MOOVI 60 RMM	MOOVI 60 RMM RAL	MOOVI 60RMM INOX	
Control unit	LEO MV D	ALPH	A BOM	LEO MV D			
Motor power supply	230 V	230 V					
Power input	300 W	300 W					
Type of limit switch	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	
Slowdown	Yes			Yes	Yes		
Locking	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	
Release	Personal key	Personal key	Personal key	Personal key	Personal key	Personal key	
Impact reaction	Encoder	Sensitive edge	Sensitive edge	Encoder	Encoder	Encoder	
Useful passage	3 m	6 m	6 m	6 m	6 m	6 m	
Frequency of use	intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive	
Protection rating	IP24						
Environmental conditions	-20 ÷ 50 °C						

	MOOVI 30 RMM INOX
Control unit	LEO MV D
Motor power supply	230 V
Power input	300 W
Type of limit switch	Electronic
Slowdown	
Locking	Mechanical
Release	Personal key
Impact reaction	Encoder
Useful passage	3 m
Frequency of use	Semi intensive
Protection rating	IP24
Environmental conditions	-20 ÷ 50 °C









Code	Name	Description
P940062 00002	M00VI 30	Barrier with 230 V motor power supply for clear opening up to 3 m and opening time 4 s. Impact resistance by means of Sensitive edge. Grey RAL 7015 Control unit with display and built-in receiver
P940062 00102	MOOVI 30 RAL	Barrier with 230 V power supply for clear opening up to 3 m and opening time 4 s . Impact resistance by means of Sensitive edge. RAL colour as requested Control unit with display and built-in receiver
P940063 00002	MOOVI 30 RMM	Barrier with 230 V motor power supply for clear opening up to 3 m and opening time 4 s. Impact resistance by means of Encoder. Grey RAL 7015 Control unit with display and built-in receiver
P940063 00102	MOOVI 30 RMM RAL	Barrier with 230 V power supply for clear opening up to 3 m and opening time 4 s . Impact resistance by means of Encoder. RAL colour as requested Control unit with display and built-in receiver
P940064 00002	M00VI 30S	Barrier with 230 V motor power supply for clear opening up to 3 m and opening time Impact resistance by means of Encoder. Grey RAL 7015 Rapid barrier
P940064 00102	MOOVI 305 RAL	Barrier with 230 V power supply for clear opening up to 3 m and opening time Impact resistance by means of Encoder. RAL colour as requested Rapid barrier
P940031 00002	MOOVI 305 INOX	Barrier with 230 V power supply for clear opening up to 3 m and opening time 1.5+slow s. Impact resistance by means of Encoder. Stainless steel structure Rapid barrier
P940065 00002	MOOVI 60	Barrier with 230 V motor power supply for clear opening up to 6 m and opening time 8 s. Impact resistance by means of Sensitive edge. Grey RAL 7015 Control unit with display and built-in receiver
P940065 00102	MOOVI 60 RAL	Barrier with 230 V power supply for clear opening up to 6 m and opening time 8 s . Impact resistance by means of Sensitive edge. RAL colour as requested Control unit with display and built-in receiver
P940066 00002	MOOVI 60 RMM	Barrier with 230 V motor power supply for clear opening up to 6 m and opening time 8 s. Impact resistance by means of Encoder. Grey RAL 7015 Control unit with display and built-in receiver
P940066 00102	MOOVI 60 RMM RAL	Barrier with 230 V power supply for clear opening up to 6 m and opening time 8 s . Impact resistance by means of Encoder. RAL colour as requested Control unit with display and built-in receiver
P940066 00004	MOOVI 60RMM INOX	Barrier with 230 V power supply for clear opening up to 6 m and opening time Impact resistance by means of Encoder. Stainless steel structure Control unit with display and built-in receiver
P940027 00004	MOOVI 30 RMM INOX	Barrier with 230 V power supply for clear opening up to 3 m and opening time Impact resistance by means of Encoder. Stainless steel structure Control unit with display and built-in receiver

ALPHA BOM: Built-in control unit for Moovi barrier

ALPHA BOM



- Built-in control unit for Moovi barrier
 Integrated dual-channel receiver
 Dip switch programming, potentiometers

LEO MV D: Control unit for MOOVI D113726 00002 - LEO MV D



- Main features: integrated dual-channel receiver, slowdown during opening and closing
 Display programming

RECOMMENDED ACCESSORIES

	D730251 - CBO		N728033 - AQ3
las A	Base plate for mod. MOOVI - GIOTTO		Complete 3 metre rectangular boom for GIOTTO and MOOVI
	N728034 - AQ5	-	N999507 - OMEGA AQ
	Complete 5 metre rectangular boom for GIOTTO and MOOVI	O. W.	Pack of accessories for installation of 3/5 m rectangular boom for MOOVI/GIOTTO
-	N999509 - OMEGA AQ INOX		N728031 - AT3
N. W. W. W. W. W. W. W. W. W. W. W. W. W.	Pack of accessories for installation of 3/5 m rectangular boom for MOOVI INOX		Complete 3 metre round boom for MOOVI/GIOTTO
	N728032 - AT5		N728038 - AT6
	Complete 5 metre round boom for MOOVI/GIOTTO		Complete 6 metre round boom for MOOVI/GIOTTO





RECUM	MENDED ACCESSURIES		
	N999513 - OMEGA AT	V	P120023 - FAF 2
0	Pack of accessories for installation of 3/5 m round boom for MOOVI/GIOTTO		Rest fork for booms. For bolting to ground.
	N999608 - ACTR		N728051 - ART 90 Q
	Pack of 12 additional reflective labels (1 pack already included with each boom)	<i></i>	90 $^{\circ}$ articulated joint for Moovi and Giotto booms. Max 4m clear passage.
	D573003 - SB		P120001 00001 - KIT LIGHT
	Aluminium skirt for road barrier booms. Price per linear metre (Calculate length of useful passage minus 40cm)	1000 T	Lights on boom 3 - 4.5 m
	P120001 00002 - KIT LIGHT1		P120028 00001 - PCA N3
	Lights for booms over 4.5 m		Top and bottom rubber cover profile for booms of 3 m max.
	P120028 00002 - PCA N4		P120028 00003 - PCA N5
	Top and bottom rubber cover profile for booms of 4 m max.		Top and bottom rubber cover profile for booms of 5 m max.
	P120028 00004 - PCA N6		P120026 - ZFAF2
	Top and bottom rubber cover profile for booms of 6 m max.	00	Additional anchor plates for cementing FAF2 forks to ground.
Ť	D940007 - GAM		D940008 - GA AQ AT
	Mobile rest leg for BGV barrier boom (not usable on BGV 30)		Movable support leg for AQ or AT booms (on MOOVI, MICHELANGELO and GIOTTO barriers) -
	D940009 - GAMA AQ AT		N190104 - BIR C
	Dampened movable support leg for AQ or AT booms (on MOOVI, MICHELANGELO and GIOTTO barriers) -		Rubber safety edge (H 30 mm), price per m
_	P111401 00001 - VENTIMIGLIA NS		P120018 - THERMO
	Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)	6	Thermostatically controlled heating element for use of GIOTTO BT A, MOOVI, MICHELANGELO BT A barriers to ambient temperatures of -40 $^\circ\text{C}$
	P111376 - SCS 1		P111001 00003 - RME 2
	Expansion card		230 V dual channel metal object detector with installation base
	D110926 00001 - SPIRA 2X1		
0	Magnetic loop 2 x 1 m		







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ARM ACCESSORIES COMPATIBILITY FOR MAXIMA / MAXIMA ULTRA

CODE	MODEL	MAXIMA 30 (1,7 / 3m)	MAXIMA ULTRA 35 (1,7 / 3m)	MAXIMA ULTRA 35 (3 / 5m)	MAXIMA 60 (4 / 6m)	MAXIMA 80 (6 / 8m)	MAXIMA ULTRA 68 (4 / 8m)
P120049	RST ATM		● (2)	●(3)	•	•	•
P120050 GA ATM				●(3)	•	•	•
P120052 00001	KIT ATM LIGHT 3 R/G	•	•				
P120052 00002	KIT ATM LIGHT 5 R/G			•			
P120052 00003	KIT ATM LIGHT 8 R/G				•	•	•
P120053 00001	PCA ATM 3	•	•				
P120053 00002	PCA ATM 5			•			
P120053 00003 PCA ATM 8					•	•	•
P120079	EBB KIT ATML				•	•	•
(1) D 11: 1	(2) I a and and (3) Charle		L-I-I -				

 $^{^{\}mbox{\scriptsize (1)}}$ Red light control only $\,^{\mbox{\scriptsize (2)}}$ Low speed only $\,^{\mbox{\scriptsize (3)}}$ Check springs table

ACCESSORIES COMPATIBILITY FOR MAXIMA / MAXIMA ULTRA

		MAXIMA 30	MAXIMA ULTRA 35	MAXIMA 60	MAXIMA 80	MAXIMA ULTRA 68
P120036 00001	ATM25	•	•			
P120036 00002	ATM30	•	•			
P120036 00003	ATM40		•			
P120036 00004	ATM50		•			
P120041	ATML60			•	•	•
P120042	ATML EXT2				•	•
P120043	OMEGA ATM	•				
P120048	OMEGA ATM FRA	•				
P120044	OMEGA ATML			•	•	
P120045	OMEGA FRC ATML			•	•	
P120062	OMEGA ATM U35		•			
P120071	OMEGA ATM FRA U35		•			
P120046	OMEGA ATML U					•
P120047	OMEGA FRC ATML U					•
P120065	ATM30 90° RG	•	•			
P120063	ATM30 180° RG		•			
P120066	ATM50 90° RG		•			
P120064	ATM50 180° RG		•			

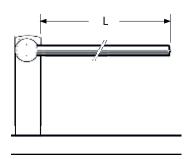




MAXIMA ULTRA 35

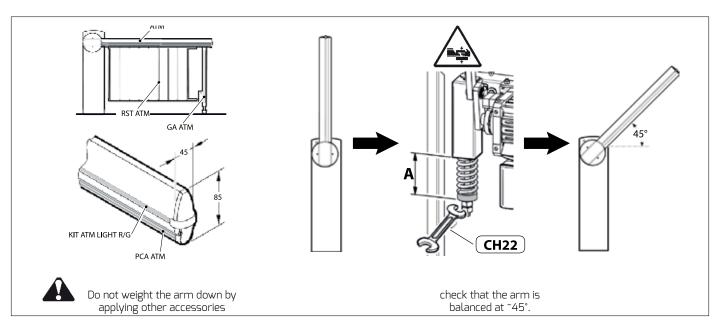
SPRINGS

SPRING TYPE	Ø WIRE	SPRING COLOR
R	7,5	ROSSO
В	8,0	BLU
G	9,5	VERDE



BALANCING THE ARM

MAXIMA ULTRA 35 (springs calibration - approximate data)											
	L	1700	2000	2250	2500	2750	3000	3500	4000	4500	5000
ATM	N	R	R	R	R	В	В	G	G	G	G
ATM + GA ATM	M								G	G	G
ATM + PCA ATM	N.	R	R	R	R	В	В	G	G	G	G
ATM + PCA ATM + GA ATM	S								G	G	G
ATM + KIT ATM LIGHT R/G	S	R	R	R	R	В	В	G	G	G	G
ATM + KIT ATM LIGHT R/G + GA ATM	N.								G	G	G
ATM + KIT ATM LIGHT R/G + PCA ATM	M	R	R	R	R	В	В	G	G	G	G
ATM + KIT ATM LIGHT R/G + PCA ATM + GA ATM	M								G	G	
ATM + RST ATM	M	R	R	В	В	В	G	G	G	G	
ATM + RST ATM + GA ATM	M							G	G		
ATM + RST ATM + KIT ATM LIGHT R/G	M	R	R	В	В	В	G	G	G	G	
ATM + RST ATM + GA ATM + KIT ATM LIGHT R/G	3							G	G		







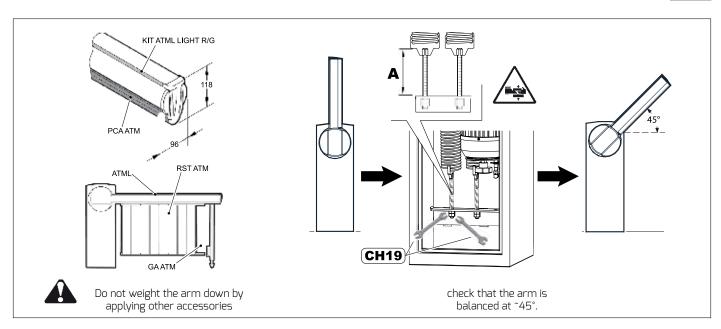
MAXIMA ULTRA 68 CON OMEGA ATML U

SPRINGS

SPRING TYPE SPRING COLOR Ø WIRE 9 YELLOW К 11 BLACK WHITE 7,5 W+W WHITE 7,5 WHITE 7,5 W+Y 9 YELLOW YELLOW 9 Y+Y YELLOW 9 BLACK 9 Y+K BLACK K+K + BLACK

BALANCING THE ARM

	MAXIMA ULTRA 68 (springs calibration - approximate data)												
	L	4000	4500	5000	5500	6000	6500	7000	7500	8000			
ATML	3	W+W	W+W	Υ	Υ	W+Y	К	W+K	W+K	Y+K			
ATML + GA ATM	M	W+W	Υ	Υ	W+Y	W+Y	W+K	W+K	W+K	Y+K			
ATML + EBB KIT ATML	N.	W+W	Υ	Υ	W+Y	W+Y	W+K	W+K	W+K	Y+K			
ATML + PCA ATM	M	W+W	Υ	Υ	W+Y	W+Y	W+K	W+K	Y+K	Y+K			
ATML + PCA ATM + GA ATM	M	W+W	Υ	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	Y+K			
ATML + KIT ATML LIGHT R/G	M	W+W	W+W	Υ	Υ	W+Y	К	W+K	W+K	Y+K			
ATML + KIT ATML LIGHT R/G + GA ATM	No.	W+W	Υ	Υ	W+Y	W+Y	W+K	W+K	Y+K	Y+K			
ATML + KIT ATML LIGHT R/G + PCA ATM	No.	W+W	Υ	Υ	W+Y	W+Y	W+K	W+K	Y+K	Y+K			
ATML + KIT ATML LIGHT R/G + PCA ATM + GA ATM	No.	Υ	Υ	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K			
ATML + RS ATM	M	W+W	Υ	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K			
ATML + RST ATM + GA ATM	No.	Υ	Υ	W+Y	Y+Y	Y+Y	Y+K	Y+K	K+K				
ATML + RST ATM + KIT ATML LIGHT R/G	3	Υ	Υ	W+Y	W+Y	Y+Y	Y+K	Y+K	K+K				
ATML + RST ATM + GA ATM + KIT ATML lIGHT R/G	M	Υ	W+Y	W+Y	Υ+ Υ	Y+Y	Y+K	Y+K	K+K				







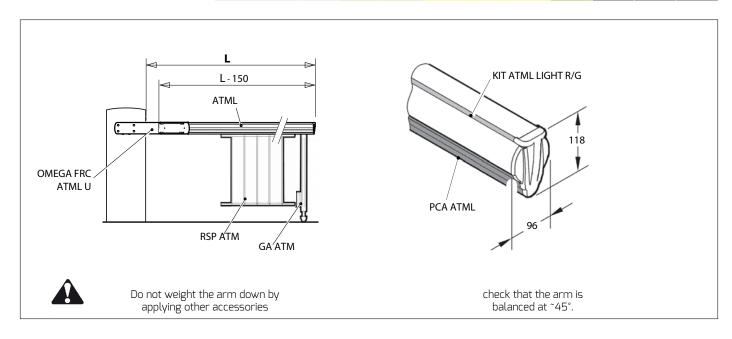
MAXIMA ULTRA 68 CON OMEGA FRC ATML U

SPRINGS

SPRING TYPF	Ø WIRE	SPRING COLOR
Y	9	YELLOW
К	11	BLACK
W+W	7,5 + 7,5	WHITE + WHITE
W+Y	7,5 + 9	WHITE + YELLOW
Y+Y	9 + 9	YELLOW + YELLOW
W+K	7,5 + 11	WHITE + BLACK
Y+K	9 + 11	YELLOW + BLACK
K+K	11 + 11	BLACK + BLACK

BALANCING THE ARM

	MAXIMA ULTRA 68 (springs calibration - approximate data)												
	L	4000	4500	5000	5500	6000	6500	7000	7500	8000			
ATML	N	W+W	Υ	Υ	W+Y	W+Y	К	W+K	Y+K	Y+K			
ATML + GA ATM	M	Υ	W+Y	W+Y	W+Y	Y+Y	Y+Y	Y+K	Y+K	Y+K			
ATML + EBB KIT ATML	M	Y	W+Y	W+Y	W+Y	Y+Y	Υ+ Υ	Y+K	Y+K	Y+K			
ATML + PCA ATM	M	Υ	W+Y	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K			
ATML + PCA ATM + GA ATM	N	Υ	W+Y	W+Y	Υ+Υ	Y+Y	W+K	Y+K	Y+K	K+K			
ATML + KIT ATML LIGHT R/G	M	Υ	Υ	W+Y	W+Y	Y+Y	К	W+K	Y+K	Y+K			
ATML + KIT ATML LIGHT R/G + GA ATM	M	Y	W+Y	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K			
ATML + KIT ATML LIGHT R/G + PCA ATM	M	Υ	W+Y	W+Y	Y+Y	Y+Y	W+K	Y+K	Y+K	K+K			
ATML + KIT ATML LIGHT R/G + PCA ATM + GA ATM	N	Υ	W+Y	W+Y	Y+Y	Y+Y	W+K	Y+K	K+K	K+K			
ATML + RS ATM	3	Υ	W+Y	W+Y	Y+Y	Y+Y	W+K	Y+K	K+K	K+K			
ATML + RST ATM + GA ATM	3	W+Y	W+Y	Y+Y	Y+Y	Y+Y	Y+K	K+K	K+K	K+K			
ATML + RST ATM + KIT ATML LIGHT R/G	3	Y	W+Y	W+Y	Y+Y	Y+Y	Y+K	Ү+К	K+K	K+K			
ATML + RST ATM + GA ATM + KIT ATML LIGHT R/G	M	W+Y	W+Y	Y+Y	Y+Y	Y+Y	Y+K	K+K	K+K	K+K			

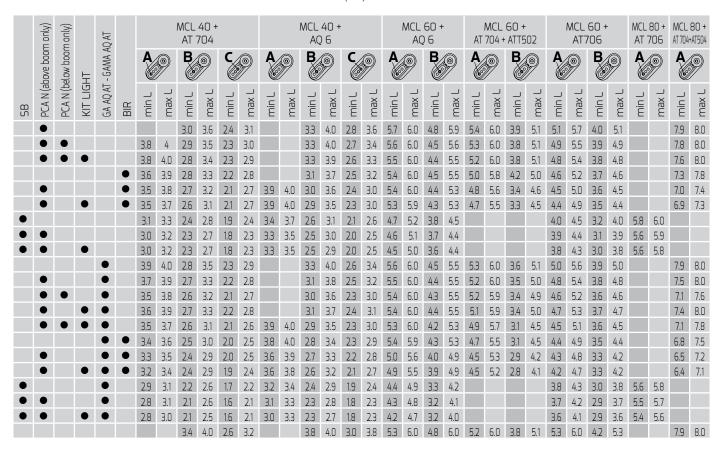






MICHELANGELO BT A

WORKING LENGTH OF BOOM AND BALANCING (m)



GIOTTO - GIOTTO BT A

WORKING LENGTH OF BOOM AND BALANCING (m)

	only)	only)				GIOTTO BT / GIOTTO S BT 60				GIOTTO BT / GIOTTO S BT 30					
	boom	boom		ΑΤ		Ą			9	Ą	(a)		9	C,	(
	bove	elow	노	AQ A		&		©		&		(©	
SB	PCA N (above boom only)	PCA N (below boom only)	KIT LIGHT	GA AQ AT GAMA AQ ,	BR R	min L	max L	min L	max L	min L	max L	min L	max L	min L	max L
	•					5.0	5.0	3.9	5.0					1.9	3.0
	•	•				4.7	5.0	3.7	4.9					1.8	3.0
	•	•	•			4.6	5.0	3.6	4.7			2.9	3.0	1.7	2.9
					•	4.4	4.9	3.4	4.5			2.8	3.0	1.7	2.8
	•				•	4.2	4.6	3.3	4.3			2.7	3.0	1.6	2.7
	•		•		•	4.1	4.5	3.2	4.2			2.6	3.0	1.5	2.6
•						3.6	4.0	2.8	3.7	2.8	3.0	2.3	2.6	1.3	2.3
•	•					3.4	3.8	2.7	3.6	2.7	2.9	2.2	2.5	1.3	2.2
•	•		•			3.4	3.8	2.7	3.5	2.7	2.9	2.2	2.5	1.3	2.2
				•		4.8	5.0	3.7	5.0			2.9	3.0	1.6	2.9
	•			•		4.5	5.0	3.5	4.7			2.8	3.0	1.5	2.8
	•	•		•		4.3	4.8	3.3	4.4			2.6	3.0	1.4	2.6
	•	•	•	•		4.2	4.7	3.2	4.3			2.5	3.0	1.4	2.5
				•	•	4.0	4.5	3.1	4.2			2.5	2.9	1.3	2.5
	•			•	•	3.8	4.3	2.9	4.0	2.9	3.0	2.3	2.8	1.3	2.3
	•		•	•	•	3.7	4.2	2.9	3.9	2.9	3.0	2.3	2.7	1.2	2.3
•				•		3.3	3.7	2.6	3.5	2.5	2.8	2.0	2.4	1.1	2.0
•	•			•		3.2	3.6	2.5	3.3	2.5	2.7	2.0	2.3	1.1	2.0
•	•		•	•		3.2	3.5	2.4	3.3	2.4	2.7	1.9	2.3	1.0	1.9
						6.0	6.0	4.4	5.0					2.1	3.0

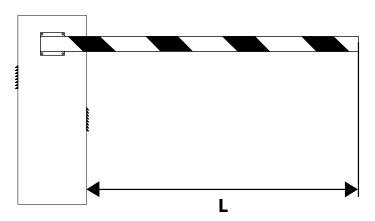




MOOVI 30-60

WORKING LENGTH OF BOOM AND BALANCING (m)

	n only)	n only)			_		MOO	VI 60				VI 30	
	PCA N (above boom only)	PCA N (below boom only)	노	, AQ AT		A		В		В	9	C	
2B	PCA N (al	PCA N (b	KIT LIGHT	GA/GAMA AQ AT	BIR	min L	max L	min L	max L	min L	max L	min L	max L
	•					5.0	5.0	3.9	5.0			2.9	3.0
	•	•				4.7	5.0	3.7	4.9			2.8	3.0
	•	•	•			4.6	5.0	3.6	4.7			2.7	3.0
					•	4.4	4.9	3.4	4.5			2.6	3.0
	•				•	4.2	4.6	3.3	4.3			2.4	3.0
	•		•		•	4.1	4.5	3.2	4.2	2.9	3.0	2.4	3.0
•						3.6	4.0	2.8	2.7	2.9	3.0	2.1	3.0
•	•					3.4	3.8	2.7	3.6	2.8	3.0	2.0	3.0
•	•		•			3.4	3.8	2.7	3.5	2.7	3.0	1.9	3.0
				•		4.8	5.0	3.7	5.0			2.7	3.0
	•			•		4.5	5.0	3.5	4.7			2.5	3.0
	•	•		•		4.3	4.8	3.3	4.4			2.4	3.0
	•	•	•	•		4.2	4.7	3.2	4.3	2.9	3.0	2.3	3.0
				•	•	4.0	4.5	3.1	4.2	2.8	3.0	2.2	3.0
	•			•	•	3.8	4.3	2.9	4.0	2.7	3.0	2.1	3.0
	•		•	•	•	3.7	4.2	2.9	3.9	2.9	3.0	2.1	3.0
•				•		3.3	3.7	2.6	3.5	2.6	3.0	1.8	3.0
•	•			•		3.2	3.6	2.5	3.3	2.6	3.0	1.7	3.0
•	•		•	•		3.2	3.5	2.4	3.3	2.5	3.0	1.7	3.0
						6.0	6.0	4.4	5.0			2.9	3.0







