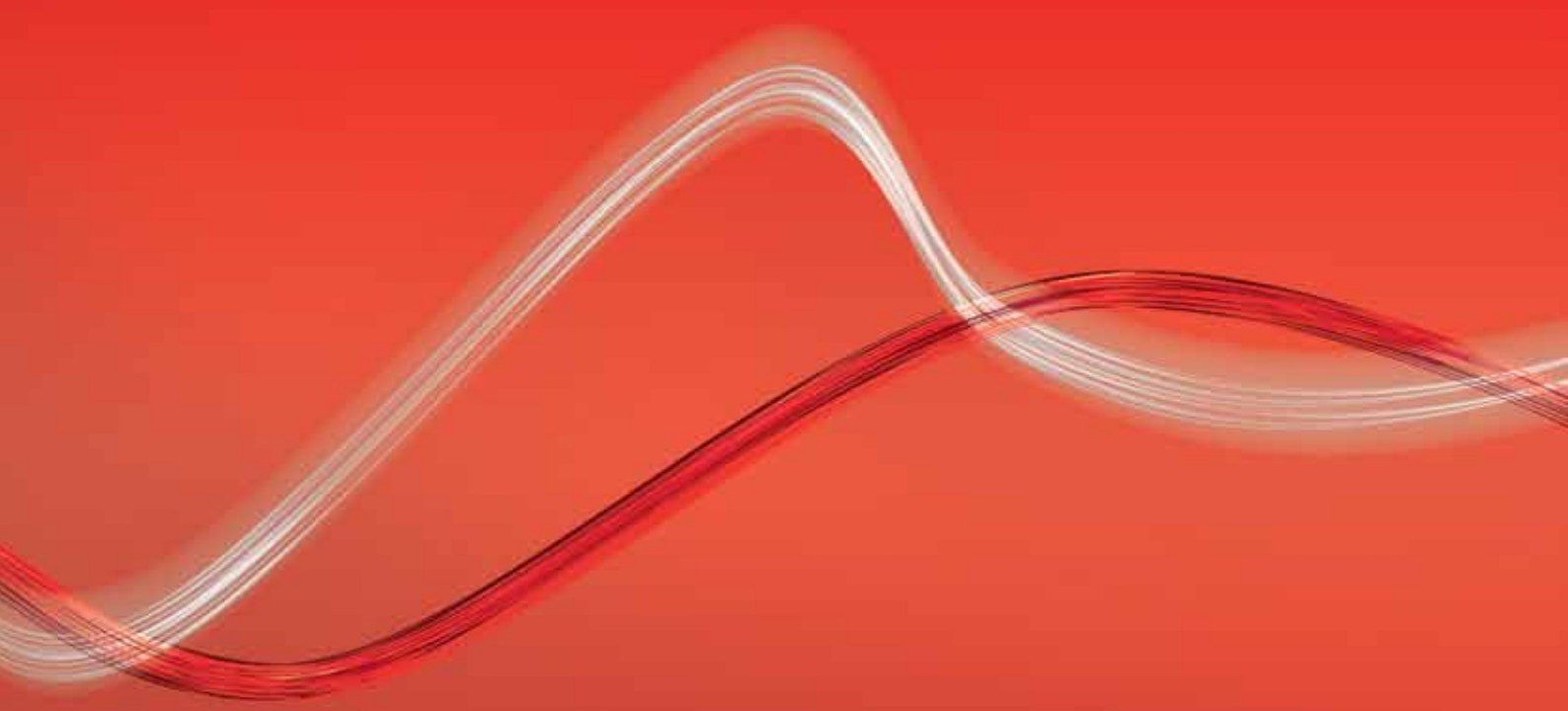


Catalogue 2019/2020



Be ahead

From 1967 to date:

fifty years of Bft solutions.



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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year	2019/2020	
country	international	
language	english	

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

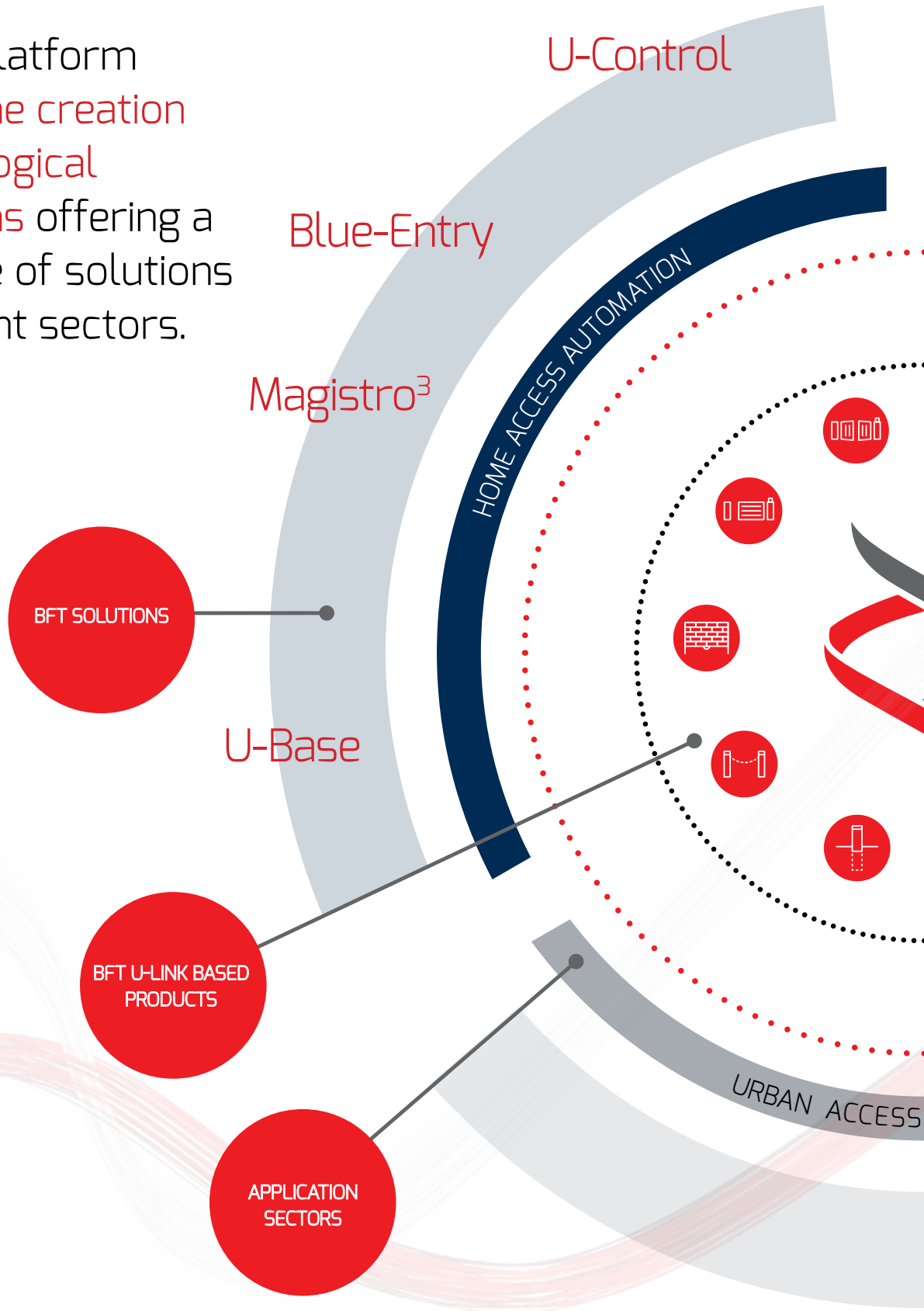




Empowered by
U-LINK

All in

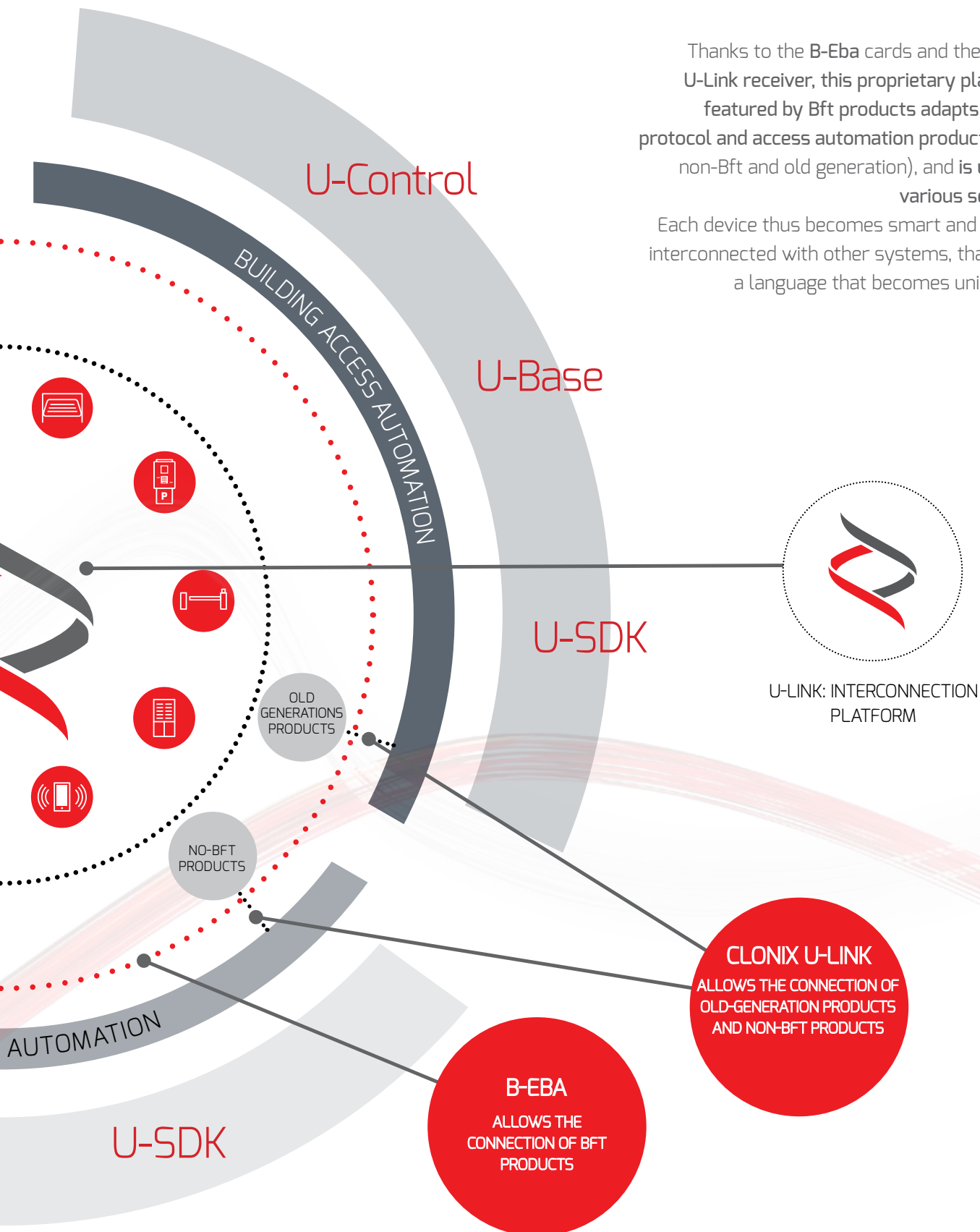
A unique platform
allowing the creation
of technological
ecosystems offering a
wide range of solutions
for different sectors.



one scheme: discover this amazing technology

Thanks to the B-Eba cards and the Clonix U-Link receiver, this proprietary platform featured by Bft products adapts to any protocol and access automation product (even non-Bft and old generation), and is used in various sectors.

Each device thus becomes smart and can be interconnected with other systems, thanks to a language that becomes universal.



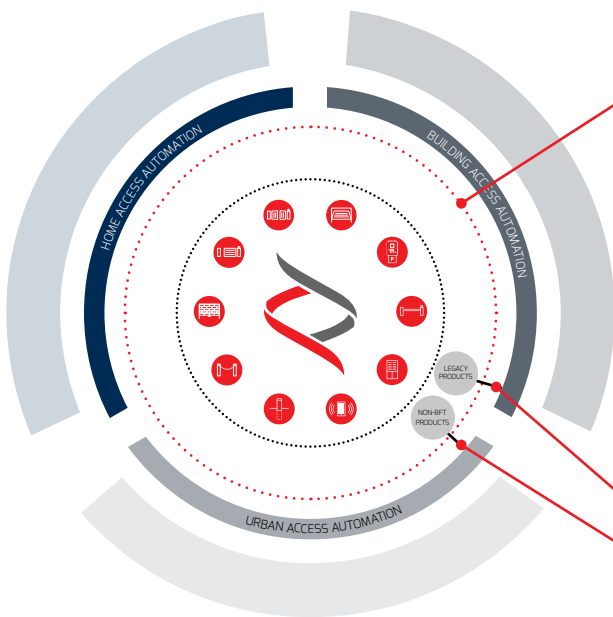


Empowered by
U-LINK

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.



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 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.



B-EBA

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.

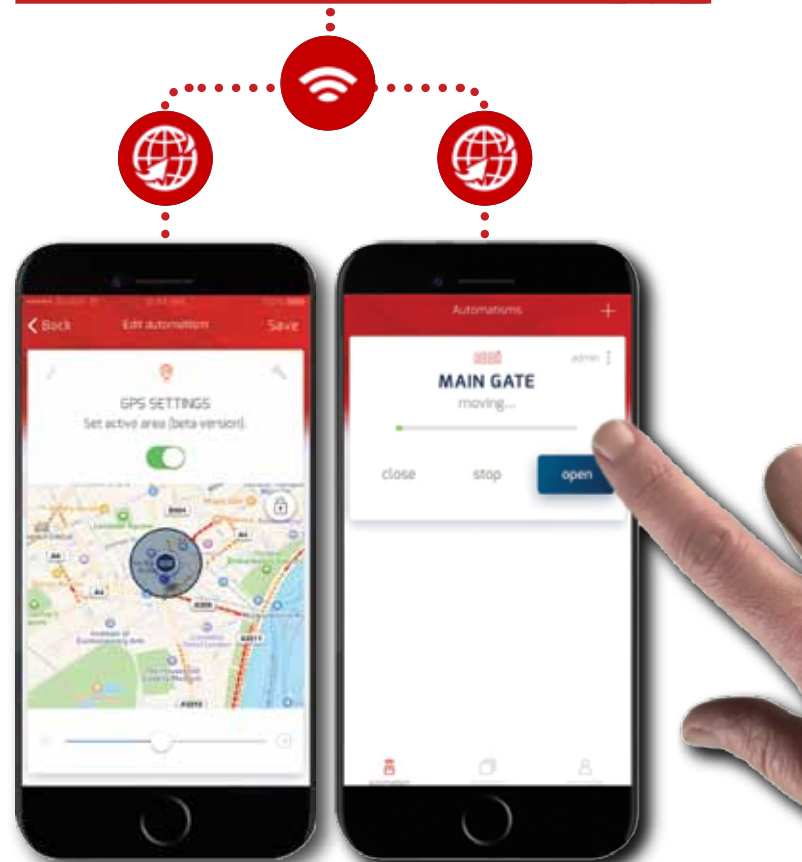
Clonix receivers make it possible to connect older generation BFT operators or even non-BFT products to U-Link.

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.



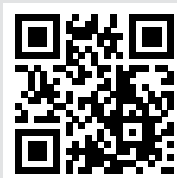
- Via an internet connection, the user can open/close/stop an automated process directly from a smartphone or tablet (Android or iOS) and check on its status (open/closed) in real time from any location.
- Control access from almost anywhere for example, open or close your gates to allow access to a 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:



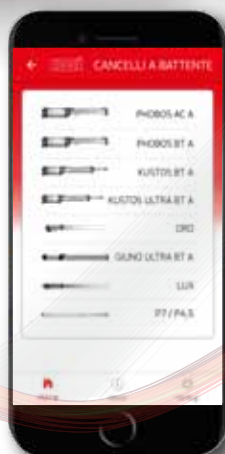
With **Bft Easy Set** the installation of an automation system for swing gates has never been easier!



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.



U-Link

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 micro-processor 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.



Block

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.



Encoder

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.



tri

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.



Easy

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.



IWA CERTIFICATION

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 is 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 windshields 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”, 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.



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

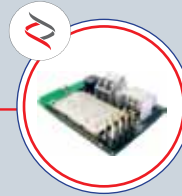


The remote control for sliding operators with U-link? A smartphone.

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



DEIMOS ULTRA BT A400



B-EBA



SMARTPHONE

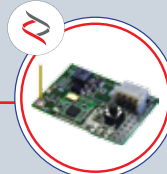


Interconnectivity on hand for U-link operators.

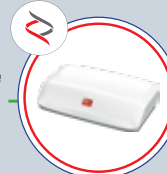
With the Magistro system every device can be controlled via PC, tablet or smartphone, from inside the home and remotely.



DEIMOS ULTRA BT A



B-EBA Z-WAVE



MAGISTRO BRAIN

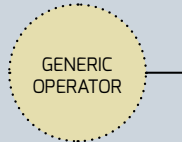


MOBILE DEVICE



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

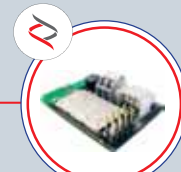
Technology abreast of the times and attentive to daily needs: thanks to the use of U-link technology the house gate can now be opened with just your smartphone.



GENERIC OPERATOR



CLONIX AC E U-LINK



B-EBA



SMARTPHONE



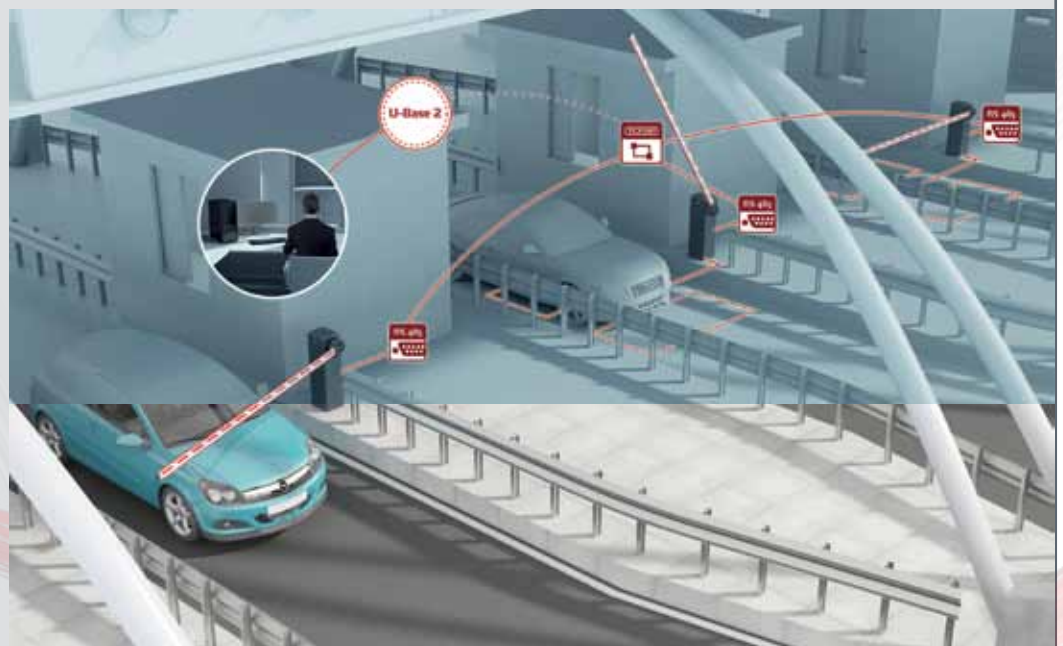
Motorway toll-gate - A boom that withstands impacts

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.

ADVANTAGES

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



IDENTIFIED SYSTEM



1x U-BASE 2



1x B-EBA TCP/IP



3x B-EBA 485



3x Maxima Ultra 35



3x OMEGA ATM FRA U35



3x ATM30



3x RME2



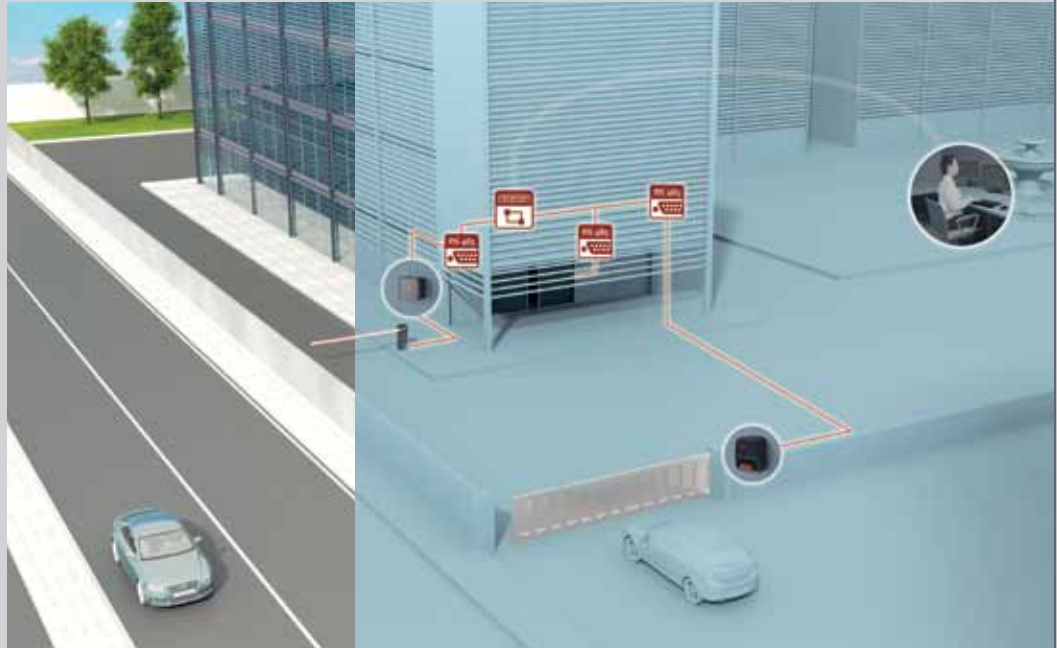
6x Safety Loops

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

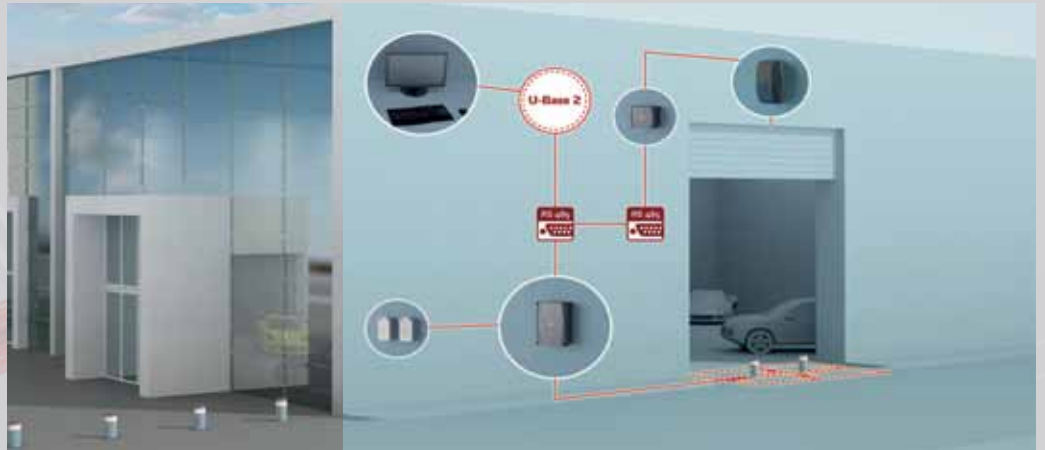
- Transmission speed and stability.
- Maximum security in the transmission of commands.
- Sending commands, status checking, diagnosis, programming, remote troubleshooting.

IDENTIFIED SYSTEM



Centralised control of workshop access

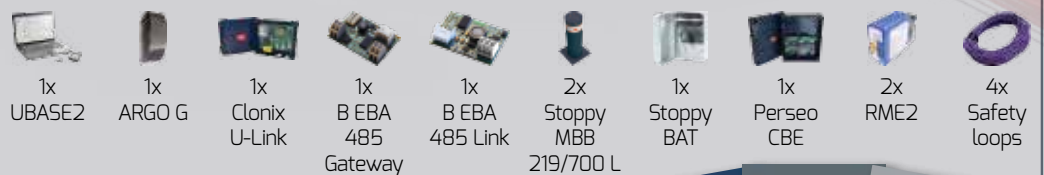
With the new Clonix ULink, any automation device can easily be included in a serial network with 485 connection, controlled from a PC and U-Base software. In this way, access to the dealer's workshop is easily managed from a centralised station, controlling both the opening of sectional doors and the 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.



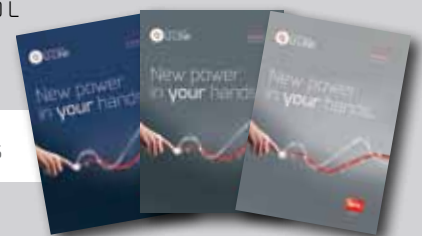
✓ ADVANTAGES

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

IDENTIFIED SYSTEM



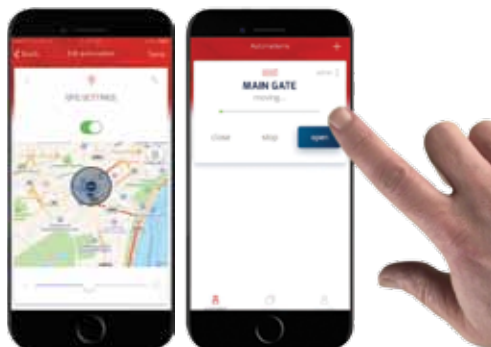
visit www.bft-automation.com for more information about Home, Building and Urban catalogs



Bft, cutting-edge products

New

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 A

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.

ICARO ULTRA AC A



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 with the current European standards.

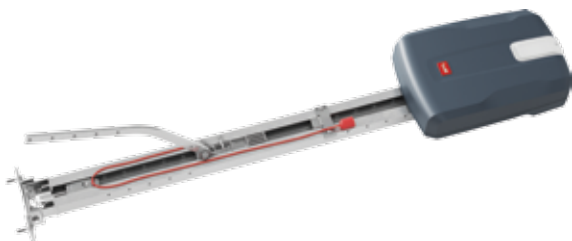
VIRGO SMART BT A



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 stops.

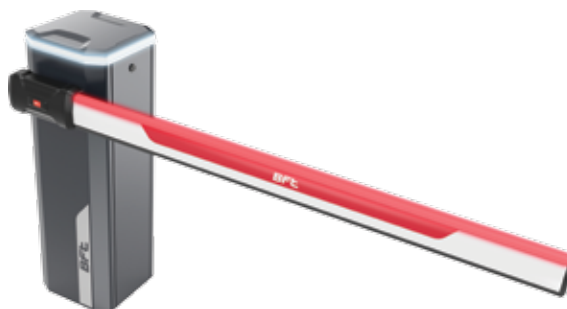
BOTTICELLI SMART BT A



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



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 A
Dip 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 operators

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



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 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 IOS smartphones.

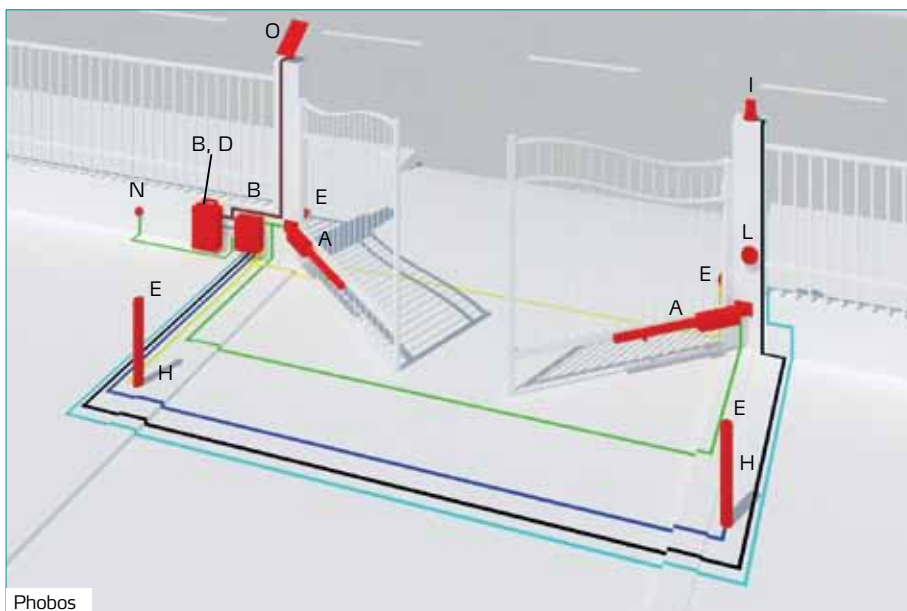


Electromechanical automation systems for swing gates

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	
electromechanically operated swing gates								
2 m	150 kg	110 °	24 V	intensive	-	HIDE SW	Absolute encoder limit switch	
		116 °			-	PHOBOS BT A25	Magnetic limit switch	
2.5 m	400 kg	118 °			●	PHOBOS BT KIT A25 FRA	Magnetic limit switch	
					-	KUSTOS BT A25	Covered worm screw Magnetic limit switch	
		120 °			●	KUSTOS BT KIT A25 FRA	Covered worm screw Magnetic limit switch	
					-	KUSTOS ULTRA BT A25	Covered worm screw Magnetic limit switch	
					●	KUSTOS ULTRA BT KIT A25 FRA	Covered worm screw Magnetic limit switch	
					-	PHOBOS AC A25	Working time limit switch	
700 kg	110 °	230 V			Semi intensive	●	PHOBOS AC KIT A25 FRA	Working time limit switch
						-	PHOBOS AC A25 120V	Working time limit switch
4 m	400 kg	124 °	24 V	intensive	-	ATHOS AC A25 AR		
					-	ATHOS AC A25 AL		
	●				ATHOS AC KIT A25 EU			
	-				ATHOS AC A40 AR			
	-				ATHOS AC A40 AL			
	●				ATHOS AC KIT A40 EU			
	500 kg				126 °	-	PHOBOS BT A40	Magnetic limit switch
						●	PHOBOS BT KIT A40 FRA	Magnetic limit switch
						-	KUSTOS BT A40	Covered worm screw Magnetic limit switch
						●	KUSTOS BT KIT A40 FRA	Covered worm screw Magnetic limit switch
-		KUSTOS ULTRA BT A40	Covered worm screw Magnetic limit switch					
●		KUSTOS ULTRA BT KIT A40 FRA	Covered worm screw Magnetic limit switch					
5 m	129 °	120 V	Semi intensive	-	PHOBOS AC A50 120	Working time limit switch		
		230 V		-	PHOBOS AC A50	Working time limit switch		
electromechanical swing operators with articulated arm								
1.8 m	200 kg	130 °	120 V	NoSet	-	E5 120	work time limit switch	
			230 V		-	E5 N	work time limit switch	
2 m	200 kg	120 °	24 V	Semi intensive	-	VIRGO SMART BT A 20	Limit switch Electromechanical	
					-	VIRGO SMART BT A 20 SLAVE	Limit switch Electromechanical	
2.5 m	250 kg	125 °	24 V	intensive	●	VIRGO SMART BT A 20 KIT INT	Limit switch ---	
					-	IGEA BT	Limit switch Electromechanical	
			230 V		●	IGEA BT KIT FRA THALIA	Limit switch ---	
					-	IGEA	Limit switch Electromechanical	
●	IGEA KIT FRA	Limit switch ---						
swing gates with underground electromechanical operator								
2 m	150 kg	120 °	120 V	Semi intensive	-	ELI 250 N V 120	work time limit switch	
			230 V		-	ELI 250 N V	work time limit switch	
3.5 m	300 kg		24 V	intensive	-	ELI 250 N	work time limit switch	
	400 kg				-	ELI 250 N BT	Limit switch Magnetic	

Installation guide



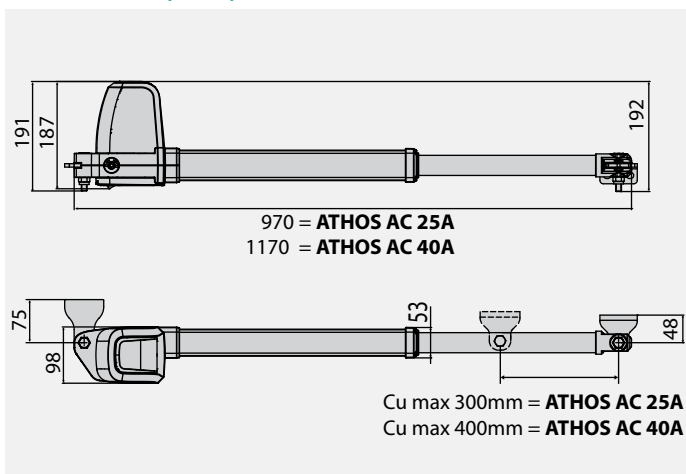
Phobos

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



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.

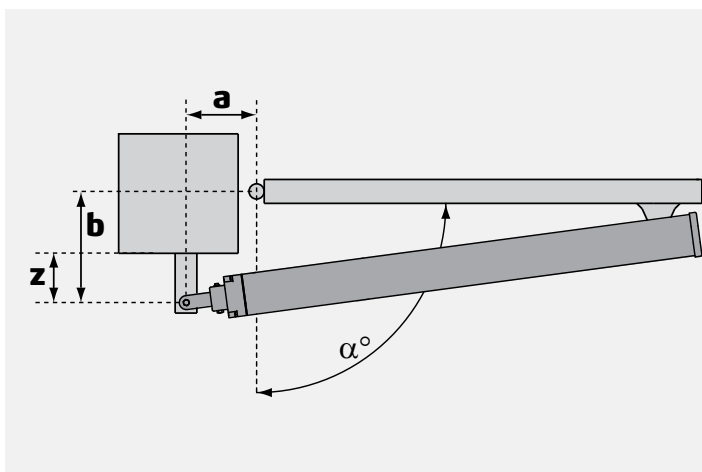
Dimension (mm)



INSTALLATION DIMENSIONS

		ATHOS AC 25A														
z > 60 (mm)	a (mm)	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220
		80	90	95	100	105	110	115	119	120	115	110	106	102	99	96
accorciare staffa posteriore / shorten back bracket / raccourcir l'étrier postérieur / acortar la abrazadera trasera		90	98	100	102	106	110	116	114	110	106	102	99	96	94	
accorciare staffa posteriore / shorten back bracket / raccourcir l'étrier postérieur / acortar la abrazadera trasera		100	90	99	105	105	109	113	116	112	106	101	99	95	93	
accorciare staffa posteriore / shorten back bracket / raccourcir l'étrier postérieur / acortar la abrazadera trasera		110	90	97	103	104	108	112	114	107	102	99	95	93		
b (mm)	120	90	95	102	104	107	110	109	102	99	95	92				
	130	90	94	101	103	106	109	105	98	95	91					
b (mm)	140	90	93	100	102	105	103	98	94	91						
	150	90	92	99	101	104	98	94	90							
b (mm)	160	90	92	98	100	99	93	90								
	170	90	92	97	96	92										
b (mm)	180	90	92	96	91											
	190	90	92	91												
b (mm)	200	90	90													
																α°

		ATHOS AC 40A																	
z > 60 (mm)	a (mm)	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	
		80	90	95	100	105	110	115	119	120	124	125	129	130	132	127	122	117	113
accorciare staffa posteriore / shorten back bracket / raccourcir l'étrier postérieur / acortar la abrazadera trasera		90	98	100	102	106	110	116	119	122	125	129	132	131	124	118	114	110	
accorciare staffa posteriore / shorten back bracket / raccourcir l'étrier postérieur / acortar la abrazadera trasera		100	90	99	105	105	109	113	116	118	120	123	125	128	127	120	115	110	108
accorciare staffa posteriore / shorten back bracket / raccourcir l'étrier postérieur / acortar la abrazadera trasera		110	90	97	103	104	108	112	114	116	118	120	123	125	120	115	110	108	
b (mm)	120	90	95	102	104	107	110	112	115	117	120	121	122	118	113	108			
	130	90	94	101	103	106	108	110	114	116	119	120	119	114	109				
b (mm)	140	90	93	100	102	105	106	108	112	115	118	119	115	110					
	150	90	92	99	101	103	104	107	111	114	117	116	110						
b (mm)	160	90	92	98	100	102	104	107	110	112	115	111							
	170	90	92	97	99	101	103	106	109	110	112								
b (mm)	180	90	92	96	98	100	102	105	108	110									
	190	90	92	96	98	100	102	104	108										
b (mm)	200	90	91	94	97	99	101	103											
	210	90	91	94	97	99	101												
b (mm)	220	90	91	94	97	99													
	230	90	91	93	96														
b (mm)	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		Irreversible electromechanical operator 230 V for swing gates weighing up to 700 kg and 2.5 m long.
P935109 00002	ATHOS AC A25 AL		Irreversible electromechanical operator 230 V for swing gates weighing up to 700 kg and 2.5 m long.
P935115 00002	ATHOS AC A40 AR		Irreversible electromechanical operator 230 V for swing gates weighing up to 400 kg and 4 m long.
P935116 00002	ATHOS AC A40 AL		Irreversible electromechanical operator 230 V for swing gates weighing up to 400 kg and 4 m long.
R935339 00002	ATHOS AC KIT A25 EU		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		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			N999724 - PLE ATHOS
	ALENA SW2 120V control panel			Anchor plate for welding the mountings to masonry pillars for ATHOS operators



er ready



rolling code



ee link

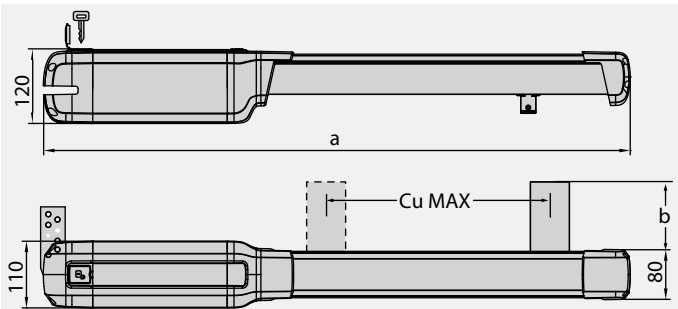


U-Link

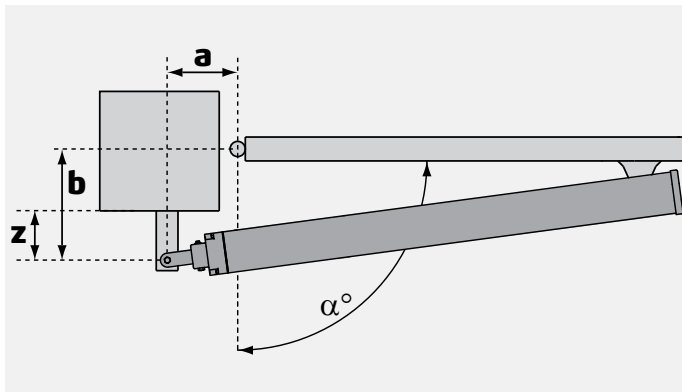


Complete range of electro-mechanical pistons for residential use, suitable for swing gates up to 5 metres in length and up to 500 kg in weight.
Simplified and intuitive wiring: the new ALENA control units have standardized and colourful terminal blocks for a maximum ease of connection of operators and accessories.

Dimension (mm)



	a	b	Cu MAX
Phobos BT A25	850	72,5	290
Phobos BT A40	960	108	400
Phobos AC A25	850	72,5	350
Phobos AC A40	960	108	460



INSTALLATION DIMENSIONS

PHOBOS AC A25										
z > 60 (mm)	a (mm)									
	100	110	120	130	140	150	160	170	180	190
100				114	116	120	123	123	115	
110				112	116	119	122	119	110	
120				111	114	117	120	123		
130			107	110	113	116	116			
140		102	106	109	112	115	110			
150		101	105	108	111	110				
160	98	101	104	107	110					
170	97	100	103	106						
180	97	99	102							
190	96	99								
200	96									α°

PHOBOS AC A50														
z > 60 (mm)	a (mm)													
	100	110	120	130	140	150	160	170	180	190	200	210	220	230
130	97	100	104	108	111	115	118	120	123	125	127	129	125	120
140	97	100	105	108	111	114	117	119	122	124	126	125	120	116
150	98	101	105	108	111	113	116	118	121	123	125	120	116	112
160	98	101	104	107	110	113	115	118	120	122	124	118	113	110
170	97	100	103	106	109	112	114	117	119	121	123	115	111	
180	97	100	103	105	108	111	113	116	118	118	118	113		
190	97	100	102	104	107	110	112	115	117	113	114			
200	96	99	101	103	106	109	111	114	116	115				
210	96	98	101	103	106	108	110	112	115					
220	95	98	101	103	106	108	109	111						
230	95	98	100	102	105	107	109							
240	95	97	99	101	104	105								
250	94	96	99	100	103									
260	94	96	98	100										α°

Technical features

	PHOBOS AC A25	PHOBOS AC A50	PHOBOS AC A50 120V	PHOBOS AC A25 120V
Control unit	RIGEL 6, ALENA 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 °C			

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, KUSTOS BT A
	N733723 - SFR L A Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS 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!

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U-Link



New



Phase-out



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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
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rubber profiles
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release systems

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rolling code



er ready



ee link



d-track



24 V



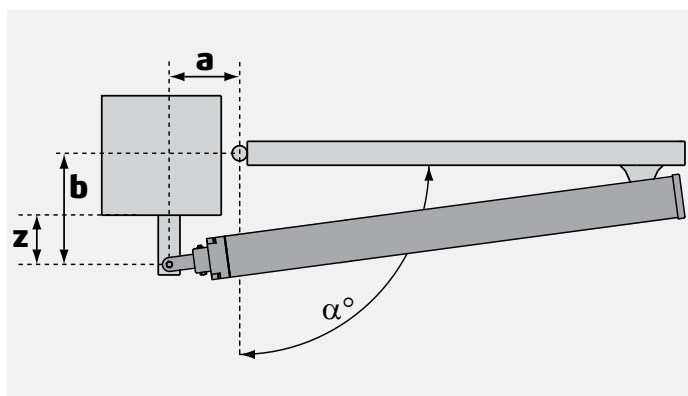
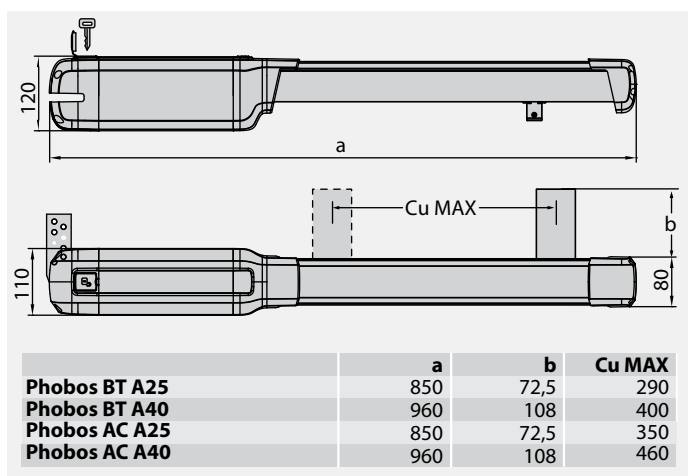
U-Link



Complete range of electromechanical pistons for residential use, suitable for swing gate leaves up to 4 metres wide and weighing up to 500 kg.

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

PHOBOS BT A40														
z > 60 (mm)	a (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		
190	97	100	102	105	107	109	112	106	101	96	93			
200	97	99	101	104	106	106	106	100	97	93				
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

	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 °C	

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

<p>D113747 00002 - THALIA P</p> <p>Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems</p>	<p>D113796 00002 - ZARA BT L2</p> <p>Control panel with dip switches and potentiometers for one or two 24V operators for swing gates</p>
<p>N733427 - ARB PHOBOS N</p> <p>Front and rear adjustable bracket for PHOBOS operator</p>	<p>N733428 - ARB PHOBOS N L</p> <p>Front and rear adjustable bracket for PHOBOS operator</p>
<p>D730178 - PLE</p> <p>Anchor plate for welding the mountings to masonry pillars for LUX, ORQ, PHOBOS operators</p>	<p>N733722 - SFR A</p> <p>Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS BT A</p>
<p>N733723 - SFR L A</p> <p>Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS BT A</p>	<p>N999404 - CABLE N BT</p> <p>Control unit connecting cable for PHOBOS BT A, KUSTOS BT A. Coil of 100 m, 3x1,5.</p>
<p>P125020 - BBT BAT</p> <p>Set of backup batteries for THALIA and THALIA P</p>	<p>D111761 - ME BT</p> <p>Control board for 24Vac solenoid lock for 24V automation systems</p>

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

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U-Link



New



Phase-out



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

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er ready



rolling code



d-track



24 V



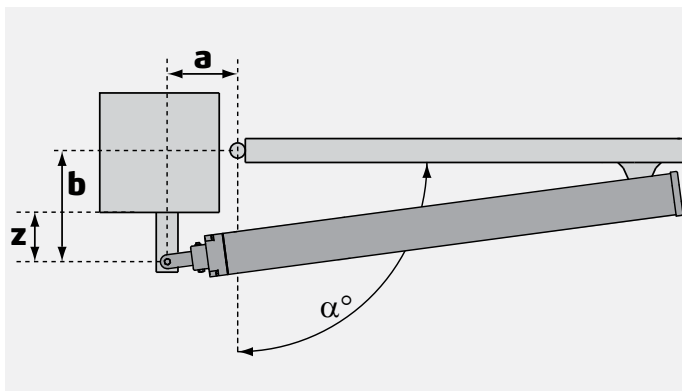
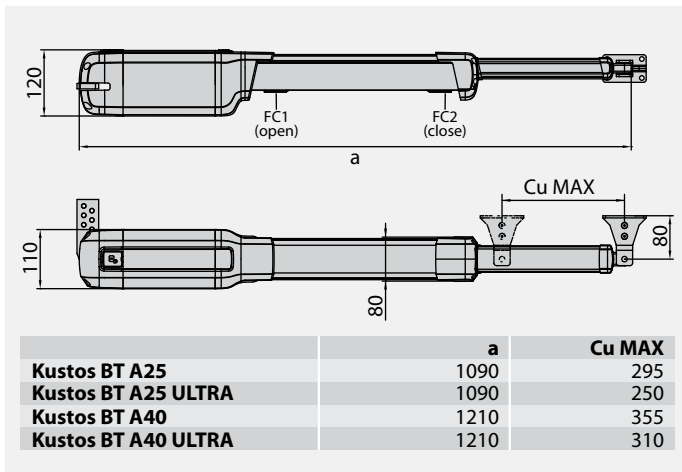
ee link



Complete range of electromechanical pistons for residential use, suitable for swing gate leaves up to 4 metres wide and weighing up to 500 kg.

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

Dimension (mm)



INSTALLATION DIMENSIONS

		KUSTOS BT A 25 - KUSTOS ULTRA BT A 25									
z > 60 (mm)	b (mm)	a (mm)									
		100	110	120	130	140	150	160	170	180	190
100	100				114	118	110	104	100	96	93
110	110			108	112	110	103	97	96	92	
120	120		103	107	110	105	99	96	92		
130	130	99	102	106	109	101	96	92			
140	140	98	101	103	102	96	92				
150	150	97	100	100	95	92					
160	160	97	100	97	92						
170	170	96	97	92							
180	180	96	92								
190	190	92									α°

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

<p>D113747 00002 - THALIA P</p> <p>Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems</p>	<p>D113796 00002 - ZARA BT L2</p> <p>Control panel with dip switches and potentiometers for one or two 24V operators for swing gates</p>
<p>N733647 - ARB KUSTOS POSTERIORE</p> <p>Pair of adjustable rear fixing brackets for Kustos BT A</p>	<p>N733646 - ARB KUSTOS ANTERIORE</p> <p>Front adjustable fixing brackets for Kustos BT A</p>
<p>D730178 - PLE</p> <p>Anchor plate for welding the mountings to masonry pillars for LUX, ORQ, PHOBOS operators</p>	<p>N733722 - SFR A</p> <p>Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS BT A</p>
<p>N733723 - SFR L A</p> <p>Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS BT A</p>	<p>N999404 - CABLE N BT</p> <p>Control unit connecting cable for PHOBOS BT A, KUSTOS BT A. Coil of 100 m, 3x1,5.</p>
<p>P125020 - BBT BAT</p> <p>Set of backup batteries for THALIA and THALIA P</p>	<p>D111761 - ME BT</p> <p>Control board for 24Vac solenoid lock for 24V automation systems</p>

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

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U-Link



New



Phase-out



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

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signalling devices
safety devices - photocells and accessories
safety devices - sensitive edges
rubber profiles
solenoid locks
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U-Link



24 V



d-track



rolling code



er ready



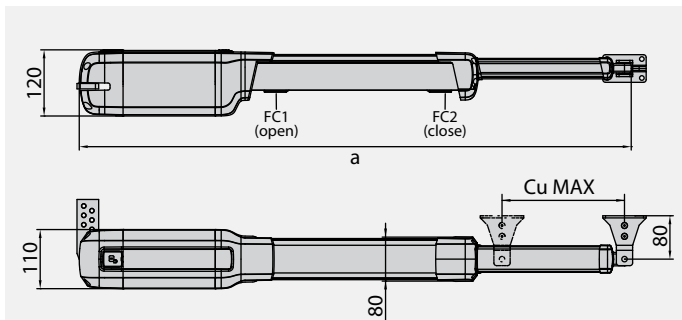
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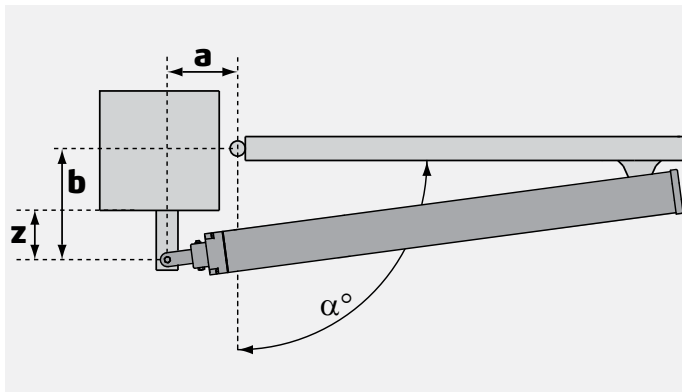
Complete range of electromechanical pistons for residential use, suitable for swing gate leaves up to 4 metres wide and weighing up to 500 kg.

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)



	a	Cu MAX
Kustos BT A25	1090	295
Kustos BT A25 ULTRA	1090	250
Kustos BT A40	1210	355
Kustos BT A40 ULTRA	1210	310



INSTALLATION DIMENSIONS

		KUSTOS BT A 25 - KUSTOS ULTRA BT A 25												
z > 60 (mm)	b (mm)	a (mm)												
		100	110	120	130	140	150	160	170	180	190			
100	100				114	118	110	104	100	96	93			
110	110			108	112	110	103	97	96	92				
120	120		103	107	110	105	99	96	92					
130	130	99	102	106	109	101	96	92						
140	140	98	101	103	102	96	92							
150	150	97	100	100	95	92								
160	160	97	100	97	92									
170	170	96	97	92										
180	180	96	92											
190	190	92												α°

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

Technical features

	KUSTOS ULTRA BT A25	KUSTOS ULTRA 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	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	IP44	
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 V for swing gates up to 500 kg in weight and up to 4 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

<p>D113747 00002 - THALIA P</p> <p>Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems</p>	<p>N733646 - ARB KUSTOS ANTERIORE</p> <p>Front adjustable fixing brackets for Kustos BT A</p>
<p>N733647 - ARB KUSTOS POSTERIORE</p> <p>Pair of adjustable rear fixing brackets for Kustos BT A</p>	<p>D730178 - PLE</p> <p>Anchor plate for welding the mountings to masonry pillars for LUX, ORO, PHOBOS operators</p>
<p>N733722 - SFR A</p> <p>Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS BT A</p>	<p>N733723 - SFR L A</p> <p>Adjustable bracket for PHOBOS BT A, PHOBOS AC A, KUSTOS BT A</p>
<p>N999404 - CABLE N BT</p> <p>Control unit connecting cable for PHOBOS BT A, KUSTOS BT A. Coil of 100 m, 3x1,5.</p>	<p>P125020 - BBT BAT</p> <p>Set of backup batteries for THALIA and THALIA P</p>

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

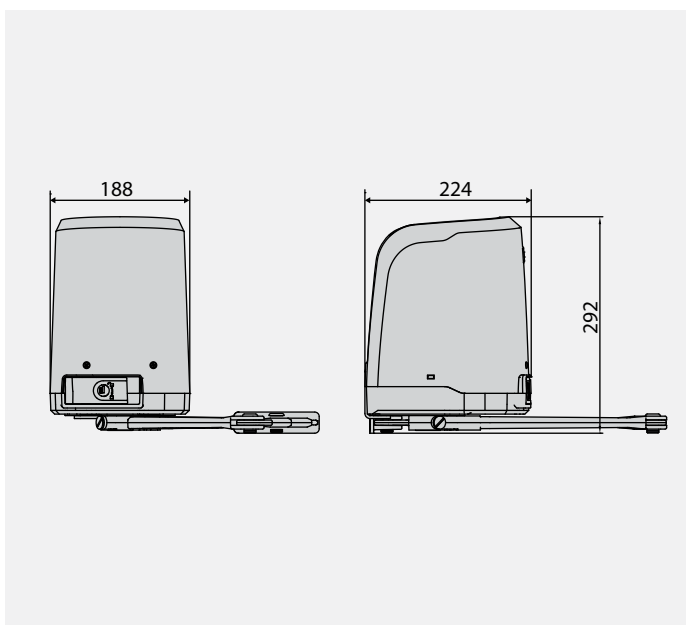
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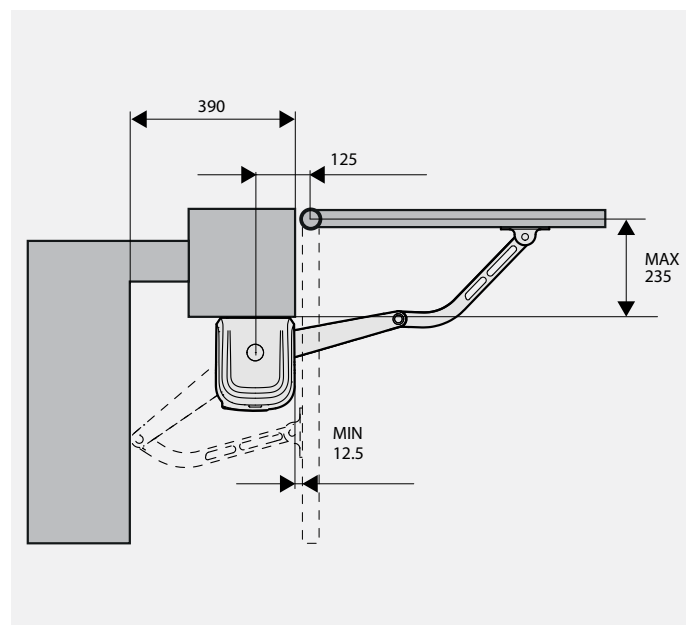


Electromechanical operator with articulated arm for residential use, for swing gate leaves of up to 2 metres and 200 kg. Operator-integrated control unit, limit switch and mechanical stops. Ideal for any installation requirements, makes it easy to solve problems linked to large pillars thanks to the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

Dimension (mm)



INSTALLATION DIMENSIONS



Technical features

	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	IP44	
Environmental conditions	-20 ÷ 55 °C	

Code	Name	Description	
P930129 00002	VIRGO SMART BT A 20	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	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	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, LIBRA R, LIBRA MA R

RECOMMENDED ACCESSORIES

N728052 - LAS	P111775 - TFS
VIRGO BT A slide lever	Virgo Smart BT A 3-wire board KIT (1 Kit per engine)
N999735 - AAP	N998600 - AMV
VIRGO SMART BT A misaligned doors accessory	Virgo Smart BT A 20 mechanical stop KIT
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
N574039 - BOX	P125008 - VIRGO BAT
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	



U-Link



New



Phase-out



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set of batteries for control units
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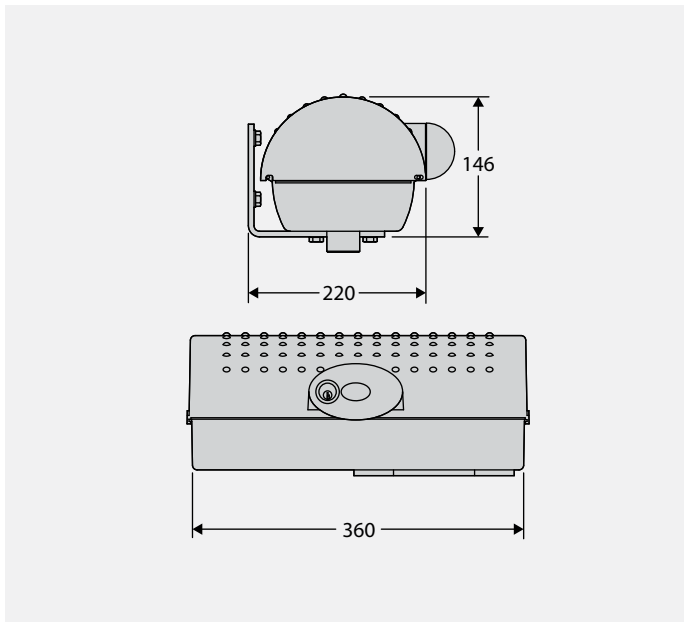


- d-track
- ee link
- er ready
- 24 V
- U-Link

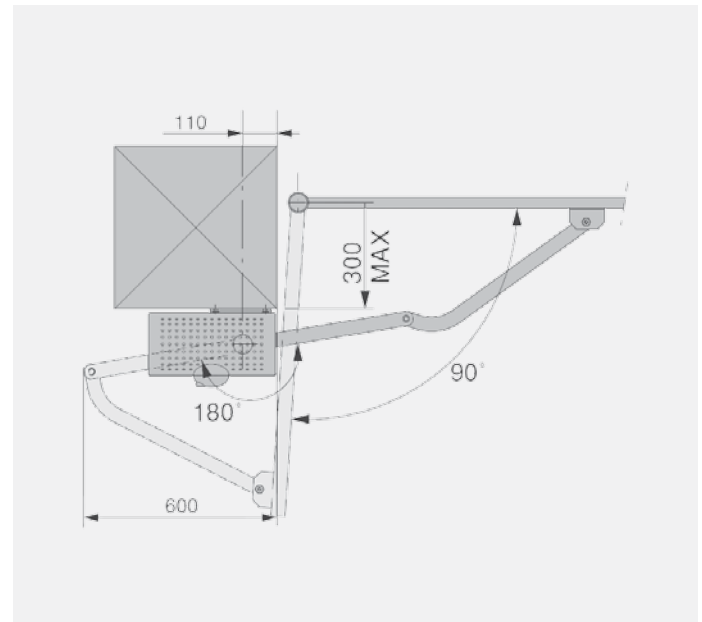


Range of irreversible electro-mechanical 24 v operators for swing gates up to 250 kg in weight and up to 2.5 m in length. Ideal for installation on large-size pillars thanks to its articulated levers that allow opening up to 125°.

Dimension (mm)



INSTALLATION DIMENSIONS



Technical features

	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-Link
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-Link

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

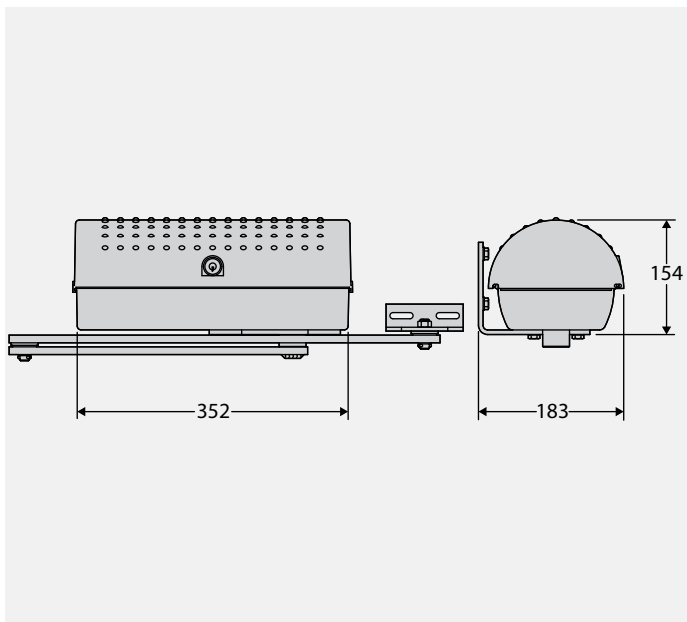
RECOMMENDED ACCESSORIES

	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
	N733422 - RCAL Lever release for ARGO with steel cable, length 7 m		P135005 - LRV Short articulated arms for IGEA and IGEA BT
	N574039 - BOX Wall safe for unlocking with steel cable and electrical control; cable not included		P125020 - BBT BAT Set of backup batteries for THALIA and THALIA P
	D111761 - ME BT Control board for 24Vac solenoid lock for 24V automation systems		

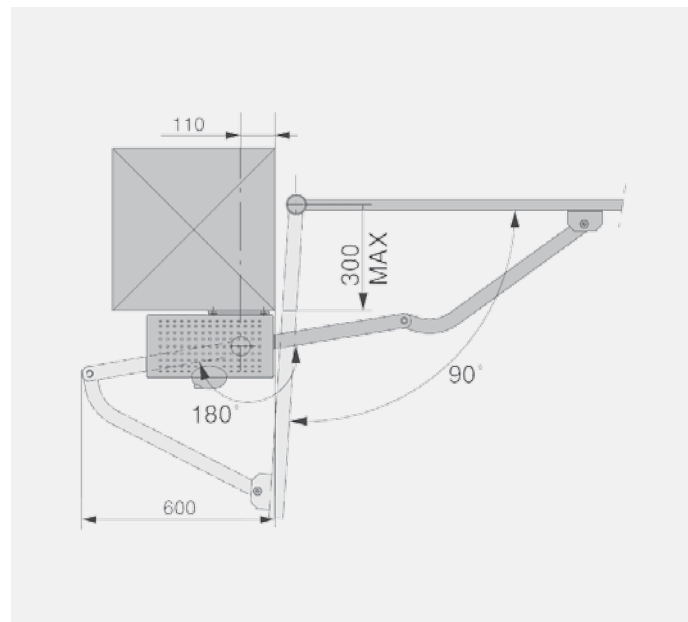


Range of electromechanical operators with articulated arm for residential use, for swing gate leaves of up to 2.5 metres and 250 kg. Ideal for installation on large-size pillars thanks to its articulated levers that allow opening up to 125°.

Dimension (mm)



INSTALLATION DIMENSIONS



Technical features

	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		N733422 - RCAL Lever release for ARGO with steel cable, length 7 m
	P135005 - LRV Short articulated arms for IGEA and IGEA BT		N574039 - BOX Wall safe for unlocking with steel cable and electrical control; cable not included
	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		



U-Link



New



Phase-out



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set of batteries for control units
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ee link



24 V



d-track

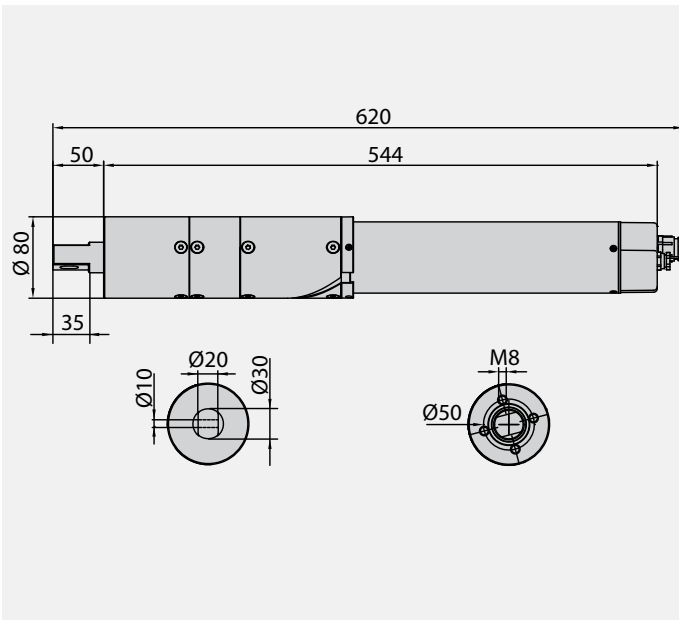


er ready



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)



Technical features

	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 s
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, slow-down during opening and closing and electronic self-learning, D-TRACK torque control system

RECOMMENDED ACCESSORIES

<p>N999526 - HIDE HINGE SUP</p> <p>Top hinge for the installation of HIDE SW series operator</p>	<p>N999524 - HIDE HINGE INF</p> <p>Bottom fixed hinge for the installation of HIDE SW series operator</p>
<p>N574039 - BOX</p> <p>Wall safe for unlocking with steel cable and electrical control; cable not included</p>	<p>P125005 - BT BAT</p> <p>Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRAN, ARGO</p>



ee link



er ready

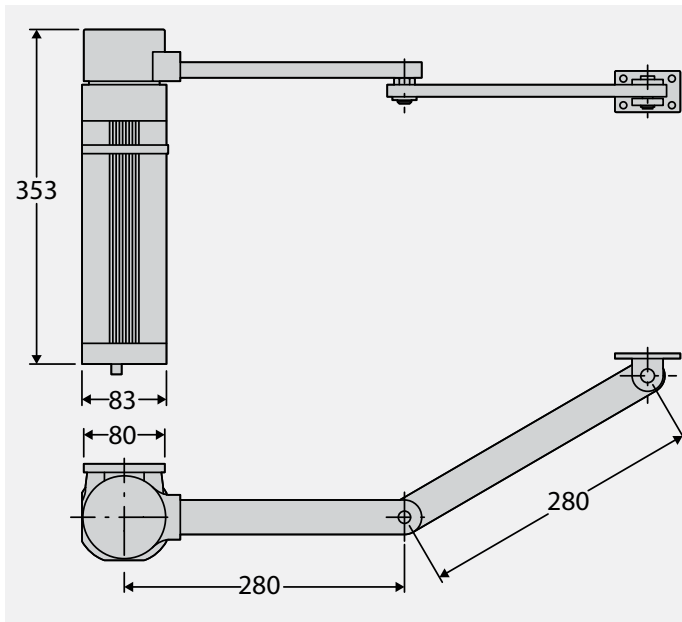


U-Link



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)



Technical features

	E5 N	E5 120
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

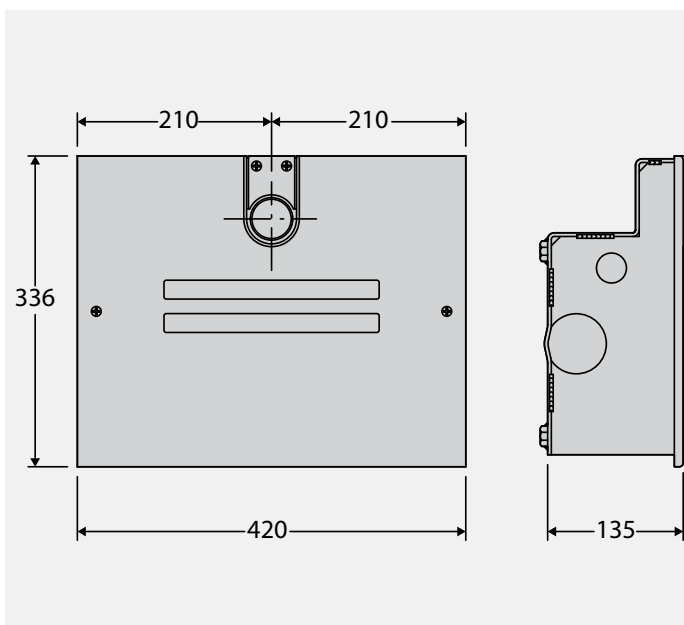
<p>new D114092 00002 - ALCOR AC A</p> <p>Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.</p>	<p>Ph. Out D113680 00002 - ALPHA SD</p> <p>Universal control panel with potentiometers for one 230V/500W single-phase operator</p>
<p>N733008 - BL E5</p> <p>Long articulated arm for E5, max leaf length 2 m, max leaf weight 200 kg</p>	<p>N728011 - BS E5</p> <p>Slide lever for E5 N. Max leaf length 1.6 m, max leaf weight 100 kg</p>



- 24 V
- d-track
- ee link
- er ready
- U-Link

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)



Technical features

	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	U-Link

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

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	N733397 - BTCF 120 E	Foundation box with levers for ELI 250 N BT, ELI 250 N, ELI 250 N V. Release not supplied
N733398 - BTCF 120 E INOX	Stainless steel foundation box with levers for ELI 250 N BT, ELI 250 N, ELI 250 N V. Release not provided	N733392 - SCC	Release for ELI 250N and SUB BT with lever key.
N733502 - SCP	Release for ELI 250 and SUB BT with personalized key.	P125020 - BBT BAT	Set of backup batteries for THALIA and THALIA P
D111761 - ME BT	Control board for 24Vac solenoid lock for 24V automation systems		



U-Link



New



Phase-out



U-Control app
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Accessories
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accessories for control units
set of batteries for control units
expansion boards
software
receivers
transmitters
control devices

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ee link



er ready

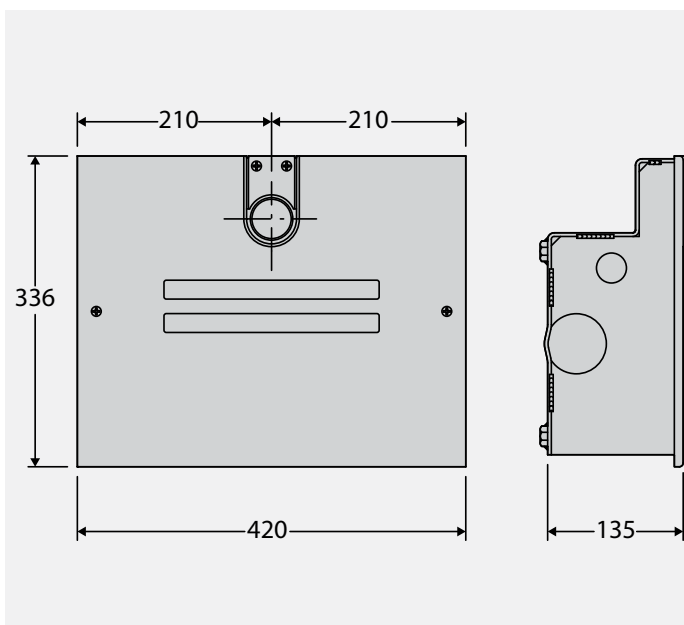


U-Link



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)



Technical features

	ELI 250 N V	ELI 250 N	ELI 250 N V 120
Control unit	RIGEL 6, ALENA 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

<p>D113811 00004 - ALENA SW2</p> <p>Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors</p>	<p>N733397 - BTCTF 120 E</p> <p>Foundation box with levers for ELI 250 N BT, ELI 250 N, ELI 250 N V. Release not supplied</p>
<p>N733398 - BTCTF 120 E INOX</p> <p>Stainless steel foundation box with levers for ELI 250 N BT, ELI 250 N, ELI 250 N V. Release not provided</p>	<p>N733392 - SCC</p> <p>Release for ELI 250N and SUB BT with lever key.</p>
<p>N733502 - SCP</p> <p>Release for ELI 250 and SUB BT with personalized key.</p>	<p>N733304 - E180</p> <p>Accessory for opening to 180 ° for ELI 250, ELI 250 V operator</p>

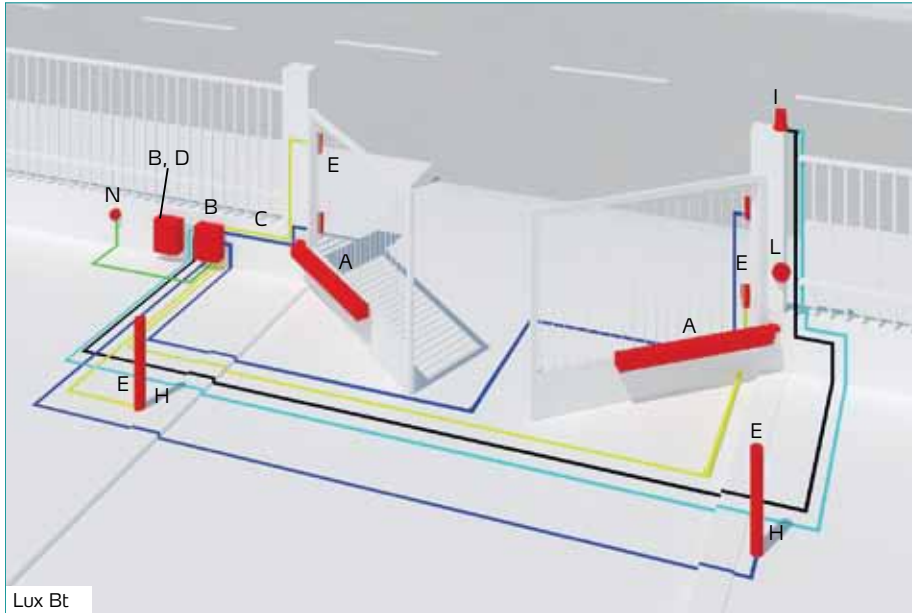


Hydraulic automation systems for swing gates

Guide to choosing

Max. width of door/gate wing	Max. weight of door/gate wing	Maximum angle	Motor voltage	Frequency of use	Kit	Operator	Plus
electromechanically operated swing gates							
2 m	300 kg	110 °	24 V	very intensive	-	GIUNO ULTRA BT A20	Selectable locking Magnetic limit switches
hydraulically operated swing gates							
1.8 m	180 kg	112 °	230 V	Semi intensive	-	ORO	Compact size
					●	ORO KIT	Compact size
					●	ORO KIT FRA	Compact size
2 m	300 kg	101 °	230 V	very intensive	-	LUX R 2B SN2	
					-	LUX R 2B 25N UL/CSA	Locking on closure/opening
		117 °			-	LUX FC 2B	
					-	LUX FC 2B UL/CSA	Locking on closure/opening
		123 °			-	LUX	Reversible
					-	LUX SA	Reversible
					-	LUX WINTER	Extremely low temperatures
					-	LUX B	
					-	LUX BA	Reversible
					-	LUX 2B	
					-	LUX 2B WINTER	Extremely low temperatures
					-	LUX 2B UL/CSA 120V	Locking on closure/opening
2.2 m	300 kg	123 °	230 V	very intensive	-	LUX R2B	Reversible
					-	LUX R	Reversible
2.3 m	300 kg	123 °	230 V	very intensive	-	LUX R5N2	Reversible
					-	LUX MB	Locking on closure
					●	LUX MB KIT	Locking on closure
2.5 m	200 kg	112 °	230 V	Semi intensive	-	ORO E	Compact size
3.5 m	300 kg	123 °	230 V	very intensive	-	LUX GV	Reversible
4 m	500 kg				-	LUX L	Reversible
					-	LUX LR	Reversible
4.5 m	500 kg	123 °	230 V	very intensive	-	P4.5 UL/CSA	Closing slowdown
					-	P4,5	Closing slowdown
					-	P4,5 WINTER	Extremely low temperatures
5 m	800 kg	110 °	24 V	very intensive	-	GIUNO ULTRA BT A50	Selectable locking Magnetic limit switches
		123 °	230 V		-	LUX G WINTER	Extremely low temperatures
		130 °			-	LUX G	Reversible
7 m	500 kg	123 °	120 V	very intensive	-	P7 UL/CSA	Closing slowdown
			230 V		-	P7	Closing slowdown
					-	P7 WINTER	Extremely low temperatures
swing gates with underground hydraulic operator							
1.8 m	800 kg	130 °	230 V	very intensive	-	SUB DX	very intensive
					-	SUB SX	very intensive
					-	SUB R DX	Slowdown
					-	SUB R SX	Slowdown
					-	SUB R WINTER DX	Extremely low temperatures
		180 °			-	SUB R WINTER SX	Extremely low temperatures
					-	SUB EG DX	very intensive
					-	SUB EG SX	very intensive
					-	SUB G DX	very intensive
					-	SUB G SX	very intensive
2.5 m	800 kg	120 °	230 V	very intensive	-	SUB BT	D-Track
					-	SUB E DX	very intensive
		130 °			-	SUB E SX	very intensive
					-	SUB ER DX	Slowdown
3.5 m	800 kg	120 °	230 V	very intensive	-	SUB ER SX	Slowdown
					-	SUB R UL/CSA DX	Slowdown
		180 °			-	SUB EL DX	very intensive
					-	SUB EL SX	very intensive
					-	SUB G UL/CSA DX	very intensive

Installation guide



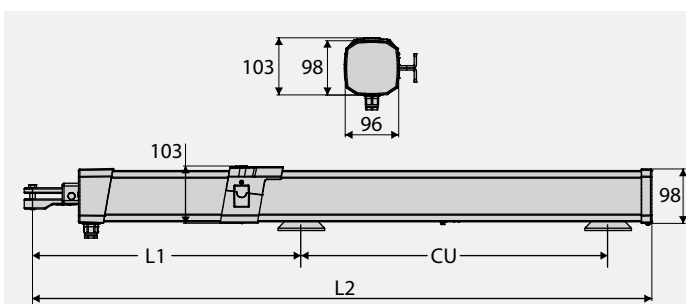
Lux Bt

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



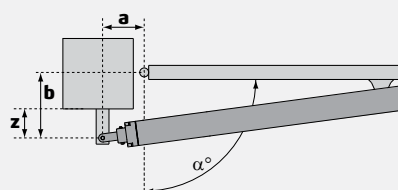
Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application.
 Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg.
 Anti-crushing safety guaranteed thanks to the exclusive D-Track system

Dimension (mm)



	L1	CU	L2
GIUNO BT A20	715	270	1116
GIUNO BT A50	932	392	1381

INSTALLATION DIMENSIONS



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

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

Technical features

	GIUNO ULTRA BT A20	GIUNO ULTRA BT A50
Control unit	THALIA 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 BK2.
- 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		D610180 - CLS
	Adjustable front and rear bracket for LUX G operator		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!