Parking and traffic bollards

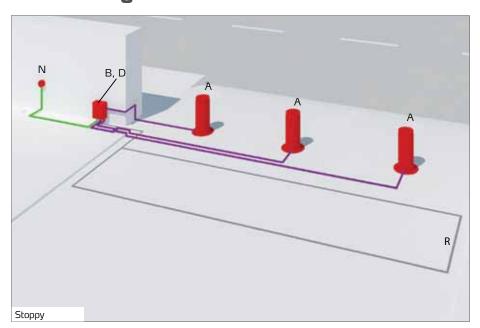
Guide to choosing

Rod height	Rod dia- meter	Kit	Operator	Plus
	meter		hvdr	raulic bollards
		-	PILLAR B 275/600.6C L	Cap with lights
		-	PILLAR B 275/600.6C LI	Stainless steel shaft
600 mm		-	PILLAR B 275/600.6C L SD	Cap with Lights & Security Device
		-	PILLAR B 275/600.6C LI SD	Stainless steel and Security Device
		-	PILLAR B 275/800.6C L	Cap with lights
		-	PILLAR B 275/800.10C L	Cap with lights
	275 mm	_	PILLAR B 275/800.6C LI	Stainless steel shaft
000		-	PILLAR B 275/800.10C LI	Stainless steel shaft
800 mm		-	PILLAR B 275/800.6C L SD	Cap with Lights & Security Device
		-	PILLAR B 275/800.10C L SD	Cap with Lights & Security Device
		-	PILLAR B 275/800.6C LI SD	Stainless steel and Security Device
		-	PILLAR B 275/800.10C LI SD	Stainless steel and Security Device
			auto	matic bollards
	115 mm	-	STOPPY B 115/500	Slowdown in opening and closing
		_	STOPPY MBB KIT 219/500.C	
			230 C	
500 mm	220 mm	_	STOPPY MBB KIT 219/500.C	
	22011111		230 L C	
		-	STOPPY MBB KIT 219/500.C 230 LI C	
	200 mm	_	STOPPY B 200/700	
	200 111111	-	STOPPY MBB KIT 219/700.C	
		-	230 C	
700 mm			STOPPY MBB KIT 219/700.C	
	220 mm	-	230 L C	
			STOPPY MBB KIT 219/700.C	
		_	230 LI C	
				utomatic bollards
	115 mm	-	DAMPY B 115/500	Cataphoresis
		-	DAMPY B 115/500 I	Stainless steel
500 mm		-	DAMPY B 219/500	Cataphoresis
		-	DAMPY B 219/500 I	Stainless steel
		-	DAMPY B 219/500 L	Lights
	220 mm	-	DAMPY B 219/500 LI	Lights and s/steel
			DAMPY B 219/700	Cataphoresis
700 mm			DAMPY B 219/700 I	Stainless steel
		-	DAMPY B 219/700 L	Lights Lights and s/steel
		-	DAMPY B 219/700 LI	xed bollards
		_	RANCH B 219/500	Cataphoresis
			RANCH B 219/500 I	Stainless steel
500 mm	220 mm	_	RANCH B 219/500 L	Lights
			RANCH B 219/500 LI	Lights and s/steel
		_	RANCH C 275/600CN L	Painted steel High breakage resistance
600 mm	275 mm	_	RANCH C 275/600CN LI	Stainless steel High breakage resistance
		_	RANCH B 219/700	Cataphoresis
		_	RANCH B 219/700 I	Stainless steel
700 mm	220 mm	_	RANCH B 219/700 L	Lights
		_	RANCH B 219/700 LI	Lights and s/steel
		_	RANCH C 275/800CN L	Painted steel High breakage resistance
800 mm	275 mm	_	RANCH C 275/800CN LI	Stainless steel High breakage resistance
				nual bollards
CDE	115		RANCH R Ø115-625 DISS.	
625 mm	115 mm	-	RIBALT.	





Installation guide



А	Operator
В	Control unit
D	Receiver
N	Junction box
R	Magnetic loop detector
	2x1.5
	3x1.5
	RG 58
	2x1
	13x1







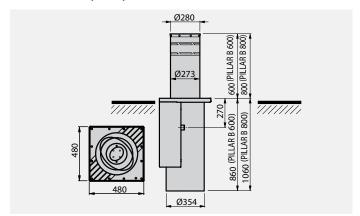






Anti-terrorist hydraulic bollard with incorporated hydraulic control unit. Suitable for protecting sensitive sites, thanks to the special "5D" version, which keeps the shaft raised in case of a power failure and with public installations where, in the standard version, the shaft lowers automatically with no power.

Dimension (mm)



Technical features

	PILLAR B 275/600.6C L	PILLAR B 275/600.6C LI	PILLAR B 275/600.6C L SD	PILLAR B 275/600.6C LI SD	PILLAR B 275/800.6C L	PILLAR B 275/800.10C L			
Control unit			PERSEO CB	E 230.P SD					
Power supply	230 V	230 V	230 V	230 V	230 V	230 V			
Opening or closing time	5 s	5 s	5 s	5 s	6.5 s	6.5 s			
Rod height	600 mm	600 mm	600 mm	600 mm	800 mm	800 mm			
Rod thickness	6 mm	6 mm	6 mm	6 mm	6 mm	10 mm			
Rod diameter	275 mm	275 mm	275 mm	275 mm	275 mm	275 mm			
Type of limit switch	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor			
Slowdown	no	no	no	no	no	no			
Impact resistance	20000 J	20000 J	20000 J	20000 J	20000 J	20000 J			
Break-in proof	250000 J	250000 J	250000 J	250000 J	250000 J	667000 J			
Manual cycle	reversible in the absence of voltage	reversible in the absence of voltage	Release key	Release key	reversible in the absence of voltage	reversible in the absence of voltage			
Frequency of use	3000 Op/gg	3000 Op/gg	3000 Op/gg	3000 Op/gg	3000 Op/gg	3000 Op/gg			
Protection rating		IP67							
Environmental conditions			-40 ÷	60 °C					

	PILLAR B 275/800.6C LI	PILLAR B 275/800.10C LI	PILLAR B 275/800.6C L SD	PILLAR B 275/800.10C L SD	PILLAR B 275/800.6C LI SD	PILLAR B 275/800.10C LI SD		
Control unit			PERSEO CE	8E 230.P SD				
Power supply	230 V	230 V	230 V	230 V	230 V	230 V		
Opening or closing time	6.5 s	6.5 s	6.5 s	6.5 s	6.5 s	6.5 s		
Rod height	800 mm	800 mm	800 mm	800 mm	800 mm	800 mm		
Rod thickness	6 mm	10 mm	6 mm	10 mm	6 mm	10 mm		
Rod diameter	275 mm	275 mm	275 mm	275 mm	275 mm	275 mm		
Type of limit switch	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor		
Slowdown	no	no	no	no	no	no		
Impact resistance	20000 J	20000 J	20000 J	20000 J	20000 J	20000 J		
Break-in proof	250000 J	667000 J	250000 J	667000 J	250000 J	667000 J		
Manual cycle	reversible in the absence of voltage	reversible in the absence of voltage	Release key	Release key	Release key	Release key		
Frequency of use	3000 Op/gg	3000 Op/gg	3000 Op/gg	3000 Op/gg	3000 Op/gg	3000 Op/gg		
Protection rating	IP67							
Environmental conditions			-40 ÷	60 °C				





Code	Name	Description
P970092 00001	PILLAR B 275/600.6C L	Hydraulic bollard 230 V, shaft height 600 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft automatically lowers in case of a power failure. RAL 7015 painted steel version. Cap with lights
P970092 00002	PILLAR B 275/600.6C LI	Hydraulic bollard 230 V, shaft height 600 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft automatically lowers in case of a power failure. Stainless steel version. Stainless steel shaft
P970092 00003	PILLAR B 275/600.6C L SD	Hydraulic bollard 230 V, shaft height 600 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft stays raised in case of a power failure. RAL 7015 painted steel version. Cap with Lights & Security Device
P970092 00004	PILLAR B 275/600.6C LI SD	Hydraulic bollard 230 V, shaft height 600 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm ap- proved. The shaft stays raised in case of a power failure. Stainless steel version. Stainless steel and Security Device
P970093 00001	PILLAR B 275/800.6C L	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft automatically lowers in case of a power failure. RAL 7015 painted steel version. Cap with lights
P970106 00001	PILLAR B 275/800.10C L	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft automatically lowers in case of a power failure. RAL 7015 painted steel version. Cap with lights
P970093 00002	PILLAR B 275/800.6C LI	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft automatically lowers in case of a power failure. Stainless steel version. Stainless steel shaft
P970106 00002	PILLAR B 275/800.10C LI	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft automatically lowers in case of a power failure. Stainless steel version. Stainless steel shaft
P970093 00003	PILLAR B 275/800.6C L SD	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft stays raised in case of a power failure. RAL 7015 painted steel version. Cap with Lights & Security Device
P970106 00003	PILLAR B 275/800.10C L SD	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft stays raised in case of a power failure. RAL 7015 painted steel version. Cap with Lights & Security Device
P970093 00004	PILLAR B 275/800.6C LI SD	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft stays raised in case of a power failure. Stainless steel version. Stainless steel and Security Device
P970106 00004	PILLAR B 275/800.10C LI SD	Hydraulic bollard 230 V, shaft height 800 mm and diameter 275 mm. LED light cap and H adhesive strip: 100 mm approved. The shaft stays raised in case of a power failure. Stainless steel version. Stainless steel and Security Device

PERSEO CBE 230.P SD: Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)



D113812 00002 - PERSEO CBE 230.P SD - Recommended



- Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)
- Application: Control panel for operating 1 to 4 automatic bollards, single-phase (in parallel) (or max. 2 XPASS B 330/1200)
 Board power supply: 230V single phase
- Output power: 230Vac single-phase, 12A max.
 - Main features: removable terminal blocks, digital programming, 3-digit display, Proxima programmer connector, dual-channel receiver 2048 codes included, heater for operation to -40°C, complete support for anti-terrorism bollards, 11 inputs, 9 outputs.
- Main features: U-Link interconnectivity, automatic reclosing, separate open and close, pre-flashing, deadman control, automatic or semi-automatic, opening and closing limit switch management, arranged for UPS.

RECOMMENDED ACCESSORIES

8	P800116 - TOTEM UNIT		P800117 - TLIGHTS
	Base module for TOTEM, can be used for both lower and upper units.	THE PERSON NAMED IN	Traffic lights and top covering for totem
	P800102 - PILLAR ALARM		P800040 - TPF
~O*	Magnetic anti-theft kit for PILLAR B hydraulic bollards. To be requested when ordering		Foundation and anchor plate for totem
	P800108 - TCAP		D113705 - ACOUSTIC DETECTOR
	Top covering without lights for elements of Totem.		Adjustable acoustic detector for sirens
	P111001 00003 - RME 2		D110926 00001 - SPIRA 2X1
	230 V dual channel metal object detector with installation base	0	Magnetic loop 2 x 1 m
	P800114 - BOLLARD CABLE EXT25		P800115 - BOLLARD CABLE EXT50
	Extra charge for 25 m cable for bollards (to be added to the 10 included into bollards)		Extra charge for 50 m cable for bollards (to be added to the 10 included into bollards)







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices226 safety devices - photocells and accessories P. 226 signalling devices P. 226 safety devices P. 227 safety devices P. 228 rubber profiles P. 228 solenoid locks safety devices - sensitive edges rubber profiles

233 233 234 release systems

232



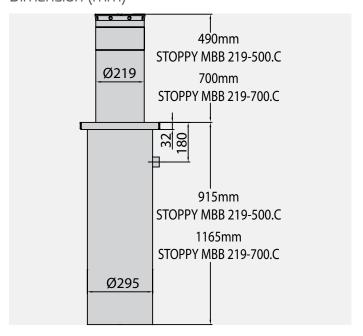






Complete range of automatic electromechanical retractable bollards for the protection and safety of all areas that require controlled access. Rod height 500 and 700mm. Ideal for contexts of particular architectural interest, guaranteeing maximum reliability over time and requiring minimal maintenance.

Dimension (mm)



Technical features

	CTODDY MDD I/IT	CTODDY MDD I/IT	CTODDY MADD WIT	CTODDY MDD I/IT	CTODDY MDD I/IT	CTORRY MARRIAGE	
	STOPPY MBB KIT	STOPPY MBB KIT	STOPPY MBB KIT	STOPPY MBB KIT 219/700.C 230 C	STOPPY MBB KIT	STOPPY MBB KIT	
Control onth	219/500.C 230 C	215/500.C 250 L C	219/500.C 230 LI C		219/700.C 230 L C	219/700.C 230 LI C	
Control unit			PERSEO CB	E 23U.P SD			
Power supply	230 V						
Power input	300 W						
Opening or closing time	9 s	9 s	9 s	9 s	9 s	9 s	
Rod height	500 mm	500 mm	500 mm	700 mm	700 mm	700 mm	
Rod diameter	220 mm						
Type of limit switch	REED magnetic sensor						
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes	
Impact resistance	10500 J						
Break-in proof	150000 J						
Manual cycle	reversible in the absence of voltage	reversible in the absence of voltage	reversible in the absence of voltage	reversible in the absence of voltage	reversible in the absence of voltage	reversible in the absence of voltage	
Frequency of use	very intensive						
Protection rating	, IP67						
Environmental conditions			-15 ÷	60 °C			





Code	Name	Description
R950008 00002	STOPPY MBB KIT 219/500.C 230 C	Electromechanical bollard complete with form, with shaft height 500 mm and diameter 220 mm. Impact resistance 10500 J.
R950008 00003	STOPPY MBB KIT 219/500.C 230 L C	Electromechanical bollard complete with form, with shaft height 500 mm and diameter 220 mm. Impact resistance 10500 J. Cap with incorporated lights and buzzer.
R950008 00004	STOPPY MBB KIT 219/500.C 230 LI C	Electromechanical bollard complete with form, with shaft height 500 mm and diameter 220 mm. Impact resistance 10500 J. Cap with incorporated lights and buzzer. Stainless steel version
R950009 00002	STOPPY MBB KIT 219/700.C 230 C	Electromechanical bollard complete with form, with shaft height 700 mm and diameter 220 mm. Impact resistance 10500 J.
R950009 00003	STOPPY MBB KIT 219/700.C 230 L C	Electromechanical bollard complete with form, with shaft height 700 mm and diameter 220 mm. Impact resistance 10500 J. Cap with incorporated lights and buzzer.
R950009 00004	STOPPY MBB KIT 219/700.C 230 LI C	Electromechanical bollard complete with form, with shaft height 700 mm and diameter 220 mm. Impact resistance 10500 J. Cap with incorporated lights and buzzer. Stainless steel version

PERSEO CBE 230.P SD: Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)



D113812 00002 - PERSEO CBE 230.P SD - Recommended

- Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200) Application: Control panel for operating 1 to 4 automatic bollards, single-phase (in parallel) (or max. 2 XPASS B 330/1200)
- Board power supply: 230V single phase
- Output power: 230Vac single-phase, 12A max.

 Main features: removable terminal blocks, digital programming, 3-digit display, Proxima programmer connector, dual-channel receiver 2048 codes included, heater for operation to -40°C, complete support for anti-terrorism bollards, 11 inputs, 9 outputs.
- Main features: U-Link interconnectivity, automatic reclosing, separate open and close, pre-flashing, deadman control, automatic or semi-automatic, opening and closing limit switch management, arranged for UPS.

RECOMMENDED ACCESSORIES

	P800116 - TOTEM UNIT		P800117 - TLIGHTS
	Base module for TOTEM, can be used for both lower and upper units.	THE PERSON NAMED IN	Traffic lights and top covering for totem
~O*	P800075 - STOPPY ALARM		P800114 - BOLLARD CABLE EXT25
	Anti-theft kit: to be ordered separately, assembled during production		Extra charge for 25 m cable for bollards (to be added to the 10 included into bollards)
	P800115 - BOLLARD CABLE EXT50	100	P975005 - BATT-EB
	Extra charge for 50 m cable for bollards (to be added to the 10 included into bollards)	130	Backup battery kit to allow bollards to stay up in case of no power
	P800040 - TPF		P800108 - TCAP
	Foundation and anchor plate for totem		Top covering without lights for elements of Totem.
	D113705 - ACOUSTIC DETECTOR		P111001 00003 - RME 2
	Adjustable acoustic detector for sirens		230 V dual channel metal object detector with installation base
0	D110926 00001 - SPIRA 2X1		
	Magnetic loop 2 x 1 m		







accessories for control units set of batteries for control units expansion boards software receivers transmitters

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226 signalling devices226 safety devices - photocells and accessories 226 227 228 safety devices - sensitive edges rubber profiles

228 solenoid locks

release systems



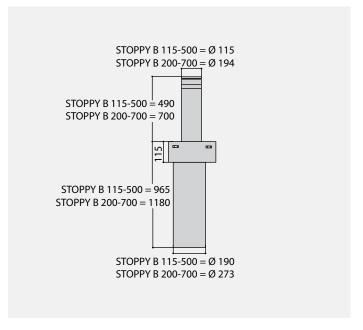






Complete range of automatic electromechanical retractable bollards for the protection and safety of all areas that require controlled access. Shaft height 500 and 700mm. Ideal for collective use.

Dimension (mm)



Technical features

	STOPPY B 115/500	STOPPY B 200/700	
Control unit	PERSE	EO CBE	
Power supply	230 V	230 V	
Power consumption	300 W	300 W	
Opening or closing time	7 s	9 s	
Rod height	500 mm	700 mm	
Rod diameter	115 mm	200 mm	
Type of limit switch	REED magnetic sensor	REED magnetic sensor	
Slowdown	Yes	Yes	
Impact resistance	6000 J	6000 J	
Break-in proof	60000 J	60000 J	
Manual cycle	reversible in the absence of voltage	reversible in the absence of voltage	
Frequency of use	Semi intensive	Semi intensive	
Protection rating	IP67		
Environmental conditions	-20 ÷ 60 °C		





Code	Name	Description
P970088 00001	STOPPY B 115/500	Electromechanical bollard 230 V with shaft diameter 115 mm and height 500 mm. Impact resistance 6000 J. Slowdown in opening and closing
P970089 00001	STOPPY B 200/700	Electromechanical bollard with shaft diameter 200 mm and height 700 mm. Impact resistance 6000 J. Version with LED light cap. Foundation box included

PERSEO CBE 230.P SD: Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)



D113812 00002 - PERSEO CBE 230.P SD - Recommended



- Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)
- Application: Control panel for operating 1 to 4 automatic bollards, single-phase (in parallel) (or max. 2 XPASS B 330/1200)
 Board power supply: 230V single phase
- Output power: 230Vac single-phase, 12A max.
- Main features: removable terminal blocks, digital programming, 3-digit display, Proxima programmer connector, dual-channel receiver 2048 codes included, heater for operation to -40°C, complete support for anti-terrorism bollards, 11 inputs, 9 outputs.

 Main features: U-Link interconnectivity, automatic reclosing, separate open and close, pre-flashing, deadman control, automatic or
- semi-automatic, opening and closing limit switch management, arranged for UPS.

RECOMMENDED ACCESSORIES

	P800116 - TOTEM UNIT		P800117 - TLIGHTS
	Base module for TOTEM, can be used for both lower and upper units.	-	Traffic lights and top covering for totem
	P975005 - BATT-EB		P800040 - TPF
	Backup battery kit to allow bollards to stay up in case of no power		Foundation and anchor plate for totem
	P800108 - TCAP		P800115 - BOLLARD CABLE EXT50
	Top covering without lights for elements of Totem.		Extra charge for 50 m cable for bollards (to be added to the 10 included into bollards)
	P800114 - BOLLARD CABLE EXT25	2	D113705 - ACOUSTIC DETECTOR
	Extra charge for 25 m cable for bollards (to be added to the 10 included into bollards)		Adjustable acoustic detector for sirens
	P111001 00003 - RME 2		D110926 00001 - SPIRA 2X1
	230 V dual channel metal object detector with installation base	0	Magnetic loop 2 x 1 m





control devices



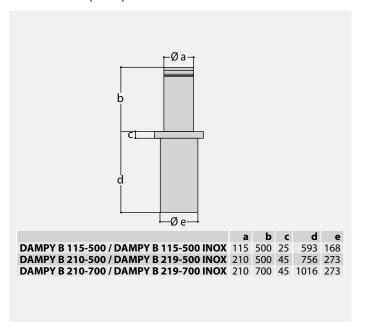






Complete range of semi-automatic bollards operated by gas spring. They allow road access control at convenient prices and extremely easy operation. Also available with s/steel shaft and luminous cap.

Dimension (mm)



Technical features

	DAMPY B 115/500	DAMPY B 115/500 I	DAMPY B 219/500	DAMPY B 219/500 I	DAMPY B 219/500 L	DAMPY B 219/500 LI
Rod height	500 mm					
Rod thickness	4 mm	4 mm	6 mm	6 mm	6 mm	6 mm
Rod diameter	115 mm	115 mm	220 mm	220 mm	220 mm	220 mm
Rod movement	Internal gas spring	Internal gas spring	Internal gas spring	Internal gas spring	Internal gas spring	Internal gas spring
Impact resistance	5000 J	5000 J	10000 J	10000 J	10000 J	10000 J
Break-in proof	30000 J	30000 J	60000 J	60000 J	60000 J	60000 J
Rod locking	With triangle key	With triangle key	With triangle key	With triangle key	With triangle key	With triangle key

	DAMPY B 219/700	DAMPY B 219/700 I	DAMPY B 219/700 L	DAMPY B 219/700 LI
Rod height	700 mm	700 mm	700 mm	700 mm
Rod thickness	6 mm	6 mm	6 mm	6 mm
Rod diameter	220 mm	220 mm	220 mm	220 mm
Rod movement	Internal gas spring	Internal gas spring	Internal gas spring	Internal gas spring
Impact resistance	10000 J	10000 J	10000 J	10000 J
Break-in proof	60000 J	60000 J	60000 J	60000 J
Rod locking	With triangle key	With triangle key	With triangle key	With triangle key





Code	Name	Description
P970083 00001	DAMPY B 115/500	Semi-automatic bollard with gas spring, with shaft diameter 115 mm and height 500 mm. Impact resistance 5000 J. Foundation box included. Cataphoresis
P970083 00002	DAMPY B 115/500 I	Semi-automatic bollard with gas spring with shaft diameter 115 mm and height 500 mm. Impact resistance 5000 J. Stainless steel version. Foundation box included. Stainless steel
P970084 00001	DAMPY B 219/500	Semi-automatic bollard with gas spring, with shaft diameter 220 mm and height 500 mm. Impact resistance 10000 J. Foundation box included. Cataphoresis
P970084 00002	DAMPY B 219/500 I	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 500 mm. Impact resistance 10000 J. Stainless steel version. Foundation box included. Stainless steel
P970085 00001	DAMPY B 219/500 L	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 500 mm. Impact resistance 10000 J. RAL 7015 painted steel version with LED light cap. Foundation box included. Lights
P970085 00002	DAMPY B 219/500 LI	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 500 mm. Impact resistance 10000 J. Stainless steel version with LED light cap. Foundation box included. Lights and s/steel
P970086 00001	DAMPY B 219/700	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 700 mm. Impact resistance 10000 J. RAL 7015 painted steel version Cataphoresis
P970086 00002	DAMPY B 219/700 I	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 700 mm. Impact resistance 10000 J. Stainless steel version. Foundation box included. Stainless steel
P970087 00001	DAMPY B 219/700 L	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 700 mm. Impact resistance 10000 J. RAL 7015 painted steel version with LED light cap. Foundation box included. Lights
P970087 00002	DAMPY B 219/700 LI	Semi-automatic bollard with gas spring with shaft diameter 220 mm and height 700 mm. Impact resistance 10000 J. Stainless steel version with LED light cap. Foundation box included. Lights and s/steel

RECOMMENDED ACCESSORIES



P800104 - **ALLU**

Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards) $\,$





P. 226 signalling devices
P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
P. 228 solenoid locks
P. 229 release systems
P. 230

P. 231 P. 232 P. 233 P. 233 P. 234 P. 235

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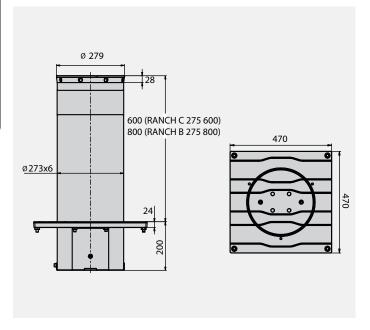






Fixed bollards used for preventing access for long periods. Bolted to the ground, their purpose is to block an access point or a road. They can integrate the use of automatic or semi-automatic bollards.