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 set of batteries for control units
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ee link



er ready

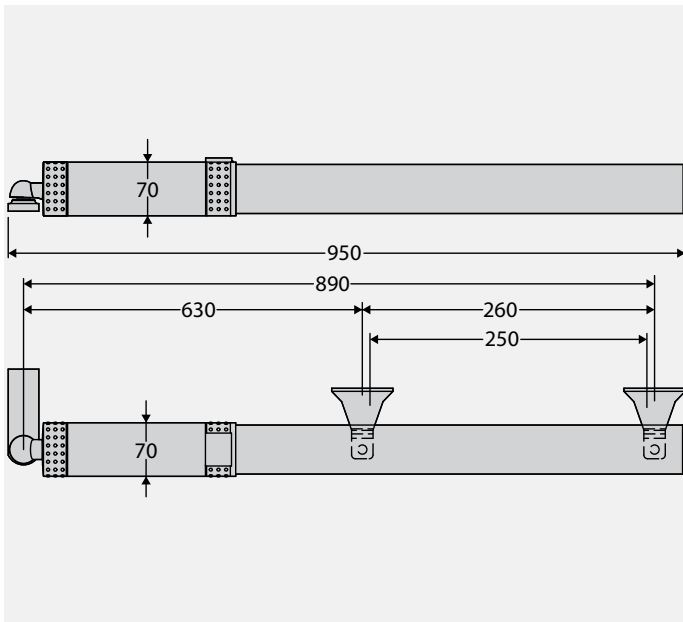


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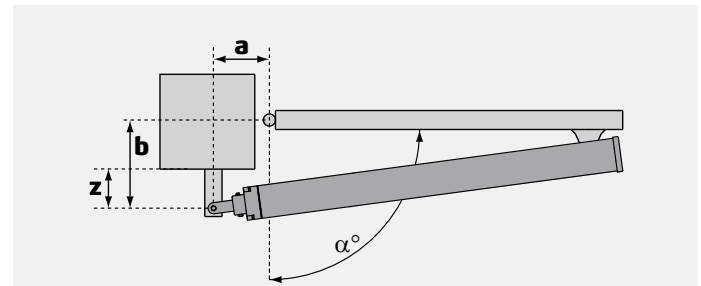


Extremely compact and sturdy hydraulic operators suitable for residential and small condominium use. Capable of automating swing gate leaves up to 2.5 metres wide and weighing up to 200 kg. Available in both reversible and irreversible versions. Maximum precision in force control guaranteed by by-pass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

Dimension (mm)



INSTALLATION DIMENSIONS



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

Technical features

	ORO	ORO E
Control unit	RIGEL 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

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

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

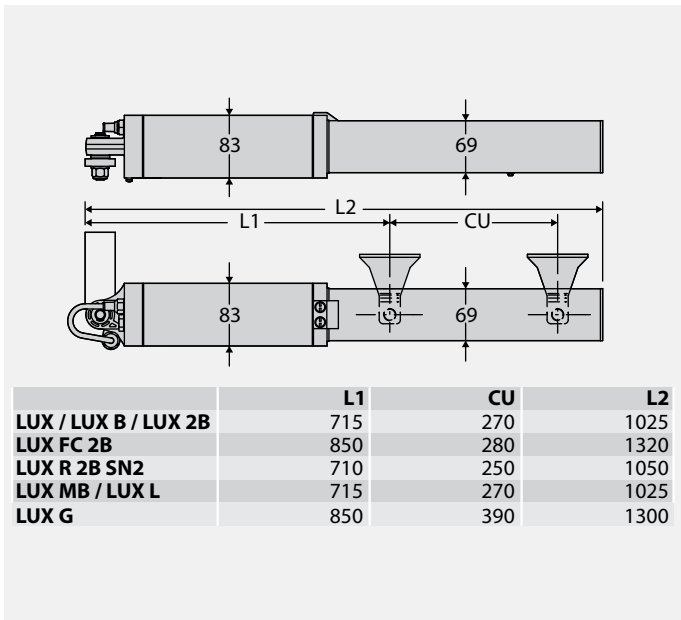
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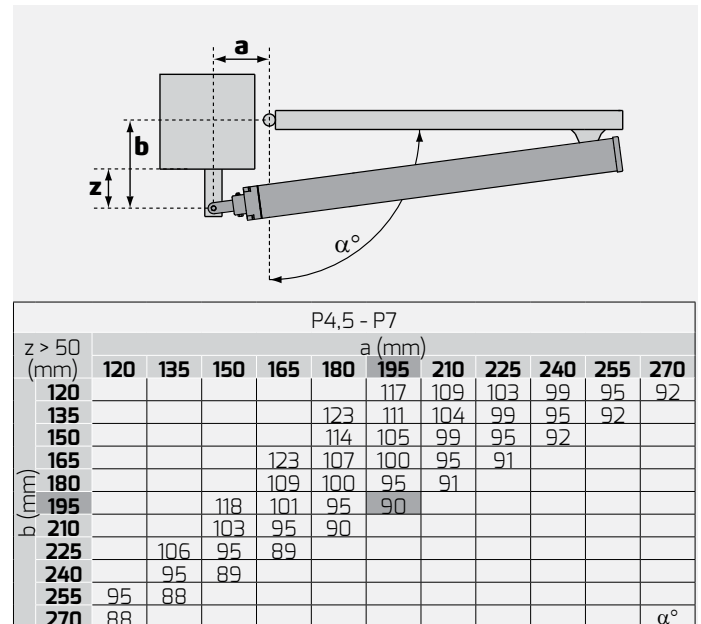


Complete range of low voltage hydraulic pistons for very intensive use, suitable for any type of residential, industrial or multi-residence application.
 Compact and sturdy, capable of automating swing gate leaves up to 5 metres wide and weighing up to 800 kg.
 Available in both reversible and irreversible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

Dimension (mm)



INSTALLATION DIMENSIONS



Technical features

	LUX	LUX SA	LUX WINTER	LUX R	LUX RSN2	LUX B
Control unit	RIGEL 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	2.2 m	2.2 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	270 mm
Maximum angle	123°	123°	123°	123°	123°	123°
Cycle time	17 s	17 s	17 s	17 s	17 s	17 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	Solenoid Lock	Solenoid Lock	Solenoid Lock	Solenoid Lock	Hydraulic closing
Release	Reversible	Reversible	Reversible	Reversible	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 ÷ °C		-30 ÷ °C		-10 ÷ °C	



	LUX BA	LUX 2B	LUX 2B WINTER	LUX 2B UL/CSA 120V	LUX R2B	LUX R 2B SN2
Control unit	RIGEL 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 ÷ °C		-30 ÷ °C		-10 ÷ °C	

	LUX FC 2B	LUX R 2B 2SN UL/CSA	LUX FC 2B UL/CSA	LUX MB	LUX GV	LUX L
Control unit	RIGEL 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 ÷ °C					

	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!

See page 18





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 °. 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 °. 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 °. 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 °. 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 °. 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 25N 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 °. 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

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

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

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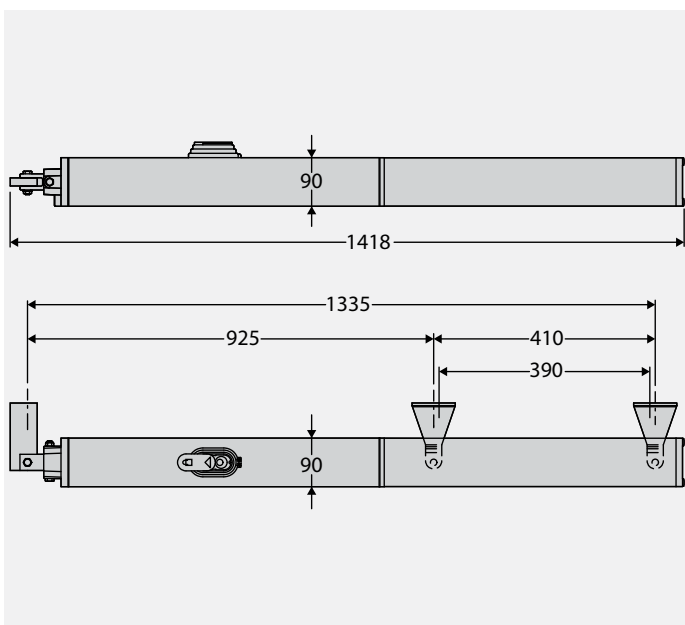


<p> U-Link</p> <p>new New</p> <p>Ph. Out Phase-out</p>	<p> U-Control app pag. 17</p>	<p> Accessories pag. 226</p>	<p>accessories for control units set of batteries for control units expansion boards software receivers transmitters control devices</p>	<p>P. 226 signalling devices P. 226 safety devices - photocells and accessories P. 227 safety devices - sensitive edges P. 228 rubber profiles P. 228 solenoid locks P. 229 release systems P. 230</p>	<p>P. 231 P. 232 P. 233 P. 233 P. 234 P. 235</p>	<p>P. 231 P. 232 P. 233 P. 233 P. 234 P. 235</p>
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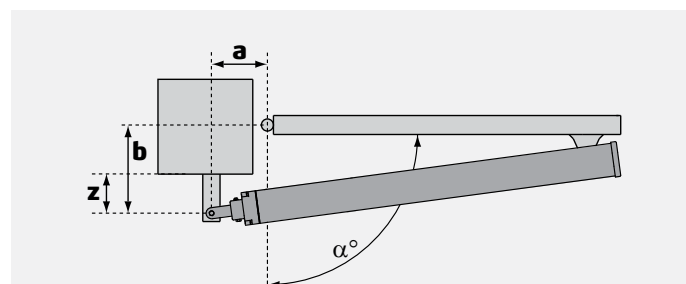


Extremely sturdy and reliable hydraulic operators for industrial and condominium use. They can automate swing gate leaves up to 7m wide and weighing up to 500kg. Smooth, silent gate movements are guaranteed by the extremely high-performance hydraulic system and the closing slowdown. Maximum precision in traction and thrust force control is guaranteed by the by-pass valve system.

Dimension (mm)



INSTALLATION DIMENSIONS



		P4,5 - P7										
		a (mm)										
z > 50 (mm)		120	135	150	165	180	195	210	225	240	255	270
b (mm)	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					
	210			103	95	90						
	225		106	95	89							
	240		95	89								
	255	95	88									
270	88										α°	

Technical features

	P4,5	P4,5 WINTER	P4,5 UL/CSA	P7	P7 WINTER	P7 UL/CSA
Control unit	RIGEL 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	250 W	250 W	250 W	250 W	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	500 kg	500 kg	500 kg	500 kg	500 kg
Useful rod stroke	390 mm	390 mm	390 mm	390 mm	390 mm	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	work time	work time	work time	work time	work time
Slowdown	During closing	During closing	During closing	During closing	During closing	During closing
Locking	Solenoid Lock	Solenoid Lock	Solenoid Lock	Solenoid Lock	Solenoid Lock	Solenoid Lock
Release	Reversible	Reversible	Reversible	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	IP55					
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+slowdown 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 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
	N999131 - NAT		D610180 - CLS
	Adapter for 230V hydraulic operators for inserting the spiral cable protection sheath		Triangular release key l=52 mm
	D111013 - ME		
	Control board for 12Vac solenoid lock for 230V automation systems		

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

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U-Link



New



Phase-out



U-Control app
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Accessories
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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
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er ready



d-track



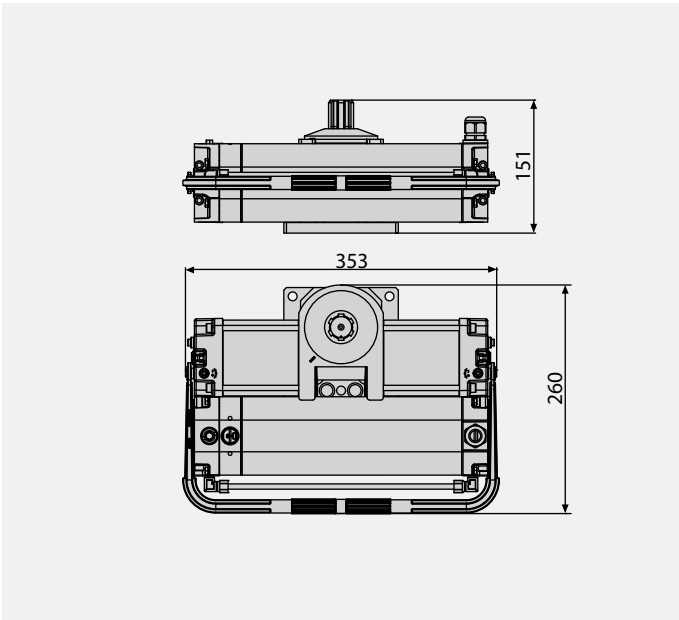
24 V



U-Link

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 D-Track system

Dimension (mm)



Technical features

	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 BK2.
- 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 electromechanical 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		



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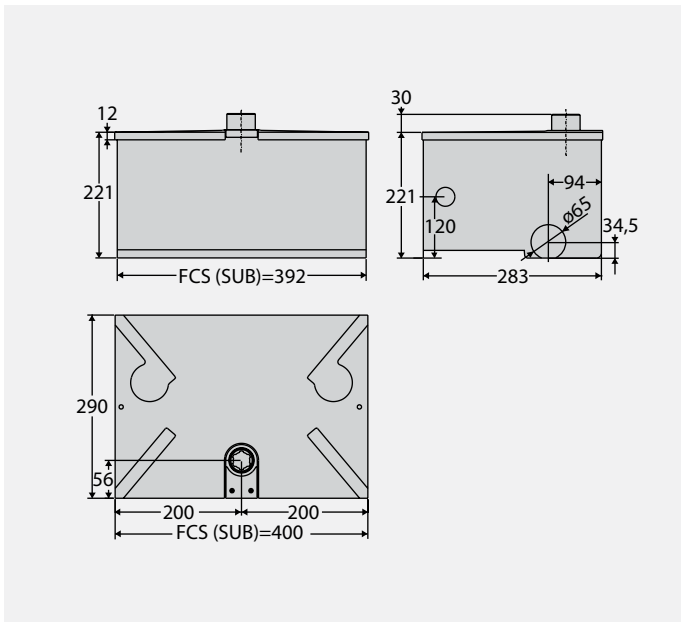


U-Link



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

Dimension (mm)



Technical features

	SUB DX	SUB SX	SUB R DX	SUB R SX	SUB R UL/CSA DX	SUB R WINTER DX
Control unit	RIGEL 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	120 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	1.8 m	1.8 m	1.8 m	3.5 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 °	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	work time	work time	work time	work time	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	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	IP67					
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	RIGEL 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	IP67					
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	RIGEL 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	IP67					
Environmental conditions	-10 ÷ 60 °C					



Code	Name	Description
P930026 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

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





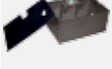


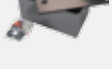




D113833 00002 - RIGEL 6 220-230V 50/60HZ - Recommended



- 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

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



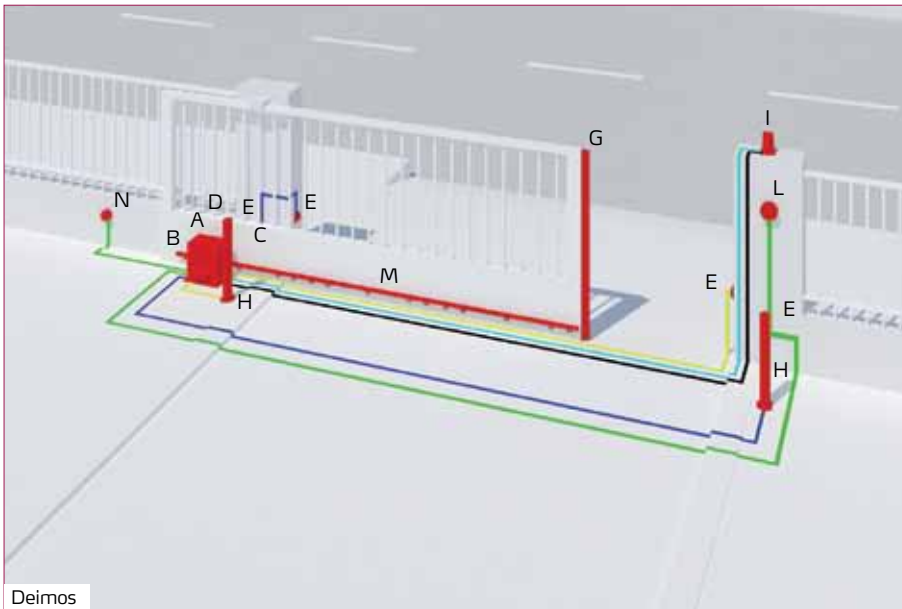
Sliding gate automation systems

Guide to choosing

Max. door/ gate weight	Supply voltage AC	Frequency of use	Kit	Operator	Plus	
slide						
300 kg	24 V	intensive	-	DEIMOS BT A400 V	Limit switch Electromechanical	
			-	DEIMOS BT A400 V SQ	Limit switch Electromechanical	
			-	DEIMOS ULTRA BT A400 V	U-Link and Magnetic limit switch	
360 kg	24 V		-	DEIMOS BT A400 V 120	Limit switch Electromechanical	
			-	DEIMOS BT A600 V	Limit switch Electromechanical	
			-	DEIMOS BT A600 V SQ	Limit switch Electromechanical	
370 kg	120 V	-	DEIMOS ULTRA BT A600 V	U-Link and Magnetic limit switch		
		-	DEIMOS BT A600 V 120	Limit switch Electromechanical		
		-	DEIMOS AC A600 120 V	Unit with removable standard terminals Frontal screws		
400 kg	24 V	intensive	-	DEIMOS AC A600 V	Unit with removable standard terminals Frontal screws	
			-	DEIMOS BT A400	Limit switch Electromechanical	
			-	DEIMOS BT A400 SQ	Limit switch Electromechanical	
400 kg	120 V	intensive	●	DEIMOS BT KIT A400 FRA	Limit switch ---	
			-	DEIMOS ULTRA BT A400	U-Link and Magnetic limit switch	
			●	DEIMOS ULTRA BT KIT A400 FRA	U-Link and --- limit switch	
		230 V	Semi intensive	-	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
				-	DEIMOS BT A400 120	Limit switch Electromechanical
500 kg	24 V	intensive	-	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	
			-	ARES BT A1000 V	Limit switch Electromechanical	
			-	DEIMOS BT A600	Limit switch Electromechanical	
			-	DEIMOS BT A600 SQ	Limit switch Electromechanical	
600 kg	120 V	intensive	●	DEIMOS BT KIT A600 FRA	Limit switch ---	
			-	DEIMOS ULTRA BT A600	U-Link and Magnetic limit switch	
			●	DEIMOS ULTRA BT KIT A600 FRA	U-Link and --- limit switch	
		230 V	Semi intensive	-	DEIMOS AC A600 120	Unit with removable standard terminals Frontal screws
				-	DEIMOS BT A600 120	Limit switch Electromechanical
				-	DEIMOS AC A600	Unit with removable standard terminals. Frontal screws.
750 kg	24 V	intensive	-	DEIMOS AC A600 SQ	Frontal screws	
			●	DEIMOS AC KIT A600 FRA	Unit with removable standard terminals Frontal screws	
			-	ARES BT A1500 V	Limit switch Electromechanical	
800 kg	120 V	Semi intensive	-	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	
	230 V		-	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	
			-	ARES ULTRA BT A1000 120	U-Link and Magnetic limit switch	
1000 kg	230 V	very intensive	-	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
1500 kg	24 V	intensive	-	ARES BT A1500	Limit switch Electromechanical
			-	ARES ULTRA BT A1500	U-Link and Magnetic limit switch
			-	ARES ULTRA BT A1500 120	U-Link and Magnetic limit switch
2000 kg	120 V	very intensive	-	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.
	230 V		-	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.
			-	ICARO SMART AC A2000 SQ	Limit switch Electromechanical. Equipped with mechanical safety clutch.
			-	ICARO SMART AC A2000 V SQ	Limit switch Electromechanical. Equipped with mechanical safety clutch.
			-	ICARO ULTRA AC A2000	Control unit arranged for communication with U-link protocol and tamper-proof function. Operator with absolute encoder and torque management with D-track system.
3500 kg	400 V	-	SP3500 TRI 230	Control unit with display and U-Link communication protocol	
		-	SP3500 TRI 400	Control unit with display and U-Link communication protocol	
		-	SP3500 SF TRI 400	Control unit with display and U-Link communication protocol	

Installation guide



Deimos

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



U-Link



New



Phase-out



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

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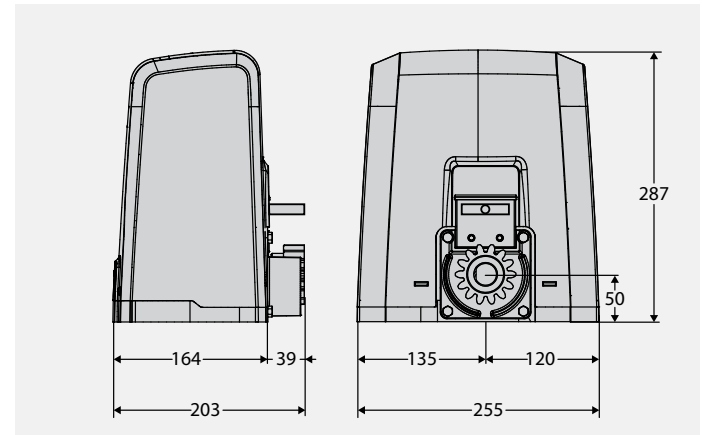
signalling devices
safety devices - photocells and accessories
safety devices - sensitive edges
rubber profiles
solenoid locks
release systems

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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)



Technical features

	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	HAMAL		---		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 SQ	DEIMOS BT A600 120	DEIMOS BT A600 V 120
Control unit	HAMAL		---		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

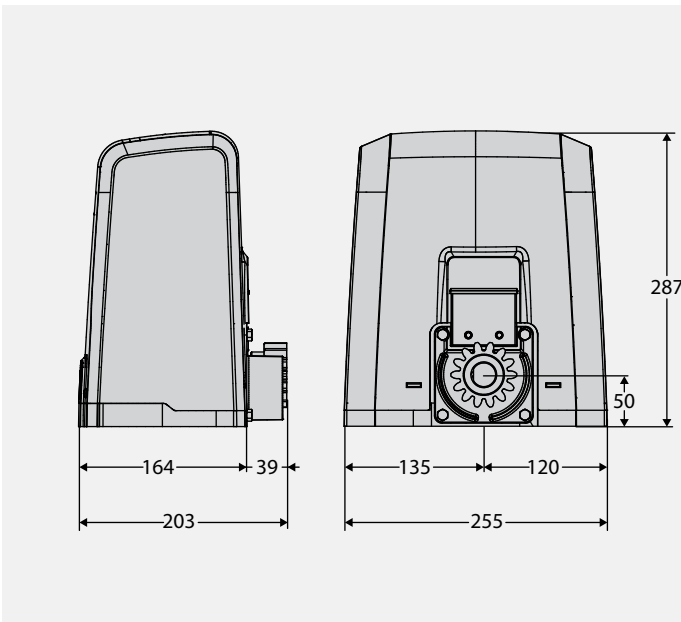
RECOMMENDED ACCESSORIES

	D221073 - CP plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.		D571053 - CVZ steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.
	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.		N999151 - SFD Base plate for DEIMOS series (supplied with operator)
	P125035 - SL BAT2 Emergency battery kit for Deimos BT A, Ares BT A, Deimos Ultra BT A, Ares 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)



Technical features

	DEIMOS ULTRA BT A400	DEIMOS ULTRA BT A400 V	DEIMOS ULTRA BT A600	DEIMOS ULTRA BT A600 V
Control unit	MERAK 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	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
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 A600 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 KIT 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 KIT A600 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

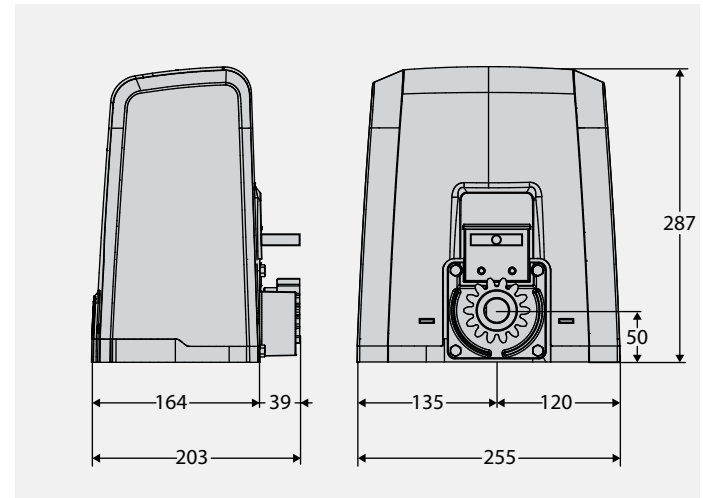
RECOMMENDED ACCESSORIES

	D221073 - CP plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.		D571053 - CVZ steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.
	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.		N999151 - SFD Base plate for DEIMOS series (supplied with operator)
	P111468 - B EBA RS 485 LINK Expansion board for connection of central units with serial controls management		P125035 - SL BAT2 Emergency battery kit for Deimos BT A, Ares BT A, Deimos Ultra BT A, Ares Ultra BT A.



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

Dimension (mm)



Technical features

	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	IP24					
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-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	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical
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	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	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	IP24							
Environmental conditions	-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 120	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 A800 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.		N999151 - SFD Base plate for DEIMOS series (supplied with operator)
	N999320 - CVZ-5 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.

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 Phase-out

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set of batteries for control units
expansion boards
software
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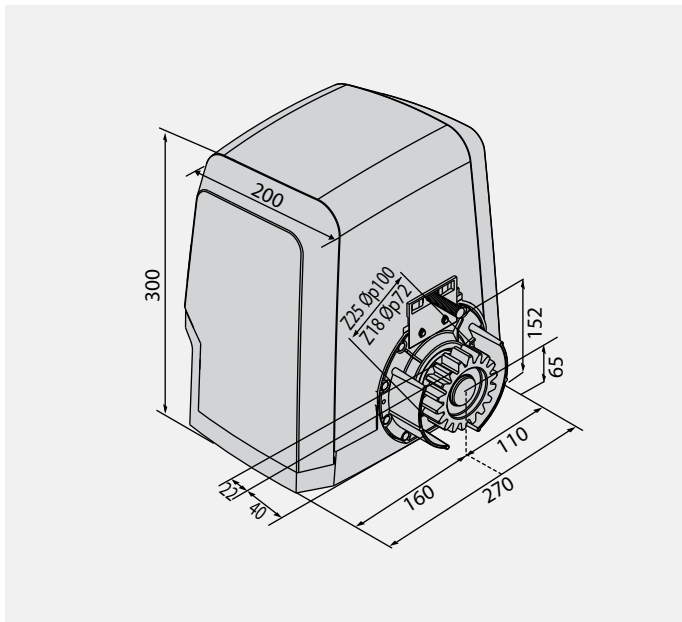


- 24 V
- ee link
- er ready
- d-track



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

Dimension (mm)



Technical features

	ARES BT A1000 V	ARES BT A1500 V	ARES BT A1000	ARES BT A1500
Control unit	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	Knob operated with personal key	Knob operated with personal key	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
- 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

	D221073 - CP plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.		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.		D571054 - CFZ galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.
	N999156 - SFI Base plate for ARES and ICARO (supplied with operator)		P125035 - SL BAT2 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		



U-Link



New



Phase-out


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ARES ULTRA BT A

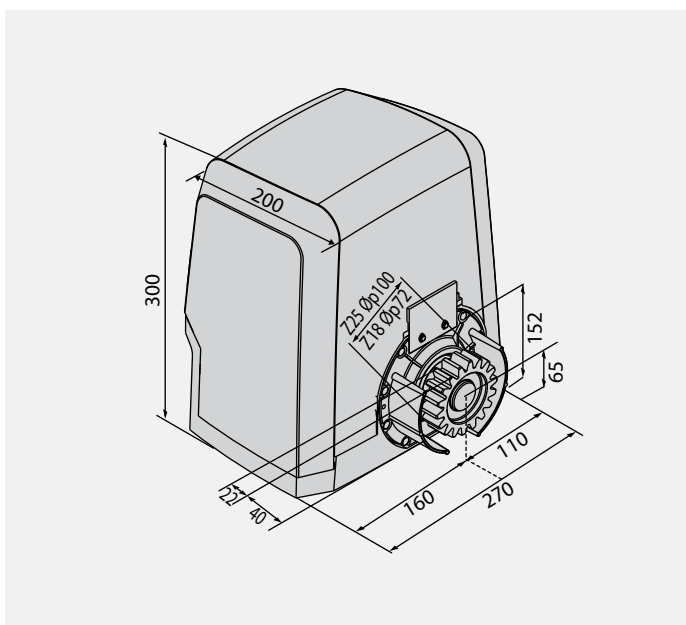


- 24 V
- ee link
- U-Link
- d-track
- er ready



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)



Sliding gate automation systems

Technical features

	ARES ULTRA BT A1000	ARES ULTRA BT A1000 120	ARES ULTRA BT A1500	ARES ULTRA BT A1500 120
Control unit	MERAK			
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	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
Frequency of use	intensive	intensive	intensive	intensive
Protection rating	IP44			
Environmental conditions	-20 ÷ 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

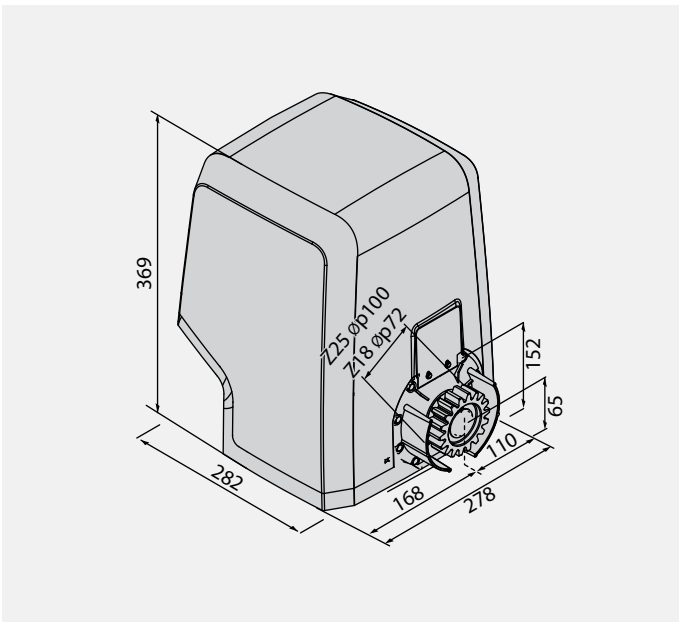
D221073 - CP plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.	N999320 - CVZ-5 steel rack, 4-module, cross-section 30 x 8 mm, length 1 m, screw-fitted on supports Max. load capacity 800 kg.
D571053 - CVZ steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.	D571054 - CFZ 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 Expansion board for connection of central units with serial controls management	P125035 - SL BAT2 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	N999156 - SFI Base plate for ARES and ICARO (supplied with operator)



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)



Technical features

	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 L02	-	LEO B CBB L02	-	LEO B CBB L02	
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 Electromechanical. Equipped with mechanical safety clutch.	
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 L02: Incorporated control unit for one 230V operator for sliding gates

LEO B CBB L02 - 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-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 plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.		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.		D571054 - CFZ galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.
	N999156 - SFI Base plate for ARES and ICARO (supplied with operator)		P125018 - THEKE B PRA 01 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		



er ready



d-track



rolling code



U-Link



ee link



Encoder

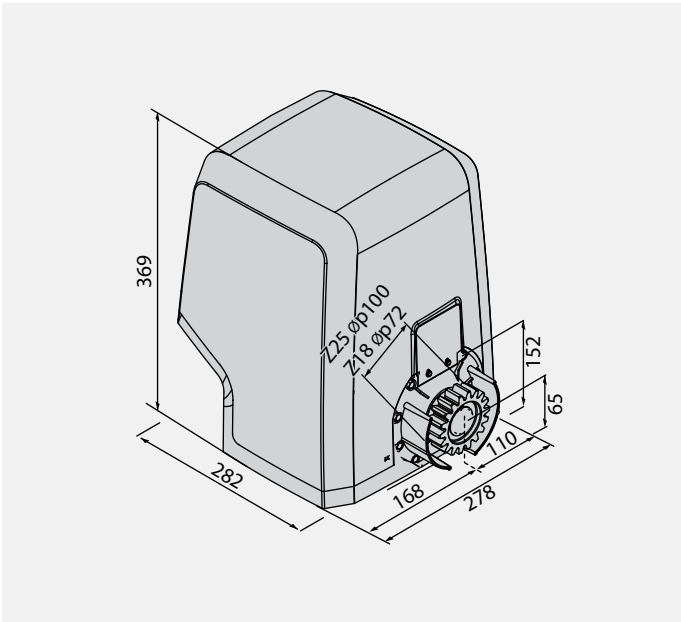


Oil Gear



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)



Technical features

	ICARO ULTRA AC A2000
Control unit	LEO B CBB L02
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 L02: Incorporated control unit for one 230V operator for sliding gates

LEO B CBB L02 - 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-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

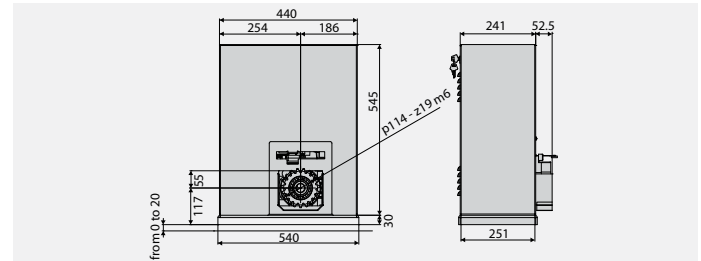
RECOMMENDED ACCESSORIES

D221073 - CP plastic rack, 4-module, cross-section 22 x 22 mm, length 1 m, screw-fitted into slots Max. load capacity 600 kg.	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.
D571054 - CFZ galvanized steel rack, 4-module, cross-section 22 x 22 mm, length 2 m, welding Max. load capacity 2000 kg.	D571053 - CVZ steel rack, 4-module, cross-section 30 x 12 mm, length 1 m, screw on supports Max. load capacity 1000 kg.
N999156 - SFI Base plate for ARES and ICARO (supplied with operator)	P125018 - THEKE B PRA 01 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	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 edge	Sensitive edge	Sensitive edge
Frequency of use	very intensive	very intensive	very intensive
Protection rating		IP54	
Environmental conditions		-15 ÷ 50 °C	

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 limit switch Electromechanical. Three-phase power supply 400 V. Fixing base included. Control unit with 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

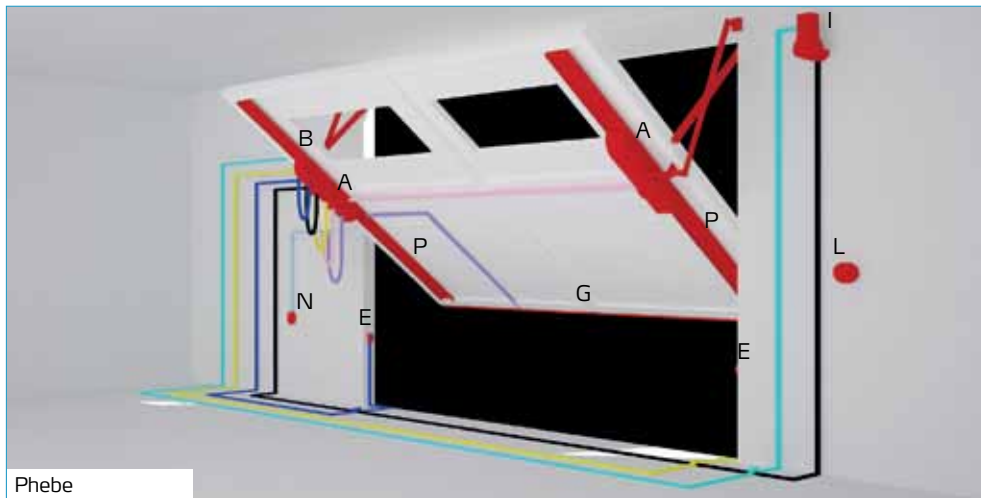
	P111468 - B EBA RS 485 LINK Expansion board for connection of central units with serial controls management		D571491 - CFZ6 galvanized steel rack, 6-module, cross-section 30 x 30 mm, length 2 m, welding Max. load capacity 4000 kg.
	P125015 - SFSP Adjustable anchor base for SP3500, supplied separately		P125016 - SP3500 SAFETY Safety microswitch for SP3500
	D111662 - CLONIX 2 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

Automation systems for garage doors

Guide to choosing

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

Installation guide



Phebe

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



U-Link



New



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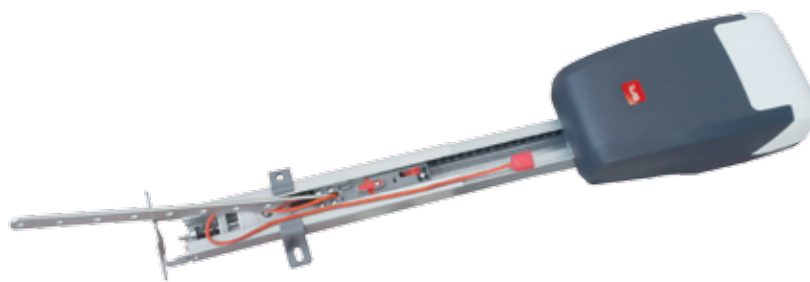
24 V



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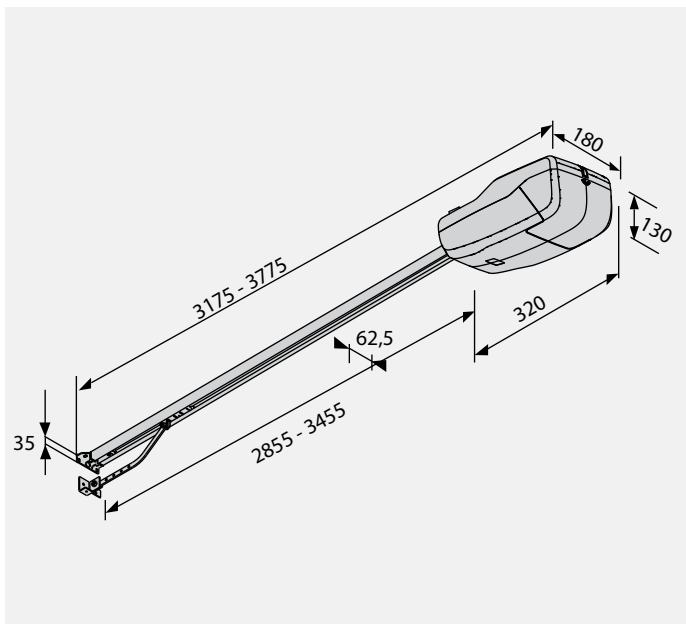


d-track



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)



Technical features

	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	IPX0
Environmental conditions	-20 ÷ 60 °C



Code	Name	Description
P915199 00002	TIZIANO B GDA 260 S01	Operator for sectional garage doors with tractive force 60 kg and Semi intensive use. Door surface area 10 m ² . 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



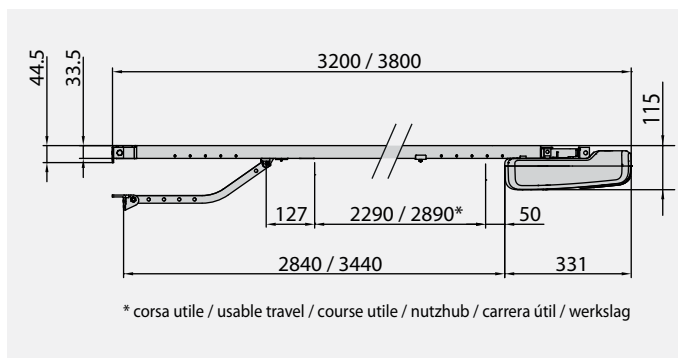
- Control panel for one 24V operator for garage doors
- Application: control unit for 1 24V garage door operator
- Board power supply: 230V single-phase
- Operator power supply: 24V 100W
- Main features: dip-switch programming and potentiometers, incorporated dual channel receiver, D-Track anti-crushing system, slow-down during opening and closing
- Main functions: automatic re-closing, automatic torque control

RECOMMENDED ACCESSORIES

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



Dimension (mm)



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.

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 m ²
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	24 V operator for sectional garage doors with tractive force 60 kg and intensive use. Max door surface area 10 m ² . Opening speed 240 mm/sec. D-Track	
P915212 00002	BOTTICELLI SMART BT A 850	24 V operator for sectional garage doors with tractive force 80 kg and intensive use. Max door surface area 13 m ² . Opening speed 240 mm/sec. D-Track	
P915213 00002	BOTTICELLI SMART BT A 1250	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 190 mm/sec. D-Track	

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



RECOMMENDED ACCESSORIES

<p>new P115036 00001 - BIN 650-850 CATENA 2900</p> <p>Chain rail for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 2900 mm, effective travel 2400 mm</p>	<p>new P115036 00002 - BIN 650-850 CATENA 3500</p> <p>Chain rail for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 3500 mm, effective travel 3000 mm</p>
<p>new P115036 00004 - BIN 650-850 CATENA 2X1450</p> <p>Chain rail divided into two halves for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 2900 mm, travel 2400 mm</p>	<p>new P115036 00005 - BIN 650-850 CATENA 2X1750</p> <p>Chain rail divided into two halves for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 3500 mm, travel 3000 mm</p>
<p>new P115037 00001 - BIN 650-850 CINGHIA 2900</p> <p>Belt rail for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 2900 mm, effective travel 2400 mm</p>	<p>new P115037 00002 - BIN 650-850 CINGHIA 3500</p> <p>Belt rail for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 3500 mm, effective travel 3000 mm</p>
<p>new P115037 00003 - BIN 650-850 CINGHIA 2X1450</p> <p>Belt rail divided into two halves for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 2900 mm, travel 2400 mm</p>	<p>new P115037 00004 - BIN 650-850 CINGHIA 2X1750</p> <p>Belt rail divided into two halves for Botticelli BT A 650-850 compatible with Botticelli 600-800, length 3500 mm, travel 3000 mm</p>
<p>new P115035 00001 - BIN 1250-2900 CATENA</p> <p>Chain rail for Botticelli Smart BT A 1250 compatible with EOS 120, length 2900 mm, effective travel 2400 mm</p>	<p>new P115035 00002 - BIN 1250-3500 CATENA</p> <p>Chain rail for Botticelli Smart BT A 1250 compatible with EOS 120, length 3500 mm, effective travel 3000 mm</p>
<p>new P115035 00003 - BIN 1250 2x1450 CATENA</p> <p>Chain rail divided into two halves for Botticelli Smart BT A 1250 compatible with EOS 120, length 2900 mm, travel 2400 mm</p>	<p>new P115035 00004 - BIN 1250 2x1750 CATENA</p> <p>Chain rail divided into two halves for Botticelli Smart BT A 1250 compatible with EOS 120, length 3500 mm, travel 3000 mm</p>
<p>N733391 - PBE</p> <p>Complete kit for extending the useful travel of the BOTTICELLI and EOS 120 chain rails by 1 m.</p>	<p>new N999060 00001 - APT 5</p> <p>Assembly for fitting BOTTICELLI BT A to the ceiling</p>
<p>N999060 - APT</p> <p>Assembly for fitting BOTTICELLI, EOS 120 at over 30 cm from the ceiling</p>	<p>N999370 - TA BIN</p> <p>Vibration damper plugs for EOS120 and BOTTICELLI, (pack of 4 plugs)</p>
<p>P115005 - SM1</p> <p>External manual release for overhead garage door (1 operator)</p>	<p>N733069 - SET/S</p> <p>External release for insulated sectional and overhead doors of thickness up to 50 mm.</p>
<p>P115003 - ST</p> <p>Automatic bolt release for sectional doors</p>	<p>P115029 - BRTS</p> <p>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.</p>
<p>P125005 - BT BAT</p> <p>Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRAN, ARGO</p>	



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24 V

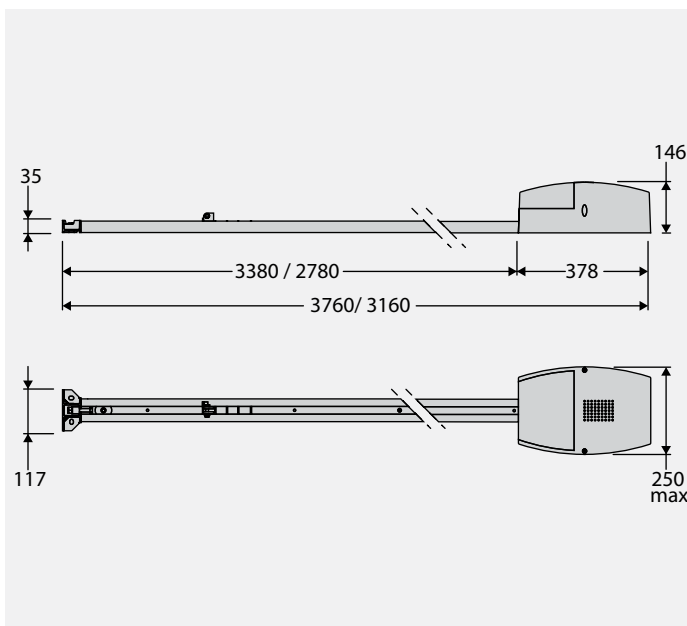


d-track



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	BOTTICELLI 800 U	BOTTICELLI 800	EOS 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 m ²	13 m ²	16 m ²
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	IPX0			
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 m ² . Opening speed 5 m/min. D-Track	
P915194 00007	BOTTICELLI 800 U	24 V 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 m ² . Opening speed 5 m/min. D-Track	U-Link
P915195 00005	EOS 1200 U	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	U-Link

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 1 24V 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

RECOMMENDED ACCESSORIES

	P115020 00001 - BIN CATENA 2900 SINT		P115020 00002 - BIN CATENA 3500 SINT
	P115009 00005 - BIN CATENA 2X1450		P115021 00002 - BIN CATENA 2X1750 SINT
	P115022 00001 - BIN CINGHIA 2900 PIG FE		P115022 00002 - BIN CINGHIA 3500 PIG FE
	P115023 00001 - BIN CINGHIA 2X1450 Pig FE50		P115023 00002 - BIN CINGHIA 2X1750 Pig FE
	P115010 00001 - BIN120 CATENA 2900		P115010 00002 - BIN120 CATENA 3500
	P115010 00003 - BIN120 CATENA 2X 1450		P115010 00004 - BIN120 CATENA 2X 1750
	N733391 - PBE		N999060 - APT
	N999370 - TA BIN		P115005 - SM1
	N733069 - SET/S		P115003 - ST
	P115029 - BRTS		P125006 - CB EOS



U-Link



New



Phase-out



U-Control app
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Accessories
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accessories for control units
set of batteries for control units
expansion boards
software
receivers
transmitters
control devices

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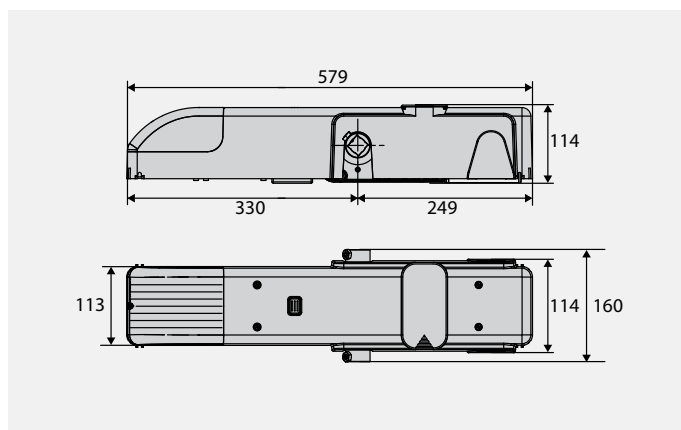
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- U-Link
- d-track
- er ready



Dimension (mm)



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.

Technical features

	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	VEGA				VEGA ULTRA			
Nominal voltage	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Power input	40 W	40 W	40 W	40 W	40 W	40 W	40 W	40 W
Cycle time	17-20 s	17-20 s	17-20 s	17-20 s	17-20 s	17-20 s	17-20 s	17-20 s
Door surface area	8 m ²	8 m ²	8 m ²	8 m ²	8 m ²	8 m ²	8 m ²	8 m ²
Type of limit switch	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Electromechanical	Mems technology	Mems technology
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Locking Release	Mechanical knob	Mechanical knob	Mechanical knob	Mechanical knob	Mechanical knob	Mechanical knob	Mechanical knob	Mechanical 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	Semi intensive	Semi intensive	Semi intensive	Semi intensive	Semi intensive
Protection rating	IP20				IP44			
Environmental conditions	-15 + 60 °C							

Code	Name	Description	
P915136 00002	PHEBE BT A U	Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m ² 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 m ² and Semi intensive use. Cycle time 17-20 s, IP20 Limit switch on-board the motor Limit switch Electromechanical	
P915139 00002	PHEBE BT A U C	Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m ² and Semi intensive use with slowdown. Cycle time 17-20 s, IP20 Limit switch Electromechanical Built-in control unit with D-Track	
P915139 00003	PHEBE BT A C SQ	Operator for overhead garage doors of maximum surface area 8 m ² and Semi intensive use. Cycle time 17-20 s, IP20 Limit switch on-board the motor Limit switch Electromechanical	
P915137 00002	PHEBE BT A U IP44	Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m ² and Semi intensive use with slowdown. Cycle time 17-20 s, IP44 Limit switch Electromechanical IP44	
P915137 00003	PHEBE BT A SQ IP44	Operator for overhead garage doors of maximum surface area 8 m ² and Semi intensive use. Cycle time 17-20 s, IP44 IP44 Limit switch Electromechanical	
P915138 00002	PHEBE ULTRA BT A	Electromechanical operator with built-in control panel for overhead garage doors of maximum surface area 8 m ² and Semi intensive use with slowdown. Cycle time 17-20 s, IP44 Limit switch Mems technology Limit switch with IMU sensor	
P915138 00003	PHEBE ULTRA BT A SQ	Operator for overhead garage doors of maximum surface area 8 m ² and Semi intensive use. Cycle time 17-20 s, IP44 Limit switch Mems technology Limit switch with IMU sensor	
R915150 00002	PHEBE BT A U KIT ITA	Kit for up&over garage doors of maximum surface area 8 m ² . 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	

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, slowdown during opening and closing and electronic self-learning
- Main functions: automatic re-closing, fast closing, pulse blocking, blocking hold
- Compatibility: HYDRA, HYDRA R

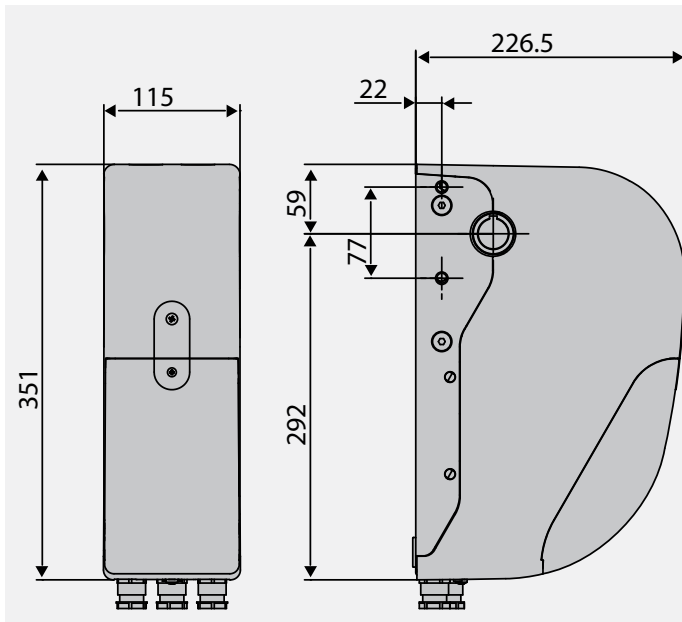
RECOMMENDED ACCESSORIES

	D113836 00002 - VEGA QUADRO QSG Vega control board in CPEL panel Application: control panel for one or two overhead garage door operators		P125007 - BT BAT1 Emergency battery kit for HYDRA N CPEL, only for external board not compatible with board on motor
	P125042 - KABP Battery adapter wiring kit necessary for PHEBE BT A with built-in control unit and for BBT BAT		P125020 - BBT BAT Set of backup batteries for THALIA and THALIA P
	N733299 - CTBP Pack of 1800 mm drive tubes and fixing bases for completing the PHEBE N KIT		D412377 - BCP Short welding base for PHEBE series operators (L 578 mm)
	N733288 - BLP Long welding base for PHEBE series operators (L 1600 mm)		N733120 - CTA 2 square drive tubes of cross section 20x20 mm and length 1800 mm for PHEBE N series operators
	N733129 - CTA2 2 square drive tubes of cross section 20x20 mm and length 200 mm for PHEBE N series operators		N733112 - CBA Straight telescopic arms for the installation of PHEBE series operators on overhead door
	N733119 - CBAS Straight telescopic arms for the installation of PHEBE series operators on overhead door of length 1000 mm		N733113 - CBASL Straight telescopic arms for the installation of PHEBE series operators on overhead door of length 1500 mm
	N733114 - CBAC Curved telescopic arms for the installation of PHEBE series operators on overhead door		N733221 - CBAC-G Curved telescopic arms for installation of PHEBE BT A series operators on up-and-over doors
	P115005 - SM1 External manual release for overhead garage door (1 operator)		P115001 - SM2 External manual release for overhead garage door (2 operators)



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)



Technical features

	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	IP40	
Environmental conditions	-15 ÷ 55 °C	

Code	Name	Description
P925202 00001	ARGO	Operator for sectional doors of surface area up to 20 m ² 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 Pack of mounting tabs for ARGO and ARGO G		N733148 - COR 30 Z30 gear kit complete with accessories for industrial sectional doors, for 1" (25.4 mm) shafts
	N733149 - COR 40 Z40 gear kit complete with accessories for industrial sectional doors, for 1" (25.4 mm) shafts		N733338 - PIG 12/ULISSE S Z12 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts
	N733336 - PIG 14/ULISSE S Z14 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts		N733339 - PIG 18/ULISSE S Z18 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts
	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
	N733422 - RCAL Lever release for ARGO with steel cable, length 7 m		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		P111407 - FALCON Industrial presence sensor installable up to 7 m.



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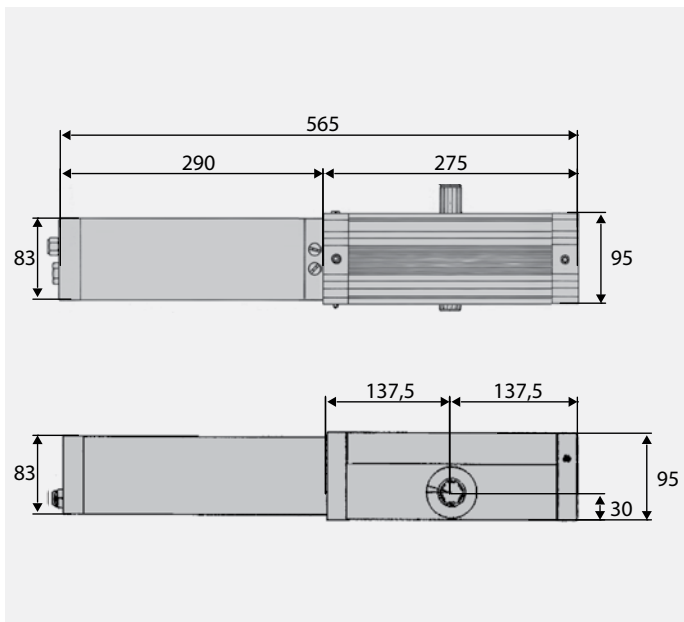


U-Link



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)



Technical features

	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 m ²	9 m ²	9 m ²	9 m 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 m ² and very intensive use. knob release
P915103 00001	BERMA SEB	Hydraulic operator for overhead garage doors of maximum surface area 9 m ² and very intensive use. lever for steel cable release
P915007 00001	BERMA R	Hydraulic operator for overhead garage doors of maximum surface area 9 m ² 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 m ² 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 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 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

<p>new D114092 00002 - ALCOR AC A</p> <p>Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.</p>	<p>Ph. Out D113680 00002 - ALPHA SD</p> <p>Universal control panel with potentiometers for one 230V/500W single-phase operator</p>
<p>N733038 - CA1</p> <p>Straight arm accessories for installation of one BERMA series operator on overhead door of 4 m max width</p>	<p>N733040 - CA2</p> <p>Straight arm accessories for installation of two BERMA series operators on overhead door</p>
<p>N733041 - CA2C</p> <p>Accessories for the installation of two BERMA series operators on overhead door (curved arms)</p>	<p>N733042 - CAS1</p> <p>Straight arm accessories for installation of one Berma operator L = 1000 mm Spain version</p>
<p>N733074 - CAS1L</p> <p>Straight arm accessories for installation of one Berma operator L = 1500 mm Spain version</p>	<p>N733048 - CAS2</p> <p>Straight arm accessories for installation of two Berma operators L = 1000 mm Spain version</p>
<p>N733075 - CAS2L</p> <p>Straight arm accessories for installation of two Berma operators L = 1500 mm Spain version</p>	<p>N733020 - SEB</p> <p>External key release for BERMA, FORB, IGEA LB and IGEA LB BT</p>

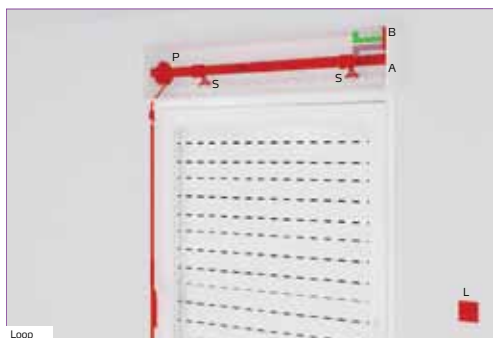


Roller shutters automation systems

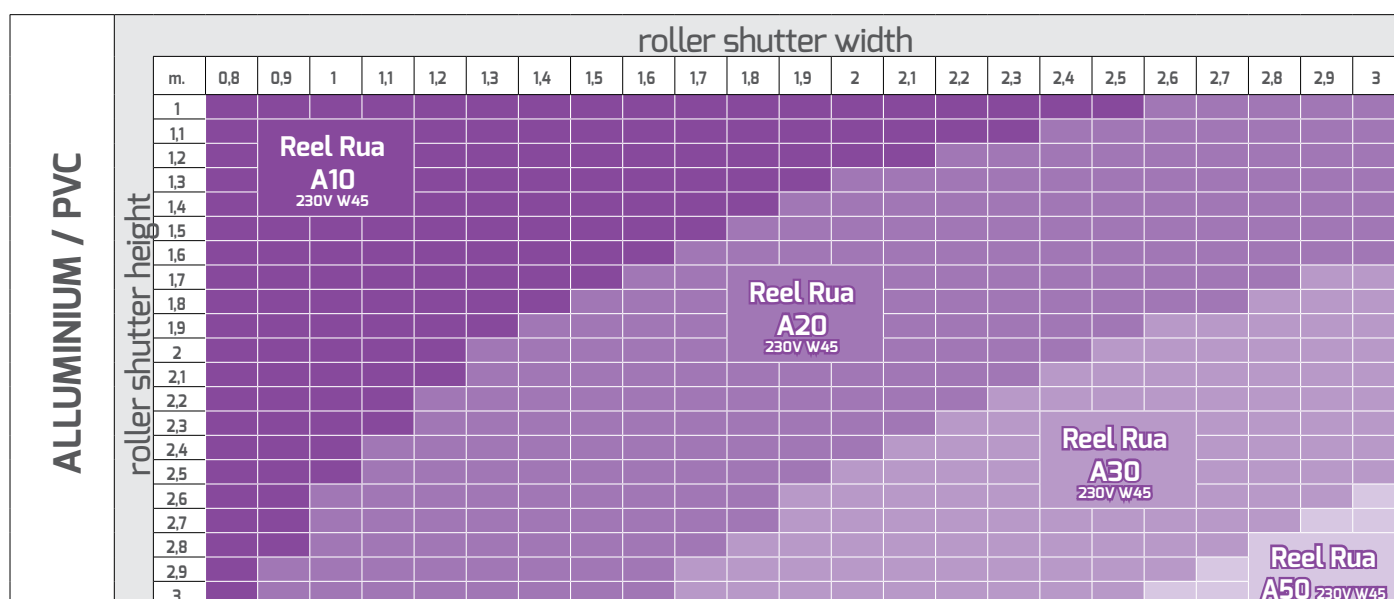
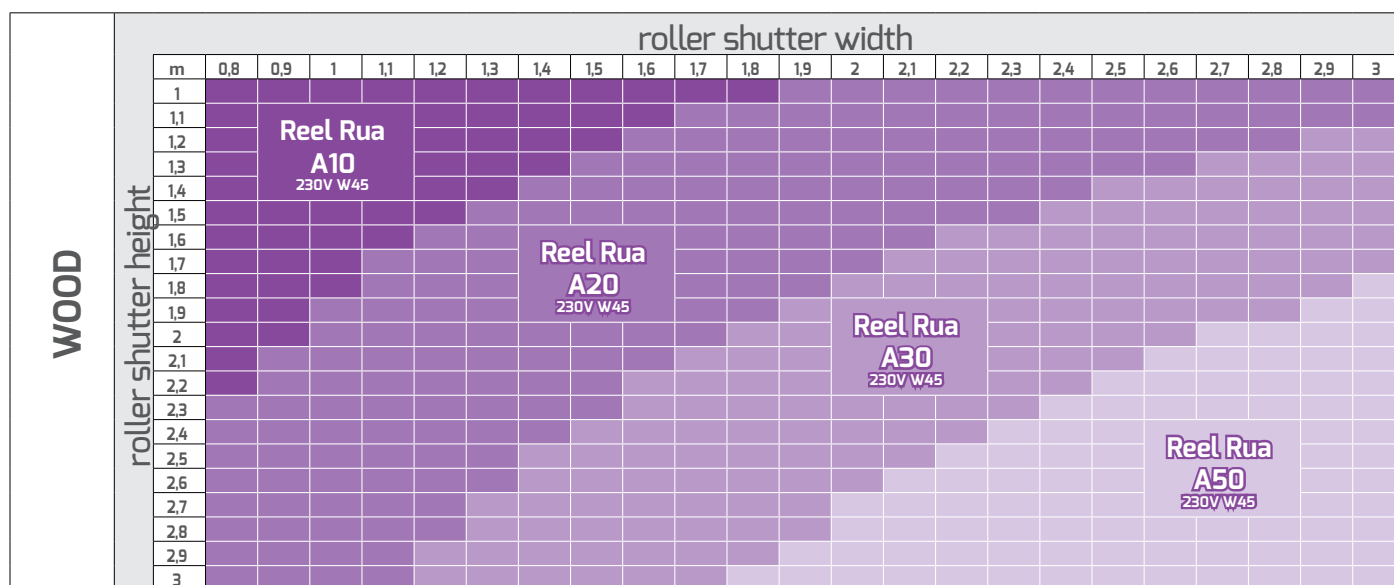
Guide to choosing

Installation guide

Motor power supply	Outer diameter	Actuator weight	Frequency of use	Operator
ROLL-UP				
230 V	60 mm	2.1 kg	Residential	REEL EASY RUA A10 230V R45
				REEL EASY B10 230V W45
		2.2 kg		REEL EASY RUA A20 230V R45
				REEL EASY B20 230V W45
		2.75 kg		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			



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



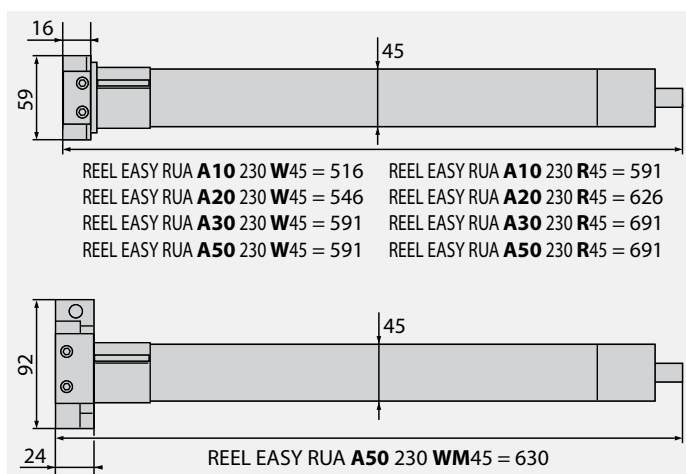


The new Reel range comprises a complete offer of tubular motors:

- 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	230 V	230 V	230 V	230 V
Power input	125 W	180 W	235 W	285 W	285 W	125 W
Outer diameter	60 mm	60 mm	60 mm	60 mm	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		



Code	Name		Description
P910052 00001	REEL EASY B10 230V W45		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		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		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		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		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		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

	P111515 - SHEDIR B CBC 02 L01 Control unit for wired centralisation. For 2 operators (or 2 groups of operators)		P121028 - MIME PAD 4-channel wall-mounted radio control with rolling code
	D113831 - MIME TX two-channel miniaturized 433 Mhz transmitter		D113716 00002 - ELBA ELBA control panel
	P111376 - SCS 1 Expansion card		P111183 - CREP Twilight sensor
	P111182 - ANEM Anemometric sensor with encoder for wind		N999323 - AD 5027 Drive wheel and limit switch adapter for RUL60. Not suitable with REEL EASY B
	N999327 - AD5028 Octagonal adapter Ø70 mm zamak. Not suitable with REEL EASY B		N999348 - AD5029 Round adapter Ø63x1.5 mm. Not suitable with REEL EASY B
	N999349 - AD5030 Deprat LP62 adapter. Not suitable with REEL EASY B		N999350 - AD5031 Deprat LP89 adapter. Not suitable with REEL EASY B
	N999351 - AD5032 ZF 64 adapter. Not suitable with REEL EASY B		N999395 - AD5034 ZF 54 adapter. Not suitable with REEL EASY B
	N999396 - AD5035 Ogive adapter Ø78 mm. Not suitable with REEL EASY B		N999397 - AD5036 Octagonal adapter 60 PL. Not suitable with REEL EASY B
	N999547 - AD5038 Metallic ogive adapter Ø70 mm. Not suitable with REEL EASY B		P130015 - SM504 Support with bearing for octagonal roller - screw type

RECOMMENDED ACCESSORIES

	Ph. Out P130014 - SM505		Ph. Out N999324 - SM5013
Support for octagonal roller - cementing type		Wall-mounted orientable support for operators with manual release	
	N999325 - SM5014		Ph. Out N999326 - SM5015
Wall support for operators with square snap pin and split pin for direct coupling, suitable for all operators (from 10Nm to 50Nm).		Wall-mounted two-position orientable support for operators with manual release	
	Ph. Out P130004 - CAL 60/30		P130002 - CAL 60/100
Octagonal cover for RUL 60.		Adjustable telescopic octagonal cover for RUL 60.	
	Ph. Out P130010 - RUL 60/1,5		P130012 - RUL 60/3
Octagonal shutter winding roller Ø60 mm x 1.5 m.		Octagonal shutter winding roller Ø60 mm x 3 m.	
	Ph. Out P130008 - RUL 60/6		Ph. Out P130001 - BLOCCANTI 40
Octagonal shutter winding roller Ø60 mm x 6 m.		Anti-break-in block for shutters with slats of height 40 mm.	
	Ph. Out P130013 - BLOCCANTI 50		Ph. Out N999328 - MM8
Anti-break-in block for shutters with slats of height 50 mm.		Manual operation eye-ring	
	Ph. Out N999329 - MM9		Ph. Out N999330 - MM10
45° universal joint for manual operation		90° universal joint for manual operation	
	Ph. Out N999331 - MM11		Ph. Out N999332 - MM12
1.5 m articulated boom with hook for manual operation		1.5 m rigid boom with hook for manual operation	
	Ph. Out P130025 - ER 1		Ph. Out P130024 - Timer
External receiver for REEL RUA series operators. Compatible with PAD series transmitters		Weekly programmer for REEL RADIO or external ER-1 receiver	
	Ph. Out D111911 - Pad Rcd 01 F		Ph. Out D111909 - Pad Rcd 01 R
Wall-mounted remote control 1 channel for radio tubes		1-channel remote control for REEL RUA, LOOP RADIO and ER-1 receiver	
	Ph. Out D111910 - Pad Rcd 05 R		D113824 - MIME AC
5-channel remote control for REEL RUA, LOOP RADIO and ER-1 receiver		433 MHz 2-channel indoor receiver 2 independent outputs 230 Vac power supply 30-position memory Operating mode: monostable, bistable, timed, motor control	
	D111947 - MITTO B RCB04 R1 CLEAR ICE		D111906 - MITTO B RCB04 R1
Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: clear ice white		Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A	
	D111904 - MITTO B RCB02 R1		D113717 00002 - ELBA BU
Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		Control panel, max 230V, for roller shutters or roll-up doors	



U-Link



New



Phase-out



U-Control app
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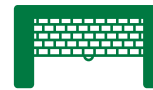


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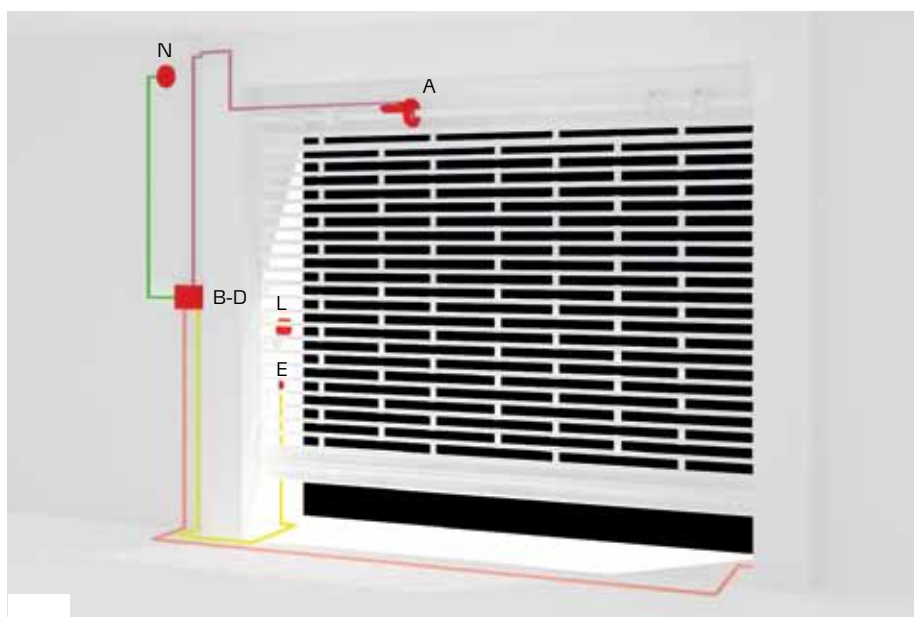


Automation systems for rolling shutters

Guide to choosing

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

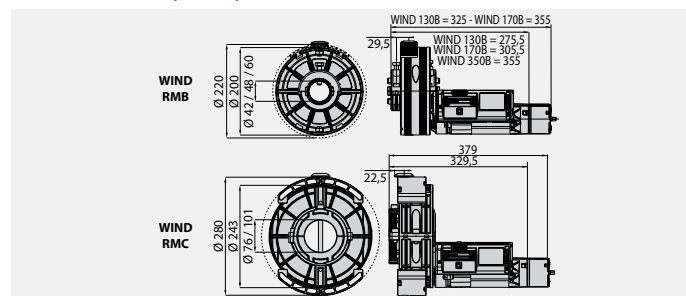


A	Operator
B	Control unit
D	Receiver
E	Photocell
L	Control devices
N	Junction box
	3x1.5
	2x1
	9x0.5
	14x0.5



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 RMB 130B 200-230	WIND RMB 130B 200-230 EF	WIND RMB 170B 200-230	WIND RMB 170B 200-230 EF	WIND RMB 350B 200-230 EF	WIND RMC 235B 240-230	WIND RMC 235B 240-230 EF	WIND RMC 445B 240-230 EF
Control unit	ELBA/ELBA 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	null	null	null	null	null	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 monophasic
- Main features: Extremely compact size for installation in shutter case, programming with potentiometers and dip switches, built-in receiver, control button on case
- Main functions: separate open/close, photocells input, possibility of centralised controls, anemometer and twilight sensor management
- Compatibility: CAPRI, CAPRI RIC, CAPRI TCA

RECOMMENDED ACCESSORIES

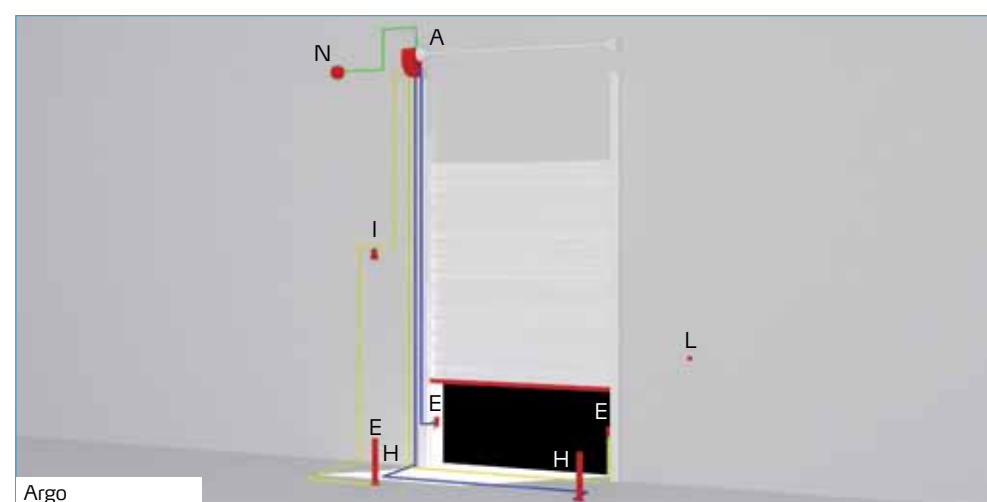
	P111515 - SHEDIR B CBC 02 L01 Control unit for wired centralisation. For 2 operators (or 2 groups of operators)		D113716 00002 - ELBA ELBA control panel
	N574039 - BOX Wall safe for unlocking with steel cable and electrical control; cable not included		N999510 - X EF1 Electric brake for Wind Rmc and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

Automation systems for industrial sectional doors and folding doors

Guide to choosing

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

Installation guide



A	Operator
B	Control unit
D	Receiver
E	Photocell
G	Sensitive edge
H	Post
I	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

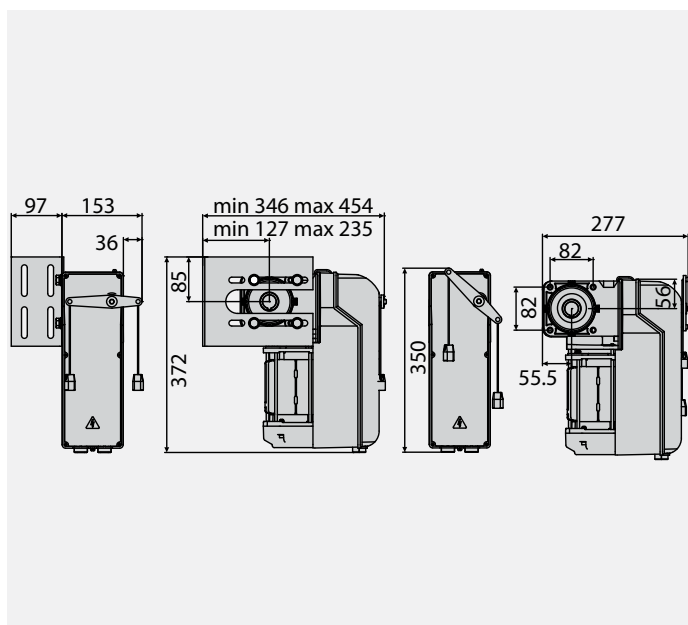


24V electromechanical operator for semi-intensive use, for automation of industrial sectional doors up to 25 m² (Pegaso B Cja 625) or up to 45 m².