Dimension (mm)



Technical features

	RANCH C 275/600CN L	RANCH C 275/600CN LI	RANCH C 275/800CN L	RANCH C 275/800CN LI
Operator type	Fixed bollards	Fixed bollards	Fixed bollards	Fixed bollards
Rod height	600 mm	600 mm	800 mm	800 mm
Rod thickness	3 mm	3 mm	3 mm	3 mm
Rod diameter	275 mm	275 mm	275 mm	275 mm
Rod treatment	RAL 7015 painted steel	brushed AISI 316 stainless steel and reflective film	RAL 7015 painted steel	brushed AISI 316 stainless steel and reflective film
Rod fixing	3 bolts	3 bolts	3 bolts	3 bolts





CI-	Manage	Paradiation (
Code	Name	Description
P970102 00002	RANCH C 275/600CN L	Fixed bollard used for preventing access for long periods. Height 600 mm and diameter 275 mm. Version with lights and shaft in RAL 7015 painted steel. Flange not included Painted steel High breakage resistance
P970102 00004	RANCH C 275/600CN LI	Fixed bollard used for preventing access for long periods. Height 600 mm and diameter 275 mm. Version with lights and shaft in stainless steel.Flange not included Stainless steel High breakage resistance
P970103 00002	RANCH C 275/800CN L	Fixed bollard used for preventing access for long periods. Height 800 mm and diameter 275 mm. Version with lights and shaft in RAL 7015 painted steel. Flange not included Painted steel High breakage resistance
P970103 00004	RANCH C 275/800CN LI	Fixed bollard used for preventing access for long periods. Height 800 mm and diameter 275 mm. Version with lights and shaft in stainless steel.Flange not included Stainless steel High breakage resistance

RECOMMENDED ACCESSORIES



P800104 - **ALLU**

Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards)

P800109 - FLANGE RANCH C



Flange for Ranch C







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

P. 226 signalling devices
P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
P. 228 solenoid locks
P. 229 release systems
P. 230

P. 231 P. 232 P. 233 P. 233 P. 234 P. 235



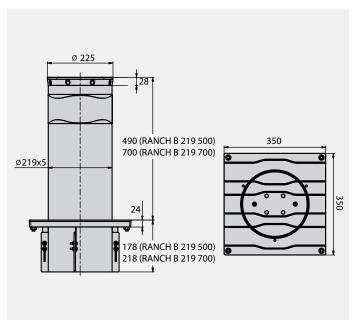






Fixed bollards used for preventing access for long periods. Bolted to the ground, their purpose is to block an access point or a road. They can integrate the use of automatic or semi-automatic bollards.

Dimension (mm)



Technical features

	RANCH B 219/500	RANCH B 219/500 I	RANCH B 219/500 L	RANCH B 219/500 LI	RANCH B 219/700	RANCH B 219/700 I
Operator type	Fixed bollards	Fixed bollards	Fixed bollards	Fixed bollards	Fixed bollards	Fixed bollards
Rod height	500 mm	500 mm	500 mm	500 mm	700 mm	700 mm
Rod thickness	3 mm	3 mm	3 mm	3 mm	3 mm	3 mm
Rod diameter	220 mm	220 mm	220 mm	220 mm	220 mm	220 mm
Rod treatment	Cataphoresis	Stainless steel	Cataphoresis	Stainless steel	Cataphoresis	Stainless steel
Rod fixing	3 bolts J	3 bolts J	3 bolts J	3 bolts J	3 bolts J	3 bolts J

	RANCH B 219/700 L	RANCH B 219/700 LI		
Operator type	Fixed bollards	Fixed bollards		
Rod height	700 mm	700 mm		
Rod thickness	3 mm	3 mm		
Rod diameter	220 mm	220 mm		
Rod treatment	Cataphoresis	Stainless steel		
Rod fixing	3 bolts J	3 bolts J		





Code	Name	Description
P970081 00001	RANCH B 219/500	Fixed bollard with shaft diameter 220 mm and height 500 mm. RAL 7015 painted steel version Cataphoresis
P970081 00003	RANCH B 219/500 I	Fixed bollard with shaft diameter 220 mm and height 500 mm. Stainless steel version Stainless steel
P970081 00002	RANCH B 219/500 L	Fixed bollard with shaft diameter 220 mm and height 500 mm. RAL 7015 painted steel version with LED light cap Lights
P970081 00004	RANCH B 219/500 LI	Fixed bollard with shaft diameter 220 mm and height 500 mm. Stainless steel version with LED light cap Lights and s/steel
P970082 00001	RANCH B 219/700	Fixed bollard with shaft diameter 220 mm and height 700 mm. RAL 7015 painted steel version Cataphoresis
P970082 00003	RANCH B 219/700 I	Fixed bollard with shaft diameter 220 mm and height 700 mm. Stainless steel version Stainless steel
P970082 00002	RANCH B 219/700 L	Fixed bollard with shaft diameter 220 mm and height 700 mm. RAL 7015 painted steel version with LED light cap Lights
P970082 00004	RANCH B 219/700 LI	Fixed bollard with shaft diameter 220 mm and height 700 mm. Stainless steel version with LED light cap Lights and s/steel

RECOMMENDED ACCESSORIES



P800104 - **ALLU**

Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards) $\,$



R. 226 signalling devices
 R. 226 safety devices - photocells and accessories
 R. 227 safety devices - sensitive edges
 R. 228 rubber profiles
 R. 228 solenoid locks
 R. 229 release systems
 R. 230

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Tilting manual bollard for parking space saver application.

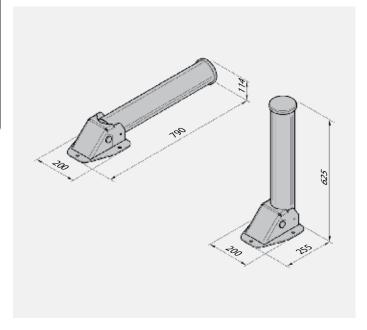








Dimension (mm)



Technical features

	RANCH R Ø115-625 DISS. RIBALT.
Operator type	manual bollards
Rod height	625 mm
Rod diameter	115 mm





DISS. RIBALT.

Code Description Name RANCH R Ø115-625 P970101

Manual fold down bollard with shaft diameter 115 mm and height 625 mm.







Anti-Terrorism bollards

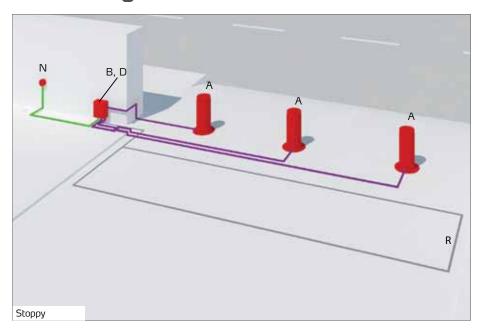
Guide to choosing

Rod height	Rod dia- meter	Break-in proof	Kit	Operator	Plus		
hydraulic bollards							
			-	XPASS B 275/800C L	Cap with lights		
800 mm	275 mm	800000 J	-	XPASS B 275/800C LI	Stainless steel shaft		
000 11111	2/5111111	900000 1	-	XPASS B 275/800C L SD	Cap with Lights & Security Device		
			-	XPASS B 275/800C LI SD	Stainless steel and Security Device		
		nm 2100000 J	-	XPASS B 330/1200 BODY L	Cap with lights Maximum breakage resistance Anti-terrorism certification Height 1200mm		
4200	330 mm		-	XPASS B 330/1200 BODY LI	Cap with lights Maximum breakage resistance Anti-terrorism certification Height 1200mm Stainless steel		
1200 mm			-	XPASS B 330/1200 HYDR. UNIT	Independent hydraulic unit		
			-	XPASS B 330/1200 HYDR. UNIT + EFO	Independent hydraulic unit with EFO device		
				Fixed bollards			
			-	RANCH D 275/800CN L	Cap with lights, shaft painted RAL7015 High breakage resistance		
800 mm	275 mm	730000 J	-	RANCH D 275/800CN	High breakage resistance		
			-	RANCH D 275/800C LI	Cap with lights High breakage resistance		
			-	RANCH E 330/1200C	High breakage resistance		
1200 mm	330 mm	2100000 J	-	RANCH E 330/1200C I	High breakage resistance		
			-	RANCH E 330/1200C LI	Cap with lights High breakage resistance		





Installation guide



Operator
Control unit
Receiver
Junction box
Magnetic loop detector
2x1.5
3x1.5
RG 58
2x1
13x1











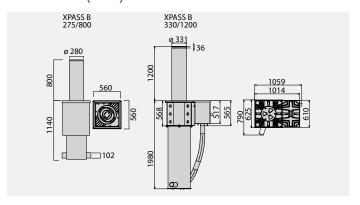


Anti-terrorist bollards tested and certified (crash-tested) by an independent body according to standards IWA14-1:2013 and PAS 68 (equivalent to US standards K12 and K4), with independent hydraulic control unit. Suitable for protection of sensitive sites.

Independent side hydraulic pump for each bollard: in case of a control

Independent side hydraulic pump for each bollard: in case of a control unit failure the other bollards remain functional, whereas maintenance operations are facilitated.

Dimension (mm)



Technical features

	XPASS B 275/800C L	XPASS B 275/800C LI	XPASS B 275/800C L SD	XPASS B 275/800C LI SD	XPASS B 330/1200 L	XPASS B 330/1200 LI
Control unit			PERSE	O CBE		
Power supply	230 V	230 V	230 V	230 V	230 V	230 V
Rod height	800 mm	800 mm	800 mm	800 mm	1200 mm	1200 mm
Rod thickness	10 mm	10 mm	10 mm	10 mm	25 mm	25 mm
Rod diameter	275 mm	275 mm	275 mm	275 mm	330 mm	330 mm
Type of limit switch	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor
Rod treatment	RAL 7015 painted steel and reflective film H: 100 mm	AlSi304 or AlSi316	RAL 7015 painted steel and reflective film H: 100 mm	AISI304 or AISI316 stainless steel	RAL 7015 painted steel and reflective film H: 100 mm	AISI304 or AISI316
Raise time	7 max s	7 max s	7 max s	7 max s	5 max. (1.5 with HYDR. UNIT + EFO) s	5 max. (1.5 with HYDR. UNIT + EFO) s
Lower time	4 s	4 s	4 s	4 s	4 s	4 s
Impact resistance						
Break-in proof	800000 J	800000 J	800000 J	800000 J	2100000 J	2100000 J
Antiterrorism: reference standard	PAS 68:2010 7500/50/N2	PAS 68:2010 7500/50/N2	PAS 68:2010 7500/50/N2	PAS 68:2010 7500/50/N2	IWA14-1:2013 V/720 bollard in	O(N3C)/80/90 single stallation
Manual cycle	reversible in the absence of voltage	reversible in the absence of voltage	reversible by means of mechanical key with no power	reversible by means of mechanical key with no power	reversible by means of mechanical key with no power	
Frequency of use	2000 Op/gg	2000 Op/gg	2000 Op/gg	2000 Op/gg	2000 Op/gg	2000 Op/gg
Protection rating Environmental conditions	1 55	, 00	IP(-40 ÷	57	, 55	, 00





Code	Name	Description
P970094 00001	XPASS B 275/800C L	Anti-terrorism hydraulic bollard K4 230 V. Shaft height 800 mm, diameter 275 mm and LED light cap. The shaft lowers automatically in case of a power failure. Version in RAL 7015 painted steel. Cap with lights
P970094 00002	XPASS B 275/800C LI	Anti-terrorism hydraulic bollard K4 230 V. Shaft height 800 mm, diameter 275 mm and LED light cap. The shaft lowers automatically in case of a power failure. Stainless steel version. Stainless steel shaft
P970094 00003	XPASS B 275/800C L SD	Anti-terrorism hydraulic bollard K4 230 V. Shaft height 800 mm, diameter 275 mm and LED light cap. The shaft keeps the access point closed in case of a power failure. Version in RAL 7015 painted steel. Cap with Lights & Security Device
P970094 00004	XPASS B 275/800C LI SD	Anti-terrorism hydraulic bollard K4 230 V. Shaft height 800 mm, diameter 275 mm and LED light cap. The shaft keeps the access point closed in case of a power failure. Stainless steel version. Stainless steel and Security Device
P970105 00001	XPASS B 330/1200 BODY L	Anti-terrorism hydraulic bollard K12. Shaft height 1200 mm, diameter 330 mm and cap with LED lights. In case of a power outage the shaft does not lower spontaneously. RAL 7015 painted steel version. Hydraulic power unit not included, foundation box included Cap with lights Maximum breakage resistance Anti-terrorism certification Height 1200mm
P970105 00002	XPASS B 330/1200 BODY LI	Anti-terrorism hydraulic bollard K12. Shaft height 1200 mm, diameter 330 mm and cap with LED lights. In case of a power outage the shaft does not lower spontaneously. AISI 304 s/steel version. Hydraulic power unit not included, foundation box included Cap with lights Maximum breakage resistance Anti-terrorism certification Height 1200mm Stainless steel
D113828	XPASS B 330/1200 HYDR. UNIT	Hydraulic unit for XPASS B 330/1200 BODY L / LI without EFO device for rapid emergency raising Independent hydraulic unit
D113829	XPASS B 330/1200 HYDR. UNIT + EFO	Hydraulic unit for XPASS B 330/1200 BODY L / LI with EFO device for rapid emergency raising Independent hydraulic unit with EFO device

PERSEO CBE 230.P SD: Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)



D113812 00002 - PERSEO CBE 230.P SD - Recommended



- Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)
- Application: Control panel for operating 1 to 4 automatic bollards, single-phase (in parallel) (or max. 2 XPASS B 330/1200) Board power supply: 230V single phase
- Output power: 230Vac single-phase, 12A max.
- Main features: removable terminal blocks, digital programming, 3-digit display, Proxima programmer connector, dual-channel receiver 2048 codes included, heater for operation to -40°C, complete support for anti-terrorism bollards, 11 inputs, 9 outputs.
- Main features: U-Link interconnectivity, automatic reclosing, separate open and close, pre-flashing, deadman control, automatic or semi-automatic, opening and closing limit switch management, arranged for UPS.

RECOMMENDED ACCESSORIES

	P800116 - TOTEM UNIT		P800117 - TLIGHTS
	Base module for TOTEM, can be used for both lower and upper units.	TAXABLE PARTY.	Traffic lights and top covering for totem
	P111001 00003 - RME 2		D110926 00001 - SPIRA 2X1
	230 V dual channel metal object detector with installation base	0	Magnetic loop 2 x 1 m
	P800108 - TCAP		P800040 - TPF
	Top covering without lights for elements of Totem.		Foundation and anchor plate for totem
	P800103 - XPASS 800 ALARM	2	D113705 - ACOUSTIC DETECTOR
~O*	Anti-vandalism alarm for XPASS 275/800		Adjustable acoustic detector for sirens
	P800114 - BOLLARD CABLE EXT25		P800115 - BOLLARD CABLE EXT50
	Extra charge for 25 m cable for bollards (to be added to the 10 included into bollards)		Extra charge for 50 m cable for bollards (to be added to the 10 included into bollards)







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices
226 safety devices - photocells and accessories
227 safety devices - sensitive edges
228 rubber profiles P. 226 P. 227 safety dev. P. 228 rubber profiles P. 228 solenoid locks P. 229 release system

release systems



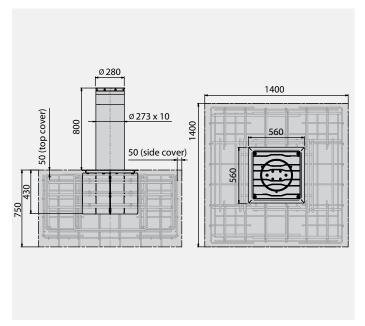






Permanent anti-terrorism bollard tested according to international standards PAS 68:2010 7500/50/N2 crash simulated. Suitable for protection of sensitive sites.

Dimension (mm)



Technical features

	RANCH D 275/800CN L	RANCH D 275/800C LI	RANCH D 275/800CN
Operator type	Fixed bollards	Fixed bollards	Fixed bollards
Rod height	800 mm	800 mm	800 mm
Rod thickness	10 mm	10 mm	10 mm
Rod diameter	275 mm	275 mm	275 mm
Rod treatment	RAL 7015 painted steel and reflective film H: 100 mm	Stainless steel	RAL 7015 painted steel and reflective film H: 100 mm
Impact resistance			
Break-in proof	730000 J	730000 J	730000 J





Code	Name	Description
P970104 00002	RANCH D 275/800CN L	Fixed anti-terrorism bollard, shaft height 800 mm and diameter 275 mm. Version with lighting cap and RAL 7015 painted shaft. Flange not included Cap with lights, shaft painted RAL7015 High breakage resistance
P970096 00002	RANCH D 275/800C LI	Fixed anti-terrorism bollard, shaft height 800 mm and diameter 275 mm. Version with lighting cap and stainless steel shaft. Flange not included Cap with lights High breakage resistance
null	RANCH D 275/800CN	Fixed anti-terrorism bollard, shaft height 800 mm and diameter 275 mm. Version with RAL7015 painted shaft. Flange not included High breakage resistance

RECOMMENDED ACCESSORIES



P800104 - **ALLU**

Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards)



P800110 - FLANGE RANCH D

Flange for Ranch E





P. 226 signalling devices
P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
P. 228 rubber profiles
P. 228 solenoid locks
P. 229 release systems
P. 230 P. 231 P. 232 P. 233 P. 233 P. 234 P. 235



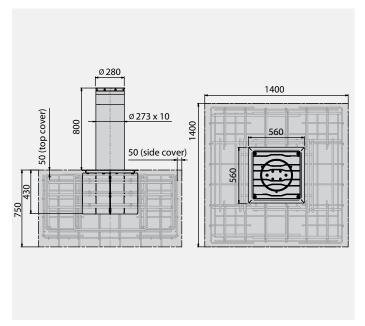






Permanent bollard equivalent to XPASS 330/1200. Suitable for protection of sensitive sites in addition to automatic bollards on large surfaces.

Dimension (mm)



Technical features

	RANCH E 330/1200C LI	RANCH E 330/1200C I	RANCH E 330/1200C
Operator type	Fixed bollards	Fixed bollards	Fixed bollards
Rod height	1200 mm	1200 mm	1200 mm
Rod thickness	14 mm	14 mm	14 mm
Rod diameter	330 mm	330 mm	330 mm
Rod treatment	Stainless steel	Stainless steel	RAL 7015 painted steel and reflective film H: 100 mm
Impact resistance			
Break-in proof	2100000 J	2100000 J	2100000 J





Code	Name		Description
P970269 00003	RANCH E 330/1200C LI	new	Fixed anti-terrorism bollard, with shaft height 1200 mm and diameter 330 mm. Version with cap with lights and stainless steel tube. Flange not included Cap with lights High breakage resistance
P970269 00002	RANCH E 330/1200C I	new	Fixed anti-terrorism bollard, with shaft height 1200 mm and diameter 330 mm. Version with cap without lights and stainless steel AISI 304 tube. Flange not included High breakage resistance
P970269 00001	RANCH E 330/1200C	new	Fixed anti-terrorism bollard, with shaft height 1200 mm and diameter 330 mm. Version with cap without lights and RAL 7015 painted steel shaft. Flange not included High breakage resistance

RECOMMENDED ACCESSORIES



P800119 - FLANGE RANCH E

Flange for Ranch E



new P975069 - ALLU K12

Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards)



P. 231 P. 232 P. 233 P. 233 P. 234 P. 235





Home remote control systems



Bft is constantly developing new technological solutions able to offer integrated systems, ensuring high flexibility as well as easy installation and maintenance. In full respect of Bft's "Ease of doing business" promise, the solutions offered feature a high level of opening and integration during installation and also later, thanks to the many possibilities of integration with building management systems (BMS).

The innovative interconnectivity systems and wireless connectivity solutions in the field of access automation are proposed and supported by Bft through the new U-link system communication protocol.

To facilitate installers in creating systems and in maintenance, Bft offers solutions based on Bluetooth transmission systems. This technology is an absolutely stable standard and ensures the correct capacity as well as optimum data protection, thanks to two coding levels offered by the Bluetooth transmission system and the Bft password and cryptography system.

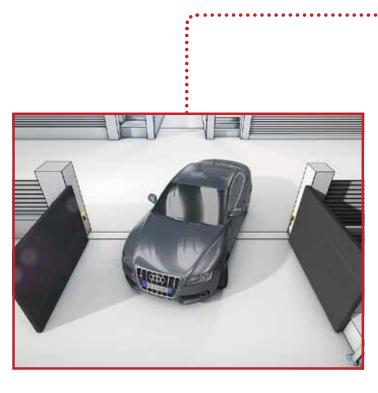
In the spirit of "tuned to you", Bft can also offer cutting-edge interconnectivity solutions to make the control of gates and accesses easy and immediate for the end-user.

Dedicated solutions and applications downloadable directly to smartphones and tablets allow you to manage the various entry gates in a flexible and dynamic way with just a touch on your device, or even be recognised by the gate itself and open the access by simply holding your smartphone in your pocket.

Installation guide



Α	Operator
В	Control unit
	2x0.5
В3	PROXIMA BLUE or PC
B2	B EBA 201 RO4
B1	B EBA 201 R01





PLUS



You can open, close or stop a U-link device remotely or locally with just a touch You can instantly check gate status (open / closed / moving) using the dedicated button.



On the IOS version, GPS technology can be used to open and close the gate automatically when the owner approaches



You can enter the name and references of your installer in the U-control app. In case of a system failure, the installer can be contacted directly from the U-control app, emailing also the last error detected by the central unit



Other users (up to 5) can be invited to use the same gate. Invited users will be able to control the gate with the rules set by the administrator. The system sends the administrator a notification for each operation performed by the invited users; this feature can be deleted from your smartphone settings

RECOMMENDED ACCESSORIES





P111494 - B EBA WI-FI GATEWAY



Expansion card permitting connection of a U-link device to a home Wi-Fi network. Connected operators may be remotely managed with the U-control app available for Ándroid and 105 smartphones.