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 L01			LEO B CBB 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	IP54		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 m ² 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 m ² 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 m ² and use intensive. Power supply 400 V. max speed 24 Rpm. max torque 100 nm. Double cable release. IP55

LEO B CBB L01: 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 W01: Control board for PEGASO CJA three-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

	D121631 - PEGASO CABLE MONO Pre-wired power supply cable for PEGASO single phase operators. Length 1 m		D121632 - PEGASO CABLE TRI Pre-wired power supply cable for PEGASO three-phase operators. Length 1 m
	D121674 - PEGASO CABLE ENC 5 Pre-wired connection cable between operator and external control unit for the management of encoder. Length 5 m		D121675 - PEGASO CABLE ENC 10 Pre-wired connection cable between operator and external control unit for the management of encoder. Length 10 m
	D121679 - PEGASO CABLE AUTO 5N Pre-wired connection cable between PEG INT and external control unit electric power supply. Length 5 m		D121680 - PEGASO CABLE AUTO 10N Pre-wired connection cable between PEG INT and external control unit electric power supply. Length 10 m
	N999468 - PEG CCP Extension for PEGASO C operators release chain. Length 4 m		N733338 - PIG 12/ULISSE 5 Z12 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts

RECOMMENDED ACCESSORIES

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

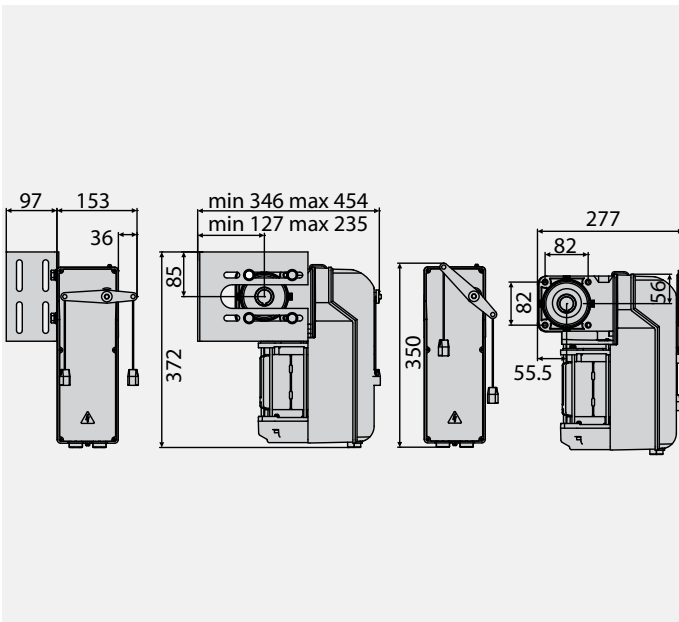


24V electromechanical operator for semi-intensive use, for automation of industrial sectional doors up to 25 m² (Pegaso B Cja 625) or up to 45 m².

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).
Dead man switch

Dimension (mm)



Technical features

	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

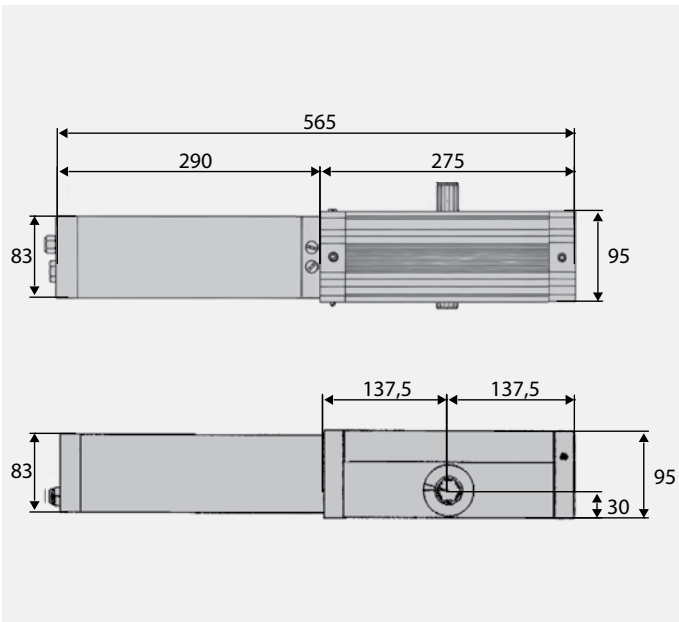
RECOMMENDED ACCESSORIES

D121631 - PEGASO CABLE MONO Pre-wired power supply cable for PEGASO single phase operators. Length 1 m	D121632 - PEGASO CABLE TRI Pre-wired power supply cable for PEGASO three-phase operators. Length 1 m
D121624 - PEGASO UP CONTROL 5 Cable with pre-wired OPEN - STOP - CLOSE keypad for PEGASO UP operators. For adjusting motor limit switches from floor level. Length 5 m	D121625 - PEGASO UP CONTROL 10 Cable with pre-wired OPEN - STOP - CLOSE keypad for PEGASO UP operators. For adjusting motor limit switches from floor level. Length 10 m
N999468 - PEG CCP Extension for PEGASO C operators release chain. Length 4 m	N733338 - PIG 12/ULISSE 5 Z12 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts
N733336 - PIG 14/ULISSE 5 Z14 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts	N733339 - PIG 18/ULISSE 5 Z18 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts
N733337 - PIG 30/ULISSE 5 Z30 pinion gear for industrial sectional doors, for 1" (25.4 mm) shafts	N733148 - COR 30 Z30 gear kit complete with accessories for industrial sectional doors, for 1" (25.4 mm) shafts
N733149 - COR 40 Z40 gear kit complete with accessories for industrial sectional doors, for 1" (25.4 mm) shafts	N733121 - SFZ Additional fixing bracket kit. To be used on chain drive installations.
N733449 - PEGASO ADA PEGASO ADA adapter for installation on doors with 1 1/4" shaft	



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)



Technical features

	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		IP57	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 m ² 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 m ² 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

	<p>N733020 - SEB</p> <p>External key release for BERMA, FORB, IGEA LB and IGEA LB BT</p>		<p>P111407 - FALCON</p> <p>Industrial presence sensor installable up to 7 m.</p>
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U-Link



New



Phase-out



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set of batteries for control units
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safety devices - photocells and accessories
safety devices - sensitive edges
rubber profiles
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d-track



ee link



er ready



24 V

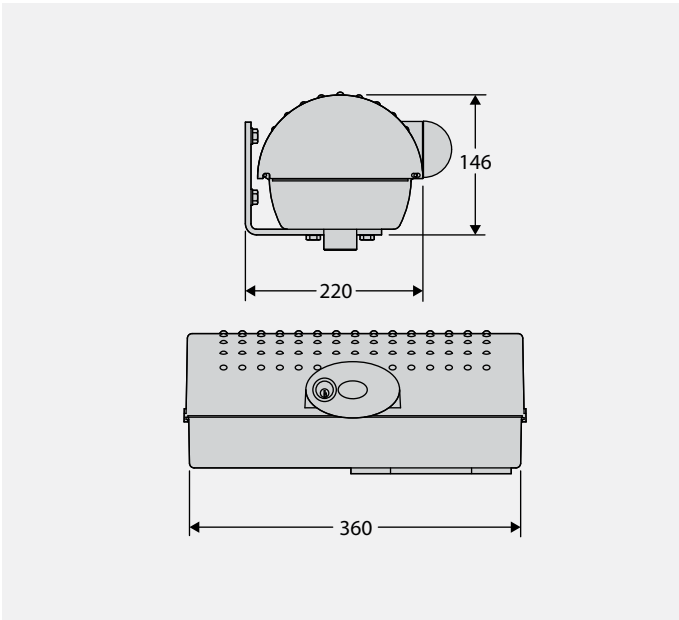


U-Link



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)



Technical features

	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	IP4X	
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 BK2.
- 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

	<p>D113811 00004 - ALENA SW2</p> <p>Control panel with slow-down, dip switches and potentiometers for one or two 230V 400W+400W, operators for swing gates and industrial folding doors</p>		<p>D113745 00002 - THALIA</p> <p>Control panel with display for one or two 24V electromechanical operators for swing gates</p>
	<p>N733020 - SEB</p> <p>External key release for BERMA, FORB, IGEA LB and IGEA LB BT</p>		

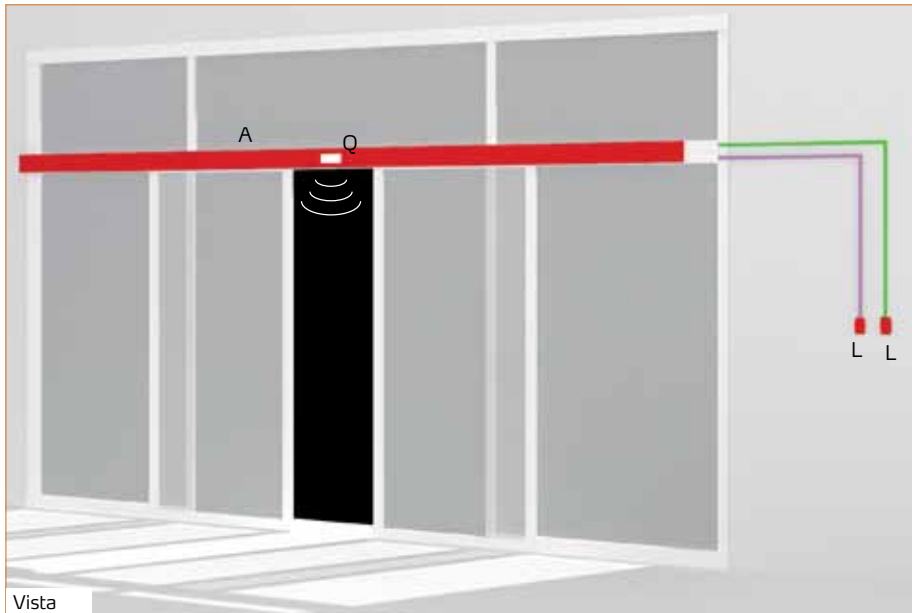


Automation systems for automatic pedestrian doors

Guide to choosing

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

Installation guide



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

Vista



er ready



ee link



24 V



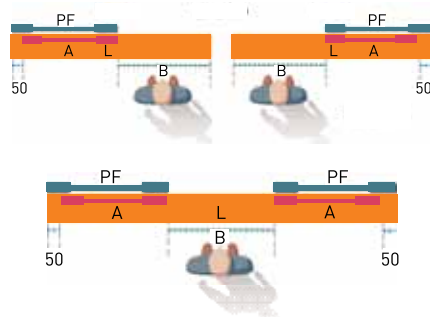
U-Link



d-track

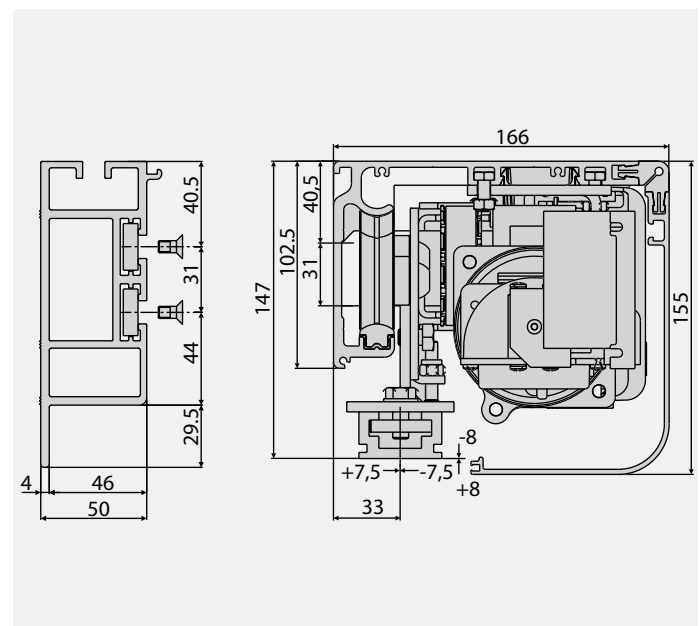


Complete range of automation systems for sliding pedestrian doors with a maximum leaf weight of 150 kg. The control unit, with a programming display and microprocessor technology, makes it possible to control all the main functions automatically. Shock-absorbing track and specially shaped wheels ensure that movement is absolutely silent. U-Link interconnectivity protocol



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

Dimension (mm)



Technical features

	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



U-Link



New



Phase-out


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 Accessories
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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
P. 228 solenoid locks
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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

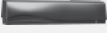





- Control unit for pedestrian doors
- Application: control unit for pedestrian doors
- Board power supply: 230V single-phase
- Operator power supply: 24V
- Main features: programming with display, incorporated dual channel receiver, anti-crushing, slowdown during opening and closing
- Main functions: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

VISTA SL


D113722 - VISTA SEL	Function selector for pedestrian door series VISTA SL, SL C, TL	P111768 - BBV BATT MODULO VISTA SL	Set of backup batteries for VISTA SL
P111445 - SBV	Anodised aluminium supporting crosspiece for VISTA SL	P111681 - PRV AA SL	Leaf attachment profile for Vista SL. L = 2600 mm
P111680 - WMP SL SLC	Contains 2 crossbeam support profiles of length L = 1 m each	N733408 - ERV	Solenoid lock assembly for VISTA SL/SL C, (use with BBV recommended) ERV
P111156 - PPR	Door guide slide for automatic doors with aluminium frame	P111158 - PGI	Bottom door guide for automatic doors with aluminium frame
P111720 00002 - SASA 1AM SIST SFOND.1 ANTA MOBILE	Breakthrough system kit for 1 movable leaf	P111721 00002 - SASA 1AMF SIST SFOND.ANTE 1 MOB + 1 FX	Breakthrough system kit for 1 fixed leaf and 1 movable leaf

VISTA SL

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

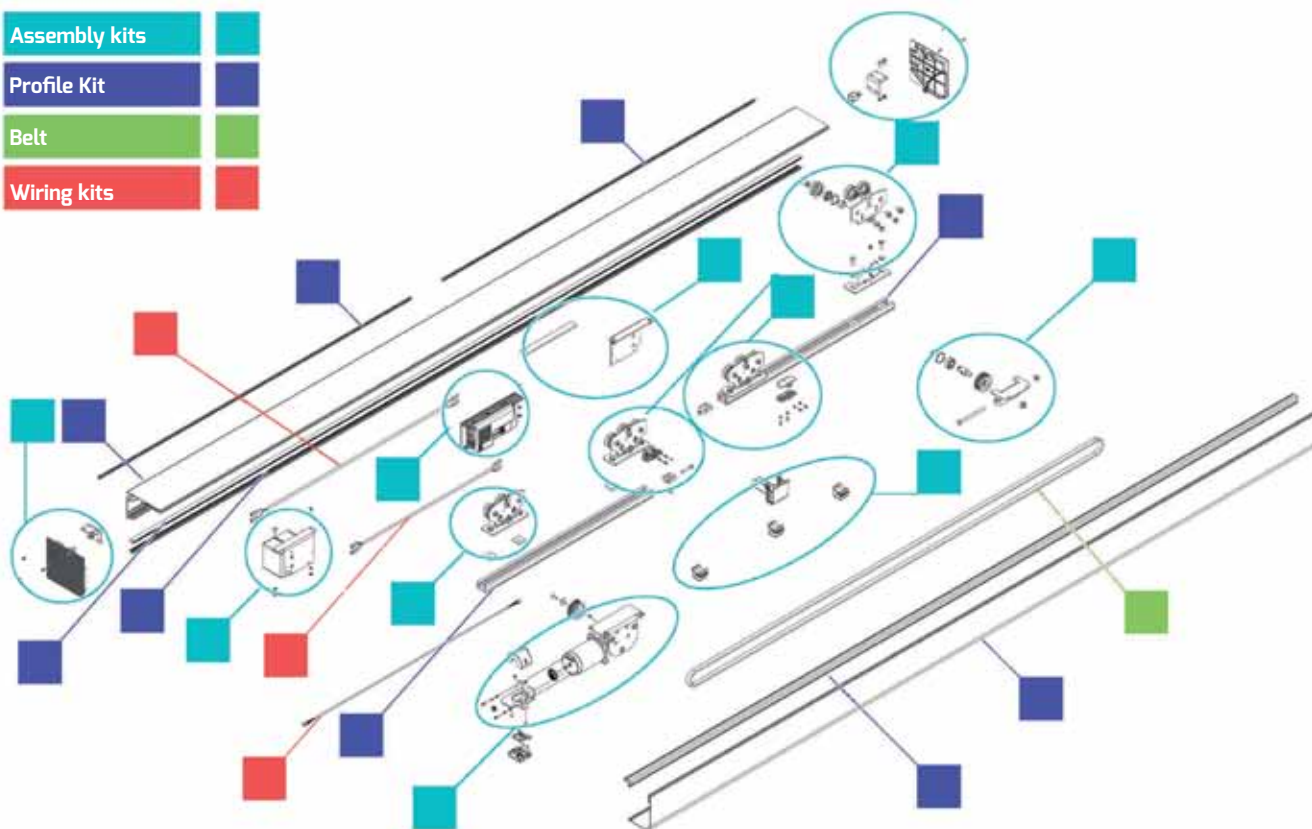


VISTA SL

	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

Assembly kits	
Profile Kit	
Belt	
Wiring kits	



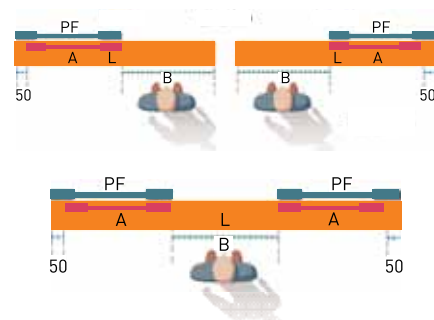
VISTA SL

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 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	



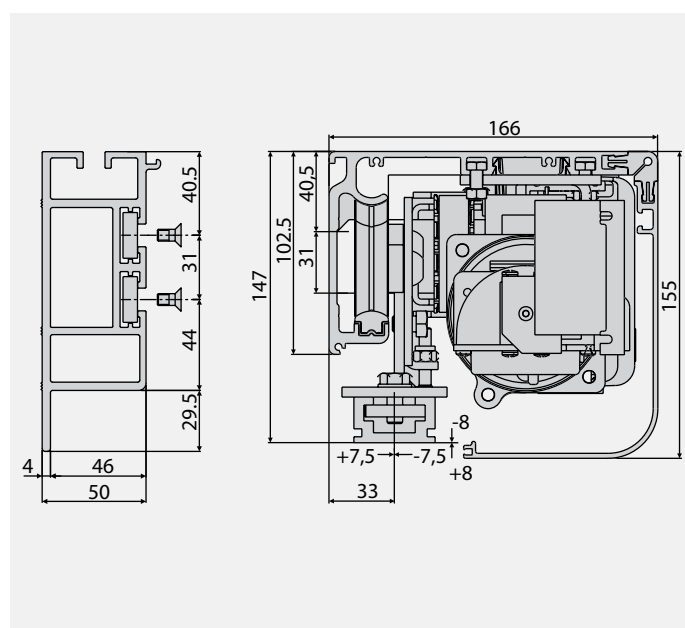
- er ready
- ee link
- 24 V
- U-Link
- d-track

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



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

Dimension (mm)



Technical features

	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	IPX0	IPX0
Environmental conditions	50 °C	50 °C

Code	Name	Anodised casing	Description
P960634 00002	VISTA SL E-107 230V	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 00002	VISTA SL E-108 230V	P111412 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 850 mm and crosspiece width 1800 mm.
P960636 00002	VISTA SL E-109 230V	P111414 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 950 mm and crosspiece width 2000 mm.
P960637 00002	VISTA SL E-110 230V	P111473 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1050 mm and crosspiece width 2200 mm.
P960638 00002	VISTA SL E-111 230V	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	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	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 00002	VISTA SL E-114 230V	P111419 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1450 mm and crosspiece width 3000 mm.
P960642 00002	VISTA SL E-115 230V	P111420 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1550 mm and crosspiece width 3200 mm.
P960643 00002	VISTA SL E-116 230V	P111421 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1650 mm and crosspiece width 3400 mm.
P960644 00002	VISTA SL E-117 230V	P111422 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 1750 mm and crosspiece width 3600 mm.
P960645 00002	VISTA SL E-119 230V	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	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	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 00002	VISTA SL E-125 230V	P111426 00002	Operator for pedestrian sliding doors with 1 leaf with max weight 100 kg. useful passage 2550 mm and crosspiece width 5200 mm.
P960649 00002	VISTA SL E-208 230V	P111413 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 800 mm and crosspiece width 1900 mm.
P960650 00002	VISTA SL E-209 230V	P111414 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 900 mm and crosspiece width 2000 mm.
P960651 00002	VISTA SL E-210 230V	P111473 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1000 mm and crosspiece width 2200 mm.
P960652 00002	VISTA SL E-211 230V	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	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	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 00002	VISTA SL E-214 230V	P111419 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1400 mm and crosspiece width 3000 mm.
P960656 00002	VISTA SL E-215 230V	P111420 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1500 mm and crosspiece width 3200 mm.
P960657 00002	VISTA SL E-216 230V	P111421 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1600 mm and crosspiece width 3400 mm.
P960658 00002	VISTA SL E-217 230V	P111422 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 1700 mm and crosspiece width 3600 mm.
P960659 00002	VISTA SL E-219 230V	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	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	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 00002	VISTA SL E-225 230V	P111426 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 2500 mm and crosspiece width 5200 mm.
P960663 00002	VISTA SL E-227 230V	P111427 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 2700 mm and crosspiece width 5600 mm.
P960664 00002	VISTA SL E-229 230V	P111428 00002	Operator for pedestrian sliding doors with 2 leaf with max weight 80+80 Kg. useful passage 2900 mm and crosspiece width 6000 mm.

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



U-Link



New



Phase-out



U-Control app
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Accessories
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accessories for control units
set of batteries for control units
expansion boards
software
receivers
transmitters
control devices

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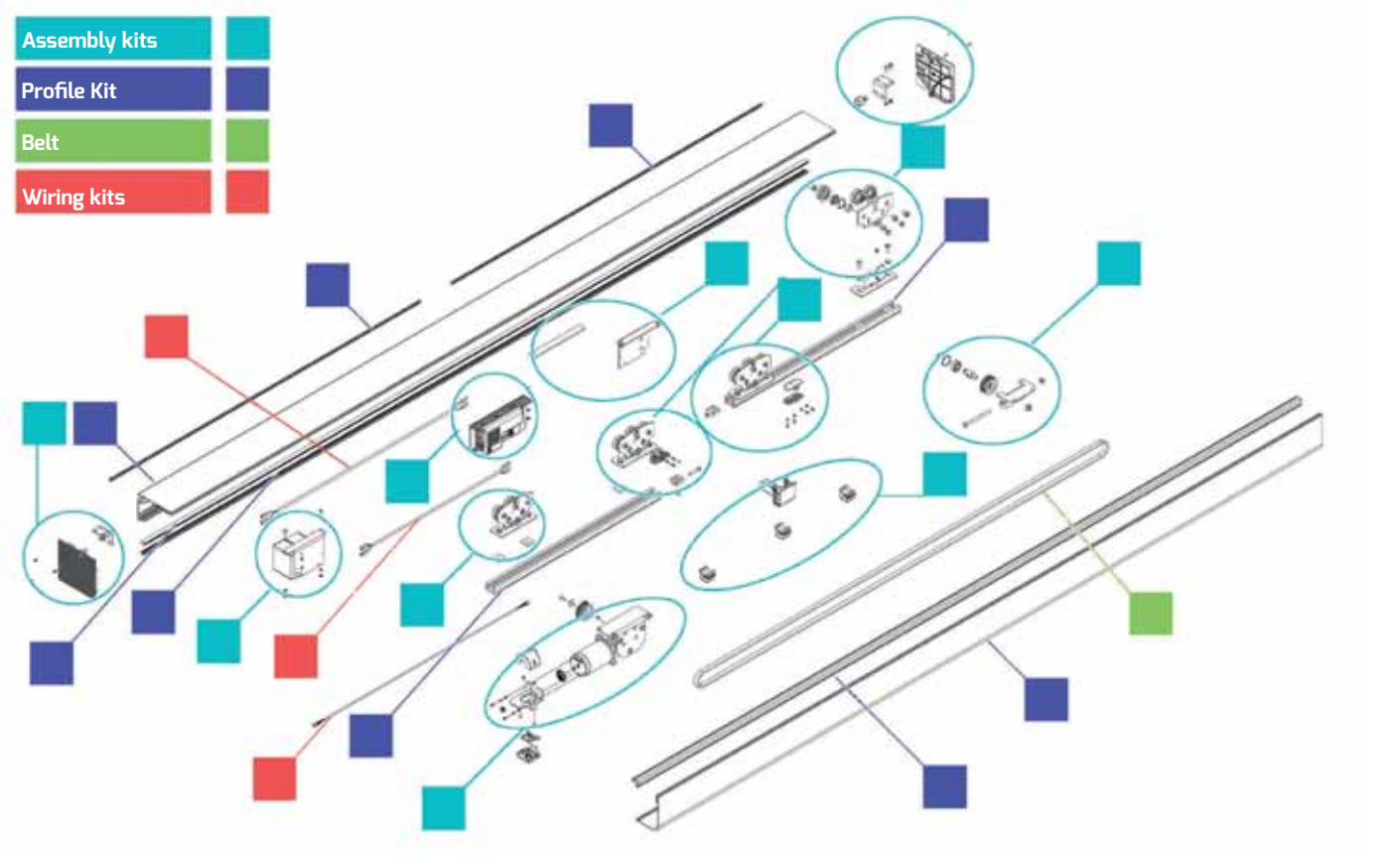
VISTA SL E

	D113722 - VISTA SEL Function selector for pedestrian door series VISTA SL, SL C, TL		P111768 - BBV BATT MODULO VISTA SL Set of backup batteries for VISTA SL
	P111445 - SBV Anodised aluminium supporting crosspiece for VISTA SL		P111681 - PRV AA SL Leaf attachment profile for Vista SL. L = 2600 mm
	P111680 - WMP SL SLC Contains 2 crossbeam support profiles of length L = 1 m each		N733408 - ERV Solenoid lock assembly for VISTA SL/SL C, (use with BBV recommended) ERV
	P111156 - PPR Door guide slide for automatic doors with aluminium frame		P111158 - PGI Bottom door guide for automatic doors with aluminium frame
	P111720 00002 - SASA 1AM SIST SFOND.1 ANTA MOBILE Breakthrough system kit for 1 movable leaf		P111721 00002 - SASA 1AMF SIST SFOND.ANTE 1 MOB + 1 FX Breakthrough system kit for 1 fixed leaf and 1 movable leaf
	P111722 00002 - SASA 2AM SIST SFOND...2 ANTE MOB Breakthrough system kit for 2 movable leaves		P111723 00002 - SASA 2AMF SIST SFOND.ANTE 2 MOB + 2 FX Breakthrough system kit for 2 fixed leaves and 2 movable leaves
	P111724 00002 - SASA STAFFE PER FOTOC. RILIEVO SFONDAM. ANTE Bracket kit for mounting FPA1 photocells for leaf breakage detection		P111725 00002 - SASA PRA 2,5 PROF.PROT.ANTE FX/MOB 2.5M Protection profile for fixed/movable leaf. Length L = 2.5 m
	P111726 00002 - SASA PRA 5 PROF. PROTEZ.ANTE FX/MOB, 5M Protection profile for fixed/movable leaf. Length L = 5 m		P111607 00002 - PRV 40.080 CORNICE ABBATTIMENTO L=6,82 Break-open frame for fixed leaf joint. Length L = 6.82 m
	P111610 00002 - PRV 40.120 MONTANTE ABBATTIMENTO L=5,1 Break-open upright for fixed leaf joint. Length L = 5.1 m		N733589 - PRV 40.A53 CERNIERE PER SASA DX Right hinge for joint on fixed leaf
	N733590 - PRV 40.A54 CERNIERE PER SASA SX Left hinge for joint on fixed leaf		P111753 - OA-AXIS T Active infrared sensor for activation and security with safety test
	P111751 - OA-AXIS II Active infrared sensor for activation and security		P111754 - OA-203C Active infrared sensor for activation and presence
	P111755 - OA-PRESENCE TN Active infrared sensor for security		P111759 - OT 3 Elbow-operated pushbutton, silver
	P111653 - VIO-DT2 Safety and bi-directional activation sensor, dual technology, monitored		P111654 - VIO-DT1 Safety and mono-directional activation sensor, dual technology, monitored
	P111655 - IXIO-DT1 Safety and mono-directional activation sensor, dual technology, monitored, programmable c.telecom.		P111656 - VIO-ST Infrared safety sensor, monitored
	P111662 - VIO-M Compact mono-directional activation sensor		P111676 - MAGIC SWITCH Activation touch button
	P111677 - PUSH PLATE Activation button		P111678 - SPAC Pair of locks (2) for glass leaf
	P111687 - KIT FPA MA-I2 FPA MA 12 kit with two pairs photocells and brackets for Vista		P111685 - KIT FPA2 FPA kit with two pairs photocells and brackets for Vista

VISTA SL E

	P111683 - KIT FPA1			
	FPA kit with pair of photocells and brackets for Vista			

Assembly kits



VISTA SL E

Code	Name
P960633 00002	Kit Vista SLE Modulo 1 Anta - 230V new
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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U-Link



d-track



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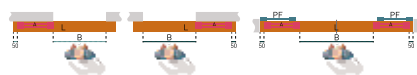


24 V

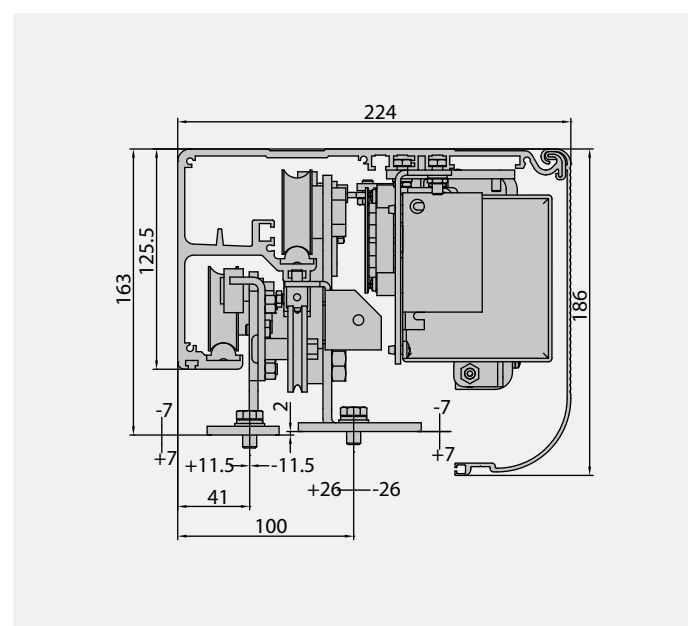


Automation for telescopic sliding doors for leaf weights up to 2x120Kg and 4x80Kg. Ideal for obtaining maximum useful passage in a limited space, the control unit with programming display allows local automatic adjustment of all the main functions and remote management via U-Link interconnectivity protocol

Dimension (mm)



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



Technical features

	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
Release	Release lever	Release lever
Impact reaction	Electronic torque limiter	Electronic torque limiter
Use cycle	Continuous	Continuous
Protection rating	IPX0	IPX14
Environmental conditions	-20 ÷ 55 °C	

Code	Name	Description	
P960580 00002	VISTA TL2-207	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 750 mm and transom width 1350 mm. Maximum useful passage	U-Link
P960581 00002	VISTA TL2-208	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 850 mm and transom width 1500 mm. Maximum useful passage	U-Link
P960582 00002	VISTA TL2-209	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 950 mm and transom width 1650 mm. Maximum useful passage	U-Link
P960583 00002	VISTA TL2-210	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 1050 mm and transom width 1800 mm. Maximum useful passage	U-Link
P960584 00002	VISTA TL2-212	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 1250 mm and transom width 2100 mm. Maximum useful passage	U-Link
P960585 00002	VISTA TL2-214	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 1450 mm and transom width 2400 mm. Maximum useful passage	U-Link
P960586 00002	VISTA TL2-216	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 1650 mm and transom width 2700 mm. Maximum useful passage	U-Link
P960587 00002	VISTA TL2-218	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 1850 mm and transom width 3000 mm. Maximum useful passage	U-Link
P960588 00002	VISTA TL2-220	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 2050 mm and transom width 3300 mm. Maximum useful passage	U-Link
P960589 00002	VISTA TL2-222	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 2250 mm and transom width 3600 mm. Maximum useful passage	U-Link
P960590 00002	VISTA TL2-224	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 2450 mm and transom width 3900 mm. Maximum useful passage	U-Link
P960591 00002	VISTA TL2-226	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 2650 mm and transom width 4200 mm. Maximum useful passage	U-Link
P960592 00002	VISTA TL2-228	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 2850 mm and transom width 4500 mm. Maximum useful passage	U-Link
P960593 00002	VISTA TL2-230	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 3050 mm and transom width 4800 mm. Maximum useful passage	U-Link
P960594 00002	VISTA TL2-232	Operator for telescopic sliding pedestrian doors with 2 leaves and max. weight 2x120 kg. useful passage 3250 mm and transom width 5100 mm. Maximum useful passage	U-Link
P960595 00002	VISTA TL4-416	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 1600 mm and transom width 2600 mm. Maximum useful passage	U-Link
P960596 00002	VISTA TL4-418	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 1800 mm and transom width 2900 mm. Maximum useful passage	U-Link
P960597 00002	VISTA TL4-420	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 2000 mm and transom width 3200 mm. Maximum useful passage	U-Link
P960598 00002	VISTA TL4-422	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 2200 mm and transom width 3500 mm. Maximum useful passage	U-Link
P960599 00002	VISTA TL4-424	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 2400 mm and transom width 3800 mm. Maximum useful passage	U-Link
P960600 00002	VISTA TL4-426	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 2600 mm and transom width 4100 mm. Maximum useful passage	U-Link
P960601 00002	VISTA TL4-428	Operator for telescopic sliding pedestrian doors with 4 leaves and max. weight 4x80 kg. useful passage 2800 mm and transom width 4400 mm. Maximum useful passage	U-Link
P960602 00002	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	U-Link
P960603 00002	VISTA 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	U-Link
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	U-Link



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

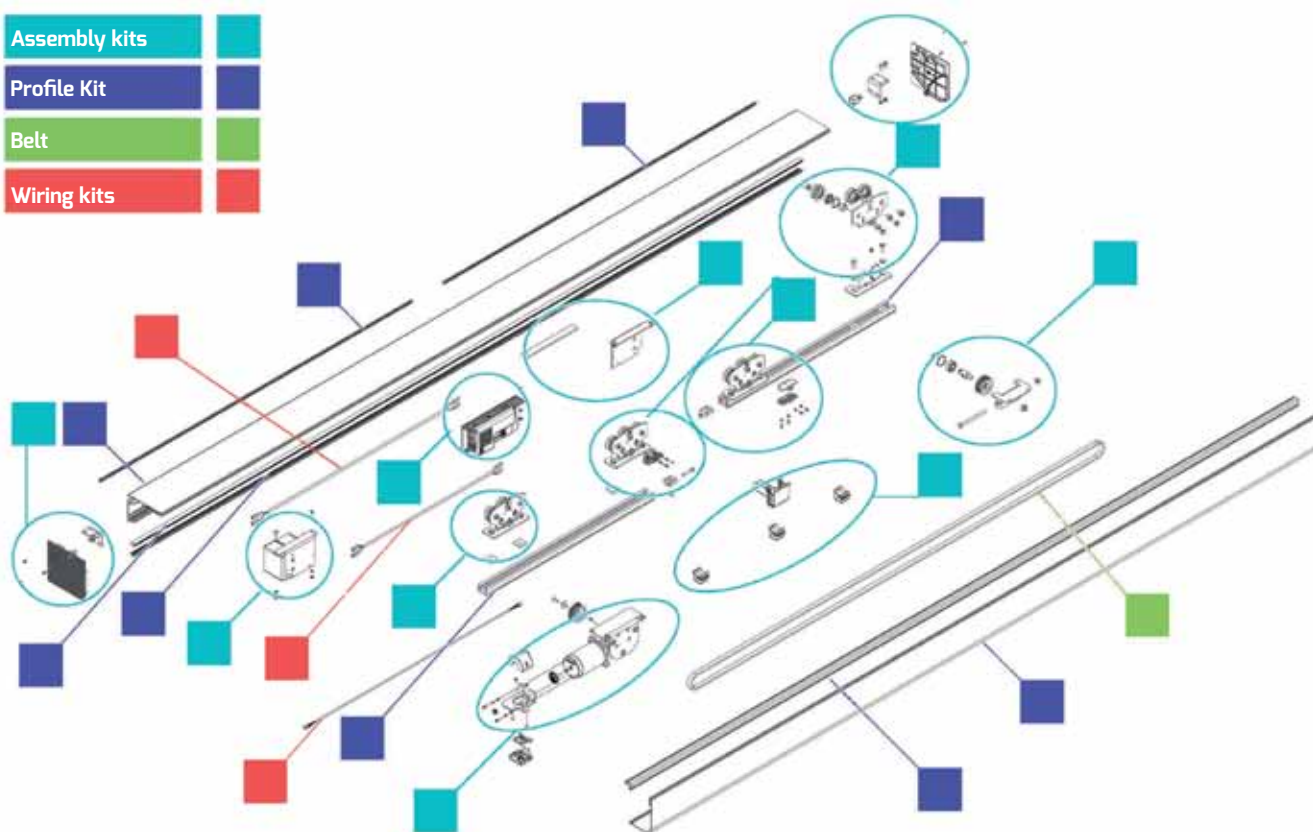
VISTA TL

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



Assembly kits

Assembly kits	
Profile Kit	
Belt	
Wiring 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



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

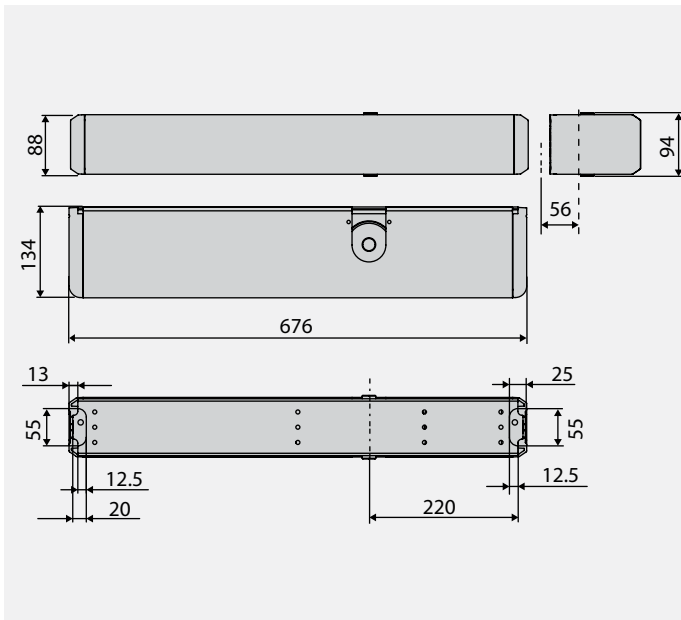
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P. 227 safety devices - sensitive edges
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Range of automation for pedestrian doors swing, suitable for automating existing inputs and ideal for heavy use, heavy doors and large. Available both with motorized control of opening and closing that with management of closure spring

Dimension (mm)

















Technical features

	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
Clear 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
Impact reaction	Electronic torque limiter	Electronic torque limiter
Use 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

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

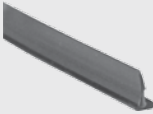

**PRV 20**

	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.
	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.
	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.
	P111645	PRV 20.A16	Fixed wing accessories kit, 20pcs

PRV 20

	P111646	PRV 20.A17	Sliding wing accessories kit, 20pcs
	P111647	PRV 20.A18	Floor guide, 1pc
	P111648	PRV 20GD.19	Telescopic floor guide, 1pc
	P111649	PRV 20GD.20	Glass separation strip accessories kit, 20pcs
	P111650	PRV 20.A21	Plate for fixing strip in corridor, 1pc
	P111651	PRV 20.A22	Plate for fixing strip to wall, 1pc
	P111710	PRV 20.A23	Hex socket screw M5X16 8.8 500PCS, 500pcs
	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

**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 rabbit 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 rabbit seal, 250 m
	P111622	PRV GK.28	Sliding wing rabbit 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.
	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.
	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.