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices226 safety devices - photocells and accessories 227 228 safety devices - sensitive edges rubber profiles

P. 231 P. 232 P. 233 P. 233 P. 234 P. 235 228 solenoid locks release systems

Home remote control systems







Bft interconnectivity does not only show what the technology can do, but what it can do that is useful: Magistro is an innovative system for the control and management of automatic gates, roller shutters or lights in your home or office. It allows local or remote control via PC or App through a simple and intuitive interface. Easy to install, simple to use, it is based on Z-Wave wireless technology. A Total Control solution perfectly Tuned to you. A system designed for those who install it, and for all those who use it. That's why Bft has created an open system, and therefore easy to integrate. Scalable, and therefore gradually completable with a small expense. Quick to install, and therefore cost effective.

PLUS



It allows local or remote control via PC or App through a simple and intuitive interface.



 $\label{thm:maximum} \mbox{Maximum integration with compatible Bft U-Link automation systems.}$

Compatible with more than 1500 consumer products already on the market and arranged for Z-Wave protocol.

Code	Name		Description	
R400000	MAGISTRO BRAIN KIT	(4)	Magistro Brain control system, containing one Beba Z-Wave Gateway	U-Link
R400002	MAGISTRO ROLL KIT	(4)	Pair of Z-Wave wireless modules for controlling shutters	U-Link
R400001	MAGISTRO LIGHT KIT	(4)	Pair of Z-Wave wireless modules for controlling lights	U-Link
R400003	MAGISTRO UNI KIT	(4)	Pair of Z-Wave wireless modules for controlling non-U-Link automation devices	U-Link
R400004	MAGISTRO BAT- T&KEY KIT	(4)	Magistro Batt backup batteries and USB stick for connection via 3G	U-Link
P111764	MAGISTRO LIGHTS & HOUSEHOLD APPL. R	11	Z-Wave wireless module, switch control for lights/devices via already powered contact $24/110/230\ \text{Volt}$	U-Link
P111766	MODULO MAGISTRO ROLL R1		Z-Wave wireless module for shutter motor control via already powered contact 110/230 Volt	U-Link
P111767	MODULO MAGISTRO UNI R1		Z-Wave wireless module, switch control for lights/devices via voltage-free contact up to 230 V	U-Link
P111765	MODULO LIGHT DIMM	MER	Z-Wave wireless module, dimmer control to adjust the brightness of the incandescent lamps $24/110/230\ \mbox{Volt}$	U-Link
P111535	BEBA Z-WAVE DRIVE	R	Expansion card for connection with Z-Wave wireless protocol	(S)







Designed according to the installer's specific needs for easy management and maintenance of the systems, the innovative U-Base software features an immediate and intuitive user interface and can operate on-line, updating data directly on connected systems or off-line operating on the information present in the local database of the computer on which it is installed. For operation, the system requires the installation of a B EBA gateway expansion card connected to the control unit and allows interfacing even wirelessly or remotely with Bft control units (U-Link compatible). The main functions include the possibility of displaying and editing control unit parameters and logics, as well as viewing the list of recorded alarms. Through an immediate graphic interface, also all the functions and parameters of the motors are monitored, displaying the threshold current, absorbed current and the position of the operator in real-time.

PLUS



The software provides user friendly management of even very complex networks

All functions and parameters are now easy to review and edit on the PC. The GUI also allows the user to review speed and absorption curves in real time.



Thanks to the U-Base Mobile version, it is also possible to manage systems remotely using an Android smartphone or tablet

Code	Name	Description	
P111510	U-BASE 2 PC	Management and programming software for Bft control units and receivers. Version for PC, Bluetooth connection	U-Link
P111523_D	U-BASE 2 ANDROID	BFT receiver and control unit management and programming software. Version for Android mobile device, Bluetooth connection	U-Link
P111718	U-BASE CLOUD 10	Software license for management of U-Base 2 system data via cloud service. Allows the management of 10 systems.	U-Link

RECOMMENDED ACCESSORIES





P111494 - B EBA WI-FI GATEWAY

Expansion card permitting connection of a U-link device to a home Wi-Fi network. Connected operators may be remotely managed with the U-control app available for Android and 105 smartphones.



P111469 - B EBA BLUE GATEWAY

Expansion board for BLUETOOTH connection management



P111530 - B EBA RS 485 GATEWAY

GATEWAY expansion card for management of RS 485 connection



P111468 - B EBA RS 485 LINK

Expansion board for connection of central units with serial controls management





Gateway expansion card to connect automation systems in TCP/IP networks via U-Link slot. It manages up to 120 U-Link devices connected via B EBA RS-485 Link.



P111529 - **U-PROG**

Programmer for radio control units and receivers with possibility of wired or BlueTooth connection



D113807 00002 - **CLONIX 2E AC U-LINK 230**



D113808 00003 - **CLONIX UNI AC U-LINK 230V**



433 MHz external receiver with 2 outputs with NO contact. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory



433 MHz external receiver with 3 outputs: 2 with NO contact and one NO/NC configurable. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory







accessories for control units set of batteries for control units expansion boards software receivers transmitters

226 signalling devices226 safety devices - photocells and accessories safety devices - sensitive edges rubber profiles

227 228 228 solenoid locks release systems 233 233

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Home remote control systems









U-Sdk is the innovative application that can make Bft automation systems compatible and easily integrated with a BMS network for the supervision of buildings.

The system enables direct communication with all cards equipped with the new U-Link protocol, thereby ensuring communication in the building, integrated with Bft systems and other possible devices: access control, air conditioning, lighting, alarms, etc.

Up to eight configurable systems are possible, depending on the versioning, for a maximum of 960 operators integratable in the building's supervision network.

U-Sdk is also available in the "Light" version for simplified management, and in the "Full" version enabling complete integration of all the Bft card parameters.

The pack contains the CD-ROM with the application and the relevant manuals, the USB Bluetooth, the licence and quick-start.

PLUS



Outstanding integration with BMS supervision systems and Bft U-Link compatible automation.



Facilitated supervision of all automation controls (open, close, start, stop, etc.), thus providing integrated monitoring of all parameters, with a full overview of diagnostics and alarms ("Full" version)

The option of creating configurable sockets allows commands to be modulated to handle information about the system number, operations and the operator/group of operators being controlled. Available system access-point are automatically detected by Bluetooth.

Code	Name	Description	
P111514 00002	U-SDK FULL 2	U-Sdk is the innovative application that can make Bft automation systems compatible and easily integrated with a BMS network for the supervision of buildings.	U-Link
P111514 00008	U-SDK FULL 8	U-Sdk is the innovative application that can make Bft automation systems compatible and easily integrated with a BMS network for the supervision of buildings.	U-Link
P111513 00002	U-SDK LIGHT 2	U-Sdk is the innovative application that can make Bft automation systems compatible and easily integrated with a BMS network for the supervision of buildings.	U-Link
P111513 00008	U-SDK LIGHT 8	U-Sdk is the innovative application that can make Bft automation systems compatible and easily integrated with a BMS network for the supervision of buildings.	U-Link









An innovative application for access automation management with just a tap on your mobile phone or smartphone (Android and iOS operating system). Operation is in manual mode requiring confirmation by the user before opening, and in automatic mode allowing opening only by approaching the gate. Maximum flexibility and modularity over time: Blue Entry lets you control and nominate up to 4 different accesses, assigning the most convenient manual/automatic opening mode for each. Maximum control and protection of accesses, thanks to the high data encryption guaranteed by the Bluetooth standard and by passwords for accessing the Bluetooth expansion card installed in the Bft control unit. With the special "POWER SAVING FUNCT. (Android) and BLUETOOTH LOW ENERGY (iOS)", Blue Entry allows you to optimise and extend the battery life of the device and ensure efficient operation over time.

PLUS



Operation is easy and intuitive, thanks to automatic gate detection by the smartphone and the guided GUI.



The automatic gate opening function means trying to find your keys or remote is a thing of the past, and opening the gate is no longer a problem when you have your hands full with the shopping, for example, or while riding a motorcycle.



The system uses the Bluetooth technology, the communications standard for mobile devices, which ensures secure access and cost free operation.

RECOMMENDED ACCESSORIES



D113808 00003 - **CLONIX UNI AC U-LINK 230V**

2048-position memory





433 MHz external receiver with 2 outputs with NO contact. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory

D113807 00002 - CLONIX 2E AC U-LINK 230







accessories for control units set of batteries for control units expansion boards software receivers transmitters

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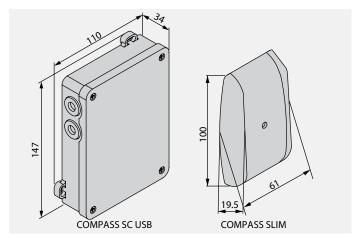
Access control systems and hands-free devices

COMPASS



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.

Dimension (mm)



Technical features

	COMPASS SC USB	COMPASS 485	COMPASS SLIM
Power supply	230 V	230 V	12 V
Max output relay current	5 A	5 A	no A
Max connectable peripherals	2 COMPASS SLIM	2 COMPASS SLIM	no
Manageable badges	up to 6000 in stand alone	up to 6000 in stand alone	no
Memorisable events	up to 65535 in stand alone	no .	no
Protection rating	IF	20	IP55
Environmental conditions	-20 ÷ 60 °C		

Code	Name	Description
D113691	COMPASS SC USB	Access control unit allowing connection with a maximum of 2 COMPASS SLIM. Number of cards managed: up to 6000 in stand alone. Number of events memorised: up to 65535 in stand alone.
D113256	COMPASS 485	Interface control unit for connection with a maximum of 2 COMPASS SLIM. Number of cards managed: up to 6000 in stand alone.
D113704	COMPASS SLIM	Reader head with IP55 protection rating.

RECOMMENDED ACCESSORIES

 D113671 00002 - RTD CA 2048		P111388 - SECURBASE LIGHT USB
Four-channel rolling code receiver with 2048 codes and built-in programming display. Usable with COMPASS		Management software for COMPASS access control system based on COMPASS SC.
P111389 - SECURBASE PLUS USB		D110912 - COMPASS - ISOCARD
Advanced management software for COMPASS access control system based on COMPASS SC.		ISO standard proximity badge
D110914 - COMPASS - RING	A STATE OF THE PARTY OF THE PAR	P121025 - Q.BO PAD
Key-ring transponder for access control		Vandalproof digital push-button panel, for outdoor use. Metal structure and s/steel buttons. Compatible with WIEGAND protocol, it ensures maximum system safety as it does not directly control the opening of the entry point.

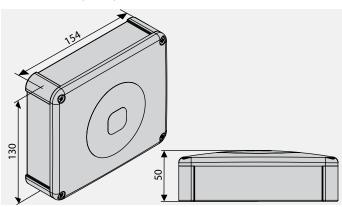






Innovative hands-free system for the automatic management of entries/exits based simply on proximity to an antenna. Passy is reliable and safe and is the ideal system for situations where even the simple pressing of a remote control button can be inconvenient or dangerous, such as motor cycle access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

Dimension (mm)



Technical features

	PASSY ANTENNA MONO	PASSY ANTENNA OMNI	PASSY TRANSPONDER
Power supply	14/18 V	14/18 V	
Current input	Typ 3W Max 6W	Typ 3W Max 6W	
Band	2400-2483 MHz	2400-2483 MHz	
Power			<8 dB
Frequency			433.92±0.1 MHz
Protection rating	IP.	55	
Environmental condi- tions	-20 ÷ 70 °C		-10 ÷ 60 °C

Code	Name	Description
D111457 00002	PASSY ANTENNA MONO	Hands-free control devices, also compatible with non-BFT systems
D111457 00001	PASSY ANTENNA OMNI	Hands-free control devices, also compatible with non-BFT systems
D111456	PASSY TRANSPONDER	Transponder with button for manual control of automation.

RECOMMENDED ACCESSORIES



D113674 00001 - **CLONIX 2E**

External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.



P111465 - PROXIMA BLUE

Universal handheld programmer for control units, receivers and remote controls with BLUETOOTH technology



D113671 00002 - RTD CA 2048

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



D113807 00002 - **CLONIX 2E AC U-LINK 230**

433 MHz external receiver with 2 outputs with NO contact. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory



D113808 00003 - **CLONIX UNI AC U-LINK 230V**

433 MHz external receiver with 3 outputs: 2 with NO contact and one NO/NC configurable. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory









accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

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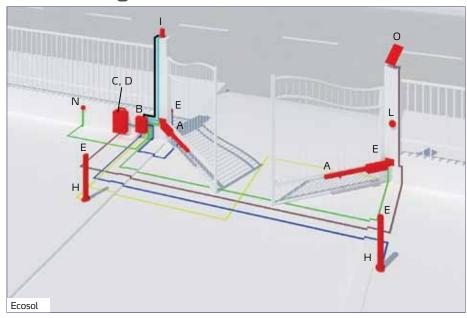
P. 227 safety devices - sensitive edges
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Solar power supply system Installation guide



Α	Operator
В	Control unit
С	Backup Batteries
D	Receiver
E	Photocell
Н	Post
	Flashing Beacon
L	Control system (key selector switch, keypad, badge reader)
N	Junction box
0	Solar panel
	2x1.5
	2x0.75
	3x1.5
	RG 58
	5x1
	7v1

Autonomy of system

Control Board		ECOSOL*	ECOSOL + DOUBLE*
CB HIDE		20	40
LIBRA C MV (from vei	rsion .1.04 MICHELANGELO)	15	30
LIBRA C MO (from vei	rsion .1.00.1 MOOVI BT)	20	40
LIBRA C G - LIBRA C G	S	20	40
LINX		22	44
QSCD MA - DEIMOS B	Т	9	19
QSCD MA - URANO		7	15
H QSC - ARES 1500-A	RES 1000	6	13
H QSC - DEIMOS BT 51	00	9	19
VENERE D		9	18
VENERE D - ARGO + S	CS-IO (ZONE= 129)	8	16
VENERE D - ARGO G +	SCS-IO (ZONE= 129)	8	16
	ELI 250 BT	5	10
	KUSTOS BT	20	40
	KUSTOS ULTRA BT	20	40
	PHOBOS BT A	20	40
THALIA	PHOBOS N	20	40
THALIA P	IGEA	8	16
THALIA UL	GIUNO BT A25	5	10
	GIUNO BT A50	3	7
	LUX BT	5	10
	LUX G BT	3	7
	SUB BT	5	10
LIBRA UL R - PHOBOS	BT	15	30
QSC D MA UL - DEIMO	S BT	8	16
MERAK	DEIMOS ULTRA BT A	9	19
MERAK	ARES ULTRA BT A	6	13
MEDAY DEC / DE	GIOTTO BTS	20	40
MERAK BGS/ BG	GIOTTO BT	20	40
MERAK BM - MICHELANGELO		15	30
	DEIMOS BT A	9	19
HAMAL	ARES BT A	6	13
	PHOBOS BT A	20	40
ZARA	KUSTOS BT	20	40
	KUSTOS UI TRA BT	20	4∩







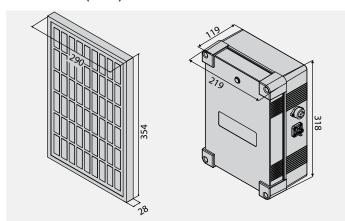




Ecosol is a complete solar powered system for low-voltage installa-

Ideal for doors and gates that are not easily reached from the power mains, it adapts to any context thanks to compatibility with all 24V systems, both old and new.

Dimension (mm)



Technical features

	ECOSOL BOX	ECOSOL BOX NO BATTERY	ECOSOL PANEL
Nominal voltage	24 V	24 V	24 V
Maximum current	10 A	10 A	no A
Peak power	no Wp	no Wp	10 Wp
Battery nominal capacity	7.2 Ah	7.2 Ah	no Ah
Battery type	12 A	12 A	no A
Maximum panel power	35 Wp	35 Wp	35 Wp
Consumption in standby	0.15 W	0.15 W	no W
Protection rating	IP:	55	IP65
Environmental conditions		-20 ÷ 50 °C	

Code	Name	Description
D113731	ECOSOL BOX	Control and management unit for solar power supply of systems with supply voltage of 24 V. Batteries included.
D113750	ECOSOL BOX NO BAT- TERY	Control and management unit for supplying solar power to systems with supply voltage of 24 V. Batteries not included.
N999471	ECOSOL PANEL	Solar-powered system compatible with BFT systems only

RECOMMENDED ACCESSORIES











control devices

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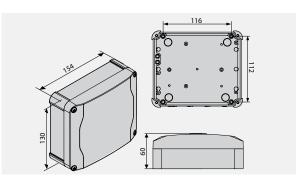
VIP accessories

Remote control receiver

CLONIX







	CLONIX 2E	CLONIX UNI AC U-LINK 230V	CLONIX 2E AC U-LINK 230
Motor power supply		230 V	230 V
Power supply	24 V	230 V	230 V
Frequency	433 MHz	433 MHz	433 MHz
Amperage			
Weight			0.3 kg
Environmental conditions	-20 ÷ 55 °C	-20 ÷ 55 °C	-20 ÷ 55 °C

VERSIONS



D113674 00001 - CLONIX 2E

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



D113807 00002 - CLONIX 2E AC U-LINK 230



433 MHz external receiver with 2 outputs with NO contact. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory



D113808 00003 - CLONIX UNI AC U-LINK 230V

433 MHz external receiver with 3 outputs: 2 with NO contact and one NO/NC configurable. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory





P111531 - B EBA BLUE ENTRY ANDROID 4

BLUE-TOOTH expansion card for Blue Entry system. Manages up to 4 smartphones with the Android operating system



P111533 - B EBA BLUE ENTRY ANDROID 16

BLUE-TOOTH expansion card for Blue Entry system. Manages up to 16 smartphones with the Android operating system



Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



D111904 - MITTO B RCB02 R1

system

Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A

P111532 - B EBA BLUE ENTRY ANDROID 8

BLUE-TOOTH expansion card for Blue Entry system.

Manages up to 8 smartphones with the Android operating



D111906 - MITTO B RCB04 R1



P111468 - **B EBA RS 485 LINK**

Expansion board for connection of central units with serial controls management



P111535 - BEBA Z-WAVE DRIVER

Expansion card for connection with Z-Wave wireless protocol



P111523 - U-BASE ANDROID

Management and programming software for BFT control and receiver units. Version for Android smartphones and tablets. Bluetooth connection



P111510 - **U-BASE**

Software for bluetooth programming and managing of control unit, receiver and transmitters. USB key included



P111748 00002 - **B EBA BLUE ENTRY IOS LE 4**

BLUE-TOOTH expansion card for Blue Entry system (max 4 Android smartphones)



P111748 00001 - B EBA BLUE ENTRY IOS LE 8

BLUE-TOOTH expansion card for Blue Entry system (max 8 Android smartphones)



P111748 - **B EBA BLUE ENTRY IOS LE 16**

BLUE-TOOTH expansion card for Blue Entry system (max 16 Android smartphones)



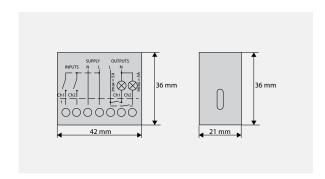


Remote control receiver

MIME







	MIME AC
Power supply	230 V
Built-in antenna	Yes
Туре	2
Max connectable peripherals	30
Maximum current	2 x 5 A
Frequency	433 MHz
Environmental conditions	-20 ÷ 40 °C

VERSIONS



R400008 - **MIME AC PAD KIT**

433MHz 2-channel indoor receiver 2 independent outputs 230 Vac power supply 30-position memory Operating mode: monostable, bistable, timed, motor control Complete with 1 MITTO 4 Clear Ice remote control



R400005 - **MIME AC KIT**

433MHz 2-channel indoor receiver 2 independent outputs 230 Vac power supply 30-position memory Operating mode: monostable, bistable, timed, motor control Complete with 1 MITTO 4 Clear Ice remote control



new R400007 - MIME AC TX KIT

433MHz 2-channel indoor receiver 2 independent outputs 230 Vac power supply 30-position memory Operating mode: monostable, bistable, timed, motor control Comes with built-in dual-channel transmitter





433 MHz 2-channel indoor receiver 2 independent outputs 230 Vac power supply 30-position memory Operating mode: monostable, bistable, timed, motor control

RECOMMENDED ACCESSORIES



P121028 - **MIME PAD**

4-channel wall-mounted radio control with rolling code



D111904 - MITTO B RCB02 R1

Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



D111906 - MITTO B RCB04 R1

Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



D111947 - MITTO B RCBO4 R1 CLEAR ICE

Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: clear ice white



D111946 - MITTO B RCBO4 R1 SUNRISE

Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: sunrise yellow



D111945 - MITTO B RCB04 R1 VINEYARD

Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: vineyard red



N999522 - **CLIP B 00 R04**

Wall mounting clip for KLEIO B RCA and MITTO B RCB remote controls. 30 unit pack



P121024 - **Q.BO TOUCH**

Wireless digital touch button panel 433 MHz rolling code.







accessories for control units set of batteries for control units expansion boards software receivers transmitters

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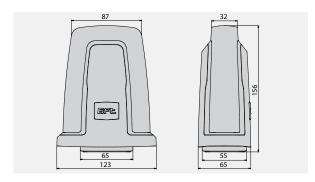


Flashing lights for automatic gates

IPNOS







	IPNOS B LTB 24 R1
Voltage	24 V
Protection rating	IP44
Environmental conditions (min)	

VERSIONS



D113783 - IPNOS B LTB 24 R1

Flashing light with LED technology and built-in receiver antenna. New design language with smoke-grey cover.Power supply 24 V ac/dc.

RECOMMENDED ACCESSORIES



P123026 - **B 00 R01**

Metal guard for B LTA



P123025 - **B 00 R02**

Wall mounting for B LTA series flashing beacons



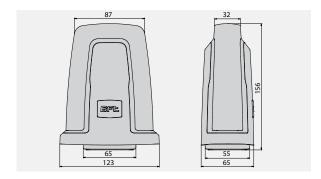


Flashing lights for automatic gates

RADIUS







	RADIUS B LTA 24 R2	RADIUS B LTA 24 R1	RADIUS B LTA 230 R2	RADIUS B LTA 230 R1
Voltage	24 V	24 V	230 V	230 V
Built-in antenna	no	Yes	no	Yes
Protection rating	IP44			
Environmental conditions (min)				

VERSIONS

D113749 00003 - RADIUS B LTA 24 R2		D113748 00003 - RADIUS B LTA 24 R1
Flashing light without incorporated antenna for motors with power supply 24 V.		Flashing light with incorporated antenna for motors with power supply 24 V.
D113749 00002 - RADIUS B LTA 230 R2		D113748 00002 - RADIUS B LTA 230 R1
Flashing light without incorporated antenna for motors with power supply 230 V.		Flashing light with incorporated antenna for motors with power supply 230 V.

RECOMMENDED ACCESSORIES

577	P123026 - B 00 R01	P123025 - B 00 R02
	Metal guard for B LTA	Wall mounting for B LTA series flashing beacons
T	D113631 - AEL 30.8	
	Antenna for 30.875 MHz radio remote control with 4 m cable	









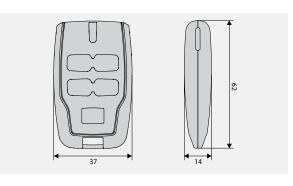


Remote controls for automatic gates

KLEIO







	KLEIO B RCAO4 R1	KLEIO B RCAO2 R1	
Voltage	12 V	12 V	
Range	50/100 m	50/100 m	
Number of buttons	4	2	
Frequency	433 MHz	433 MHz	
Number of batteries	1	1	
Battery type	23 A	23 A	
Protection rating			

VERSIONS



D111890 - KLEIO B RCAO4 R1

Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



D111888 - KLEIO B RCAO2 R1

Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A

RECOMMENDED ACCESSORIES

J

D113807 00002 - CLONIX 2E AC U-LINK 230

433 MHz external receiver with 2 outputs with NO contact. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory



(D113808 00003 - CLONIX UNI AC U-LINK 230V

433 MHz external receiver with 3 outputs: 2 with NO contact and one NO/NC configurable. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory



D113674 00001 - CLONIX 2E

External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.



External 4-channel 433 MHz rolling code receiver. Power



P111510 - **U-BASE**

Software for bluetooth programming and managing of control unit, receiver and transmitters. USB key included



P111529 - **U-PROG**

Programmer for radio control units and receivers with possibility of wired or BlueTooth connection



N999522 - CLIP B 00 R04

Wall mounting clip for KLEIO B RCA and MITTO B RCB remote controls. 30 unit pack



N999521 - **CLIP1 B 00 R03**

D113718 00002 - **CLONIX 4 RTE**

relay outputs (16 A 230 V). 230 V.

Clip for hooking KLEIO B RCA and MITTO B RCB series remote controls to belt or sun visor. Supplied in pack of 30pcs



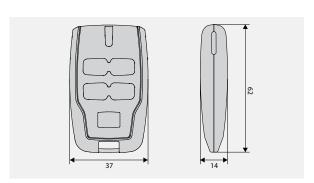


Remote controls for automatic gates

MITTO







	MITTO B RCBO4 RG RAINBOW					
Voltage	12 V					
Range			50/10	00 m		
Number of buttons	4					
Frequency	433 MHz					
Number of batteries	1					
Battery type	23 A					
Coloration						
Battery type	23 A	23 A	23 A	23 A	23 A	23 A
Coloration						

VERSIONS



D111947 - **MITTO B RCBO4 R1 CLEAR ICE**





D111946 - MITTO B RCBO4 R1 SUNRISE

Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: sunrise yellow



D111945 - MITTO B RCBO4 R1 VINEYARD

Transmitter 4 channels. Range 50/100 m. Power supply 12 with 1 battery type 23 A. Colour: vineyard red



N999543 - **MITTO B RCBO4 R3**

Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Pack of 100pcs numbered for block memorisation.



D111907 - MITTO B RCB04 R2 REPLAY

Copyable transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A.



D111906 - MITTO B RCB04 R1

Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



N999542 - MITTO B RCB02 R3

Transmitter 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Pack of 100pcs numbered for block memorisation.



D111905 - MITTO B RCB02 R2 REPLAY

Copyable transmitter 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A.



D111904 - **MITTO B RCB02 R1**

Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



N999629 - **MITTO B RCB04 R6 RAINBOW**

Pack of four MITTO 4 transmitters in the four BFT colours: vineyard red sunrise yellow clear ice white deep sea blue



D112196 - MITTO B RCBO2 2CH CUSTOMIZED

Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



D112197 - MITTO B RCBO4 4CH CUSTOMIZED

Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

P. 226 signalling devices
P. 226 safety devices - photocells and accessories

P. 227 safety devices - sensitive edges P. 228 rubber profiles P. 228 solenoid locks P. 229 release systems P. 232 P. 233 P. 233 P. 234





VERSIONS



RECOM	MENDED ACCESSORIES		
	D113807 00002 - CLONIX 2E AC U-LINK 230		D113808 00003 - CLONIX UNI AC U-LINK 230V
-	433 MHz external receiver with 2 outputs with NO contact. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory		433 MHz external receiver with 3 outputs: 2 with NO contact and one NO/NC configurable. Compatible with U-LINK protocol (with 3 connection slots). Power supply 230 V, 2048-position memory
	D113718 00002 - CLONIX 4 RTE	1000	D113674 00001 - CLONIX 2E
dire	External 4-channel 433 MHz rolling code receiver. Power relay outputs (16 A 230 V). 230 V.		External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.
	P111510 - U-BASE	~	P111529 - U-PROG
	Software for bluetooth programming and managing of control unit, receiver and transmitters. USB key included		Programmer for radio control units and receivers with possibility of wired or BlueTooth connection
	N999522 - CLIP B 00 R04		N999521 - CLIP1 B 00 R03
	Wall mounting clip for KLEIO B RCA and MITTO B RCB remote controls. 30 unit pack		Clip for hooking KLEIO B RCA and MITTO B RCB series remote controls to belt or sun visor. Supplied in pack of 30pcs

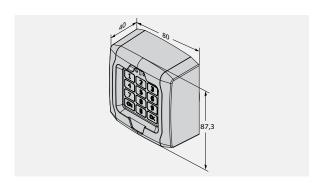




Switches for automatic gates, entrances and electric appliances **0.BO**







	Q.BO PAD	Q.BO TOUCH	Q.BO KEY WM AV	Q.BO KEY WM
Voltage	12/24 V	12/24 V		
Number of batteries		2		
Battery type		CR123A		
Frequency		433 MHz		
Protection rating	IP44	IP55	IP4	44
Environmental conditions (min)	<u></u>			

VERSIONS



P121025 - **Q.BO PAD**

Vandalproof digital push-button panel, for outdoor use. Metal structure and s/steel buttons. Compatible with WIEGAND protocol, it ensures maximum system safety as it does not directly control the opening of the entry point.



P121024 - **Q.BO TOUCH**

Wireless digital touch button panel 433 MHz rolling code.



P121023 - **Q.BO KEY WM AV**

Vandalproof key selector with metal structure.



P121022 - **Q.BO KEY WM**

Key selector for outdoor use with double contact.

RECOMMENDED ACCESSORIES



P111467 - B EBA WIE DRIVER

Expansion card for connection of WIEGAND accessories, compatible with U-Link control units



P111408 - SCS WIE

Board for connection of SELETTO (E) push-button panel and COMPASS SLIM proximity reader Until stocks last



P903026 - **PHP3**

Pair of aluminium columns for Q.bo series selectors. Height 1038 mm



D113674 00001 - **CLONIX 2E**

External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.



D113718 00002 - CLONIX 4 RTE

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



Phase-out





accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

226 signalling devices226 safety devices - photocells and accessories 227 228 safety devices - sensitive edges rubber profiles

P. 231 P. 232 P. 233 P. 234 P. 235 P. 228 solenoid locks release systems



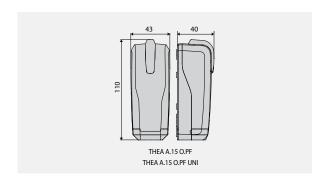


Photocells for automatic gates and safety devices

THEA







	THEA A15 O.PF UNI	THEA A15 O.PF	
Voltage	24 V	24 V	
Horiz. adjustment	40 °	40 °	
Vert. adjustment	10 °	10 °	
Range	30 m	30 m	
Protection rating	IP55		

VERSIONS



P111714 - **THEA A15 O.PF UNI**

Pair of self-aligning photocells. Range 30 m. Power supply 24 V ac/dc. Pair of universal photocells suitable for non-BFT automation systems, adjustable with integrated flashing light. Synchronised infrared signal to avoid any possibility of accidental dazzling. For external application. Beam can be oriented 40° horizontally and 10° vertically. Range 30 m. Power supply 24 V ac/dc.



P111528 - THEA A15 O.PF

Pair of adjustable photocells with integrated flashing light. Possibility of directing the beam 40 ° horizontally and 10 ° vertically. IR signal synchronised to prevent any risk of blinding. Range 30 m. Power supply 24 V ac/dc. For external application.

RECOMMENDED ACCESSORIES

INCCOIVE	RECOMMENDED ACCESSORIES				
1 1	P903022 - PHP BI		P903028 - PHP A		
11	Dual-face adapter for THEA/DESME photocells	Pair of aluminium posts for THEA/DESME series photocells Height 522 mm			
1 1	P903029 - PHP2 A	8 1	P903018 - PHP		
1	Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm		Pair of aluminium posts for THEA/DESME series photocells Height 522 mm		
1.	P903019 - PHP2		P903021 - PHP ADA CC		
1	Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm	U	Pair of adapters for the installation of THEA/DESME photocells on CC posts		
•	P903023 - PHP BA1 Support for mounting THEA/DESME photocells on Giotto, Moovi and Michelangelo enclosures		P903020 - APL		
10			Pair of foundation plates for PHP posts		



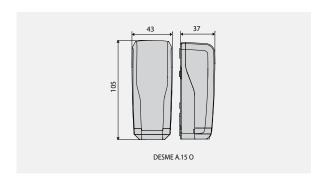


Photocells for automatic gates and safety devices

DESME







	DESME A15 O	DESME A15
Voltage	24 V	24 V
Voltage Horiz. adjustment	40 °	no °
Vert. adjustment	10 °	no °
Range	30 m	30 m
Protection rating	IP:	55

VERSIONS



P111527 - **DESME A15 0**

Pair of photocells adjustable 40 ° horizontally and 10 ° vertically. IR signal synchronised to prevent any risk of blinding. Range 30 m. Power supply 24 V ac/dc.



P111526 - **DESME A15**

Pair of self-aligning photocells. Range 30 m. Power supply 24 V ac/dc.

RECOMMENDED ACCESSORIES



P903028 - PHP A

Pair of aluminium posts for THEA/DESME series photocells Height 522 mm



P903018 - **PHP**

Pair of aluminium posts for THEA/DESME series photocells Height 522 mm



P903029 - **PHP2 A**

Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm



P903019 - **PHP2**

Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm



P903021 - **PHP ADA CC**

Pair of adapters for the installation of THEA/DESME photocells on CC posts



P903022 - **PHP BI**

Dual-face adapter for THEA/DESME photocells

P903023 - PHP BA1

Support for mounting THEA/DESME photocells on Giotto, Moovi and Michelangelo enclosures



P903024 - **ACV20**

Vandal-proof protection for DESME photocells



P903020 - **APL**

Pair of foundation plates for PHP posts











accessories for control units set of batteries for control units expansion boards software receivers transmitters

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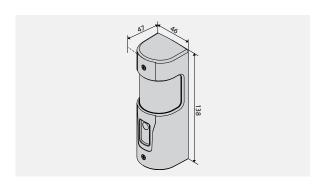


Photocells for automatic gates and safety devices

AKTA - ERIS







	ERIS A30	AKTA A30
Voltage	24 V	24 V
Voltage Horiz. adjustment	180 °	180 °
Vert. adjustment	20 °	20 °
Range	30 m	30 m
Protection rating	IP55	

VERSIONS



P111537 - ERIS A30

Pair of wireless photocells with the possibility of management of an active infrared or resistive safety edge adding STR and BIR C or BAR C profiles.



P111536 - AKTA A30

Pair of photocells adjustable 180 ° horizontally and 20 ° vertically. Range 30 m. Power supply 24 V ac/dc.

RECOMMENDED ACCESSORIES

N190106 - **STR**



Pair of infrared STR sensors for ERIS A30



N190104 - **BIR C**

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



P111451 00002 - **BAR C BA 2**

Double profile safety edge with lip seals (L2000xh60 mm.) BAR C BA 2



P903025 - PHP ADA

Pair of adapters for the installation of AKTA photocells on PHP posts



P903018 - **PHP**



P903028 - **PHP A**

Pair of aluminium posts for THEA/DESME series photocells Height 522 mm



Pair of aluminium posts for THEA/DESME series photocells Height 522 mm



P903029 - **PHP2 A**

Pair of foundation plates for PHP posts



P903019 - **PHP2**

Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm

Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm

P111538 - **ACV30**



P903020 - **APL**



Vandal-proof protection for AKTA photocells



N999465 - DCW BAT



Pack of 12 batteries for photocell safety edge, compatible with DCW, TANGO, ERIS A30





Control Panels

THALIA



Control panel with display for one or two hinged door operators, 24V - 300+300W.

VERSIONS



ZARA



Control panel with dip switches and potentiometers for one or two 24V operators for swing gates

VERSIONS



D113796 00002 - **ZARA BT L2**

Control panel with dip switches and potentiometers for one or two 24V operators for swing gates



D113796 00001 - ZARA BT L2 120V

Control panel with dip switches and potentiometers for one or two 24V operators for swing gates







accessories for control units set of batteries for control units expansion boards software receivers transmitters

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LIBRA



Control panel for one or two swing gate operators.

VERSIONS

	D113742 00002 - LIBRA CB HIDE	 D113672 00005 - LIBRA C MA
	Control panel with display for 1 or 2 HIDE SW series operators	LIBRA C MA control panel
	D113715 00002 - LIBRA C LX QSG2	
2	LIBRA C LX control panel	

VEGA



Control panel for one or two overhead garage door operators.



D113836 00002 - **VEGA QUADRO QSG**

Vega control board in CPEL panel Application: control panel for one or two overhead garage door operators





RIGEL



Universal control board with display for one or two swing or sliding door operators, 230V - 650+650W. Main features: removable terminal blocks, programming and diagnostics with display, built-in four-channel receiver, electro lock, electronic torque limiter, electronic deceleration at opening and closing, a separate limit switch inputs for each motor, traffic light management, preheating hydraulic operators, weekly timer, possibility to delete a specific remote control, customization of the 4 radio channels, personalization of the duration of the delayed output, adjustable sensitivity to the obstacle.

VERSIONS



D113833 00001 - **RIGEL 6 110-120V 50/60HZ**



Universal control panel with display for one or two 120V operators



D113833 00002 - **RIGEL 6 220-230V 50/60HZ**

Universal control panel with display for one or two 230V -650+650W operators

ALENA



Control panel with dip switches and potentiometers for one or two 230V operators for swing gates and industrial folding doors

VERSIONS





ALENA SW2 120V control panel



D113811 00004 - ALENA SW2

Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

226 signalling devices226 safety devices - photocells and accessories 227 228 safety devices - sensitive edges rubber profiles

P. 228 solenoid locks release systems



SHYRA



Control panel for sliding and swing gates, shutters and overhead doors. Board power supply: 230 V single-phase Operator power supply: 230 V single-phase, max. 500 W Main functions: pedestrian opening (only by remote control), quick closing, pulse blocking Main features: removable terminal blocks, settings controlled by potentiometers, LED-based fault reporting and incorporated dual channel receiver, two safety verified inputs, one of wich dedicated to 8k2 safety edge.

VERSIONS



D113802 00002 - SHYRA CPEM



Control panel for sliding and swing gates, shutters and overhead doors. Panel power supply: 230 V, single-phase



D113802 00001 - SHYRA CPEM 120V

Control panel for sliding and swing gates, shutters and overhead doors. Panel power supply: 120 V, single-phase.

ALCOR



Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates, with management of sensitive edges and security entry verification option.

VERSIONS



D114092 00002 - ALCOR AC A



Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.



D114092 00001 - ALCOR AC A 120V

Control panel with dip switches and potentiometers for one or two 120V/300W operators for swing gates





ALPHA



Universal potentiometer control panel for one 230V single-phase operator

VERSIONS



D113680 00002 - **ALPHA SD**



Universal control panel with potentiometers for one 230V/500W single-phase operator



D113680 00001 - ALPHA SD 120V

Universal control panel with potentiometers for one 230V/500W single-phase operator

PERSEO



Universal control panel for one or two 230V operators.

VERSIONS



D113812 00002 - **PERSEO CBE 230.P SD**



Control unit with U-Link, receiver and incorporated heating circuit (to -40°C) for electro-mechanical and hydraulic bollards. Can manage up to 4 bollards at the same time (or up to 2 Xpass 1200)







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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P. 226 safety devices - photocells and accessories
P. 227 safety devices - sensitive edges
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P. 230 P. 231 P. 232 P. 233 P. 233 P. 234 P. 235





LEO



Control panel with display for one operator, 230V - 750W, with possibility of input enabling for BFT encoder.

VERSIONS

	D113777 00002 - LEO B CBB L02		D113768 00002 - LEO B CBB W01
-	Incorporated control unit for one 230V operator for sliding gates	- 1	Control board for PEGASO CJA tree-phase operators
	D113767 00002 - LEO B CBB L01		
- 1	Control board for PEGASO CJA single phase operators		

ELBA





VERSIONS

V LI (JIC	VEI/310143			
	D113717 00002 - ELBA BU		D113716 00002 - ELBA	
• 6	Control panel, max 230V, for roller shutters or roll-up doors	•	ELBA control panel	





SHEDIR



Routing centralisation card for controlling up to two motors or groups of motors in single mode or centralised.

VERSIONS

P111515 - SHEDIR B CBC 02 L01



Control unit for wired centralisation. For 2 operators (or 2 groups of operators)

PROXIMA



VERSIONS



P111465 - PROXIMA BLUE

Universal handheld programmer for control units, receivers and remote controls with BLUETOOTH technology



P111326 - **PROXIMA**

Universal handheld programmer for control units, receivers and remote controls







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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P. 226 safety devices - photocells and accessories
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Generic accessories

ACCESSORIES FOR CONTROL UNITS

D223066 - CPEM	D223072 - CPEL
Panel box for central control units	Large panel box for central control units
N999070 - SFQ	 N999369 - CP SD
Set of SD and QSG panel fixing brackets	Set of cable clamps for SD panel
D223076 - CPES	
Control panel box for control units. Dimensions 154x130 mm depth 60 mm	

SET OF BATTERIES FOR CONTROL UNITS

	P125008 - VIRGO BAT		P125005 - BT BAT
	Set of backup batteries for VIRGO	-	Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRA N, ARGO
	P125006 - CB EOS		P125007 - BT BAT1
asi)	Set of backup batteries for VENERE D		Emergency battery kit for HYDRA N CPEL, only for external board not compatible with board on motor
	P125038 - BAT KIT MCL BT A		P975005 - BATT-EB
Tin.	Set of backup batteries for MICHELANGELO BT A barriers	199	Backup battery kit to allow bollards to stay up in case of no power
	P111768 - BBV BATT MODULO VISTA SL		P125002 - SB BAT
	Set of backup batteries for VISTA SL	1126	SB BAT emergency battery kit for DEIMOS BT
	P125009 - BT BAT2		P125017 - A-300 SL BAT
M lo	Set of backup batteries for ARES	1120	Set of backup batteries for A-300 SL series operators
	P120017 - BAT KIT 1		P120074 - BAT KIT GIOTTO M BG
	Set of backup batteries for GIOTTO series barriers. Not compatible with GIOTTO BT A	0:=	Buffer battery kit for Giotto BT A series barrier
	P111503 - BBV SLC TL		P125020 - BBT BAT
	Battery powered anti-panic device for VISTA SL C, TL		Set of backup batteries for THALIA and THALIA P





SET OF BATTERIES FOR CONTROL UNITS



P125033 - **SL BAT1**

SL BAT1 emergency battery kit for DEIMOS ULTRA BT



P125035 - SI BAT2

Emergency battery kit for Deimos BT A, Ares BT A, Deimos Ultra BT A, Ares Ultra BT A.

EXPANSION BOARDS



P111494 - B EBA WI-FI GATEWAY

Expansion card permitting connection of a U-link device to a home Wi-Fi network. Connected operators may be remotely managed with the U-control app available for Android and 105 smartphones.



P111748 00002 - **B EBA BLUE ENTRY IOS LE 4**

BLUE-TOOTH expansion card for Blue Entry system (max 4 Android smartphones)



P111748 00001 - **B EBA BLUE ENTRY IOS LE 8**



P111748 - **B EBA BLUE ENTRY IOS LE 16**



BLUE-TOOTH expansion card for Blue Entry system (max 8 Android smartphones)



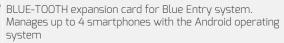
BLUE-TOOTH expansion card for Blue Entry system (max 16 Android smartphones)



P111531 - B EBA BLUE ENTRY ANDROID 4



P111532 - B EBA BLUE ENTRY ANDROID 8





BLUE-TOOTH expansion card for Blue Entry system. Manages up to 8 smartphones with the Android operating



P111533 - B EBA BLUE ENTRY ANDROID 16

P111376 - SCS 1

BLUE-TOOTH expansion card for Blue Entry system. Manages up to 16 smartphones with the Android operating system



Expansion card



Board for connection of SELETTO (E) push-button panel and COMPASS SLIM proximity reader Until stocks last



P111535 - BEBA Z-WAVE DRIVER

Expansion card for connection with Z-Wave wireless protocol



P111377 - SCS 1 MA

P111408 - SCS WIE

D113050 - **SPL**

D111704 - **SSR5**

D111013 - ME

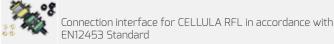
P111400 - FLC 8K2

Board for connection to more than two checked photocell Pre-heating board with thermostat for 230V hydraulic opercopies for DEIMOS BT and ARES While stocks last ators. Not usable with RIGEL 5



P111399 - IT23





Control card traffic light or pre-heating hydraulic motors AC



D113727 - TLB

LEO CBB.

with Rigel 5



Traffic-light management board for THALIA, THALIA P and

Control board for 12Vac solenoid lock for 230V automation



D111761 - ME BT

systems



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



Interface for connecting one or more 8K2 type edges





Expansion board for BLUETOOTH connection management







accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

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P111469 - B EBA BLUE GATEWAY

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232 233 233





EXPANSION BOARDS

_	P111466 - B EBA IO DRIVER	_	P111467 - B EBA WIE DRIVER
	INPUT/OUTPUT expansion board		Expansion card for connection of WIEGAND accessories, compatible with U-Link control units
	P111468 - B EBA RS 485 LINK		D111501 - ME110
	Expansion board for connection of central units with serial controls management	The state of	
	D113805 00002 - B EBA TCP/IP GATEWAY		
	Gateway expansion card to connect automation systems in TCP/IP networks via U-Link slot. It manages up to 120 U-Link devices connected via B EBA RS-485 Link.		