U-Link



New



Phase-out


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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

	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
	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



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

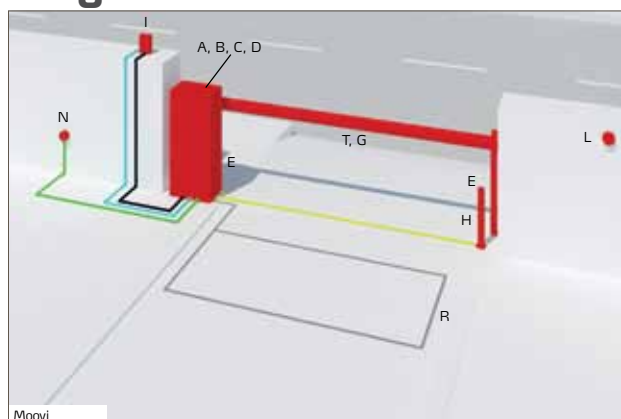


Automatic barriers - road barriers

Guide to choosing

Useful passage	Frequency of use	Motor power supply	Operator	Plus
ROAD BARRIERS				
from 2 to 6 m	20,000 (up to 3 m), 5,000 (up to 6 m) Op/gg	120 V	MAXIMA ULTRA 36 120V INOX	
			MAXIMA ULTRA 36 120V RAL	
			MAXIMA ULTRA 36 XL 120V	
			MAXIMA ULTRA 36 XL INOX 120V	
			MAXIMA ULTRA 36 XL RAL 120V	
		230 V	MAXIMA ULTRA 36 XL RAL 230V	
			MAXIMA ULTRA 36 XL INOX 230V	
			MAXIMA ULTRA 36 XL 230V	
			MAXIMA ULTRA 36 230V RAL	
			MAXIMA ULTRA 36 INOX 230V	
---		120 V	MAXIMA ULTRA 36 120V	
from 1.7 to 5 m	Continuous	230 V	MAXIMA ULTRA 35 SM	U-Link embedded. Three-phase motor with inverter. Crank-connecting rod anti-vandalism system. Gearmotor in oil bath
	MAXIMA ULTRA 35 SM ST. STEEL (INOX)		U-Link embedded. Three-phase motor with inverter. Crank-connecting rod anti-vandalism system. Gearmotor in oil bath	
from 6.5 to 8 m	intensive	230 V	MAXIMA 80	Wide useful passage
from 1.7 to 3 m	very intensive		MAXIMA 30	Fast barrier
from 4 to 8 m			MAXIMA ULTRA 68 SM	U-Link embedded. Three-phase motor with inverter. Crank-connecting rod anti-vandalism system. Gearmotor in oil bath
from 4 to 6.4 m	intensive		MAXIMA 60	Intensive barrier
	Semi intensive		MOOVI 30	Control unit with display and built-in receiver
		MOOVI 30 RAL	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	
3 m	very intensive	24 V	GIOTTO BT A 30S U 230V50	New U-Link control unit with display and receiver in head
			GIOTTO BT A 30S U 230V50 RAL PERS	New U-Link control unit with display and receiver in head
			GIOTTO BT A 30S U 120V60	New U-Link control unit with display and receiver in head
			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
	intensive	230 V	GIOTTO BT A 30 U 230V50 RAL PERS	New U-Link control unit with display and receiver in head
			MOOVI 30S	Rapid barrier
			MOOVI 30S RAL	Rapid barrier
			MOOVI 30S INOX	Rapid barrier
			MOOVI 60	Control unit with display and built-in receiver
6 m	Semi intensive	230 V	MOOVI 60 RAL	Control unit with display and built-in receiver
			MOOVI 60 RMM	Control unit with display and built-in receiver
			MOOVI 60 RMM RAL	Control unit with display and built-in receiver
			MOOVI 60 RMM INOX	Control unit with display and built-in receiver
			GIOTTO BT A 60S U 230V50	New U-Link control unit with display and receiver in head
	very intensive	24 V	GIOTTO BT A 60S U 230V50 RAL PERS	New U-Link control unit with display and receiver in head
			GIOTTO BT A 60S 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
			MICHELANGELO BT A 60 U	
			MICHELANGELO BT A 60 U RAL	
intensive	24 V	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	
		GIOTTO BT A 60 U 230V50 RAL PERS	New U-Link control unit with display and receiver in head	
		MICHELANGELO BT A 80 U		
8 m	intensive	24 V	MICHELANGELO BT A 80 U RAL	
			MICHELANGELO BT A 80 U 120	
			MICHELANGELO BT A 80 U 120 RAL	
			MICHELANGELO BT A 80 U 120 RAL	

Installation guide



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

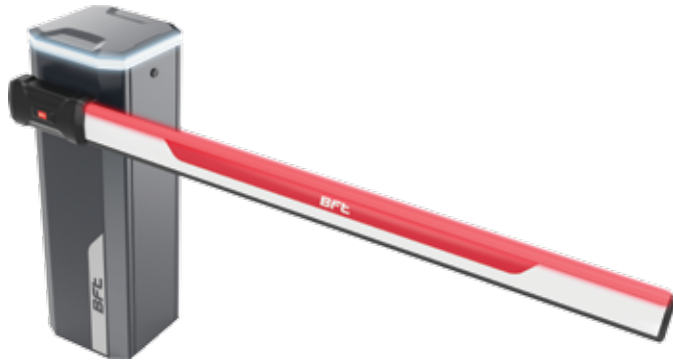
MAXIMA ULTRA 36



Automatic barriers - road barriers



- U-Link
- rolling code
- Silentech
- inverter
- Oil Gear
- Block
- Encoder



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)

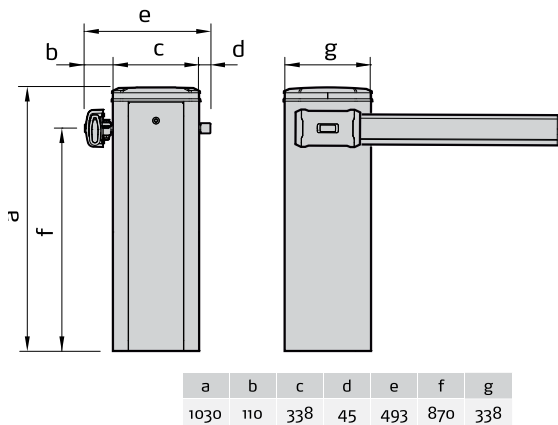
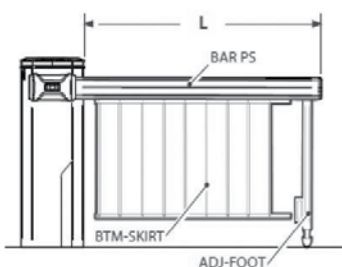


Table for choosing the version of the barrier MAXIMA ULTRA 36

STD	STD version
XL	XL version

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	from 2 to 6 m	from 2 to 6 m	from 2 to 6 m	from 2 to 6 m	from 2 to 6 m
Opening or closing time	from 0.7 to 3.9 s	from 0.7 to 3.9 s	from 0.7 to 3.9 s	from 0.7 to 3.9 s	from 0.7 to 3.9 s	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 asynchronous	Three-phase asynchronous	Three-phase asynchronous	Three-phase asynchronous	Three-phase asynchronous	Three-phase asynchronous
Gear unit type	In oil bath	In oil bath	In oil bath	In oil bath	In oil bath	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	Inside the structure	Inside the structure	Inside the structure	Inside the structure	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	-40 ÷ 60 °C	-40 ÷ 60 °C	-40 ÷ 60 °C	-40 ÷ 60 °C	-40 ÷ 60 °C
Protection rating	IP55	IP55	IP55	IP55	IP55	IP55



U-Link



New



Phase-out


 U-Control app
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 Accessories
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accessories for control units
 set of batteries for control units
 expansion boards
 software
 receivers
 transmitters
 control devices

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signalling devices
 safety devices - photocells and accessories
 safety devices - sensitive edges
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 solenoid locks
 release systems

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Code	Name	Description
P940093 00002	MAXIMA ULTRA 36 230V	RAL 7015 barrier, including standard spring, 230V. Cap excluded
P940093 00202	MAXIMA ULTRA 36 INOX 230V	Stainless steel barrier, including standard spring, 230V. Cap excluded
P940093 00102	MAXIMA ULTRA 36 230V RAL	RAL custom barrier, including standard spring, 230V. Cap excluded
P940094 00002	MAXIMA ULTRA 36 XL 230V	RAL 7015 barrier, including strong spring, 230V. Cap excluded
P940094 00202	MAXIMA ULTRA 36 XL INOX 230V	Stainless steel barrier, including strong spring, 230V. Cap excluded
P940094 00102	MAXIMA ULTRA 36 XL RAL 230V	RAL custom barrier, including strong spring, 230V. Cap excluded
P940093 00001	MAXIMA ULTRA 36 120V	RAL 7015 barrier body, includes standard spring, 120 V. Excludes cap
P940093 00201	MAXIMA ULTRA 36 120V INOX	Stainless steel barrier body, includes standard spring, 120 V. Excludes cap
P940093 00101	MAXIMA ULTRA 36 120V RAL	Custom RAL barrier body, includes standard spring, 120 V. Excludes cap
P940094 00001	MAXIMA ULTRA 36 XL 120V	RAL 7015 barrier body, includes strong spring, 120 V. Excludes cap
P940094 00201	MAXIMA ULTRA 36 XL INOX 120V	Stainless steel barrier body, includes strong spring, 120 V. Excludes cap
P940094 00101	MAXIMA ULTRA 36 XL RAL 120V	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 with 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 PRO36		P120087 00001 - BOOM PS30
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 - BOOM PS40		P120087 00003 - BOOM PS50
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.	



RECOMMENDED ACCESSORIES

	<p>new P120087 00004 - BOOM PS60</p> <p>Aluminium bar, opening L = 6 m with red reflectors. Includes rubber and upper optical diffuser. Lights excluded.</p>		<p>new P120084 00000 - OMEGA PS MAXIMA U36</p> <p>Single lock for protective finger trapping casing and screws for MAXIMA ULTRA 36. BOOM PS bar excluded.</p>
	<p>P120094 00000 - OMEGA FRA PS MAXIMA U36</p> <p>Resettable impact protection connector (manual) for Maxima Ultra 36 barrier. BOOM PS bar excluded.</p>		<p>new P120089 00001 - LIGHT PS 30</p> <p>High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 3 metres long. Power supply unit excluded.</p>
	<p>new P120089 00002 - LIGHT PS 40</p> <p>High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 4 metres long. Power supply unit excluded.</p>		<p>new P120089 00003 - LIGHT PS 50</p> <p>High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 5 metres long. Power supply unit excluded.</p>
	<p>new P120089 00004 - LIGHT PS 60</p> <p>High intensity LED lighting kit, red-green, to be fitted on BOOM PS bar up to 6 metres long. Power supply unit excluded.</p>		<p>P120075 - ALLU 2 MAXIMA ULTRA</p> <p>Power supply for ATM LIGHT Kit on Maxima Ultra</p>
	<p>new P120091 - HYPHEN PS</p> <p>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.</p>		<p>P120085 - BTM-SKIRT</p> <p>Lower skirt for BOOM PS booms. Module length L = 2 m.</p>
	<p>P120086 - FULL-SKIRT</p> <p>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.</p>		<p>P120095 - BRACKET SKIRT</p> <p>Anchoring bracket for BTM SKIRT and FULL SKIRT.</p>
	<p>P120093 - ADJ-FOOT</p> <p>Suspended cushioned telescopic supporting foot for BOOM PS booms.</p>		<p>P120092 - KIT ART90 PS</p> <p>Kit for 90° articulated bar. Excludes bar, bar connector, LIGHT PS lighting. Compatible with BOOM PS booms.</p>
<p>P120092 00001 - ART90 BOOM PS30</p>	<p>Boom bar PS 90° articulated L = 5 m pre-fitted. Excludes LIGHT PS lighting.</p>		<p>P120092 00002 - ART90 BOOM PS30 R/G</p> <p>Boom bar PS L = 5 m 90° articulated including bar and LIGHT PS lighting pre-fitted.</p>
<p>P120092 00003 - ART90 BOOM PS50</p>	<p>Boom bar PS 90° articulated L = 5 m pre-fitted. Excludes LIGHT PS lighting.</p>		<p>P120092 00004 - ART90 BOOM PS50 R/G</p> <p>Boom bar PS L = 5 m 90° articulated including bar and LIGHT PS lighting pre-fitted.</p>

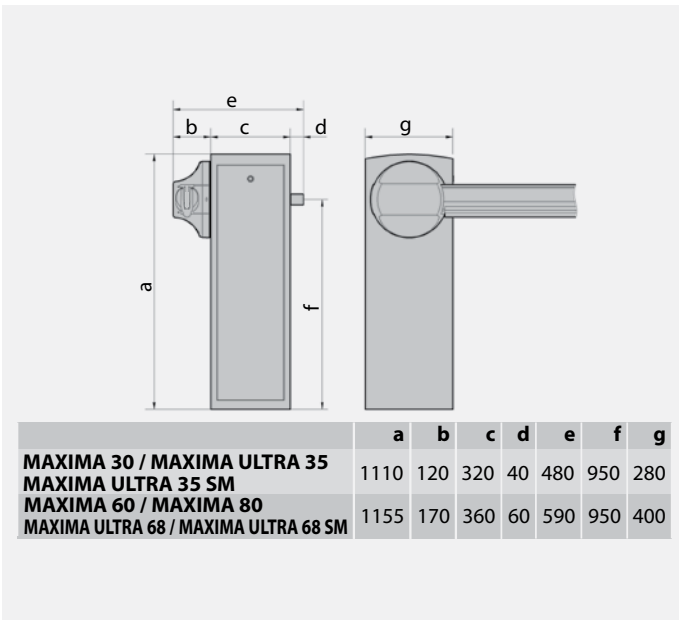
MAXIMA ULTRA



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



RECOMMENDED ACCESSORIES

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



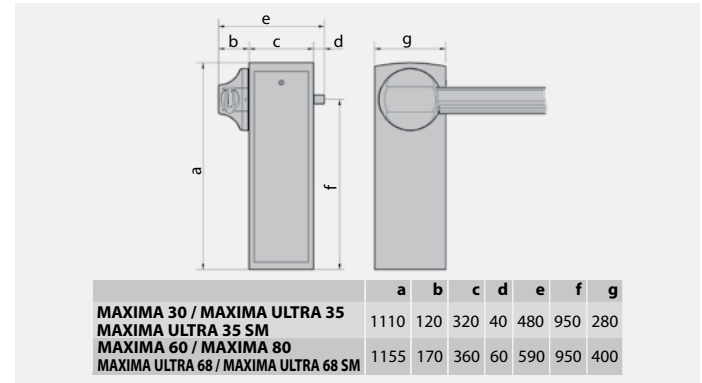
RECOMMENDED ACCESSORIES

	<p>P120053 00003 - PCA ATM 8</p> <p>Protection rubber (black) for fitting on bars from L = 6÷8 m.</p>		<p>P120075 - ALLU 2 MAXIMA ULTRA</p> <p>Power supply for ATM LIGHT Kit on Maxima Ultra</p>
	<p>P120076 - TP MAXIMA ULTRA</p> <p>Thermal probe for Maxima Ultra barriers</p>		<p>P120079 - EBB KIT ATML</p> <p>Adjustable suspended foot, powder coated cataphoresis treated.</p>
	<p>P120080 - FAF UNI R</p> <p>Adjustable suspended foot, powder coated cataphoresis treated.</p>		<p>P120050 - GA ATM</p> <p>Adjustable suspended foot, powder coated cataphoresis treated.</p>
	<p>P120049 - RST ATM</p> <p>Aluminium rack. Price for 3 metres. Suspended foot not included. Compatible with ATML and ATM model bars.</p>		<p>P120032 - SRV DIN</p> <p>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</p>
	<p>P120033 - FCS MAXIMA 5</p> <p>2 additional limit switches for MAXIMA 30/MAXIMA ULTRA 35</p>		<p>P120035 - FCS MU68</p> <p>2 additional limit switches for Maxima Ultra 6 - 8 m</p>



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
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 with 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

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

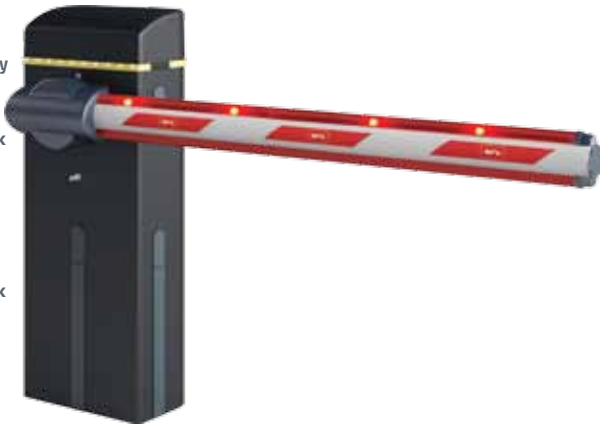
MICHELANGELO BT A



Automatic barriers - road barriers



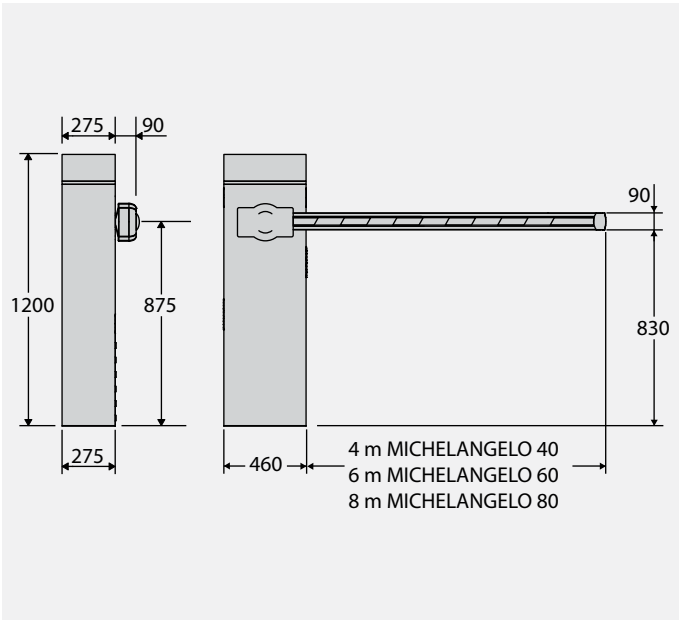
-  er ready
-  ee link
-  24 V
-  U-Link



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	MERAK 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	IP54					
Environmental conditions	-20 (-40 with THERMO) °C					

	MICHELANGELO BT A 80 U 120	MICHELANGELO BT A 80 U 120 RAL
Control unit	MERAK 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	IP54	
Environmental conditions	-20 (-40 with THERMO) °C	

U-Link
 New
 Phase-out

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



RECOMMENDED ACCESSORIES

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

GIOTTO BT A

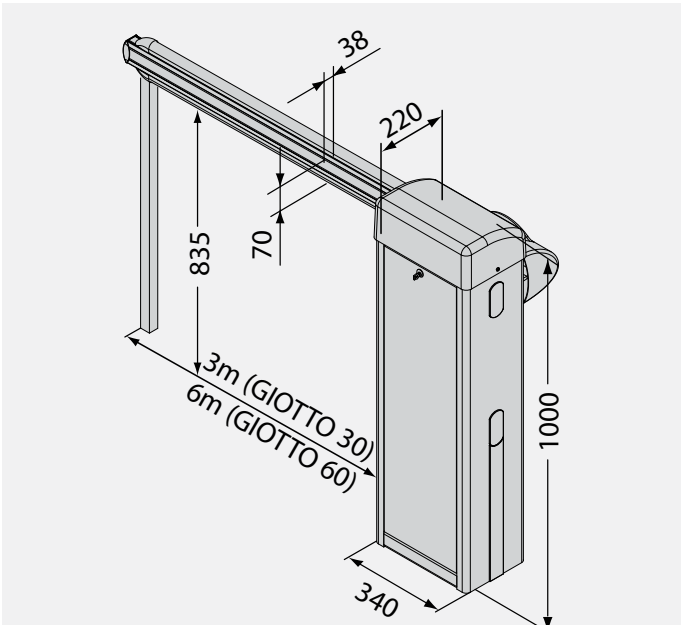


Automatic barriers - road barriers



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.

Dimension (mm)





Technical features

	GIOTTO BT A 30 U 230V50	GIOTTO BT A 30 U 230V50 RAL PERS	GIOTTO BT A 30S U 230V50	GIOTTO BT A 30S U 230V50 RAL PERS	GIOTTO BT A 30S U 120V60	GIOTTO BT A 30S U 120V60 RAL PERS
Control unit	MERAK 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	IP54					
Environmental conditions	-20/(-40 with THERMO access.) °C					

	GIOTTO BT A 60 U 230V50	GIOTTO BT A 60 U 230V50 RAL PERS	GIOTTO BT A 60S U 230V50	GIOTTO BT A 60S U 230V50 RAL PERS	GIOTTO BT A 60S U 120V60	GIOTTO BT A 60S U 120V60 RAL PERS
Control unit	MERAK 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	IP54					
Environmental conditions	-20/(-40 with THERMO access.) °C					



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 30S 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 30S 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 30S 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 30S 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 60S 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 60S 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 60S 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 with 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

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



RECOMMENDED ACCESSORIES

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

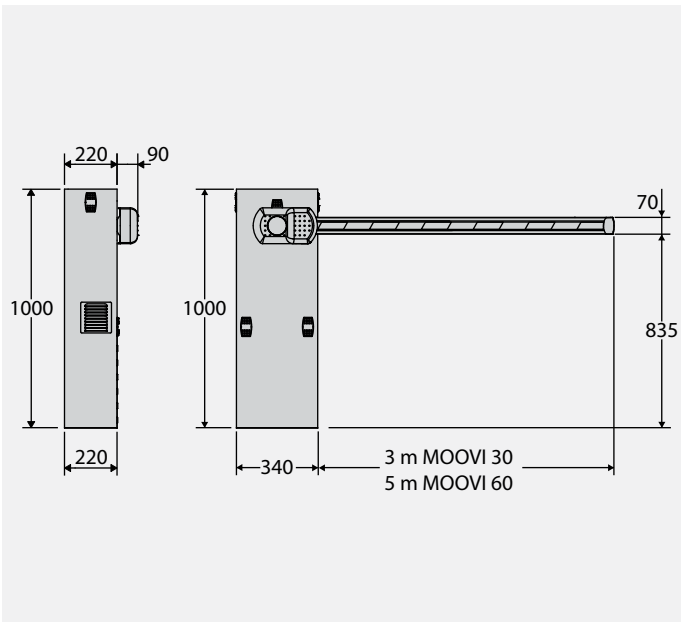


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Range of barriers for very intensive use, for clear openings up to 6 m. The wide range of accessories available makes them ideal in any context.

Dimension (mm)



Technical features

	MOOVI 30	MOOVI 30 RAL	MOOVI 30 RMM	MOOVI 30 RMM RAL	MOOVI 30S	MOOVI 30S RAL
Control unit	ALPHA BOM			LEO 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 30S INOX	MOOVI 60	MOOVI 60 RAL	MOOVI 60 RMM	MOOVI 60 RMM RAL	MOOVI 60RMM INOX
Control unit	LEO MV D	ALPHA BOM		LEO 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	---
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	MOOVI 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	MOOVI 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 30S 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 30S 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 Base plate for mod. MOOVI - GIOTTO		N728033 - AQ3 Complete 3 metre rectangular boom for GIOTTO and MOOVI
	N728034 - AQ5 Complete 5 metre rectangular boom for GIOTTO and MOOVI		N999507 - OMEGA AQ Pack of accessories for installation of 3/5 m rectangular boom for MOOVI/GIOTTO
	N999509 - OMEGA AQ INOX Pack of accessories for installation of 3/5 m rectangular boom for MOOVI INOX		N728031 - AT3 Complete 3 metre round boom for MOOVI/GIOTTO
	N728032 - AT5 Complete 5 metre round boom for MOOVI/GIOTTO		N728038 - AT6 Complete 6 metre round boom for MOOVI/GIOTTO



RECOMMENDED ACCESSORIES

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



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) Red light control only (2) Low speed only (3) Check springs table

ACCESSORIES COMPATIBILITY FOR MAXIMA / MAXIMA ULTRA

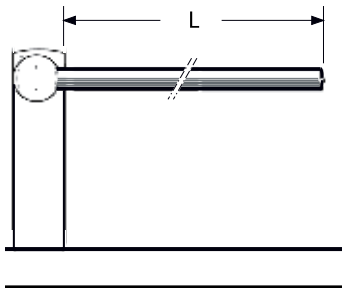
		MAXIMA 30	MAXIMA ULTRA 35	MAXIMA 60	MAXIMA 80	MAXIMA ULTRA 68
P120036 00001	ATM25	●	●			
P120036 00002	ATM30	●	●			
P120036 00003	ATM40		●			
P120036 00004	ATM50		●			
P120041	ATML60			●	●	●
P120042	ATML EXT2				●	●
P120043	OMEGA ATM	●				
P120048	OMEGA ATM FRA	●				
P120044	OMEGA ATML			●	●	
P120045	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
B	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		R	R	R	R	B	B	G	G	G	G
ATM + GA ATM									G	G	G
ATM + PCA ATM		R	R	R	R	B	B	G	G	G	G
ATM + PCA ATM + GA ATM									G	G	G
ATM + KIT ATM LIGHT R/G		R	R	R	R	B	B	G	G	G	G
ATM + KIT ATM LIGHT R/G + GA ATM									G	G	G
ATM + KIT ATM LIGHT R/G + PCA ATM		R	R	R	R	B	B	G	G	G	G
ATM + KIT ATM LIGHT R/G + PCA ATM + GA ATM									G	G	
ATM + RST ATM		R	R	B	B	B	G	G	G	G	
ATM + RST ATM + GA ATM								G	G		
ATM + RST ATM + KIT ATM LIGHT R/G		R	R	B	B	B	G	G	G	G	
ATM + RST ATM + GA ATM + KIT ATM LIGHT R/G								G	G		

ATM
RST ATM
GA ATM
KIT ATM LIGHT R/G
PCA ATM

45°
85

CH22
45°

Do not weight the arm down by applying other accessories

check that the arm is balanced at ~45°.



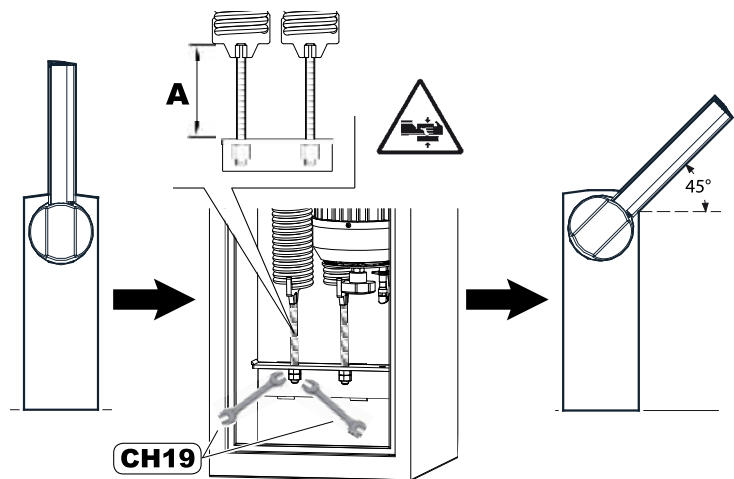
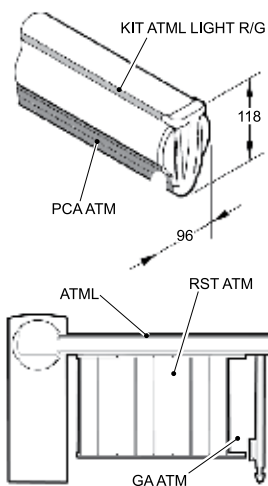
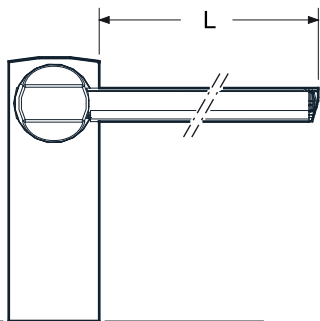
MAXIMA ULTRA 68 CON OMEGA ATML U

SPRINGS

SPRING TYPE	Ø WIRE	SPRING COLOR
Y	9	YELLOW
K	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		W+W	W+W	Y	Y	W+Y	K	W+K	W+K	Y+K
ATML + GA ATM		W+W	Y	Y	W+Y	W+Y	W+K	W+K	W+K	Y+K
ATML + EBB KIT ATML		W+W	Y	Y	W+Y	W+Y	W+K	W+K	W+K	Y+K
ATML + PCA ATM		W+W	Y	Y	W+Y	W+Y	W+K	W+K	Y+K	Y+K
ATML + PCA ATM + GA ATM		W+W	Y	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	Y+K
ATML + KIT ATML LIGHT R/G		W+W	W+W	Y	Y	W+Y	K	W+K	W+K	Y+K
ATML + KIT ATML LIGHT R/G + GA ATM		W+W	Y	Y	W+Y	W+Y	W+K	W+K	Y+K	Y+K
ATML + KIT ATML LIGHT R/G + PCA ATM		W+W	Y	Y	W+Y	W+Y	W+K	W+K	Y+K	Y+K
ATML + KIT ATML LIGHT R/G + PCA ATM + GA ATM		Y	Y	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K
ATML + RS ATM		W+W	Y	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K
ATML + RST ATM + GA ATM		Y	Y	W+Y	Y+Y	Y+Y	Y+K	Y+K	K+K	
ATML + RST ATM + KIT ATML LIGHT R/G		Y	Y	W+Y	W+Y	Y+Y	Y+K	Y+K	K+K	
ATML + RST ATM + GA ATM + KIT ATML LIGHT R/G		Y	W+Y	W+Y	Y+Y	Y+Y	Y+K	Y+K	K+K	



Do not weight the arm down by applying other accessories

check that the arm is balanced at ~45°.



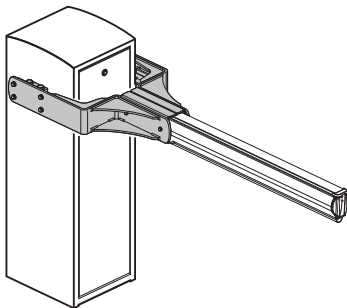
MAXIMA ULTRA 68 CON OMEGA FRC ATML U

SPRINGS

SPRING TYPE	Ø WIRE	SPRING COLOR
Y	9	YELLOW
K	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		W+W	Y	Y	W+Y	W+Y	K	W+K	Y+K	Y+K
ATML + GA ATM		Y	W+Y	W+Y	W+Y	Y+Y	Y+Y	Y+K	Y+K	Y+K
ATML + EBB KIT ATML		Y	W+Y	W+Y	W+Y	Y+Y	Y+Y	Y+K	Y+K	Y+K
ATML + PCA ATM		Y	W+Y	W+Y	W+Y	Y+Y	W+K	Y+K	Y+K	K+K
ATML + PCA ATM + GA ATM		Y	W+Y	W+Y	Y+Y	Y+Y	W+K	Y+K	Y+K	K+K
ATML + KIT ATML LIGHT R/G		Y	Y	W+Y	W+Y	Y+Y	K	W+K	Y+K	Y+K
ATML + KIT ATML LIGHT R/G + GA ATM		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		Y	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		Y	W+Y	W+Y	Y+Y	Y+Y	W+K	Y+K	K+K	K+K
ATML + RS ATM		Y	W+Y	W+Y	Y+Y	Y+Y	W+K	Y+K	K+K	K+K
ATML + RST ATM + GA ATM		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		Y	W+Y	W+Y	Y+Y	Y+Y	Y+K	Y+K	K+K	K+K
ATML + RST ATM + GA ATM + KIT ATML LIGHT R/G		W+Y	W+Y	Y+Y	Y+Y	Y+Y	Y+K	K+K	K+K	K+K



Do not weight the arm down by applying other accessories

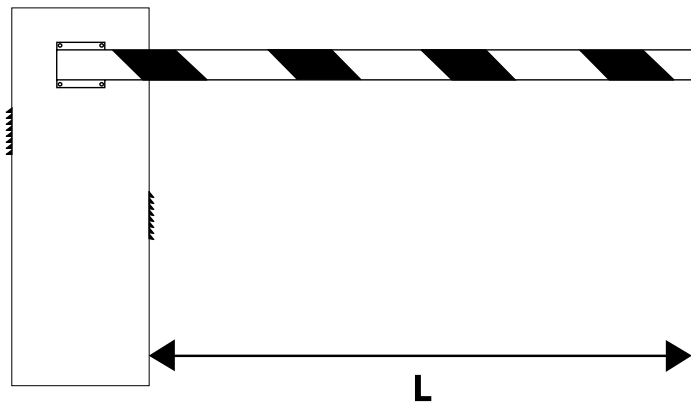
check that the arm is balanced at ~45°.

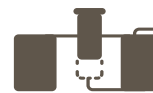


MOOVI 30-60

WORKING LENGTH OF BOOM AND BALANCING (m)

SB	PCA N (above boom only)	PCA N (below boom only)	KIT LIGHT	GA/GAMA AQ AT	BIR	MOOVI 60				MOOVI 30			
						A		B		B		C	
						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





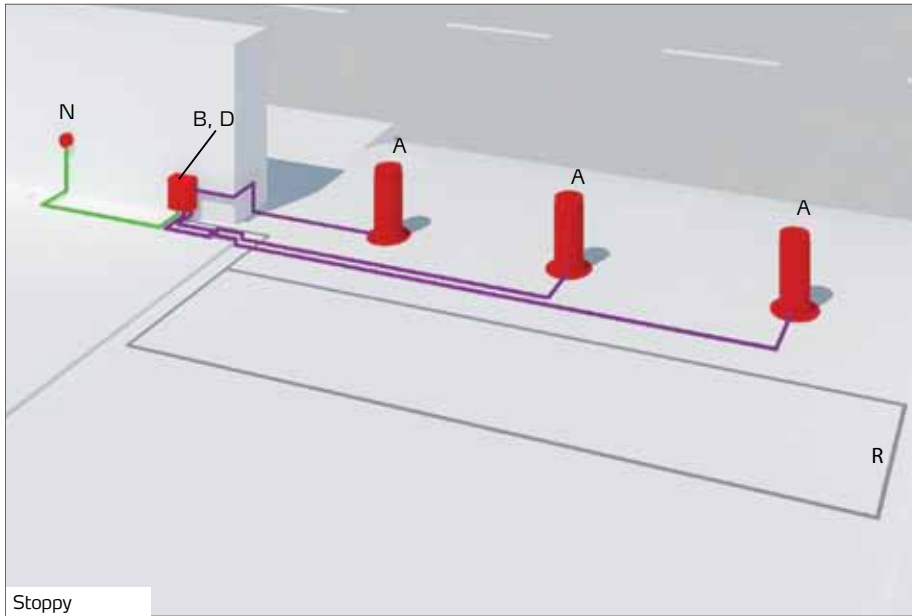
Parking and traffic bollards

Guide to choosing

Rod height	Rod diameter	Kit	Operator	Plus
hydraulic bollards				
600 mm	275 mm	-	PILLAR B 275/600.6C L	Cap with lights
		-	PILLAR B 275/600.6C LI	Stainless steel shaft
		-	PILLAR B 275/600.6C L SD	Cap with Lights & Security Device
		-	PILLAR B 275/600.6C LI SD	Stainless steel and Security Device
800 mm		-	PILLAR B 275/800.6C L	Cap with lights
		-	PILLAR B 275/800.10C L	Cap with lights
		-	PILLAR B 275/800.6C LI	Stainless steel shaft
		-	PILLAR B 275/800.10C LI	Stainless steel shaft
		-	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
automatic bollards				
500 mm	115 mm	-	STOPPY B 115/500	Slowdown in opening and closing
	220 mm	-	STOPPY MBB KIT 219/500.C 230 C	
		-	STOPPY MBB KIT 219/500.C 230 L C	
		-	STOPPY MBB KIT 219/500.C 230 LI C	
700 mm	200 mm	-	STOPPY B 200/700	
	220 mm	-	STOPPY MBB KIT 219/700.C 230 C	
		-	STOPPY MBB KIT 219/700.C 230 L C	
		-	STOPPY MBB KIT 219/700.C 230 LI C	
Semi-automatic bollards				
500 mm	115 mm	-	DAMPY B 115/500	Cataphoresis
		-	DAMPY B 115/500 I	Stainless steel
	220 mm	-	DAMPY B 219/500	Cataphoresis
		-	DAMPY B 219/500 I	Stainless steel
		-	DAMPY B 219/500 L	Lights
700 mm	220 mm	-	DAMPY B 219/500 LI	Lights and s/steel
		-	DAMPY B 219/700	Cataphoresis
		-	DAMPY B 219/700 I	Stainless steel
		-	DAMPY B 219/700 L	Lights
Fixed bollards				
500 mm	220 mm	-	RANCH B 219/500	Cataphoresis
		-	RANCH B 219/500 I	Stainless steel
		-	RANCH B 219/500 L	Lights
		-	RANCH B 219/500 LI	Lights and s/steel
600 mm	275 mm	-	RANCH C 275/600CN L	Painted steel High breakage resistance
		-	RANCH C 275/600CN LI	Stainless steel High breakage resistance
700 mm	220 mm	-	RANCH B 219/700	Cataphoresis
		-	RANCH B 219/700 I	Stainless steel
		-	RANCH B 219/700 L	Lights
800 mm	275 mm	-	RANCH B 219/700 LI	Lights and s/steel
		-	RANCH C 275/800CN L	Painted steel High breakage resistance
manual bollards				
625 mm	115 mm	-	RANCH R Ø115-625 DISS. RIBALT.	