SOFTWARE

	P111510 - U-BASE		P111514 00002 - U-SDK FULL 2
6	Software for bluetooth programming and managing of control unit, receiver and transmitters. USB key included		Software for easy integration of U-Link automation with external systems. U-SDK is an interpreter that allows system integrators easy and rapid implementation of U-Link commands via short simplified strings. Full license for 2 systems
	P111389 - SECURBASE PLUS USB		P111523 - U-BASE ANDROID
	Advanced management software for COMPASS access control system based on COMPASS SC.		Management and programming software for BFT control and receiver units. Version for Android smartphones and tablets, Bluetooth connection
	P111510 - U-BASE 2 PC		P111718 - U-BASE CLOUD 10
	Management and programming software for Bft control units and receivers. Version for PC, Bluetooth connection		The U-BASE Cloud service for U-Base 2 PC allows for the management in the BFT cloud of back-ups of the settings for various different systems.
	P111388 - SECURBASE LIGHT USB		P111513 00008 - U-SDK LIGHT 8
	Management software for COMPASS access control system based on COMPASS SC.		Software for easy integration of U-Link automation with external systems. U-SDK is an interpreter that allows system integrators easy and rapid implementation of U-Link commands via short simplified strings. Light license for 8 systems
	P111514 00008 - U-SDK FULL 8		P111513 00002 - U-SDK LIGHT 2
	Software for easy integration of U-Link automation devices with external systems. U-SDK is an interpreter that allows system integrators to easily and rapidly implement U-Link commands via short simplified strings. Full licence for 8 plants		Software for easy integration of U-Link automation devices with external systems. U-SDK is an interpreter that allows system integrators to easily and rapidly implement U-Link commands via short simplified strings. Light licence for 2 plants

RECEIVERS







RECEIVERS

	D113674 00001 - CLONIX 2E		D113674 00003 - CLONIX 2E 2048
1	External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.		Dual channel 433 MHz rolling code plug-in receiver. 2048-position memory
	D113718 00002 - CLONIX 4 RTE	(200)	D113670 00002 - RTD 2048
day	External 4-channel 433 MHz rolling code receiver. Power relay outputs (16 A 230 V). 230 V.	1	Four-channel rolling code receiver with 2048 codes and built-in programming display. 230 V power supply, radio command block programming
	D111713 00001 - MOP		D111050 - RE
	Accessory for adding an output channel to RTD		Wired connection board for two BFT plug-in receivers
	D111305 - RO 2	1	D113632 - AEL 433
	Dual channel 30.875 MHz plug-in receiver.	_	Antenna for 433 MHz radio remote control with 4 m cable
I	D113631 - AEL 30.8		
_	Antenna for 30.875 MHz radio remote control with 4 m cable		

TDANISMITTEDS

IRANSI	MITTERS		
	D111904 - MITTO B RCB02 R1		D111888 - KLEIO B RCAO2 R1
	Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A
	P121024 - Q.BO TOUCH	_	D111905 - MITTO B RCB02 R2 REPLAY
	Wireless digital touch button panel 433 MHz rolling code.		Copyable transmitter 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A.
	D111890 - KLEIO B RCA04 R1		N999542 - MITTO B RCB02 R3
	Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		Transmitter 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Pack of 100pcs numbered for block memorisation.
	D111906 - MITTO B RCB04 R1		D111907 - MITTO B RCB04 R2 REPLAY
	Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		Copyable transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A.
•	N999543 - MITTO B RCBO4 R3		N999629 - MITTO B RCBO4 R6 RAINBOW
	Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Pack of 100pcs numbered for block memorisation.		Pack of four MITTO 4 transmitters in the four BFT colours: vineyard red sunrise yellow clear ice white deep sea blue
	D111945 - MITTO B RCBO4 R1 VINEYARD		D111946 - MITTO B RCB04 R1 SUNRISE
	Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: vineyard red	TO !	Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: sunrise yellow







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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P. 226 safety devices - photocells and accessories
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TRANSMITTERS



CONTROL DEVICES

	P121024 - Q.BO TOUCH		D110926 00001 - SPIRA 2X1		
	Wireless digital touch button panel 433 MHz rolling code.	0	Magnetic loop 2 x 1 m		
	P121022 - Q.BO KEY WM		P111274 - RME 1 BT		
	Key selector for outdoor use with double contact.		24 V single channel metal object detector with installation base		
	P121023 - Q.BO KEY WM AV		P111001 00003 - RME 2		
	Vandalproof key selector with metal structure.		230 V dual channel metal object detector with installation base		
	P121025 - Q.BO PAD		D121611 - SPC		
	Vandalproof digital push-button panel, for outdoor use. Metal structure and s/steel buttons. Compatible with WIEGAND protocol, it ensures maximum system safety as it does not directly control the opening of the entry point.		External button panel with 2 start-stop buttons.		
7	P903008 - CSC 50		D121612 - SPC2		
	Aluminium column for photocell mod. CELLULA 50 and selector mod. INTRO		External button panel with 2 open-close buttons.		
	D121619 - SPC3		D121011 - LCM		
	Open stop close button panel.	7	Magnetic key reader. For column mounting - see mod. CLC		
4	N574039 - BOX		N733036 - MOX		
10	Wall safe for unlocking with steel cable and electrical control; cable not included	3 <u>9.</u>	External release system to be inserted in SIBOX safe		
D #	P903026 - PHP3	,	P903027 - PHP4		
	Pair of aluminium columns for Q.bo series selectors. Height 1038 mm		Pair of aluminum columns of different heights, for Q.bo series selectors and DESME and THEA series photocells. Column for selector: height 1038 mm, column for photocells: height 552 mm		

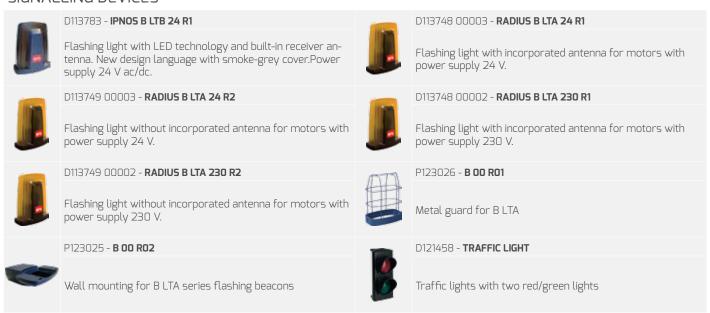




ACTIVATION SENSORS AUTOMATIC DOORS AND SECURITY

	P111405 - TELECOMANDO	4	P111407 - FALCON
Herita	Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8		Industrial presence sensor installable up to 7 m.
	P111662 - VIO-M		P111325 - RIP
	Compact mono-directional activation sensor	4	Multi-function active infrared radar, wide/narrow range
	P111652 - HR100-CT		P111653 - VIO-DT2
	Safety and mono-directional activation sensor, infrared, monitored		Safety and bi-directional activation sensor, dual technology, monitored
	P111654 - VIO-DT1		P111406 - SPOTFINDER
	Safety and mono-directional activation sensor, dual technology, monitored	9	IR curtain detector
	P111655 - IXIO-DT1		P111656 - VIO-ST
	Safety and mono-directional activation sensor, dual technology, monitored, programmable c.telecom.		Infrared safety sensor, monitored
	P111657 00001 - 45AFE SENSORE SICUR IR MONIT.SW/ 1MOD/700		P111657 00002 - 4SAFE SENSORE SICUR.IR MONIT.SW/ 2MOD/700
	Monitored IR safety sensor for side-hung leaves, 1 module, 700 mm		Monitored IR safety sensor for side-hung leaves, 2 modules, 700 mm
	P111657 00003 - 4SAFE SENSORE SICUR IR MONIT.SW/ 2M0D/900		
	Monitored IR safety sensor for side-hung leaves, 2 modules, 900 mm		

SIGNALLING DEVICES









accessories for control units set of batteries for control units expansion boards software receivers transmitters

control devices

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SAFETY DEVICES - PHOTOCELLS AND ACCESSORIES







SAFETY DEVICES - PHOTOCELLS AND ACCESSORIES

	P903014 - CM RFL		P903024 - ACV20
6	CELLULA RFL wall mounting support	F	Vandal-proof protection for DESME photocells
	P111538 - ACV30		P111399 - IT23
	Vandal-proof protection for AKTA photocells	***************************************	Connection interface for CELLULA RFL in accordance with EN12453 Standard
-	N999465 - DCW BAT		P111460 - KIT CELLULA 180 AT
7777	Pack of 12 batteries for photocell safety edge, compatible with DCW, TANGO, ERIS A30		KIT CELLULA 180 + DCW COVER
	P903008 - CSC 50		P111081 - PRO 130
	Aluminium column for photocell mod. CELLULA 50 and selector mod. INTRO		Anodised aluminium vandal-proof guard for CELLULA 130
- 4	P903005 - CC130	r r	P903006 - CC130/2
	Pair of aluminium posts for CELLULA 130 photocells		Pair of aluminium posts with double fitting for CELLULA 130 photocells
	P903007 - CSC 130		P903004 - CC50
	Aluminium post for CELLULA 130 photocell and INTRO selector, plus CC130 post		Pair of aluminium posts for CELLULA 50 and CELLULA RFL photocells

SAFETY DEVICES - SENSITIVE EDGES



RUBBER PROFILES

	N190104 - BIR C		P111050 - CM1000	
	Rubber safety edge (H 30 mm), price per m			







accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices

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RUBBER PROFILES

NOBBENT NOTICES				
	P111051 - CM1500	-	P111052 - CM1700	
	Mechanical safety edge, length 1.5 m		Mechanical safety edge, length 1.7 m	
	P111053 - CM2000	-	P111054 - CM3000	
	Mechanical safety edge, length 2 m		Mechanical safety edge, length 3 m	
	P111055 - CM4000		P111056 - CM5000	
	Mechanical safety edge, length 4 m		Mechanical safety edge, length 5 m	
	P111450 00002 - BAR C 2		P111450 00004 - BAR C 4	
	Double profile rubber safety edge (L 2000 x H 60 mm)		Double profile rubber safety edge (L 4000 x H 60 mm)	
	P111450 00006 - BAR C 6		N190039 - CSP 10	
	Double profile rubber safety edge (L 6000 x H 60 mm)		Rubber shock absorber profile length 1000 mm	
	N190040 - CSP 20		N190041 - CSP 25	
	Rubber shock absorber profile length 2000 mm		Rubber shock absorber profile length 2500 mm	
	P111451 00004 - BAR C BA 4		P111451 00002 - BAR C BA 2	
	Double profile safety edge with lip seals (L4000xh60 mm.) BAR C BA 4		Double profile safety edge with lip seals (L2000xh60 mm.) BAR C BA 2	
	P111451 00006 - BAR C BA 6	9	D221074 - TB	
	Double profile safety edge with lip seals (L6000xh60 mm.) BAR C BA 6		Plug for BIR C - TB	
	N999025 - TA			
	TA TAPPI BAR			

SOLENOID LOCKS

	P123001 00001 - EBP		P123001 00013 - EBP 24
	230 V electric drop lock		24 V solenoid lock, with 230/24 V transformer installable in control panel
I o	D121017 - ECB SX	N. Y.	P123006 00001 - EBPE 52
	Left-hand horizontal solenoid lock, 12/24 V		230 V solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 50 mm





SOLENOID LOCKS

	P123008 00001 - EBPE 75		D121016 - ECB DX
	230 V solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 75 mm	TO A	Right-hand horizontal solenoid lock, 12/24 V
	D121018 - ECB VERTICALE	100	P123006 00013 - EBPE 52 24V
	Vertical solenoid lock, 12/24 V		EBPE 52 24 V with transformer
	P123001 00004 - EBP 120		P123001 00019 - EBP24 120
	Drop electric lock + transf. 24/120 V 60 Hz		Drop electric lock + transf. 24/120 V 60 Hz

RELEASE SYSTEMS

	N733189 - SCT		N733392 - SCC
	Release for ELI 250 and SUB BT with personalized key.	60	Release for ELI 250N and SUB BT with lever key.
Î	D610180 - CL5	670	D610256 - CL5/82
	Triangular release key l=52 mm		Triangular release key for SUB operators l=82 mm
/Ar.	P115003 - ST		N733069 - SET/S
70/	Automatic bolt release for sectional doors	*0	External release for insulated sectional and overhead doors of thickness up to 50 mm.
Ð	N733422 - RCAL		N733020 - SEB
	Lever release for ARGO with steel cable, length 7 m	OR:	External key release for BERMA, FORB, IGEA LB and IGEA LB BT
	N733036 - MOX		N574039 - BOX
3 <u>0</u>	External release system to be inserted in SIBOX safe		Wall safe for unlocking with steel cable and electrical control; cable not included
	N574005 - SIBOX		N733502 - SCP
	Empty wall-mounted safe for external release and control keypad Dimensions 179.5 x 122 x 92 mm		Release for ELI 250 and SUB BT with personalized key.
	D531097 00001 - CRC SPARE KEY		
	Release key for INTRO model key selector and EBP model electric lock.		







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Parking systems





SYSTEM TYPE:

STAND-ALONE **SYSTEM**

ESPAS 10 MONEY BOX Espas 10 COIN

Espas 20 I Espas 20 U Espas 20 P Espas 20 T

WIRED SYSTEM

Espas 30 I Espas 30 U Espas 30 P Espas 30 POS SERVER Guide to choosing

INTERFACE

Espas Espas Espas 10 20 30 COMMUNICATION BETWEEN DEVICES Stand alone operation RS485/LAN communication protocol • **USER** Alphanumeric display

<u>1D barcode ticket</u> ONE-OFF 2D barcode tickets **USER** Courtesy time management Ticket on fanfold thermal paper • **MANAGEMENT** Linear charge linked only to time spent in car park • Operator pass with ISO125KHz card

Season tickets with ISO 125KHz card

Alphanumeric display

Receipt request

Secondary coin box

Cash movement report

Multi-language voice synthesis

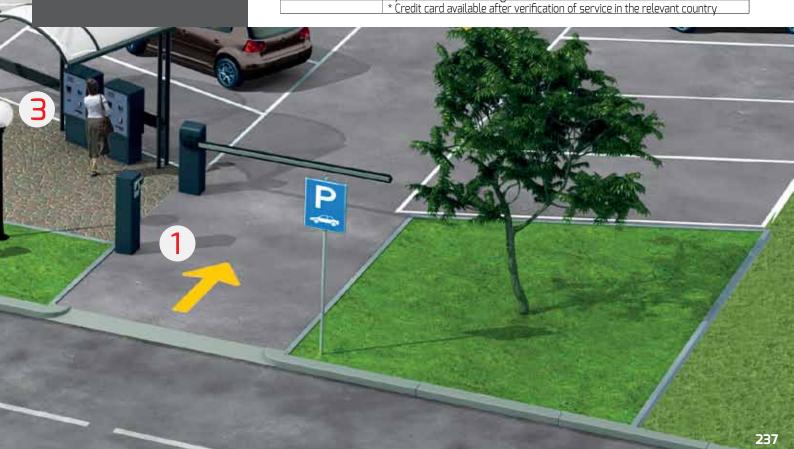
Season tickets with barcode tickets • Antipassback function on entry/exit stations **SEASON TICKET** Time slot season tickets with iso cards **HOLDER** Decremental season tickets with iso cards (time, amount, transits)
Season tickets on "free-hand" support MANAGEMENT Short-term time slot season tickets with tickets Short-term decremental season tickets with tickets (time, amount, transits) Short-term season tickets with daily tickets •

• Graphic display Payment by credit card * • Payment with up to 5 coin types Changegiver, up to 5 coin types Changegiver, up to 4 coin types, high capacity Changegiver, 1 banknote type AUTOMATIC Automatic coin jam clearing • • PAY STATION Lost ticket function

•

Programmable thermostat control system Control unit on industrial PC 1D barcode ticket printing and validation 2D barcode ticket printing and validation MANNED Centralised management software PAY STATION Issue of season tickets with ISO card System software management from remote stations

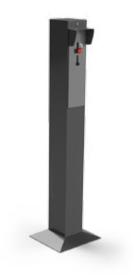
Payment data re-write on ticket function

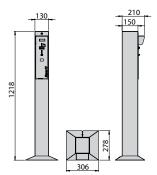






ESPAS 10 MONEY BOX | T | Stand Albane





the Espas 10 Money Box station, combined with an electromechanical barrier, is a device to control an entry or exit point of a car park, the station can be incorporated in a system in which the other passages are managed by Espas 20 posts.

BASIC COMPONENTS

• Coin machine enabled to accept only one 1 Euro or 2 Euro coin

SPECIAL VERSION

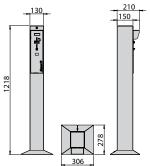
• Espas 10 Money box coin: station with coin machine enabled to accept a shaped token

TECHNICAL DATA

- Material: galvanised steel body, painted in RAL7015
- Weight: 10 Kg

ESPAS 10 MONEY BOX PLUS | T | SOMBLE





The Espas 10 Money Box Plus station, combined with an electromechanical barrier, is a device to control an entry or exit point of a car park, the station can be incorporated in a system in which the other passages are managed by Espas 20 posts.

BASIC COMPONENTS

- Front panel comprising a 4 digit LCD display showing the amount to be paid
- Coin machine enabled to accept 0.10 0.20 0.50 1 and 2 Euro coins.

TECHNICAL DATAPower supply: 230Vac/50Hz Power input: 20 VA

Material: galvanised steel body, painted in

RAL7015

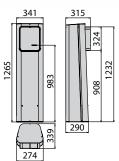
Weight: 10 Kg
Operating temperature: -30°C + 50°C





ESPAS 20-I | V | Sand Alon





The Espas20-I station combined with an electromechanical barrier and double loop is a device for controlling an entry transit point of a parking area. The system works in stand alone mode, and no wiring is required between the various components of the car park

BASIC COMPONENTS

- Back-lit LCD display 20x2
- Container for up to 5000 tickets with easy loading

 Iso fanfold ticket printer
- Vandal-proof luminous piezoelectric button for ticket request
- Proximity reader for operator cards
- Assistance call button
- Double-channel detector for vehicle direction reading
- Barrier control
- Heater and pressure-operated fan system with temperature control

OPTIONAL COMPONENTS

- Analogue intercom
- Digital intercom
- Ticket barcode reader-scanner

SPECIAL VERSIONS

- Espas 20 SA: for entries for season ticket holders only
- Espas 20 PAPER ROLL with paper-roll tickets

TECHNICAL DATA

Power supply: 230 Vac/50Hz Operating current absorption: 200 W Current absorption when idle: 70 W

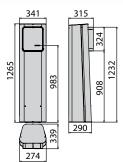
Material: powder-painted galvanised steel body Weight: 60 Kg

Operating temperature: from -20 to +50°C

Button: luminous, vandal-proof Protection rating: IP 33 Proximity reader: RFID 125kHz

ESPAS 20-U | T | Sand Alore





The Espas20-U station combined with an electromechanical barrier and double loop is a device for controlling an exit transit point of a parking area. The system works in stand alone mode, and no wiring is required between the various components of the car park

BASIC COMPONENTS

- Back-lit LCD display 20x2
- Barcode reader-scanner
- Proximity reader for operator cards
- Assistance call button
- Double-channel detector for vehicle direction reading
- Barrier control
- Heater and pressure-operated fan system with temperature control

OPTIONAL COMPONENTS

- Analogue intercom
- Digital intercom
- Motorised reader scanner retractor

SPECIAL VERSIONS

• Espas 20 SA: for exits for season ticket holders only

TECHNICAL DATA

Power supply: 230 Vac/50Hz Operating current absorption: 200 W Current absorption when idle: 70 W Material: galvanised steel body, painted in RAL7015

Weight: 60 Kg

Operating temperature: from -20 to +50°C

Protection rating: IP 33

Proximity reader: RFID 125kHz

239





ESPAS 20-P | 2 | Stand Alone



435

The Espas20-P automatic pay station was designed to provide stand alone car park systems, a device allowing autonomous system operation 24 hours a day without the continuous presence of an operator.

BASIC COMPONENTS

- Back-lit LCD display 20x4
- Multi-language voice synthesis
- Coin acceptor and change giver for up to 6 coin sizes
- Note acceptor and change giver, reads up to 5 note sizes in 4 directions and gives change in one (configurable) size
- Thermal printer for issuing lost tickets or printing reports and receipts
- Motorised ticket reader module which prints the receipt on the ticket
- Cash boxes, removable only with a safety key
- Heater and pressure-operated fan system with electronic temperature control

OPTIONAL COMPONENTS

- digital intercom
- analogue intercom
- credit card reader

SPECIAL VERSIONS

- Espas 20-P HR, size meets disabled standards (670x 438x 1498 LxWxH)
- Espas 20-P PAPER ROLL with paper-roll tickets

TECHNICAL DATA

Power supply: 230 Vac/50Hz Operating current absorption: 200 W Current absorption when idle: 70 W Material: galvanised steel body, painted in RAL7015

Weight: 90 Kg

Operating temperature: from -20 to +50°C

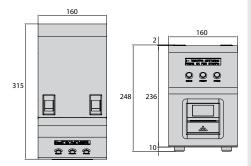
Display: Backlit 20x4 LCD

Coin change giver container capacity: 6 tubes of 50 coins each and 2 additional hoppers for 350 coins each

Note change giver container capacity: 30 pieces

ESPAS 20-T | T | Stand Alone





The Espas20-T desktop validator is an all in one device that performs all the functions of an attended station without wiring and without the use of a PC. The validator was designed to satisfy the requirements of small and medium-sized car parts requiring a device that is simple to install, configure and maintain.

BASIC COMPONENTS

- Backlit alphanumeric display showing the price to be paid
- Built-in optical module for 2D barcode reading
- 3 function keys for settings and printing tickets for:
- one entry and one exit
- unlimited access for a given period
- exiting the car park after a given number of hours
- Upper opening to replace the tickets and clean the printer

TECHNICAL DATA

Power supply: 230 Vac/50Hz Power input: 70 VA

Weight: 4 Kg

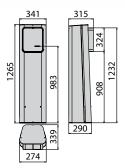
Operating temperature: from 0 to +50°C





ESPAS 30-1 | 1 | Calle System





The Espas 30-l entry station combined with an electromechanical barrier and double loop is a device for controlling an entry transit point of a parking area. It is designed for wired systems and therefore must be connected to the other components of the system via R5485 serial network.

BASIC COMPONENTS

- Back-lit LCD display 20x2
- Voice synthesis for user guide
- Container for up to 5000 tickets with easy loading
- ISO fanfold ticket printer
- Vandal-proof luminous piezoelectric button for ticket request
- Proximity reader for season tickets
- Assistance call button
- Double-channel detector for vehicle reading
- Barrier control
- Heater and pressure-operated fan system with electronic temperature control

OPTIONAL COMPONENTS

- Digital intercom
- Analogue intercom
- Ticket barcode reader-scanner

SPECIAL VERSIONS

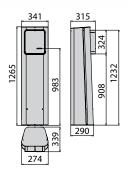
- Espas 30 A: for entry and exit points for season ticket holders only
- Espas 30 PAPER-ROLL: with paper-roll tickets

TECHNICAL DATA

- Power supply: 230 Vac/50Hz
- Operating current absorption: 200 W
- Current absorption when idle: 70 W
- Material: galvanised steel body, painted in RAI 7015
- Weight: 60 Kg
- Operating temperature: from -20 to +50°C
- Protection rating: IP 33
- interface: RS-485 serial
- Proximity reader: RFID 125kHz

ESPAS 30-U | To Cable System





The Espas 30-U entry station combined with an electromechanical barrier and double loop is a device for controlling an exit transit point of a parking area. It is designed for wired systems and therefore must be connected to the other components of the system via RS485 serial network.

BASIC COMPONENTS

- Back-lit LCD display 20x2
- Voice synthesis for user guide
- Barcode reader-scanner
- Proximity reader for season tickets
- Assistance call button
- Double-channel detector for vehicle reading
- Barrier control
- Pressure-operated fan system

OPTIONAL COMPONENTS

- Digital intercom
- Analogue intercom
- Motorised reader scanner retractor

SPECIAL VERSIONS

• Espas 30 A: for entry and exit points for season ticket holders only

TECHNICAL DATA

- Power supply: 230 Vac/50Hz
- Operating current absorption: 200 W
- Current absorption when idle: 70 W
- Material: galvanised steel body, painted in RAL7015
- Weight: 60 Kg
- Operating temperature: from -20 to +50°C
- Protection rating: IP 33
- interface: RS-485 serial
- Proximity reader: RFID 125kHz



ESPAS 30-P | 1 Cable System

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The Espas30-P automatic pay station was designed to provide professional cabled car park systems with a device offering the highest performance for automatic cashier services. It must be connected to the system server via an ethernet network

BASIC COMPONENTS

- 6.5" graphic colour display
- Multi-language voice synthesis
- Coin acceptor and change giver for up to 6 coin sizes
- Note acceptor and change giver, reads up to 4 note sizes in 4 directions and gives change in one (configurable) size
- Proximity reader for season ticket renewal
- Printer for issuing lost tickets or printing reports and receipts
- Ticket reader scanner
- Cash boxes, removable only with a safety key
- Heater and pressure-operated fan system with electronic temperature control

OPTIONAL COMPONENTS

- Digital intercom
- Analogue intercom
- Motorised ticket reader module which prints the receipt on the ticket
- Credit card reader with Pin-pad
- Note change giver, up to two note sizes

SPECIAL VERSIONS

- Espas 30-P HR, size meets disabled standards (670x 438x 1498 LxWxH)
- Espas 30-P PAPER ROLL with paper-roll tickets

TECHNICAL DATA

Power supply: 230 Vac/50Hz Operating current absorption: 200 W Current absorption when idle: 70 W

Material: powder-painted galvanised steel body Weight: 90 Kg

Operating temperature: from -20 to +50°C Display: 6.5" colour TFT

Coin change giver container capacity: 6 tubes of 50 coins each and 2 additional hoppers for 350 coins each.

Note change giver container capacity: 30 pieces Communication interface: Ethernet Proximity reader: RFID 125kHz

ESPAS 30 MANNED PAY STATION SERVER | T | (A)



Complete, reliable and easy-to-use system in a single solution, with incorporated database PC used for cashier operations.

With the JANICA software and the system components, operations including parking time payments, issue and renewal of season tickets and tariff management can be performed immediately



BASIC COMPONENTS

- Personal computer complete with 19" LCD monitor, mouse and keyboard
- Barcode reader with manual laser scanner
 BC/AS interface device for separation to
- RS485 interface device for connection to entry and exit stations
- Network hub for connection to the Espas 30-P automatic pay station

OPTIONAL COMPONENTS

- Receipt printer
- Ticket/pass printer
- Courtesy display
- Counter-top proximity reader for season tickets
- Cash box

SPECIAL VERSIONS

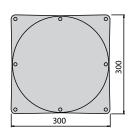
- Espas 30 SERVER: system server without manning functions
- Espas 30 SERVER TE: system server with extended temperature for outdoor installations
- Espas 30 CLIENT MANNED PAY STATION: client pay station function only, without server

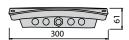




ESPAS TUVA I TIL







The Espas Tuva is a medium range UHF passive tag reading system that can be integrated into espas30 line parking systems.

The Tuva antenna, installed near Espas30-I and Espas30-U entry and exit posts, allows motorists with special adhesive tags on their windscreens to enter and exit the car park quickly, without having to show anything at the post.

OPERATION

The antenna is integrated into the post at each of the transit points to be covered. It points towards the lane:

in this way, as a vehicle equipped with a Tuva Tag associated to a valid season ticket comes near, the gate will open to

Car park users who opt to use this technology do not need to

have an ISO or swipe card to enter or leave the car park, and can go through the transit points in a quick, orderly way.

Season tickets based on Tuva technology can be of all types, using any type of software. They can be renewed either at attended stations or automatic pay stations.

TECHNICAL DATA

Power supply: 12-24 V DC

Consumption: 1A at 12V / 0.5A at 24V Operating frequency: 865-868 MHz / 902-928

material: aluminium and cover in abs ul94 Weight: 750 g

Reading distance: up to 6 m (with the tags supplied)

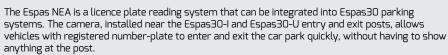
Communication interface: Ethernet Operating temperature: from -30 to +60°C

Protection rating: IP 65 Certifications: CE, FCC

EMC: European directive for EMC 89/336/EEC, EN 301489-1

ESPAS NEA | To | Cable System





The use of the plate does not require specific physical supports, thereby offering maximum flexibility.



237,5

FEATURES

- Plate number printed on the entry ticket of occasional users
- Management of season tickets without cards or other tickets, using the licence plate only
 • Exit authorisation via the licence plate
- associated to a paid ticket
- Flexible management of season tickets, with the possibility to use either transponder cards, UHF TAGs or by reading the licence plate, based on the everyday needs of the customer. The process is transparent for the customer and fully automated
- Increased security through the unequivocal connection of the vehicle to the licence plate
- Allowing access to the car park for vehicles with certain pre-registered license plate numbers
- Possibility of associating different license plate numbers to the same season ticket holder if he/she owns more than one vehicle. This makes the car park access management even more transparent.
- Able to recognise all European and non-European licence plate formats

- The NEA system can be used without entry and exit stations in car parks for season ticket holders only
- The level of reading precision can be set to allow the registration of even relatively worn or dirty licence plates, allowing correspondence or not of some characters

TECHNICAL DATA

Supply voltage: 12 VDC Consumption: 8 W, max. 10 W I/O: Opto-isolated input trigger input: 5 - 12 Vdc Opto-isolated output: output 5 – 24Vdc, 20mA max Serial RS232/S Weight: 1.6 kg Communication interface: Ethernet Operating temperature: -25°C +55°C IP rating: IP 65 Conformity: CE, RoHS, FCC





Warranty Conditions

The warranty on BFT products, except for the parking systems for which specific documentation may be consulted, is valid for 24 months as from the date of purchase/installation, provided this is duly certified by a valid tax document (invoice or receipt) bearing the details of the installed products. On request, a copy of this document must be shown/issued to the authorised service engineers. The warranty conditions cannot be applied in the total or partial absence of this documentation. • Any nonconformity defect must be reported to the seller within two months of the discovery of the said defect, under penalty of forfeiture of the rights stated in Art. 130 para 2 of Legislative Decree 206/05 "Consumer Code" All purchased BFT products can be registered on the site www.bft.it • The warranty consists in restoring materials acknowledged as defective due to irregularities in the production process to their original state of conformity by means of repair or replacement free of charge. "Free of charge" refers to the essential costs required to obtain the conformity of the above goods. Please refer to the appropriate section of the site www.bft. it for further information. • The BFT warranty cannot be applicable if: ● the failure has been caused by a system not installed in accordance with the instructions supplied by the company; ulletcomponents which are not original BFT parts have been used for installing the motorization; • the failures are the result of tampering or improper repairs carried out by unauthorized personnel; • the failures have been caused by improper or careless use; • the causes of the failure are due to external agents such as: electric discharges, tampering including accidental tampering, impacts including accidental impacts, exposure to humidity or vapour, use in extreme environmental or thermic conditions, flooding or other natural disasters. The repair or replacement of the parts during the warranty period shall not involve any extension of the applicable warranty period. No compensation shall be payable for the period during which the faulty system is inactive.

BFT shall not

be responsible for any damages, direct or indirect, caused to persons, things or pets by failure of the product, use for purposes not appropriate to its nature and/or its capacity, use in excess of its capacity limit, and forced suspension in its use. • The BFT network of authorised service engineers is available to support all product service activities. Please refer to the appropriate section of the site www.bft.it for further information and details • Intervention carried out by service engineers under warranty at the installation site is subject to the payment of a call-out charge.

The installer/ Vendor, in turn, guarantees the installation, the related activities (building work, electrical work and metalwork) as well as compliance with the applicable European Directives, • If the end user is also definable as the consumer, the above warranty will be governed in Italy according to the terms of Legislative Decree 206/05 "Consumer Code".

General Conditions of Sale

Definitions • In the interpretation of these General Conditions of Sale, the following terms shall have the meaning specified below: ● a) Vendor: BFT S.p.A.; • b) Purchaser: the purchaser of the Products; ● c) Parties: the Vendor and Purchaser considered jointly; • d) Product / s: the subject-matter of the sale between Purchaser and Vendor, as described in the Contract of Sale: • e) Technical-construction specifications: any document supplied by the Purchaser to the Vendor regarding the technical characteristics of the Product/s; ● f) Contract of Sale: any contract or instrument, including subsequent contract or instrument, or amendment and/or supplement thereof; • g) Order: any communication, made not only in writing but also orally by which the Purchaser declares to the Vendor its intention to purchase one or more products; ● h) Order Confirmation: the form by which the Vendor declares to the Purchaser its intention to sell one or more Products; • i) Instructions for use: the instructions for assembly, operation and maintenance which the Vendor may append to the Product. ● 2. ● b. Application of the General Conditions ● 2.1 These General Conditions apply to all purchases and sales of the Product between Vendor and Purchaser and shall prevail over any conditions of purchase prepared by the Purchaser, even in the absence of specific objections to the application of the same. • 2.2 In the event that an existing trade agreement and / or individual contracts of sale of the Product is/are in force between the Parties, these General

Conditions shall integrate all previous agree-

ments and / or individual contracts of sale of the Product between the Vendor and Purchaser. • Any amendment of or addition to these General Conditions of Sale shall be valid and effective between the Parties only if in writing and signed by the Vendor. ● 3. ● Acceptance of Orders • 3.1 The order constitutes an irrevocable offer of sale by the Vendor which lasts 90 days from the date of its receipt and formalizes the agreements contained in previous negotiations between the parties. • 3.2 The following are the specific requirements of the order: price and payment method; product characteristics; type of packaging; procedures for return; methods of transport; destination; delivery terms and accompanying documentation. ● 3.3 The completion of the order is subject to acceptance by the Vendor, which shall be deemed to occur on transmission of the order confirmation by the Vendor. ● 3.4 An order confirmation shall remain in force for 90 days from its issue, but it shall no longer be valid if it has not been implemented within 180 days. ● 3.5 The aforementioned Orders may be altered only by subsequent agreement in writing. ● 4. ● Delivery ● 4.1 Delivery will generally occur EXWORKS INCOTERMS 2000 ICC - Paris. However, different delivery methods may be agreed by specific agreements of the Parties. • 4.2 All costs and risks, including all insurance obligations, shall be borne by the Purchaser. • 4.3 The terms of delivery should be considered indicative only, non-essential and not binding on the Vendor. The Vendor shall not, however, be liable for late deliveries or for default attributable to force majeure or to causes beyond their control. ● 4.4 Save as otherwise agreed, partial deliveries are allowed. • 4.5 If the Purchaser is aware in advance of his inability to receive the goods, said Purchaser must communicate the reason to the Vendor as well as a reasonable period within which the Purchaser expects to be able to receive said goods. • 4.6 If the Purchaser does not accept the goods at the agreed delivery time, said Purchaser would be required to pay the full amount that would have been payable had the delivery occurred. From the date of the notice of readiness for shipment, to be sent to the Purchaser via email and via fax, the Purchaser shall bear the expenses of storage and potential deterioration and depreciation, subject to the right of Vendor to claim compensation for any greater loss suffered. • 4.7 After 30 days have expired from receipt of the notice of readiness for shipment,

the Vendor shall be entitled to terminate the contract, by special notice to be sent to the Purchaser by registered letter with return receipt, pursuant to art.18 below. ● 5. ● Packaging for transportation ● 5.1 The cost of packaging is included in the price of the Product according to the standard provided for by the Vendor. The Purchaser will be charged for the costs of special packaging requested by him, if feasible. • 5.2. The Vendor reserves the right to determine the type of packaging in accordance with the requirements of transportation, except in the case of specific needs of the Purchaser as specified in the Order. ● 6. ● Price ● 6.1 The Vendor shall apply the price agreed with the Purchaser in the sale contract, which will not include any cost of transportation, insurance, assembly, taxes and customs fees, etc. ● 6.2 Any price increases due to increased production costs based on changes in the prices of raw materials, labour and other costs occurring after the Contract of Sale, must be agreed in writing and specifically approved by both parties. • 6.3 In the event that the price is not indicated in the Contract of Sale, the price normally charged by the Vendor for the Product, according to the current price list, shall be applicable. • 6.4 No complaints or disputes shall in any circumstances entitle the Purchaser to postpone or refuse payment or reduce the price. ● 7. ● Invoicing and payment ● 7.2 The Vendor shall issue an invoice based on the price indicated in the purchase Order Confirmation, in which the payment method will also be specified. • 7.2 If the Purchaser fails to fulfil its obligation to pay the price within the period due, the Vendor shall be entitled to default interest pursuant to Legislative Decree no.231/2002. • 7.3 In the event of persistent late payment by the Purchaser, the Vendor will be entitled to terminate the contract and claim compensation for damages, subject to the provisions of article 11 below. ● 8. ● Product Quality and Warranty of the Vendor • 8.1 All Products supplied by the Vendor are of good quality; they are manufactured, packaged and sold in compliance with the technical-construction specifications provided by the Purchaser. • 8.2. The Vendor warrants, moreover, that the Products comply with the technical specifications contained in the order and/or the technical documentation provided by the Purchaser and is liable only in respect of differences of the Products from the terms specified in the said technical specifications. ● 8.3 The Vendor guarantees that the Products will be in good working order for 24 months from the manufac-

ture date. ● 8.4. The Vendor does not give any warranty in respect of the materials and / or parts of the Products which it does not produce or in respect of any damage caused by uses unknown at the time of the Order or Order Confirmation. ● 8.5 The warranty given by the Vendor is limited to the repair and / or replacement of defective parts based on manufacturing defects or poor quality of materials, excluding parts subject to normal wear and tear and parts no longer available on the market, and also excluding failures caused by overload, inexperience in handling, negligence or failure to follow the instructions provided by the Vendor. The Purchaser shall, subject to the risk of forfeiture of its legal protections herein, inform the Vendor of the flaws and defects discovered in the Products in accordance with article 11 below. ● 8.6. The Vendor shall not be liable for loss, direct or indirect, resulting from the replacement times required for the repair and / or replacement warranted. • 8.7. The Purchaser will lose the warranty given by Vendor in the event that: • it does not perform the operations and / or installations within its competence in accordance with industry standards; ● it performs or ensures the performance by third parties - without prior written consent of the Vendor - of repairs, replacements, modifications or other interventions to the Products during the warranty period; • it does not comply with the directions, procedures for use and information of the Vendor relating to the proper use and regular maintenance of the Products. ● 9. ● Obligations of the Purchaser ● 9.1 The Purchaser must have the facilities and means necessary for the proper use of the Products, and must know their characteristics and have full technological knowledge and capacity for their correct use. • 9.2 The Purchaser shall also, in the implementation of this Contract, comply with and respect all local laws and regulations including best business practices, and shall indemnify the Vendor against any loss, whether direct or indirect, suffered by the Vendor as result of any infringement by the Purchaser of such laws and regulations. 9.3. It is agreed that the Purchaser bears full responsibility for the failure to inform the Vendor about the local laws and regulations in force in the State in which the Product will be used. In such case, any costs incurred for ensuring that the Product complies with the provisions of the laws and regulations of the State in which it is to be used, shall be borne exclusively by the Purchaser. 9.4 If the Purchaser fails to fulfil its obligations under the preceding para-

graphs, it must in all cases: • collect the Products ordered and those being delivered and bear the associated costs of delivery; • make the payments due based on the orders made; • indemnify and continue to indemnify the Vendor against any loss, direct or indirect, suffered by the Vendor as a result of any infringement by the Purchaser of the aforementioned laws and reparations. 10. Faults and complaints ● The following applies in relation to faults and complaints relating to the Product: ● a) complaints relating to generally recognisable faults associated with the Product must be reported in writing, at the risk of forfeiting the right, within 30 (thirty) days from its delivery; in other cases the term of 8 (eight) days shall run from the discovery of the faults in question. In both cases, the complaints must be supported by samples taken during joint consultation with the Vendor or by a person indicated by the same within 40 (forty) days from the presentation of the claim. Complaints about the Product cannot be taken into consideration if they refer to features that are not indicated in the technical Specifications or do not relate to the normal use of the Product. • b) any packaging defects must be reported in writing, at the risk of forfeiture of the right, at the time of delivery. • c) no complaint about the quality and / or integrity of the Product and packaging will be accepted: • ii) if the Purchaser has not made the Product available for the necessary inspections; • 10.2 It is compulsory for the Purchaser to store the Product it believes to be defective in a suitable place available to the Vendor for the necessary investigations and, in any case, to adopt any measures necessary to reduce the risk of further damage to the said Product. ● 10.3 In any case the Purchaser is obliged, from the moment of discovery of the defects, to immediately stop using the Product presumed to be defective, and to take any measures necessary to limit the damage to said Product. • 10.4 If the verification of the goods leads to the discovery of a defect attributable to the manufacturing process, the Vendor shall be required to replace the products deemed unusable 10.5 The Vendor's liability shall be limited to defects attributable to manufacturing defects. ● 10.6 The failure to send complaints or objections within the aforementioned deadlines and/or the use of the Product by the Purchaser despite its discovery of the defects, constitutes unconditional acceptance of the Product as well as waiver of any complaint or objection relating to the same. 11. Obligations of the Purchaser in case of defects and complaints • 11.1 The

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Purchaser shall, without delay and in compliance with the provisions specified in art. 10 above, notify the Vendor of all defects, including apparent defects relating to quality and quantity. Such notification shall be sent by and no later than the deadlines specified in art. 10 above; during this period the Product shall be made available for return to the Vendor, which will provide all the necessary instructions. • 11.2 In case of defects which may cause loss, such notice shall be given immediately. • 11.3 The notification must contain a description of the defect. • 11.4 If such notification is not sent within the deadlines established, the Purchaser will lose the right to replacement/repair of the Product. ● 11.5 In the event that the Purchaser has notified the defects within the relevant time period but no defect is discovered, the Vendor will be entitled to dismiss the complaint. • 11.6 It is compulsory for the Purchaser, at the risk of forfeiting the right to bring a valid complaint, to store the Product it believes to be defective in a suitable place available to the Vendor for the necessary investigations and, in any case, to adopt any measures necessary to reduce the risk of further damage to the said Product. ● 12. Force majeure • 12.1 The Vendor shall not be liable for late delivery or for the non-fulfilment of contractual terms directly or indirectly caused by: • events of force majeure (the following is a non-exhaustive list of such events for purposes of this clause: legal prohibitions, wars, riots, revolutions, strikes or other labour disputes, fires, floods, sabotage, nuclear accidents, earthquakes, storms, epidemics); • circumstances independent of the Vendor's control which prevent the recruitment of manpower or the sourcing of materials, raw materials, components, systems in general, energy, fuel, transport vehicles, licenses or government regulations. • The Vendor shall give prompt written notice of any cessation of force majeure. • 13. Drawings and documents • 13.1 None of the drawings, technical documents, specifications, illustrations and other information related to the Product and its creation which are transmitted by the Vendor may be used, without the express written permission of the said Vendor, save for the purposes for which they were transmitted e.g. for the use, maintenance and marketing of the Product. ullet13.2 The sale of the Product to the Purchaser does not imply - even if intended for distribution or any other form of marketing of the Product - the grant of licences or other rights to trademarks, patents or other intellectual property rights. ● 14. Intellectual property ● 14.1

All information, technical standards, specifications and procedures provided by the Vendor are the sole property of the latter. No trademark license or license to exploit patents or other industrial or intellectual property rights, related to the technical specifications and know-how provided, is granted to the Purchaser by signing this Contract. 14.2 The Purchaser shall, upon termination of the relationship or completion of the contract performance, promptly return to the Vendor all information, documents, specifications owned by the Vendor. ● 15. Confidentiality and confidential information

The Purchaser and Vendor acknowledge that each Party may disclose to the other Party confidential information relating to its own business. Each Party agrees to keep such information confidential and not disclose the contents thereof to any third party, to use such information only for the purposes of the Contract of Sale and to return, following a request of the other Party, any documents received which contain confidential information. ● 16. Safety standards ● Products are manufactured in accordance with Italian safety standards. It is agreed that the Purchaser bears full responsibility for the failure to inform the Vendor about the local laws and regulations in force in the State in which the Product will be used. In such case, any costs incurred for ensuring that the Product complies with the provisions of the laws and regulations of the State in which it is to be used, shall be borne exclusively by the Purchaser. ● 17. Privacy ● Pursuant to Legislative Decree No. 196/2003, the Vendor declares that: a) the Purchaser's data are processed and / or disclosed to third parties (e.g. banks, external consultants, etc.) in accordance with the aforementioned standards and regulations, for the purpose of implementing the contracts; b) the Purchaser is entitled to exercise the rights under Art. 13 of Law No. 675/96 (Annex 1). 1). ● 18. Governing law and jurisdiction ● 18.1 The present General Conditions and the Contracts of Sale related thereto are governed by Italian law. Any disputes arising in relation to the application and interpretation of this document shall be submitted to the exclusive jurisdiction of the Tribunal of the defendant. ● 18.2 Any disputes arising from the application of the General Conditions of sale, or from the interpretation of the individual contracts of sale are governed by Italian law. ● 18.3 The language governing these General Conditions shall be Italian, notwithstanding any translation into another language. In case of inconsistency between the Italian text and the translated text, the Parties agree that the Italian text

shall prevail and will be the official document used to interpret these General Conditions. ● 18.4 The application of the United Nations Convention on the International Sale of Goods (Vienna - 1980 -CISG) is expressly excluded. ● Annex 1 ● INFORMATION CONCERNING THE PRO-CESSING OF PERSONAL DATA(Article 13 of Legislative Decree No. 196 June 30, 2003) ● Pursuant to Article 13 of Legislative Decree 196/2003, which introduced the Consolidated Privacy Law, BFT S.p.A. (the "Company") informs you, in your capacity as interested party, that your personal data ("Data") will be processed as follows: • 1. PURPOSE OF THE PROCESSING • The collection and processing of data is done by the Company for purposes of:

a. supply / sale of products, including on-line; • b. warranty and technical support pre- and post-sale; • c. marketing and advertising; • d. transmission of information and promotional material; • e. personnel selection and recruitment services; • f. statistical analysis for marketing purposes; • g. survey of customer satisfaction; • h. invitations to information or promotional events. • 2. PROCESSING METHODS - DATA PROCESSING OPERAT-ORS • The processing of data for the aforementioned purposes will occur using both automated and non-automated means and in compliance with the rules of confidentiality and security provided for by law. • The data may be processed on behalf of the company by employees, professionals or companies, agents or representatives assigned to perform specific processing services or activities complementary to those of the Company, or necessary for the operations and services of the Company. ● 3. COM-MUNICATION OF DATA • In light of the existence of electronic, IT or postal communications, the Data may be made available abroad, including outside the Member States of the European Union and may be disclosed to: ● 1. company employees not specifically authorized; 2. companies or other entities engaged in outsourcing for the Company. • 4. RIGHTS OF THE INTERESTED PARTY • Art. 7 of Legislative Decree 196/2003 grants the following rights: • to obtain information about the data relating to the interested party; • to obtain confirmation of the existence or otherwise of personal data relating to the interested party and their communication in intelligible form; • to obtain the cancellation or the freezing, or the updating, rectification or supplementation of the said data, as well as a statement that such operations have been brought to

the attention of those to whom the information was communicated; • to oppose, for legitimate reasons, the processing of data; • to oppose processing for commercial or advertising purposes or for purposes of market research. • To exercise these rights please write to BFT S.p.A., Via Lago di Vico, 44 36015 Schio (VI). • 5. DATA CONTROLLER • The Data Controller is BFT S.p.A., Via Lago di Vico, 44 36015 Schio (VI).