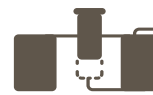


Installation guide



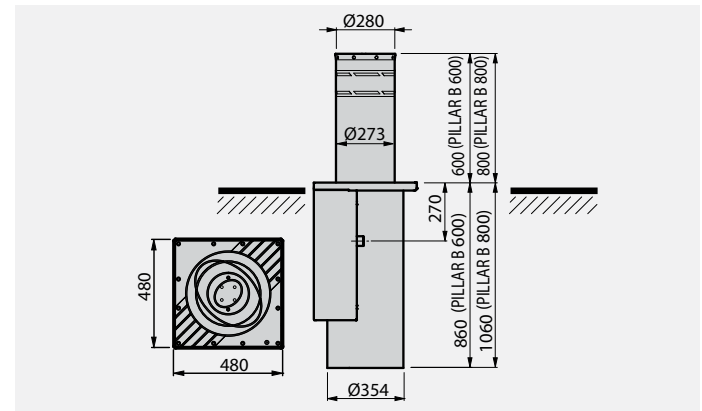
A	Operator
B	Control unit
D	Receiver
N	Junction box
R	Magnetic loop detector
	2x1.5
	3x1.5
	RG 58
	2x1
	13x1

Stoppo



Anti-terrorist hydraulic bollard with incorporated hydraulic control unit. Suitable for protecting sensitive sites, thanks to the special "SD" version, which keeps the shaft raised in case of a power failure and with public installations where, in the standard version, the shaft lowers automatic-ally 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 CBE 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 CBE 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 approved. 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

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



U-Link



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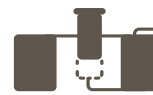


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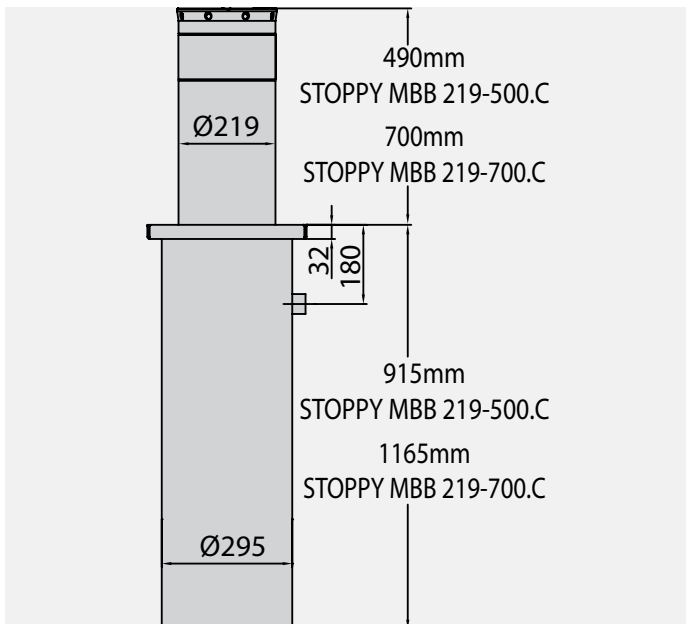
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Complete range of automatic electromechanical retractable bollards for the protection and safety of all areas that require controlled access. Rod height 500 and 700mm. Ideal for contexts of particular architectural interest, guaranteeing maximum reliability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

Dimension (mm)



Technical features

	STOPPY MBB KIT 219/500.C 230 C	STOPPY MBB KIT 219/500.C 230 L C	STOPPY MBB KIT 219/500.C 230 LI C	STOPPY MBB KIT 219/700.C 230 C	STOPPY MBB KIT 219/700.C 230 L C	STOPPY MBB KIT 219/700.C 230 LI C
Control unit	PERSEO CBE 230.P SD					
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
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	220 mm	220 mm	220 mm	220 mm	220 mm
Type of limit switch	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor	REED magnetic sensor
Slowdown	Yes	Yes	Yes	Yes	Yes	Yes
Impact resistance	10500 J	10500 J	10500 J	10500 J	10500 J	10500 J
Break-in proof	150000 J	150000 J	150000 J	150000 J	150000 J	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	very intensive	very intensive	very intensive	very intensive	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

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



U-Link



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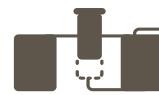
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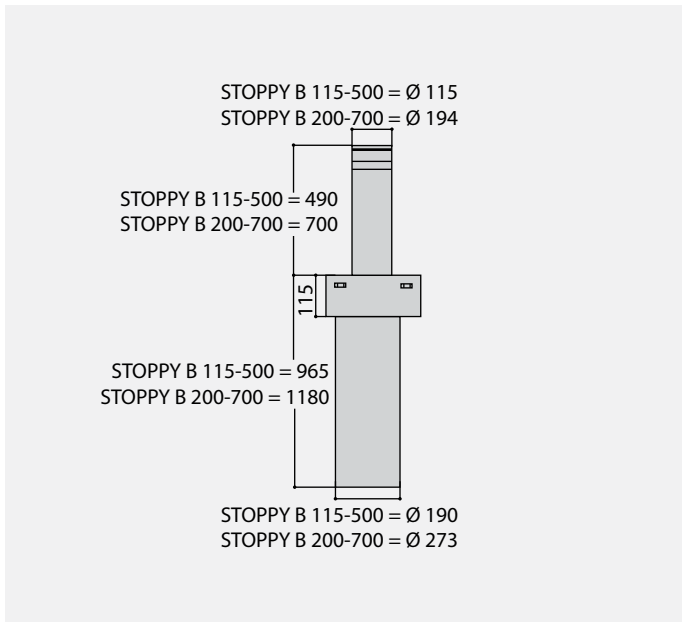
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STOPPY B



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	PERSEO 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)






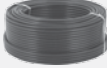
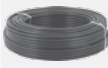





D113812 00002 - PERSEO CBE 230.P SD - Recommended



- 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

	new 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		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		Magnetic loop 2 x 1 m



U-Link



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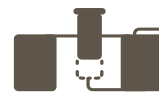
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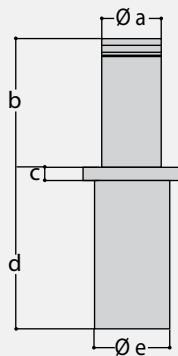
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DAMPY B



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)



	a	b	c	d	e
DAMPY B 115-500 / DAMPY B 115-500 INOX	115	500	25	593	168
DAMPY B 210-500 / DAMPY B 219-500 INOX	210	500	45	756	273
DAMPY B 210-700 / DAMPY B 219-700 INOX	210	700	45	1016	273

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	500 mm	500 mm	500 mm	500 mm	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)					

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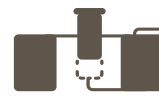
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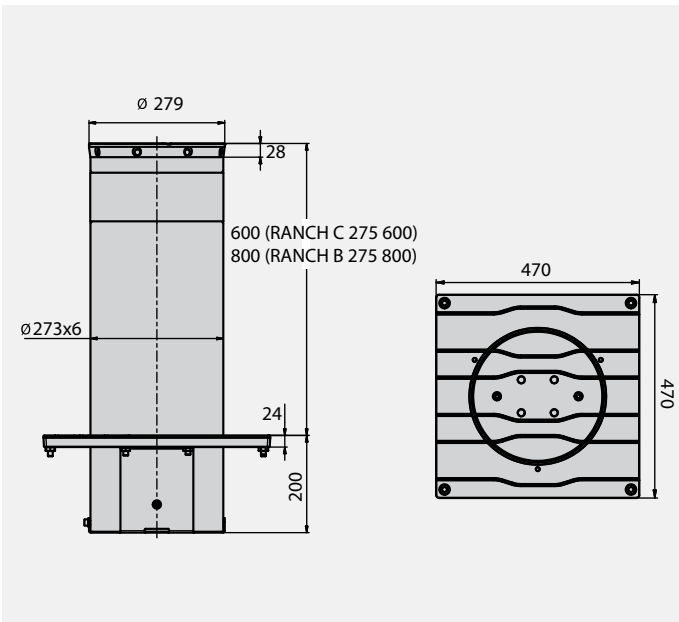
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Fixed bollards used for preventing access for long periods. Bolted to the ground, their purpose is to block an access point or a road. They can integrate the use of automatic or semi-automatic bollards.

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




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		P800109 - FLANGE RANCH C
	Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards)		Flange for Ranch C

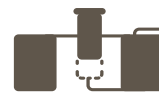
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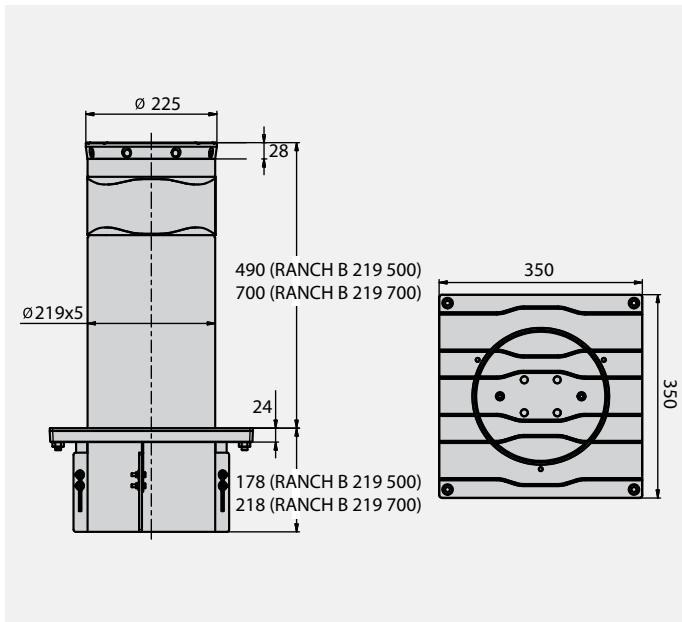
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Fixed bollards used for preventing access for long periods. Bolted to the ground, their purpose is to block an access point or a road. They can integrate the use of automatic or semi-automatic bollards.

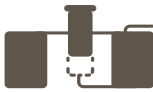
Dimension (mm)



Technical features

	RANCH 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)				

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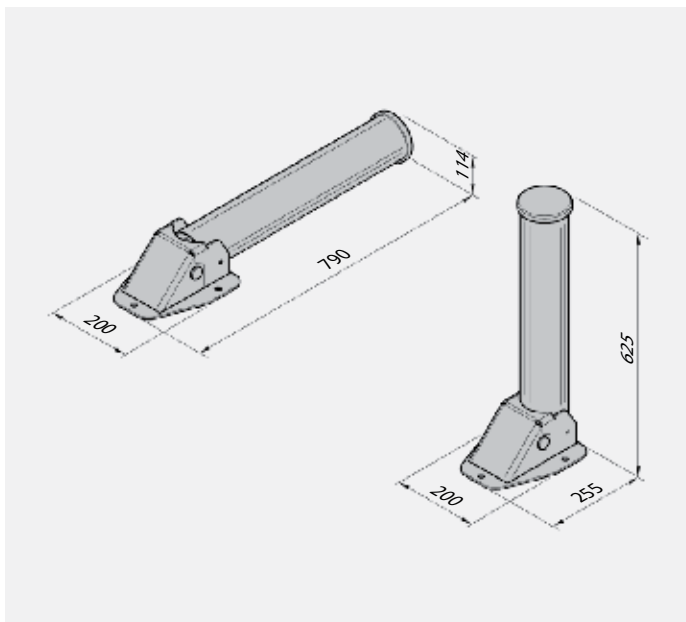
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Tilting manual bollard for parking space saver application.




Dimension (mm)




Technical features

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



Code	Name	Description
P970101	RANCH R Ø115-625 DISS. RIBALT. 	Manual fold down bollard with shaft diameter 115 mm and height 625 mm.

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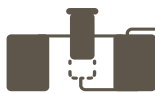
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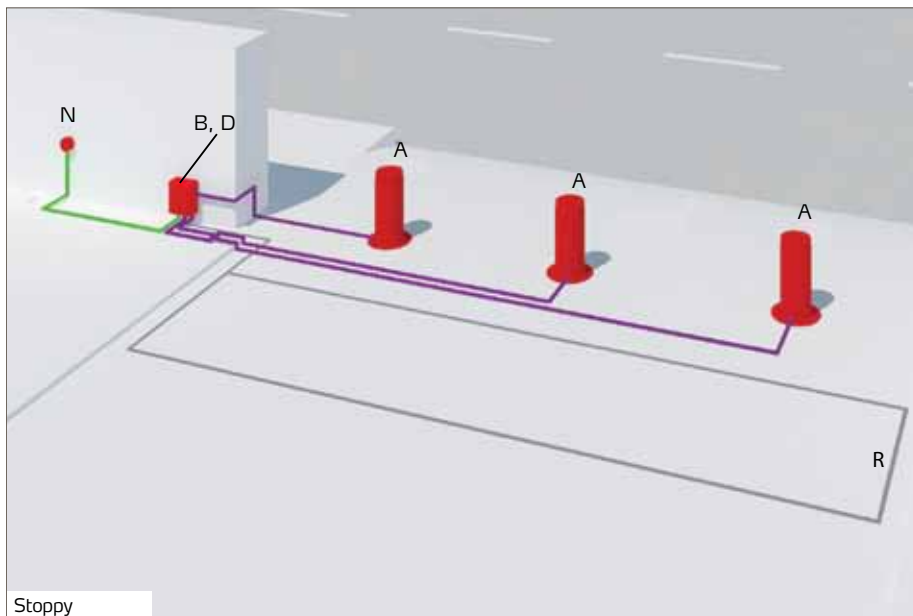
Anti-Terrorism bollards

Guide to choosing

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

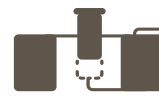


Installation guide



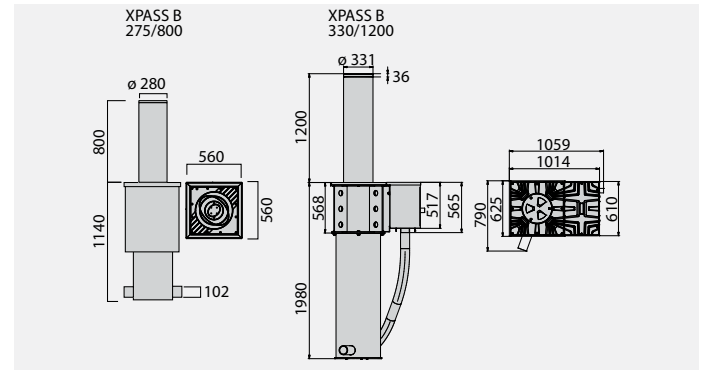
A	Operator
B	Control unit
D	Receiver
N	Junction box
R	Magnetic loop detector
	2x1.5
	3x1.5
	RG 58
	2x1
	13x1

Stopy



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 unit failure the other bollards remain functional, whereas maintenance operations are facilitated.

Dimension (mm)



Technical features

	XPASS B 275/800 L	XPASS B 275/800 LI	XPASS B 275/800 L SD	XPASS B 275/800 LI SD	XPASS B 330/1200 L	XPASS B 330/1200 LI
Control unit	PERSEO 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	AISI304 or AISI316	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/7200(N3C)/80/90 single bollard installation	
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	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	IP67					
Environmental conditions	-40 + 60 °C					



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

	new 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
	P111001 00003 - RME 2		D110926 00001 - SPIRA 2X1
	230 V dual channel metal object detector with installation base		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		D113705 - ACOUSTIC DETECTOR
	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)

U-Link
 New
 Phase-out

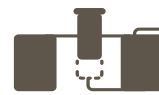
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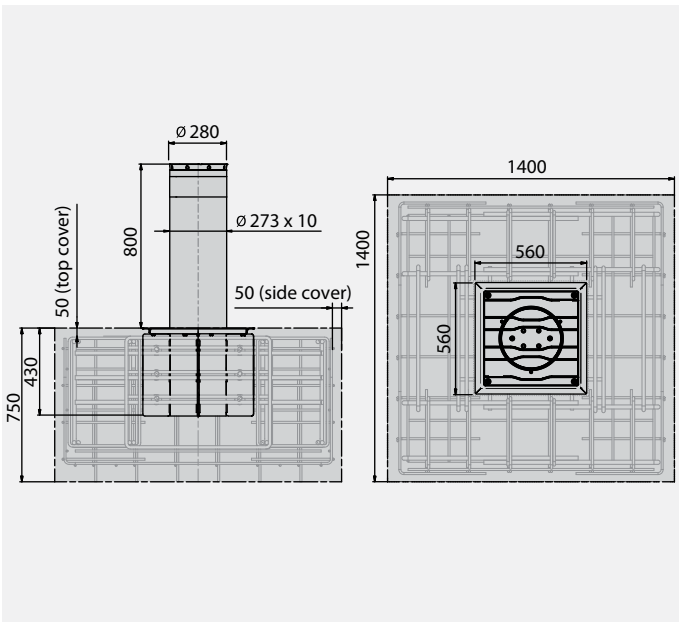
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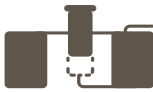
Permanent anti-terrorism bollard tested according to international standards PAS 68:2010 7500/50/N2 crash simulated. Suitable for protection of sensitive sites.

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		P800110 - FLANGE RANCH D
	Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards)		Flange for Ranch E

 U-Link
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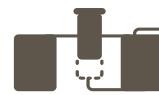

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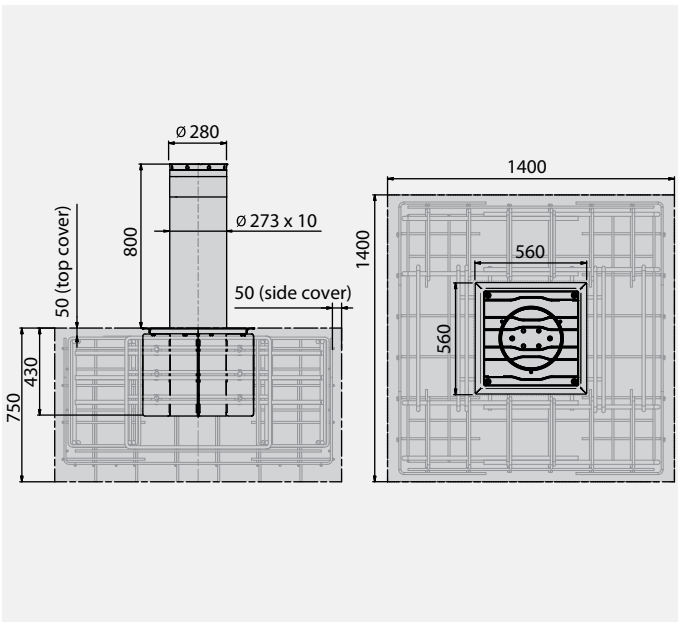
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Permanent bollard equivalent to XPASS 330/1200. Suitable for protection of sensitive sites in addition to automatic bollards on large surfaces.

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		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		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		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		P975069 - ALLU K12
	Flange for Ranch E		Power supply for Gas and Fixed Bollards with Lights 24 Vac (up to 80 bollards)

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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).

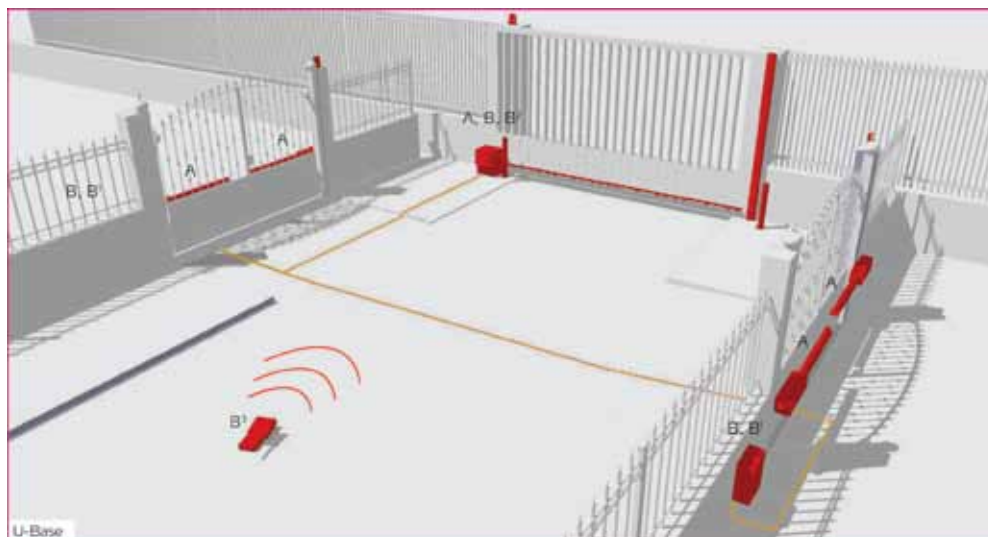
The innovative interconnectivity systems and wireless connectivity solutions in the field of access automation are proposed and supported by Bft through the new U-link system communication protocol.

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.

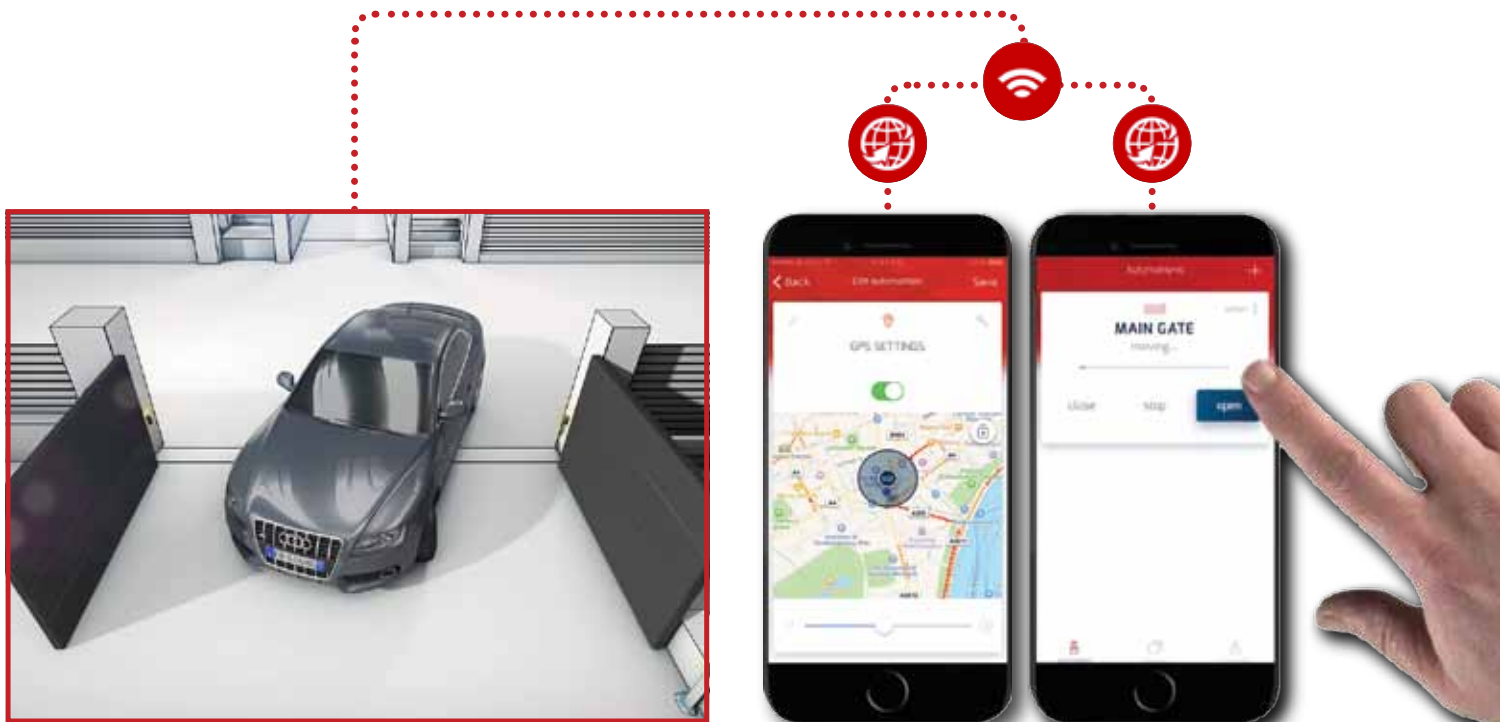
In the spirit of "tuned to you", Bft can also offer cutting-edge interconnectivity solutions to make the control of gates and accesses easy and immediate for the end-user.

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



A	Operator
B	Control unit
2x0.5	
B3	PROXIMA BLUE or PC
B2	B EBA 201 R04
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.



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.



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



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

	<p>new P111494 - B EBA WI-FI GATEWAY</p> <p>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 IOS smartphones.</p>	
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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.



U-Link

Maximum integration with compatible Bft U-Link automation systems.



Z-Wave

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

Code	Name		Description	
R400000	MAGISTRO BRAIN KIT		Magistro Brain control system, containing one Beba Z-Wave Gateway	 U-Link
R400002	MAGISTRO ROLL KIT		Pair of Z-Wave wireless modules for controlling shutters	 U-Link
R400001	MAGISTRO LIGHT KIT		Pair of Z-Wave wireless modules for controlling lights	 U-Link
R400003	MAGISTRO UNI KIT		Pair of Z-Wave wireless modules for controlling non-U-Link automation devices	 U-Link
R400004	MAGISTRO BAT-T&KEY KIT		Magistro Batt backup batteries and USB stick for connection via 3G	 U-Link
P111764	MAGISTRO LIGHTS & HOUSEHOLD APPL. R1		Z-Wave wireless module, switch control for lights/devices via already powered contact 24/110/230 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 DIMMER R1		Z-Wave wireless module, dimmer control to adjust the brightness of the incandescent lamps 24/110/230 Volt	 U-Link
P111535	BEBA Z-WAVE DRIVER		Expansion card for connection with Z-Wave wireless protocol	 U-Link



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 IOS 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
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.	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	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

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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



U-Link

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

	<p>Ph. Out P111531 - B EBA BLUE ENTRY ANDROID 4</p> <p>BLUE-TOOTH expansion card for Blue Entry system. Manages up to 4 smartphones with the Android operating system</p>		<p>Ph. Out P111532 - B EBA BLUE ENTRY ANDROID 8</p> <p>BLUE-TOOTH expansion card for Blue Entry system. Manages up to 8 smartphones with the Android operating system</p>
	<p>Ph. Out P111533 - B EBA BLUE ENTRY ANDROID 16</p> <p>BLUE-TOOTH expansion card for Blue Entry system. Manages up to 16 smartphones with the Android operating system</p>		<p>Ph. Out P111748 00002 - B EBA BLUE ENTRY IOS LE 4</p> <p>BLUE-TOOTH expansion card for Blue Entry system (max 4 Android smartphones)</p>
	<p>Ph. Out P111748 00001 - B EBA BLUE ENTRY IOS LE 8</p> <p>BLUE-TOOTH expansion card for Blue Entry system (max 8 Android smartphones)</p>		<p>Ph. Out P111748 - B EBA BLUE ENTRY IOS LE 16</p> <p>BLUE-TOOTH expansion card for Blue Entry system (max 16 Android smartphones)</p>
	<p>U-Link D113808 00003 - CLONIX UNI AC U-LINK 230V</p> <p>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</p>		<p>U-Link D113807 00002 - CLONIX 2E AC U-LINK 230</p> <p>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</p>



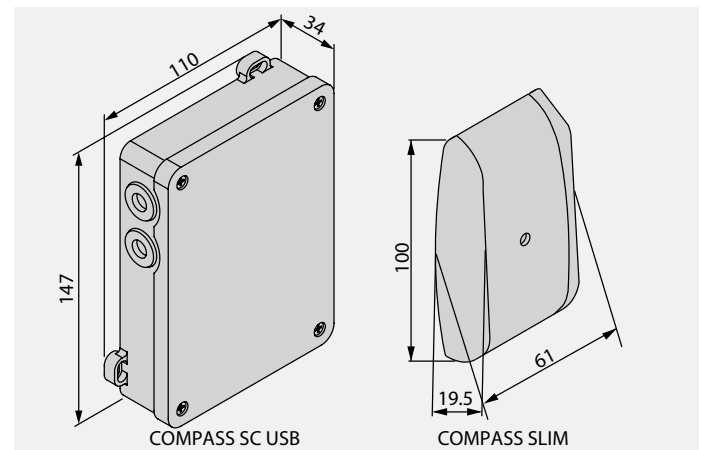
Access control systems and hands-free devices

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	IP20		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.

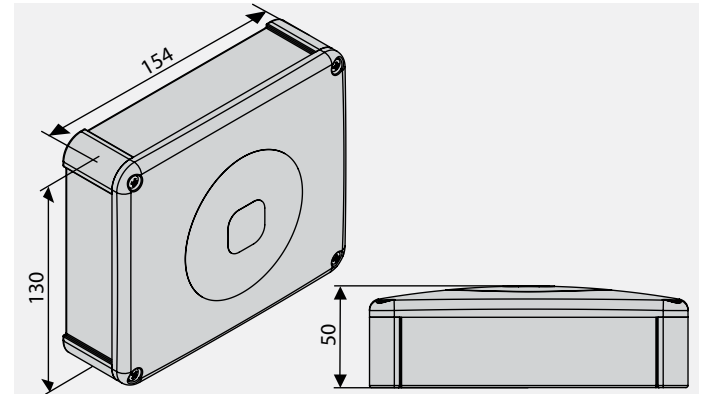
RECOMMENDED ACCESSORIES

	D113671 00002 - RTD CA 2048 Four-channel rolling code receiver with 2048 codes and built-in programming display. Usable with COMPASS		P111388 - SECURBASE LIGHT USB Management software for COMPASS access control system based on COMPASS SC.
	P111389 - SECURBASE PLUS USB Advanced management software for COMPASS access control system based on COMPASS SC.		D110912 - COMPASS - ISOCARD ISO standard proximity badge
	D110914 - COMPASS - RING Key-ring transponder for access control		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.



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	IP55		---
Environmental conditions	-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.

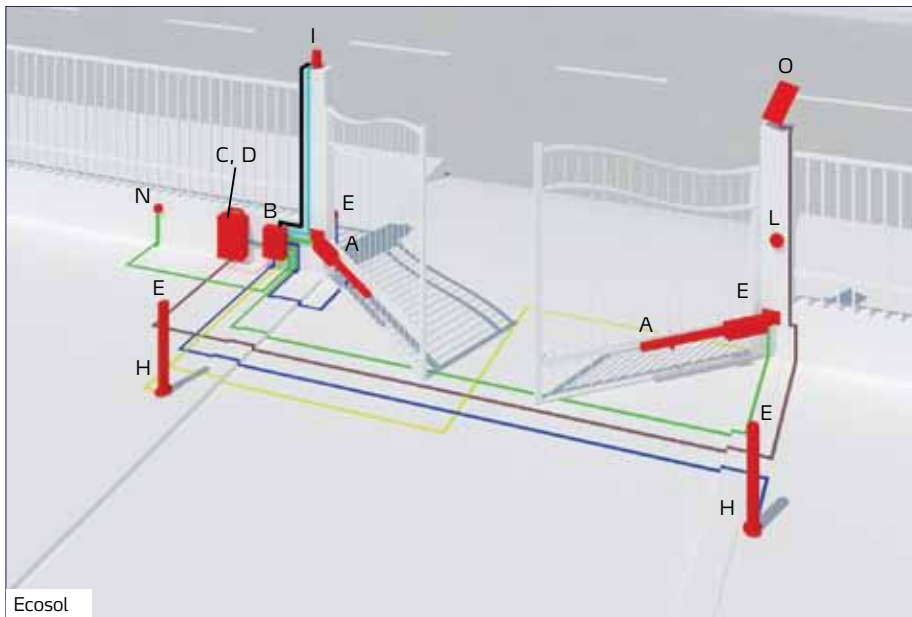
RECOMMENDED ACCESSORIES

	D113674 00001 - CLONIX 2E		P111465 - PROXIMA BLUE
	External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.		Universal handheld programmer for control units, receivers and remote controls with BLUETOOTH technology
	D113671 00002 - RTD CA 2048		D113807 00002 - CLONIX 2E AC U-LINK 230
	Four-channel rolling code receiver with 2048 codes and built-in programming display. Usable with COMPASS		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		



Solar power supply system

Installation guide



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

Autonomy of system

Control Board	ECOSOL*	ECOSOL + DOUBLE*	
CB HIDE	20	40	
LIBRA C MV (from version .1.04 MICHELANGELO)	15	30	
LIBRA C MO (from version .1.00.1 MOOVI BT)	20	40	
LIBRA C G - LIBRA C GS	20	40	
LINX	22	44	
QSCD MA - DEIMOS BT	9	19	
QSCD MA - URANO	7	15	
H QSC - ARES 1500-ARES 1000	6	13	
H QSC - DEIMOS BT 500	9	19	
VENERE D	9	18	
VENERE D - ARGO + SCS-IO (ZONE= 129)	8	16	
VENERE D - ARGO G + SCS-IO (ZONE= 129)	8	16	
THALIA THALIA P THALIA UL	ELI 250 BT	5	10
	KUSTOS BT	20	40
	KUSTOS ULTRA BT	20	40
	PHOBOS BT A	20	40
	PHOBOS N	20	40
	IGEA	8	16
	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 - DEIMOS BT	8	16	
MERAK	DEIMOS ULTRA BT A	9	19
	ARES ULTRA BT A	6	13
MERAK BGS/ BG	GIOTTO BTS	20	40
	GIOTTO BT	20	40
MERAK BM - MICHELANGELO	15	30	
HAMAL	DEIMOS BT A	9	19
	ARES BT A	6	13
ZARA	PHOBOS BT A	20	40
	KUSTOS BT	20	40
	KUSTOS ULTRA BT	20	40

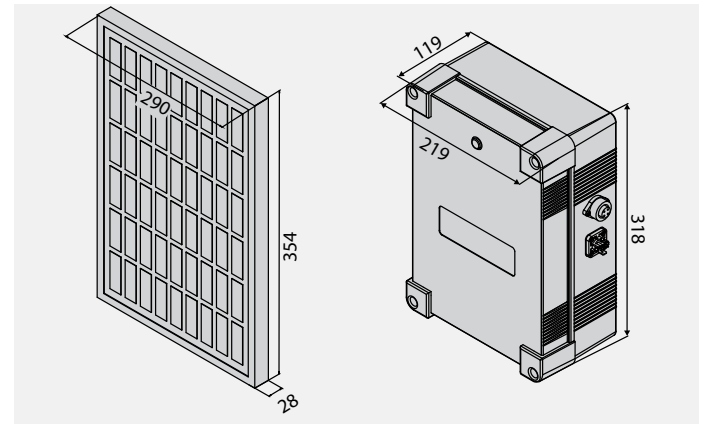
*N° of days operation without sun: 10 cycles per day with 1 pair of 130 photocells, one blinker. Cycle time 25 Sec. 10 Sec. TCA.

ECOSOL is a complete solar powered system for low-voltage installations.

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	IP55		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 BATTERY	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

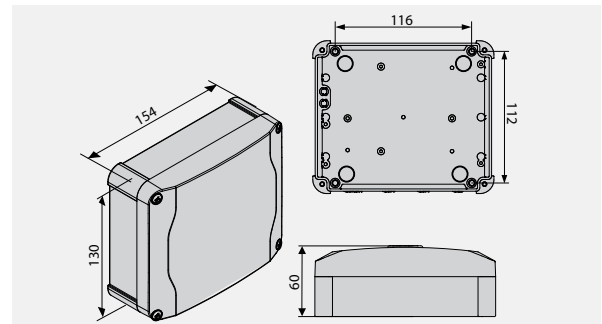
<p>D113732 - ECOSOL DOUBLE Expansion board with batteries Included</p>	<p>N999473 - ECOSOL POST BR Set of stainless steel screws and brackets for installing the ECOSOL PANEL on a post of diameter 48-100mm</p>
<p>N999475 - ECOSOL SECURITY Anti-tamper stainless steel screws and fasteners for ECOSOL PANEL and ECOSOL POST BR</p>	<p>N999476 - ECOSOL CABLE 20 m extension for ECOSOL CHARGER</p>
<p>N999477 - ECOSOL CHARGER Battery chargers for ECOSOL BOX and ECOSOL DOUBLE</p>	



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		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
	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		

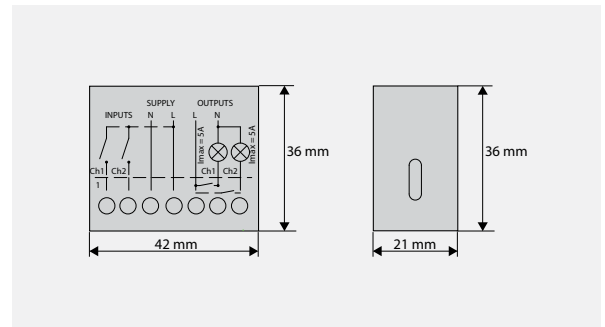
RECOMMENDED ACCESSORIES

	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		P111532 - B EBA BLUE ENTRY ANDROID 8 BLUE-TOOTH expansion card for Blue Entry system. Manages up to 8 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		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		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
Type	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		R400007 - MIME AC TX KIT
	R400005 - MIME AC KIT		D113824 - MIME AC
<p>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</p>		<p>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</p>	
<p>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</p>		<p>433 MHz 2-channel indoor receiver 2 independent outputs 230 Vac power supply 30-position memory Operating mode: monostable, bistable, timed, motor control</p>	

RECOMMENDED ACCESSORIES

	P121028 - MIME PAD		D111904 - MITTO B RCBO2 R1
	D111906 - MITTO B RCBO4 R1		D111947 - MITTO B RCBO4 R1 CLEAR ICE
	D111946 - MITTO B RCBO4 R1 SUNRISE		D111945 - MITTO B RCBO4 R1 VINEYARD
	N999522 - CLIP B 00 R04		P121024 - Q.BO TOUCH
<p>4-channel wall-mounted radio control with rolling code</p>		<p>Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A</p>	
<p>Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A</p>		<p>Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: clear ice white</p>	
<p>Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: sunrise yellow</p>		<p>Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: vineyard red</p>	
<p>Wall mounting clip for KLEIO B RCA and MITTO B RCB remote controls. 30 unit pack</p>		<p>Wireless digital touch button panel 433 MHz rolling code.</p>	

U-Link
 New
 Phase-out

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

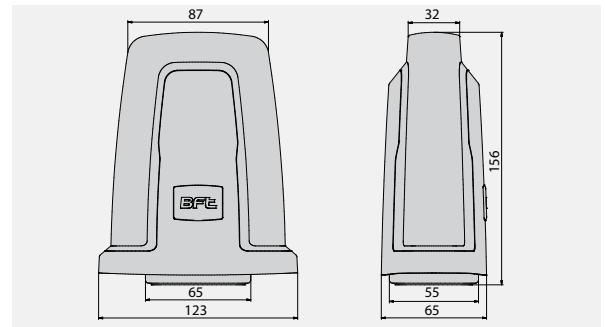
P. 226 signalling devices
 P. 226 safety devices - photocells and accessories
 P. 227 safety devices - sensitive edges
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Flashing lights for automatic gates

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.			