General Conditions of Sale and Warranty for parking systems

a. ● Definitions ● In the interpretation of these General Conditions of Sale, the following terms shall have the meaning specified below: ● a) Vendor: BFT S.p.A.; • b) Purchaser: the purchaser of the Products; ● c) Parties: the Vendor and Purchaser considered jointly; ● d) Product / s: the subject-matter of the sale between Purchaser and Vendor, as described in the Contract of Sale: • e) Technical-construction specifications: any document supplied by the Purchaser to the Vendor regarding the technical characteristics of the Product/s; ● f) Contract of Sale: any contract or instrument, including subsequent contract or instrument, or amendment and/or supplement thereof; ● g) Order: any communication, made not only writing but also orally by which the Purchaser declares to the Vendor its intention to purchase one or more products; ● h) Offer or sale proposal: the form by which the Vendor informs the Purchaser of the characteristics of the Product, its sale price, the validity of the offer and the General Conditions of Sale attached; • i) Instructions for use: the instructions for assembly, operation and maintenance which the Vendor may attach to the Product. • b. Application of General Conditions • 2.1 These General Conditions apply to all purchases and sales of the Product between Vendor and Purchaser and shall prevail over any conditions of purchase prepared by the Purchaser. 2.2 In the event that an existing trade agreement and / or individual contracts of sale of the Product is/are in force between the Parties, these General Conditions shall integrate all previous agreements and / or individual contracts of sale of the Product between the Vendor and Purchaser. ● 2.3 The Purchaser acknowledges and accepts these General Conditions of Sale. Any amendment of or addition to these General Conditions of Sale shall be valid and effective between the Parties only if in writing and signed by the Vendor. • 2.4 If one or more provisions of these General Conditions of

Sale is/are cancelled or declared invalid by law, the validity of the remaining provisions shall remain intact. • 3. Conclusion of Contract of Sale ● 3.1 The offer constitutes an irrevocable offer of sale by the Vendor which lasts 30 days and formalizes the agreements contained in previous negotiations between the parties. • 3.2 The offer may be preceded by an inspection conducted by the Vendor at the premises of the Purchaser and includes: price, payment terms, product characteristics, quantity, type of packaging, procedures for returns, methods of transport, destination, delivery terms and accompanying documentation, installation procedures, in addition to the General Conditions of Sale. ● 3.3 The Contract shall be deemed to be completed with the signature and transmission by the Purchaser to the Vendor of the offer and of the General Conditions of Sale. ● 3.4 The offer may be modified only by subsequent written agreement signed by both parties. • 4. Delivery ● 4.1 Delivery will generally occur EXWORKS INCOTERMS 2010 ICC -Paris. However, different delivery methods may be agreed by specific agreements of the Parties. • 4.2 All costs and risks, including all insurance obligations, shall be borne by the Purchaser. • 4.3 The terms of delivery specified in the offer or order confirmation should be considered indicative only, non-essential and not binding on the Vendor. The Vendor shall not, however, be liable for late deliveries or for default attributable to force majeure or to causes beyond their control. • 4.4 In the absence of agreement in writing to the contrary between the Parties, partial deliveries are allowed. • 4.5 If the Purchaser is aware in advance of his inability to receive the goods, said Purchaser must communicate the reason to the Vendor as well as a reasonable period within which the Purchaser expects to be able to receive said goods. ● 4.6 If the Purchaser does not accept the goods at the agreed delivery time, said Purchaser would be required to pay the full amount that would have been payable had the delivery occurred. From the date of the notice of readiness for shipment, to be sent to the Purchaser is via email and via fax, the Purchaser shall bear the expenses for storage and potential deterioration and depreciation, subject to the right of Vendor to claim compensation for any greater loss suffered. • 4.7 After 30 days from receipt of the notice of readiness for shipment, the Vendor shall be entitled to terminate the contract, by special notice to be sent to the Purchaser by registered letter with return receipt, pursuant to art.18 below. In

this case, the Vendor shall be entitled to demand the payment of a penalty amounting to 10% of the value of the order, without prejudice to the Vendor's right to to claim compensation for greater loss suffered. • 5. Packaging for transportation • 5.1 The cost of packaging is included in the price of the Product according to the standard provided for by the Vendor. The Purchaser will be charged for the costs of special packaging requested by him, if feasible. ● 5.2. ● The Vendor reserves the right to determine the type of packaging in accordance with the requirements of transportation, except in the case of specific needs of the Purchaser as specified in the Order. ● 6. Price ● 6.1 The Vendor shall apply the price agreed with the Purchaser in the sale contract, which will not include any cost of transportation, insurance, assembly, taxes and customs fees, etc. (if EXW) • 6.2 Any price increases due to increased production costs based on changes in the prices of raw materials, labor and other costs occurring after the Contract of Sale shall be borne by the Purchaser. 6.3 In the event that the price is not indicated in the Contract of Sale, the price normally charged by the Vendor for the Product, according to the current price list, shall be applicable. • 6.4 No complaints or disputes shall in any circumstances entitled the Purchacser to postpone or refuse payment or reduce the price. ● 7. Invoicing and payment ● 7.1 The Vendor shall invoice on the basis of the price indicated in the preceding Article 6. The methods of payment will also be determined in the sale contract (or in the Order or Order Confirmation or in the Offer). If the Contract of Sale (or the Order or the Order Confirmation or the Offer) do not contain the payment procedures and terms, payment shall be made as to 20% by bank transfer at the time of the Order (or of the signature of the Offer and of the General Conditions of Sale) and the remaining 80% shall be paid 60 days from the date of delivery. • 7.2 If the Purchaser fails to fulfill its obligation to pay the price within the period due, the Vendor shall be entitled to default interest pursuant to Legislative Decree n.231/2002. ● 7.3 In the event of persistent late payment by the Purchaser, the Vendor will be entitled to terminate the contract and claim compensation for damages, subject to the provisions of article 11 below. • 7.4 In the event of staggered deliveries, failure to pay at the deadlines agreed for the individual supplies shall entitle the Vendor to suspend further deliveries until payment of the balance due. • 8. Product Quality and Warranty of the Vendor

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8.1 All Products supplied by the Vendor are of good quality; they are manufactured, packaged and sold in compliance with the technical-construction specifications provided by the Purchaser.

8.2. The Vendor is responsible only for Product differences based on the aforementioned technical specifications. 8.3 The Vendor guarantees the proper functioning of the products for 12 months from the date of installation and testing, certified by appropriate record/ declaration, dated and signed. Longer warranty periods may be established by agreement of the parties, but they shall not exceed 18 months from the invoice date of the Product. • 8.4. The Vendor does not give any warranty in respect of the materials and / or parts of the Products which it does not produce or in respect of any damage caused by uses unknown at the time of the Order or Order Confirmation (or Acceptance of the Offer). • 8.5 The warranty given by the Vendor is limited to the repair and / or replacement of defective parts based on manufacturing defects or poor quality of materials, excluding parts subject to normal wear and tear and parts no longer available on the market, and also excluding failures caused by overload, inexperience in handling, negligence or failure to follow the instructions provided by the Vendor. The Purchaser shall, subject to the risk of forfeiture of its legal protections herein, inform the Vendor of the vices and defects discovered in the Products in accordance with article 11 below. ● 8.6. The Vendor shall not be liable for loss, direct or indirect, resulting from the replacement times required for the repair and / or replacement warranted. 8.7. The Purchaser will lose the warranty given by Vendor in the event that: it does not perform the installation and testing within 3 months after delivery of the Product; ● it does not accept that the installation and testing should be carried out by technicians / installers sent directly by the Vendor or it directly organises the installation itself, without the prior written consent of the Vendor; it does not perform the operations and / or installations within its competence in accordance with industry standards; ● it performs or ensures the performance by third parties - without prior written consent of the Vendor - of repairs, replacements, modifications or other interventions to the Products during the warranty period; • it does not observe the directions, procedures for use and information of the Vendor relating to the proper use and regular maintenance of the Products. ● 8.8. In case of installation and testing performed by third parties and not specifically authorized by the Vendor as provided for by art. 8.7, first paragraph, the warranty will cover only the Product in its original configuration, including any ancillary equipment. • 9. Obligations of the Purchaser ● 9.1 The Purchaser must have the facilities and means necessary for the proper use of the Products, and must know their characteristics and have full technological knowledge and capacity, in accordance with the instructions for use, with which it guarantees compliance. ● 9.2 The Purchaser must ensure that the relevant systems and areas are in compliance with the requirements specified by the Vendor prior to the installation of the Products. • 9.3 It is agreed that the Vendor will be responsible for the installation and testing of the Products, unless otherwise agreed in writing between the Parties. To this end, the Vendor will provide the Purchaser which the technical advice necessary for completion of these operations and will dispatch technicians / installers directly, and the Purchaser will facilitate their work of installation and testing in the zones referred to in Article 9.2 in any possible manner. • 9.4 The Purchaser shall also, in the implementation of this Contract, comply with and respect all local laws and regulations including best business practices, and shall indemnify the Vendor against any loss, whether direct or indirect, suffered by the Vendor as result of any infringement by the Purchaser of such laws and regulations. • 9.5. It is agreed that the Purchaser bears full responsibility for the failure to inform the Vendor about the local laws and regulations in force in the State in which the Product will be used. In such case, any costs incurred for ensuring that the Product complies with the provisions of the laws and regulations of the State in which it is to be used, shall be borne exclusively by the Purchaser. 9.6 If the Purchaser fails to fulfil its obligations under the preceding paragraphs, it must in all cases: ● collect the Products ordered and those being delivered and bear the associated costs of delivery; • make the payments due based on the orders made; ● indemnify and continue to indemnify the Vendor against any loss, direct or indirect, suffered by the Vendor as a result of any infringement by the Purchaser of the aforementioned laws and reparations. 10. Faults and complaints ● The following applies in relation to faults and complaints relating to the Product: ● a) complaints relating to generally recognisable faults associated with the Product must be reported in writing, at the risk of forfeiting the right, within 30 (thirty) days from its delivery; in other cases the term

of 8 (eight) days shall run from the discovery

of the faults in question. In both cases, the complaints must be supported by samples taken during joint consultation with the Vendor or by a person indicated by the same within 40 (forty) days from the presentation of the claim. • Complaints about the Product cannot be taken into consideration if they refer to features that are not indicated in the technical Specifications or do not relate to the normal use of the Product or if the Product has not been installed in accordance with industry standards and inspected by technicians / installers dispatched directly and / or indicated and / or approved by the Vendor. • If the installation and testing have been carried out in accordance with Art. 8.8, complaints about products that are not in their original configuration cannot be taken into consideration, including any equipment which is ancillary and excluded from the guarantee under the letters a) b) and c). ● b) any packaging defects must be reported in writing, at the risk of forfeiture of the right, at the time of delivery. ● c) no complaint about the quality and / or integrity of the Product and packaging will be accepted: • i) in case of evident defect, if the Purchaser has not confirmed this in writing at the time of delivery, or ● ii) if the Purchaser has not made the Product available for the necessary inspections; ● iii) if the Product has been installed and tested in accordance with industrial standards by technicians / installers dispatched directly and / or indicated and / or approved by the Vendor, or installed pursuant to art. 8.8, the Product is not in its original configuration and / or the warranty is excluded on the basis of letter a) b) and c). \bullet 10.2 It is compulsory for the Purchaser to store the Product it believes to be defective in a suitable place available to the Vendor for the necessary investigations and, in any case, to adopt any measures necessary to reduce the risk of further damage to the said Product. ● 10.3 In any case the Purchaser is obliged, from the moment of discovery of the defects, to immediately stop using the Product presumed to be defective, and to take any measures necessary to limit the damage to said Product. ● 10.4 If the verification of the goods leads to the discovery of a defect attributable to the manufacturing process, the Vendor's obligation will be limited to replacing the products deemed unusable, without being obliged to pay compensation for any direct / indirect loss or expenses of whatever nature or cause, subject to the intervention procedures provided for in art. 11.1. ● 10.5

The Vendor's liability shall be limited to defects attributable to manufacturing defects. ● 10.6 The failure to send complaints or objections within aforementioned deadlines and/or the use of the Product by the Purchaser despite its discovery of the defects, constitutes unconditional acceptance of the Product as well as waiver of any complaint or objection relating to the same. • 11. Obligations of the Purchaser in case of defects and complaints • 11.1 The Purchaser shall, without delay and in compliance with the provisions specified in art. 10 above, notify the Vendor of all defects, including apparent defects relating to quality and quantity. Such notification shall be sent by and no later than the deadlines specified in art. 10 above; during this period the Product shall be made available for return to the Vendor, which will provide all the necessary instructions, and within 24 hours if the intervention can be managed through customer support or within 48 hours if the intervention involves the dispatch of an agent of the Vendor; the Purchaser is aware that any intervention will occur from Monday to Friday during the following hours: 8.00 -12.00 and 14.00 -18.00 ● 11.2 In case of defects which may cause loss, such notice shall be given immediately. • 11.3 The notification must contain a description of the defect. ● 11.4 If such notification is not sent within the deadlines established, without prejudice to the provisions concerning the proper installation of the Product, the Purchaser will lose the right to replacement/repair of the Product. 11.5 In the event that the Purchaser has notified the defects within the relevant time period but no defect is discovered, the Vendor will be entitled to dismiss the complaint. • 11.6 Unless otherwise agreed between the Parties, the Purchaser shall be responsible for covering all transport and import costs / duties relating to the return of the defective products . ● 11.7 In any event the Purchaser is obliged, at the risk of forfeiting the right to bring a valid complaint, to store the Product deemed to be effective in accordance with the provisions of art. 10.2. ● 12. Retention of title ● 12.1 The Product shall remain the property of the Vendor until such time as the price has been paid in full. • 12.2 The Purchaser, at the Vendor's request, shall provide assistance to the latter in a manner that enables the Vendor to reserve ownership in accordance with the layout of the place in question. The reservation of title will not in any way affect the transfer of risk. • 12.3 Until full payment of the Product, the Purchaser will

be considered simply to have possession thereof and therefore the Purchaser must keep it in perfect condition, as required by Article 1768 of Italian Civil Code. ● 12.4 It is agreed that the Vendor will be entitled to perform a retention of title to the Product if the price has not been paid in full after one year has elapsed from delivery of the Product. 13. Responsibility of the Purchaser ● 13.1 The Vendor shall not be liable for loss to third parties and / or products caused by the Purchaser. • 13.2 The Purchaser shall indemnify the Vendor in the event that the Vendor incurs liability as described above with respect to third parties. • 13.3 In the event that a third party claims loss to one of the parties, the party involved must give immediate written notice thereof to the other ● 14. Force majeure • 14.1 The Vendor shall not be liable for late delivery or for the non-fulfilment of contractual terms directly or indirectly caused by: ● events of force majeure (the following is a non-exhaustive list of such events for purposes of this clause: legal prohibitions, wars, riots, revolutions, strikes or other labour disputes, fires, floods, sabotage, nuclear accidents, earthquakes, storms, epidemics); • circumstances independent of the Vendor's control which prevent the recruitment of manpower or the sourcing of materials, raw materials, components, systems in general, energy, fuel, transport vehicles, licenses or government regulations. • The Vendor shall give prompt written notice of any cessation of force majeure. ● 14.2 In the event that an event of force majeure prevents the Purchaser from carrying out its obligations, it shall indemnify the Vendor for the costs incurred for insurance and storage of the Product. ● 15. Drawings and documents ● 15.1 None of the drawings, technical documents, specifications, illustrations and other information related to the Product and its creation which are transmitted by the Vendor may be used, without the express written permission of the said Vendor, save for the purposes for which they were transmitted e.g. for the use, main tenance and marketing of the Product. 15.2 The sale of the Product to the Purchaser does not imply - even if intended for distribution or any other form of marketing of the Product - the grant of licences or other rights to trademarks, patents or other intellectual property rights. ● 16. Intellectual property ● 16.1 All information, technical standards, specifications and procedures provided by the Vendor are the sole property of the latter. No trademark license or license to exploit patents or other industrial or intellectual property rights, re-

lated to the technical specifications and know-how provided, is granted to the Purchaser by signing this Contract. 16.2 The Purchaser shall, upon termination of the relationship or completion of the contract performance, promptly return to the Vendor all information, documents, specifications owned by the Vendor. ● 17. Confidentiality and confidential information • The Purchaser and Vendor acknowledge that each Party may disclose to the other Party confidential information relating to its business. Each Party agrees to keep such information confidential and not disclose the contents thereof to any third party, to use such information only for the purposes of the sale Contract and to return, following a request of the other Party, any documents received which contain confidential information. • This obligation of confidentiality is extended to the representatives, consultants, assistants, supervisors and third parties assigned by the Parties during the implementation of the Contract. • 18. Express termination clause and penalty • 18.1. Pursuant to art. 1456 Civil Code, the Contract of sale will be cancelled, subject to a declaration to this effect by the Vendor if the Purchaser: • fails to make a payment; • has not accepted the Products after 30 days have elapsed from the posting of the notice of readiness for shipment; • if the technical-construction specifications provided by the Purchaser are not suitable /adequate and / or not in compliance with the regulations in force. ● 18.2 In the event of rescission of the Contract pursuant to art. 18.1, the Purchaser will be required to pay a penalty equal to 10% of the sale price agreed, to be paid within 7 days of receipt of the declaration of rescission by the Vendor, without prejudice to the latter's right to claim compensation for greater loss. • 19. Safety standards • Products are manufactured in accordance with Italian safety standards. It is agreed that the Purchaser bears full responsibility for the failure to inform the Vendor about the local laws and regulations in force in the State in which the Product will be used. In such case, any costs incurred for ensuring that the Product complies with the provisions of the laws and regulations of the State in which it is to be used, shall be borne exclusively by the Purchaser. • 20. Installation and start-up • The installation and start-up of the products sold is regulated and governed in accordance with the provisions of Annex 2 to these General Conditions, which constitutes an integral part of the latter; therefore the knowledge and acceptance of these General Conditions also implies the know-

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ledge and acceptance of the provisions of the said Annex. ● 21. Privacy ● Pursuant to Legislative Decree No. 196/2003, the Vendor declares that: a) the Purchaser's data are processed and / or disclosed to third parties (e.g. banks, external consultants, etc.) in accordance with the aforementioned standards and regulations, for the purpose of implementing the contracts; b) the Vendor, located in Via Armentera 8, 38051 Borgo Valsugana (TN) is the Data Controller; c) the Purchaser is entitled to exercise the rights under Art. 7 or 13? of Law No. 675/96 (Annex 1) 1). ■ 22. Governing law and language ● 22.1 All matters not regulated by the General Conditions of sale or the individual contracts of sale are governed by Italian law. ● 22.2 Any disputes arising from the application of the General Conditions of sale, or from the interpretation thereof or of the individual contracts of sale, are governed by Italian law. ● 22.3 The language governing these General Conditions shall be Italian. notwithstanding any translation into another language. In case of inconsistency between the Italian text and the translated text, the Parties agree that the Italian text shall prevail and will be the official document used to interpret these General Conditions. ● 22.4 The application of the United Nations Convention on the International Sale of Goods (Vienna - 1980 - CISG) is expressly excluded. ● 23. Court of Competent Jurisdiction • Any disputes arising in relation to the Contract of sale, including those related to its validity, interpretation, implementation and termination, shall be referred to the exclusive jurisdiction of the Court of Trento. ● Annex 1 ● IN-FORMATION CONCERNING THE PRO-CESSING OF PERSONAL DATA(Article 13 of Legislative Decree No. 196 June 30, 2003) ● Pursuant to Article. 13 of Legislative Decree 196/2003, which introduced the Consolidated Privacy Law, BFT S.p.A. (the "Company") informs you, in your capacity as interested party, that your personal data ("Data") will be processed as follows: • 1. PURPOSE OF THE PROCESSING ● The collection and processing of data is done by the Company for purposes of:

a. supply / sale of products, including on-line; • b. warranty and technical support pre- and post-sale; • c. marketing and advertising; • d. transmission of information and promotional material; • e. personnel selection and recruitment services; f. statistical analysis for marketing purposes; ● g. survey of customer satisfaction; • h. invitations to information or promotional events. • 2. PROCESSING METHODS - DATA PROCESSING OPERAT-ORS • The processing of data for the

aforementioned purposes will occur using both automated and non-automated means and in compliance with the rules of confidentiality and security provided for by law. • The data may be processed on behalf of the company by employees, professionals or companies, agents or representatives assigned to perform specific processing services or activities complementary to those of the Company, such as promotion and marketing of the Product, also using photographs of the products supplied / sold after installation, or necessary for the operations and services of the Company. ● 3. COMMUNICATION OF DATA ● In light of the existence of electronic, IT or postal communications, the Data may be made available abroad, including outside the Member States of the European Union and may be disclosed to: ● 1. company employees not specifically authorized; 2. companies or other entities engaged in outsourcing for the Company; \bullet 3. agents and representatives; • 4. third party purchasers of the Product. • 4. RIGHTS OF THE INTERESTED PARTY • Art. 7 of Legislative Decree 196/2003 grants the following rights: • to obtain information about the data relating to the interested party; • to obtain confirmation of the existence or otherwise of personal data relating to the interested party and their communication in intelligible form; • to obtain the cancellation or the freezing, or the updating, rectification or supplementation of the said data, as well as a statement that such operations have been brought to the attention of those to whom the information was communicated; • to oppose, for legitimate reasons, the processing of data; ● to oppose processing for commercial or advertising purposes or for purposes of market research. To exercise these rights please write to BFT S.p.A., Via Armentera 8, 38051 Borgo Valsugana (TN) ● 5. DATA CON-TROLLER • The Data Controller is BFT S.p.A., Via Armentera 8, 38051 Borgo Valsugana (TN) ● Annex 2 ● CONDI-TIONS OF INSTALLATION AND START-UP (Start-Up)■ The following is a description of the activities to be performed: • control of suitability of trigger voltage using suitable tester (230 Volt, 115 Volt). ● connection and turning on of apparatus using any programming and customizations if included in the offer (within the technical limitations of the equipment). • verification of operation of data lines and connections to terminals. • control of value of induction in coils (e.g. 200 uH high sensitivity coils). setting of detector coils if part of the supply, and testing of metallic masses within fixed limits. • functional test of

system (see service manual) • explanation

of operation of equipment (see service manual). • explanation of parts subject to wear and tear and spare parts with introduction to the primary maintenance for maintaining the equipment in a state of efficiency. (see service manual). • issue of test certificate using the "test certificate" form.

The testing must be done in the presence of personnel authorized and / or delegated by the customer; in the absence of such authorized and / or delegated personnel, the test shall be deemed not to have been carried out, without prejudice to the express written agreement of the parties. • If at the end of the test the person delegated is not present or refuses to sign off on the test, the said test shall be deemed invalid and to be repeated at a later date to be agreed between the parties, with full invoicing of the same, save in the case of obvious malfunctions of the system attributable to the supply of the material relating to the offer. • Below is a list of activities deemed to be excluded and therefore not the responsibility of our Company: • supply and preparation of cables, construction works, civil and plant engineering works. • resolution of any problems caused by incorrect laying of cables, tampering or use of cables / equipment not recommended by the Head Office. ● The start-up is dependent on the correct application of the specifications as laid down and communicated: in the event that these are not consistent with the guidelines of the Head Office, the start-up will have to be performed at a later date and must be invoiced again, save as otherwise agreed in writing. ● Annex 3 ● Warranty Conditions • Work carried out under warranty is performed following via fax / mail or telephone communication by the customer within the following three working days. • In the event that, following intervention to the system, the warranty conditions are not met due to incorrect use of the system or part thereof, BFT S.p.A. reserves the right to charge the customer the cost for the intervention and travel expenses amounting to Euro 800 per working day employed. ● In the event that, following a customer support intervention, defects are found which result from incorrect use of the system (e.g. viruses, installed programs not part of the original installation, configuration file changes, etc.), BFT S.p.A. reserves the right to charge intervention costs of Euro 50 / hour.







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FRANCE

AUTOMATISMES BFT FRANCE SA

FRANCE

BFT SUD EST SARL

GERMANY

BFT ANTRIEBSSYSTEME GMBH

UNITED KINGDOM

BFT AUTOMATION UK LTD

UNITED KINGDOM

BFT AUTOMATION (SOUTH)

LDT

IRELAND

BFT AUTOMATION LTD

BELGIUM

BFT BENELUX SA

POLAND

BFT POLSKA SP. Z O.O.

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BFT-ADRIA D.O.O.

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BFT SA-COMERCIO DE AUTOMATISMOS E MATERIAL DE SEGURANÇA

CZECH REPUBLIC

BFT CZ S.R.O.

TURKEY

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