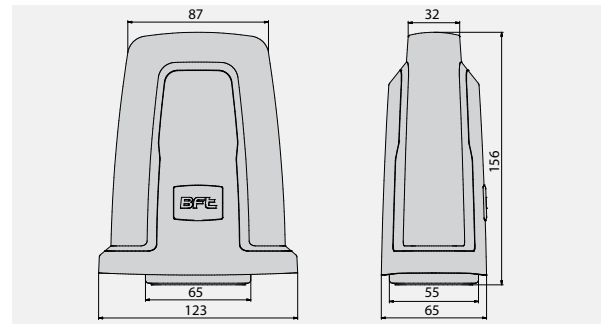
RECOMMENDED ACCESSORIES

	P123026 - B 00 R01		P123025 - B 00 R02
	Metal guard for B LTA		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 Flashing light without incorporated antenna for motors with power supply 24 V.		D113748 00003 - RADIUS B LTA 24 R1 Flashing light with incorporated antenna for motors with power supply 24 V.
	D113749 00002 - RADIUS B LTA 230 R2 Flashing light without incorporated antenna for motors with power supply 230 V.		D113748 00002 - RADIUS B LTA 230 R1 Flashing light with incorporated antenna for motors with power supply 230 V.

RECOMMENDED ACCESSORIES

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

 U-Link
 New
 Phase-out

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

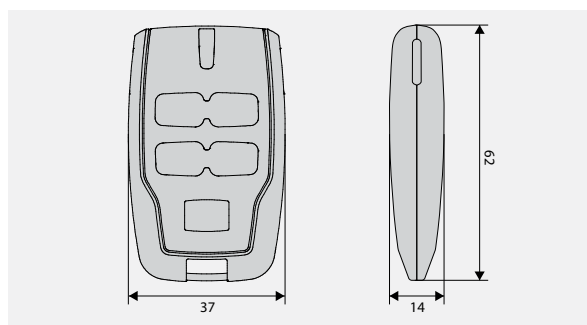
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Remote controls for automatic gates

KLEIO



	KLEIO B RCA04 R1	KLEIO B RCA02 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 RCA04 R1 Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		D111888 - KLEIO B RCA02 R1 Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A
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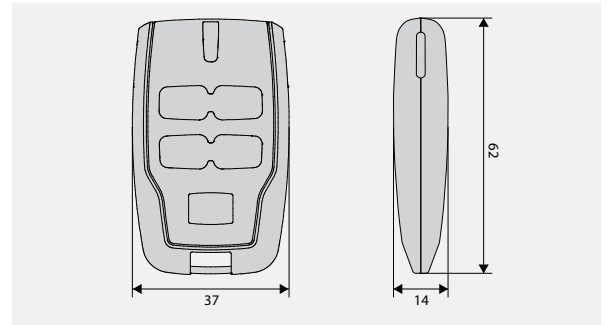
RECOMMENDED ACCESSORIES

	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.		D113718 00002 - CLONIX 4 RTE External 4-channel 433 MHz rolling code receiver. Power relay outputs (16 A 230 V). 230 V.
	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 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 RCB04 R6 RAINBOW						
Voltage	12 V					
Range	50/100 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 RCB04 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 RCB04 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		N999543 - MITTO B RCB04 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 RCB02 2CH CUSTOMIZED Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		D112197 - MITTO B RCB04 4CH CUSTOMIZED Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A



U-Link



New



Phase-out



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

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VERSIONS

	new D112198 - MITTO B RCBO2 2CH REPLAY CUSTOMIZED		new D112199 - MITTO B RCBO4 4CH REPLAY CUSTOMIZED
Copyable transmitter 2 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.	
	new D112200 - MITTO B RCBO4 SUNRISE CUSTOMIZED		new D112201 - MITTO B RCBO4 CLEAR ICE CUSTOMIZED
Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: sunrise yellow		Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: clear ice white	
	new D112202 - MITTO B RCBO4 VINEYARD CUSTOMIZED		new N998611 - MITTO B RCBO2 R3 CUSTOMIZED
Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: vineyard red		Transmitter 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Pack of 100pcs numbered for block memorisation.	
	new N998612 - MITTO B RCBO4 R3 CUSTOMIZED		
Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Pack of 100pcs numbered for block memorisation.			

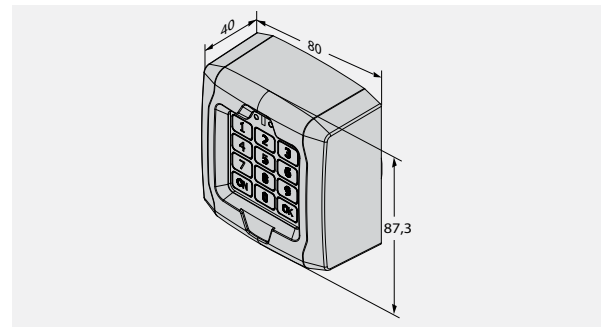
RECOMMENDED ACCESSORIES

	 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		D113674 00001 - CLONIX 2E
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 - CLIP 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

Q.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	IP44	
Environmental conditions (min)	---			


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.		

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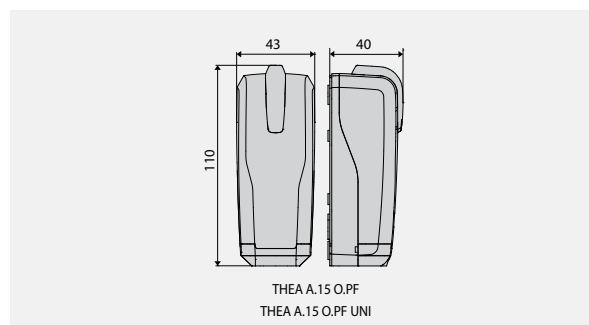
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Photocells for automatic gates and safety devices

THEA











Switches for automatic gates, entrances and electric appliances

	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

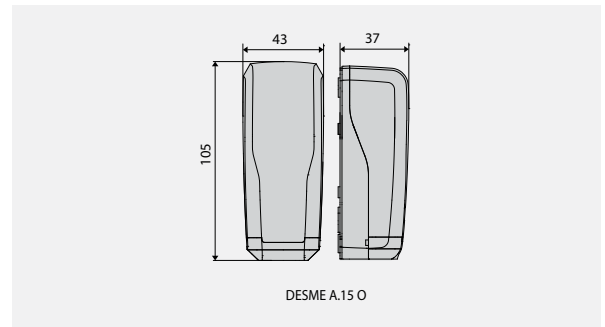
 <p>P111714 - THEA A15 O.PF UNI Pair of self-aligning photocells. Range 30 m. Power supply 24 V ac/dc. Pair of universal photocells suitable for non-BFT automation systems, adjustable with integrated flashing light. Synchronised infrared signal to avoid any possibility of accidental dazzling. For external application. Beam can be oriented 40° horizontally and 10° vertically. Range 30 m. Power supply 24 V ac/dc.</p>	 <p>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.</p>
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RECOMMENDED ACCESSORIES

 <p>P903022 - PHP BI Dual-face adapter for THEA/DESME photocells</p>	 <p>new P903028 - PHP A Pair of aluminium posts for THEA/DESME series photocells Height 522 mm</p>
 <p>new P903029 - PHP2 A Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm</p>	 <p>Ph. Out P903018 - PHP Pair of aluminium posts for THEA/DESME series photocells Height 522 mm</p>
 <p>Ph. Out P903019 - PHP2 Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm</p>	 <p>P903021 - PHP ADA CC Pair of adapters for the installation of THEA/DESME photocells on CC posts</p>
 <p>P903023 - PHP BA1 Support for mounting THEA/DESME photocells on Giotto, Moovi and Michelangelo enclosures</p>	 <p>P903020 - APL Pair of foundation plates for PHP posts</p>

Photocells for automatic gates and safety devices

DESME



	DESME A15 O	DESME A15
Voltage	24 V	24 V
Horiz. adjustment	40 °	no °
Vert. adjustment	10 °	no °
Range	30 m	30 m
Protection rating	IP55	

VERSIONS

<p>P111527 - DESME A15 O</p> <p>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.</p>	<p>P111526 - DESME A15</p> <p>Pair of self-aligning photocells. Range 30 m. Power supply 24 V ac/dc.</p>
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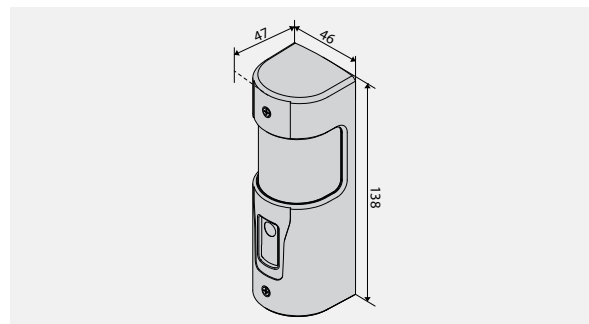
RECOMMENDED ACCESSORIES

<p>new P903028 - PHP A</p> <p>Pair of aluminium posts for THEA/DESME series photocells. Height 522 mm</p>	<p>Ph. Out P903018 - PHP</p> <p>Pair of aluminium posts for THEA/DESME series photocells. Height 522 mm</p>
<p>new P903029 - PHP2 A</p> <p>Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm</p>	<p>Ph. Out P903019 - PHP2</p> <p>Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm</p>
<p>P903021 - PHP ADA CC</p> <p>Pair of adapters for the installation of THEA/DESME photocells on CC posts</p>	<p>P903022 - PHP BI</p> <p>Dual-face adapter for THEA/DESME photocells</p>
<p>P903023 - PHP BA1</p> <p>Support for mounting THEA/DESME photocells on Giotto, Moovi and Michelangelo enclosures</p>	<p>P903024 - ACV20</p> <p>Vandal-proof protection for DESME photocells</p>
<p>P903020 - APL</p> <p>Pair of foundation plates for PHP posts</p>	





Photocells for automatic gates and safety devices

AKTA - ERIS







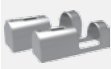



	ERIS A30	AKTA A30
Voltage	24 V	24 V
Horiz. adjustment	180 °	180 °
Vert. adjustment	20 °	20 °
Range	30 m	30 m
Protection rating	IP55	

VERSIONS

 <p>P111537 - ERIS A30</p> <p>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.</p>	 <p>P111536 - AKTA A30</p> <p>Pair of photocells adjustable 180 ° horizontally and 20 ° vertically. Range 30 m. Power supply 24 V ac/dc.</p>
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RECOMMENDED ACCESSORIES

 <p>N190106 - STR</p> <p>Pair of infrared STR sensors for ERIS A30</p>	 <p>N190104 - BIR C</p> <p>Rubber safety edge (H 30 mm), price per m</p>
 <p>P111451 00002 - BAR C BA 2</p> <p>Double profile safety edge with lip seals (L2000xh60 mm.) BAR C BA 2</p>	 <p>P903025 - PHP ADA</p> <p>Pair of adapters for the installation of AKTA photocells on PHP posts</p>
 <p>P903018 - PHP</p> <p>Pair of aluminium posts for THEA/DESME series photocells Height 522 mm</p>	 <p>P903028 - PHP A</p> <p>Pair of aluminium posts for THEA/DESME series photocells Height 522 mm</p>
 <p>P903029 - PHP2 A</p> <p>Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm</p>	 <p>P903019 - PHP2</p> <p>Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm</p>
 <p>P903020 - APL</p> <p>Pair of foundation plates for PHP posts</p>	 <p>P111538 - ACV30</p> <p>Vandal-proof protection for AKTA photocells</p>
 <p>N999465 - DCW BAT</p> <p>Pack of 12 batteries for photocell safety edge, compatible with DCW, TANGO, ERIS A30</p>	

Photocells for automatic gates and safety devices

THALIA



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

VERSIONS

	<p>D113747 00001 - THALIA P 120V</p> <p>THALIA LEB - 12x14 LARGE ENCLOSURE WITH 9AMP/H BATTERIES</p>		<p>D113747 00002 - THALIA P</p> <p>Control panel for one or two 24V electromechanical and hydraulic operators for swing gates with electric lock management, for highly complex systems</p>
	<p>D113745 00002 - THALIA</p> <p>Control panel with display for one or two 24V electromechanical operators for swing gates</p>		
	<p>D113745 00001 - THALIA 120V</p> <p>Control panel with display for one or two 24V electromechanical operators for swing gates</p>		

ZARA



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

VERSIONS

	<p>D113796 00002 - ZARA BT L2</p> <p>Control panel with dip switches and potentiometers for one or two 24V operators for swing gates</p>		<p>D113796 00001 - ZARA BT L2 120V</p> <p>Control panel with dip switches and potentiometers for one or two 24V operators for swing gates</p>
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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		
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
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ALENA




Control panel with dip switches and potentiometers for one or two 230V operators for swing gates and industrial folding doors

VERSIONS

	D113811 00003 - ALENA SW2 120V 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
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SHYRA



Control panel for sliding and swing gates, shutters and overhead doors. 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.

VERSIONS

	<p>new D113802 00002 - SHYRA CPEM</p> <p>Control panel for sliding and swing gates, shutters and overhead doors. Panel power supply: 230 V, single-phase</p>		<p>new D113802 00001 - SHYRA CPEM 120V</p> <p>Control panel for sliding and swing gates, shutters and overhead doors. Panel power supply: 120 V, single-phase.</p>
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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

	<p>new D114092 00002 - ALCOR AC A</p> <p>Dip switch and potentiometer control panel for one or two 230 V/300 W operators for swing gates.</p>		<p>new D114092 00001 - ALCOR AC A 120V</p> <p>Control panel with dip switches and potentiometers for one or two 120V/300W operators for swing gates</p>
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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
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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)						
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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 Incorporated control unit for one 230V operator for sliding gates		D113768 00002 - LEO B CBB W01 Control board for PEGASO CJA three-phase operators
	D113767 00002 - LEO B CBB L01 Control board for PEGASO CJA single phase operators		

ELBA

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



VERSIONS

	D113717 00002 - ELBA BU Control panel, max 230V, for roller shutters or roll-up doors		D113716 00002 - ELBA ELBA control panel
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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		P111326 - PROXIMA
	Universal handheld programmer for control units, receivers and remote controls with BLUETOOTH technology		Universal handheld programmer for control units, receivers and remote controls

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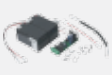













Generic accessories

ACCESSORIES FOR CONTROL UNITS

	<p>D223066 - CPEM</p> <p>Panel box for central control units</p>		<p>D223072 - CPEL</p> <p>Large panel box for central control units</p>
	<p>N999070 - SFQ</p> <p>Set of SD and QSG panel fixing brackets</p>		<p>N999369 - CP SD</p> <p>Set of cable clamps for SD panel</p>
	<p>D223076 - CPES</p> <p>Control panel box for control units. Dimensions 154x130 mm depth 60 mm</p>		

SET OF BATTERIES FOR CONTROL UNITS

	<p>P125008 - VIRGO BAT</p> <p>Set of backup batteries for VIRGO</p>		<p>P125005 - BT BAT</p> <p>Set of backup batteries for LIBRA C MA, LIBRA C LX, HYDRAN, ARGO</p>
	<p>P125006 - CB EOS</p> <p>Set of backup batteries for VENERE D</p>		<p>P125007 - BT BAT1</p> <p>Emergency battery kit for HYDRAN CPEL, only for external board not compatible with board on motor</p>
	<p>P125038 - BAT KIT MCL BT A</p> <p>Set of backup batteries for MICHELANGELO BT A barriers</p>		<p>P975005 - BATT-EB</p> <p>Backup battery kit to allow bollards to stay up in case of no power</p>
	<p>P111768 - BBV BATT MODULO VISTA SL</p> <p>Set of backup batteries for VISTA SL</p>		<p>P125002 - SB BAT</p> <p>SB BAT emergency battery kit for DEIMOS BT</p>
	<p>P125009 - BT BAT2</p> <p>Set of backup batteries for ARES</p>		<p>P125017 - A-300 SL BAT</p> <p>Set of backup batteries for A-300 SL series operators</p>
	<p> P120017 - BAT KIT 1</p> <p>Set of backup batteries for GIOTTO series barriers. Not compatible with GIOTTO BT A</p>		<p>P120074 - BAT KIT GIOTTO M BG</p> <p>Buffer battery kit for Giotto BT A series barrier</p>
	<p>P111503 - BBV SLC TL</p> <p>Battery powered anti-panic device for VISTA SL C, TL</p>		<p>P125020 - BBT BAT</p> <p>Set of backup batteries for THALIA and THALIA P</p>

SET OF BATTERIES FOR CONTROL UNITS






	<p>Ph. Out P125033 - SL BAT1</p> <p>SL BAT1 emergency battery kit for DEIMOS ULTRA BT</p>		<p>P125035 - SL BAT2</p> <p>Emergency battery kit for Deimos BT A, Ares BT A, Deimos Ultra BT A, Ares Ultra BT A.</p>
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EXPANSION BOARDS


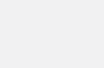

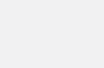





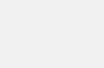
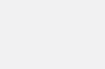
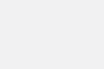
	<p>new P111494 - B EBA WI-FI GATEWAY</p> <p>Expansion card permitting connection of a U-link device to a home Wi-Fi network. Connected operators may be remotely managed with the U-control app available for Android and IOS smartphones.</p>		<p>Ph. Out P111748 00002 - B EBA BLUE ENTRY IOS LE 4</p> <p>BLUE-TOOTH expansion card for Blue Entry system (max 4 Android smartphones)</p>
	<p>Ph. Out P111748 00001 - B EBA BLUE ENTRY IOS LE 8</p> <p>BLUE-TOOTH expansion card for Blue Entry system (max 8 Android smartphones)</p>		<p>Ph. Out P111748 - B EBA BLUE ENTRY IOS LE 16</p> <p>BLUE-TOOTH expansion card for Blue Entry system (max 16 Android smartphones)</p>
	<p>Ph. Out P111531 - B EBA BLUE ENTRY ANDROID 4</p> <p>BLUE-TOOTH expansion card for Blue Entry system. Manages up to 4 smartphones with the Android operating system</p>		<p>Ph. Out P111532 - B EBA BLUE ENTRY ANDROID 8</p> <p>BLUE-TOOTH expansion card for Blue Entry system. Manages up to 8 smartphones with the Android operating system</p>
	<p>Ph. Out P111533 - B EBA BLUE ENTRY ANDROID 16</p> <p>BLUE-TOOTH expansion card for Blue Entry system. Manages up to 16 smartphones with the Android operating system</p>		<p>P111376 - SCS 1</p> <p>Expansion card</p>
	<p>P111408 - SCS WIE</p> <p>Board for connection of SELETTO (E) push-button panel and COMPASS SLIM proximity reader Until stocks last</p>		<p>Ph. Out P111535 - BEBA Z-WAVE DRIVER</p> <p>Expansion card for connection with Z-Wave wireless protocol</p>
	<p>P111377 - SCS 1 MA</p> <p>Board for connection to more than two checked photocell copies for DEIMOS BT and ARES While stocks last</p>		<p>D113050 - SPL</p> <p>Pre-heating board with thermostat for 230V hydraulic operators. Not usable with RIGEL 5</p>
	<p>P111399 - IT23</p> <p>Connection interface for CELLULA RFL in accordance with EN12453 Standard</p>		<p>D111704 - SSR5</p> <p>Control card traffic light or pre-heating hydraulic motors AC with Rigel 5</p>
	<p>D113727 - TLB</p> <p>Traffic-light management board for THALIA, THALIA P and LEO CBB.</p>		<p>D111013 - ME</p> <p>Control board for 12Vac solenoid lock for 230V automation systems</p>
	<p>D111761 - ME BT</p> <p>Control board for 24Vac solenoid lock for 24V automation systems</p>		<p>P111400 - FLC 8K2</p> <p>Interface for connecting one or more 8K2 type edges</p>
	<p>P111449 - RAU</p> <p>Wired connection board for BFT plug-in receivers</p>		<p>P111469 - B EBA BLUE GATEWAY</p> <p>Expansion board for BLUETOOTH connection management</p>



EXPANSION BOARDS

	P111466 - B EBA IO DRIVER INPUT/OUTPUT expansion board		P111467 - B EBA WIE DRIVER Expansion card for connection of WIEGAND accessories, compatible with U-Link control units
	P111468 - B EBA RS 485 LINK Expansion board for connection of central units with serial controls management		D111501 - ME110
	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 Software for bluetooth programming and managing of control unit, receiver and transmitters. USB key included		P111514 00002 - U-SDK FULL 2 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 Advanced management software for COMPASS access control system based on COMPASS SC.		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 2 PC Management and programming software for Bft control units and receivers. Version for PC, Bluetooth connection		 P111718 - U-BASE CLOUD 10 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 Management software for COMPASS access control system based on COMPASS SC.		P111513 00008 - U-SDK LIGHT 8 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 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		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. Light licence for 2 plants

RECEIVERS

	 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
	D111662 - CLONIX 2 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

RECEIVERS

	D113674 00001 - CLONIX 2E External dual channel 433 MHz rolling code receiver. 128-position memory. 24 V.		D113674 00003 - CLONIX 2E 2048 Dual channel 433 MHz rolling code plug-in receiver. 2048-position memory
	D113718 00002 - CLONIX 4 RTE External 4-channel 433 MHz rolling code receiver. Power relay outputs (16 A 230 V). 230 V.		D113670 00002 - RTD 2048 Four-channel rolling code receiver with 2048 codes and built-in programming display. 230 V power supply, radio command block programming
	D111713 00001 - MOP Accessory for adding an output channel to RTD		D111050 - RE Wired connection board for two BFT plug-in receivers
	D111305 - RO 2 Dual channel 30.875 MHz plug-in receiver.		D113632 - AEL 433 Antenna for 433 MHz radio remote control with 4 m cable
	D113631 - AEL 30.8 Antenna for 30.875 MHz radio remote control with 4 m cable		

TRANSMITTERS


	D111904 - MITTO B RCB02 R1 Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		D111888 - KLEIO B RCA02 R1 Transmitter with 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A
	P121024 - Q.BO TOUCH Wireless digital touch button panel 433 MHz rolling code.		D111905 - MITTO B RCB02 R2 REPLAY Copyable transmitter 2 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A.
	D111890 - KLEIO B RCA04 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.
	D111906 - MITTO B RCB04 R1 Transmitter with 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A		D111907 - MITTO B RCB04 R2 REPLAY Copyable transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A.
	N999543 - MITTO B RCB04 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.		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
	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		D111946 - MITTO B RCB04 R1 SUNRISE Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: sunrise yellow

















TRANSMITTERS

	<p>D111947 - MITTO B RCB04 R1 CLEAR ICE</p> <p>Transmitter 4 channels. Range 50/100 m. Power supply 12 V with 1 battery type 23 A. Colour: clear ice white</p>		<p>N999521 - CLIP1 B 00 R03</p> <p>Clip for hooking KLEIO B RCA and MITTO B RCB series remote controls to belt or sun visor. Supplied in pack of 30pcs</p>
	<p>N999522 - CLIP B 00 R04</p> <p>Wall mounting clip for KLEIO B RCA and MITTO B RCB remote controls. 30 unit pack</p>		









CONTROL DEVICES

	<p>P121024 - Q.BO TOUCH</p> <p>Wireless digital touch button panel 433 MHz rolling code.</p>		<p>D110926 00001 - SPIRA 2X1</p> <p>Magnetic loop 2 x 1 m</p>
	<p>P121022 - Q.BO KEY WM</p> <p>Key selector for outdoor use with double contact.</p>		<p>P111274 - RME 1 BT</p> <p>24 V single channel metal object detector with installation base</p>
	<p>P121023 - Q.BO KEY WM AV</p> <p>Vandalproof key selector with metal structure.</p>		<p>P111001 00003 - RME 2</p> <p>230 V dual channel metal object detector with installation base</p>
	<p>P121025 - Q.BO PAD</p> <p>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.</p>		<p>D121611 - SPC</p> <p>External button panel with 2 start-stop buttons.</p>
	<p>P903008 - CSC 50</p> <p>Aluminium column for photocell mod. CELLULA 50 and selector mod. INTRO</p>		<p>D121612 - SPC2</p> <p>External button panel with 2 open-close buttons.</p>
	<p>D121619 - SPC3</p> <p>Open stop close button panel.</p>		<p>D121011 - LCM</p> <p>Magnetic key reader. For column mounting - see mod. CLC</p>
	<p>N574039 - BOX</p> <p>Wall safe for unlocking with steel cable and electrical control; cable not included</p>		<p>N733036 - MOX</p> <p>External release system to be inserted in SIBOX safe</p>
	<p>P903026 - PHP3</p> <p>Pair of aluminium columns for Q.bo series selectors. Height 1038 mm</p>		<p> P903027 - PHP4</p> <p>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</p>

ACTIVATION SENSORS AUTOMATIC DOORS AND SECURITY

	P111405 - TELECOMANDO Remote control for adjusting and setting FALCON, EAGLE ONE and ACTIVE8		P111407 - FALCON Industrial presence sensor installable up to 7 m.
	P111662 - VIO-M Compact mono-directional activation sensor		P111325 - RIP Multi-function active infrared radar, wide/narrow range
	 P111652 - HR100-CT Safety and mono-directional activation sensor, infrared, monitored		P111653 - VIO-DT2 Safety and bi-directional activation sensor, dual technology, monitored
	P111654 - VIO-DT1 Safety and mono-directional activation sensor, dual technology, monitored		P111406 - SPOTFINDER IR curtain detector
	P111655 - IXIO-DT1 Safety and mono-directional activation sensor, dual technology, monitored, programmable c.telecom.		P111656 - VIO-ST Infrared safety sensor, monitored
	P111657 00001 - 4SAFE SENSORE SICUR IR MONIT.SW/ 1MOD/700 Monitored IR safety sensor for side-hung leaves, 1 module, 700 mm		P111657 00002 - 4SAFE SENSORE SICUR.IR MONIT.SW/ 2MOD/700 Monitored IR safety sensor for side-hung leaves, 2 modules, 700 mm
	P111657 00003 - 4SAFE SENSORE SICUR IR MONIT.SW/ 2MOD/900 Monitored IR safety sensor for side-hung leaves, 2 modules, 900 mm		

SIGNALLING DEVICES

	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.		D113748 00003 - RADIUS B LTA 24 R1 Flashing light with incorporated antenna for motors with power supply 24 V.
	D113749 00003 - RADIUS B LTA 24 R2 Flashing light without incorporated antenna for motors with power supply 24 V.		D113748 00002 - RADIUS B LTA 230 R1 Flashing light with incorporated antenna for motors with power supply 230 V.
	D113749 00002 - RADIUS B LTA 230 R2 Flashing light without incorporated antenna for motors with power supply 230 V.		P123026 - B 00 R01 Metal guard for B LTA
	P123025 - B 00 R02 Wall mounting for B LTA series flashing beacons		D121458 - TRAFFIC LIGHT Traffic lights with two red/green lights



SAFETY DEVICES - PHOTOCELLS AND ACCESSORIES

	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.		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.
	P111526 - DESME A15 Pair of self-aligning photocells. Range 30 m. Power supply 24 V ac/dc.		P111527 - DESME A15 O 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.
	P111536 - AKTA A30 Pair of photocells adjustable 180 ° horizontally and 20 ° vertically. Range 30 m. Power supply 24 V ac/dc.		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.
	P111272 - CELLULA 50 Pair of built-in adjustable photocells (range 30 m) Power supply 24 V ac		P111391 - CELLULA RFL Reflective photocell for external application (range 12 m) Power supply 24 V ac/dc (requires S RFLP P111409)
	new P903028 - PHP A Pair of aluminium posts for THEA/DESME series photocells Height 522 mm		new P903029 - PHP2 A Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm
	new P903030 - PHP4 A 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		Ph. Out P903018 - PHP Pair of aluminium posts for THEA/DESME series photocells Height 522 mm
	Ph. Out P903019 - PHP2 Pair of double aluminium posts for THEA/DESME series photocells. Height 1038 mm		Ph. Out P903027 - PHP4 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
	P903022 - PHP BI Dual-face adapter for THEA/DESME photocells		P903020 - APL Pair of foundation plates for PHP posts
	P903025 - PHP ADA Pair of adapters for the installation of AKTA photocells on PHP posts		P903023 - PHP BA1 Support for mounting THEA/DESME photocells on Giotto, Moovi and Michelangelo enclosures
	P903021 - PHP ADA CC Pair of adapters for the installation of THEA/DESME photocells on CC posts		P111409 - S RFLP Reflector and support for wall mounting and mounting on CC post for CELLULA RFL
	P903013 - CC RFL CELLULA RFL and S RFLP mounting support on CC posts		D221573 - CCI Recessed container for CELLULA 50 and INTRO.

SAFETY DEVICES - PHOTOCELLS AND ACCESSORIES

	P903014 - CM RFL CELLULA RFL wall mounting support		P903024 - ACV20 Vandal-proof protection for DESME photocells
	P111538 - ACV30 Vandal-proof protection for AKTA photocells		P111399 - IT23 Connection interface for CELLULA RFL in accordance with EN12453 Standard
	N999465 - DCW BAT Pack of 12 batteries for photocell safety edge, compatible with DCW, TANGO, ERIS A30		P111460 - KIT CELLULA 180 AT KIT CELLULA 180 + DCW COVER
	P903008 - CSC 50 Aluminium column for photocell mod. CELLULA 50 and selector mod. INTRO		P111081 - PRO 130 Anodised aluminium vandal-proof guard for CELLULA 130
	P903005 - CC130 Pair of aluminium posts for CELLULA 130 photocells		P903006 - CC130/2 Pair of aluminium posts with double fitting for CELLULA 130 photocells
	P903007 - CSC 130 Aluminium post for CELLULA 130 photocell and INTRO selector, plus CC130 post		P903004 - CC50 Pair of aluminium posts for CELLULA 50 and CELLULA RFL photocells

SAFETY DEVICES - SENSITIVE EDGES









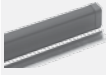
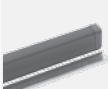
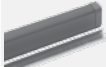





	N190106 - STR Pair of infrared STR sensors for ERIS A30		P111537 - ERIS A30 Pair of wireless photocells with the possibility of management of an active infrared or resistive safety edge adding STR and BIR C or BAR C profiles.
	P111401 00001 - VENTIMIGLIA NS Infrared device for BIR C or BAR C safety edges (conforms to EN 12978 Standard)		N999465 - DCW BAT Pack of 12 batteries for photocell safety edge, compatible with DCW, TANGO, ERIS A30

RUBBER PROFILES

	N190104 - BIR C Rubber safety edge (H 30 mm), price per m		P111050 - CM1000
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RUBBER PROFILES

	P111051 - CM1500 Mechanical safety edge, length 1.5 m		P111052 - CM1700 Mechanical safety edge, length 1.7 m
	P111053 - CM2000 Mechanical safety edge, length 2 m		P111054 - CM3000 Mechanical safety edge, length 3 m
	P111055 - CM4000 Mechanical safety edge, length 4 m		P111056 - CM5000 Mechanical safety edge, length 5 m
	P111450 00002 - BAR C 2 Double profile rubber safety edge (L 2000 x H 60 mm)		P111450 00004 - BAR C 4 Double profile rubber safety edge (L 4000 x H 60 mm)
	P111450 00006 - BAR C 6 Double profile rubber safety edge (L 6000 x H 60 mm)		N190039 - CSP 10 Rubber shock absorber profile length 1000 mm
	N190040 - CSP 20 Rubber shock absorber profile length 2000 mm		N190041 - CSP 25 Rubber shock absorber profile length 2500 mm
	P111451 00004 - BAR C BA 4 Double profile safety edge with lip seals (L4000xh60 mm.) BAR C BA 4		P111451 00002 - BAR C BA 2 Double profile safety edge with lip seals (L2000xh60 mm.) BAR C BA 2
	P111451 00006 - BAR C BA 6 Double profile safety edge with lip seals (L6000xh60 mm.) BAR C BA 6		D221074 - TB Plug for BIR C - TB
	N999025 - TA TA TAPPI BAR		

SOLENOID LOCKS

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

SOLENOID LOCKS

	P123008 00001 - EBPE 75 230 V solenoid lock with zero stop resistance, also with release from outside for gates of max thickness 75 mm		D121016 - ECB DX Right-hand horizontal solenoid lock, 12/24 V
	D121018 - ECB VERTICALE Vertical solenoid lock, 12/24 V		P123006 00013 - EBPE 52 24V EBPE 52 24 V with transformer
	P123001 00004 - EBP 120 Drop electric lock + transf. 24/120 V 60 Hz		P123001 00019 - EBP24 120 Drop electric lock + transf. 24/120 V 60 Hz

RELEASE SYSTEMS

	N733189 - SCT Release for ELI 250 and SUB BT with personalized key.		N733392 - SCC Release for ELI 250N and SUB BT with lever key.
	D610180 - CLS Triangular release key l=52 mm		D610256 - CLS/82 Triangular release key for SUB operators l=82 mm
	P115003 - ST Automatic bolt release for sectional doors		N733069 - SET/S External release for insulated sectional and overhead doors of thickness up to 50 mm.
	N733422 - RCAL Lever release for ARGO with steel cable, length 7 m		N733020 - SEB External key release for BERMA, FORB, IGEA LB and IGEA LB BT
	N733036 - MOX External release system to be inserted in SIBOX safe		N574039 - BOX Wall safe for unlocking with steel cable and electrical control; cable not included
	N574005 - SIBOX Empty wall-mounted safe for external release and control keypad Dimensions 179.5 x 122 x 92 mm		N733502 - SCP 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.		



Parking systems





SYSTEM TYPE:

STAND-ALONE SYSTEM

ESPAS 10 MONEY BOX Espas 10 COIN

- Espas 20 I 1
- Espas 20 U 2
- Espas 20 P 3
- Espas 20 T 4

WIRED SYSTEM

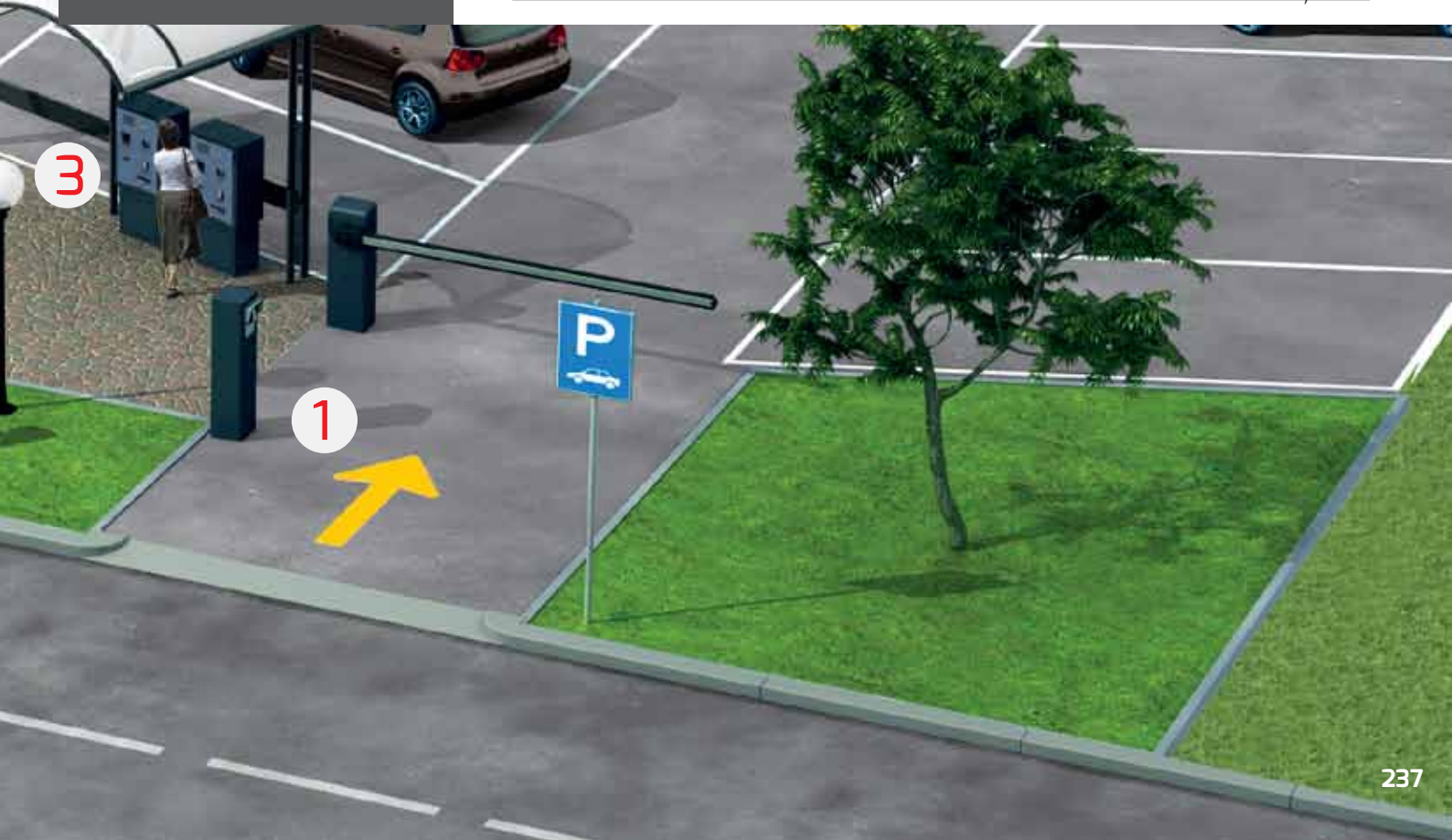
- Espas 30 I 1
- Espas 30 U 2
- Espas 30 P 3
- Espas 30 POS SERVER 4

Guide to choosing

Espas 10 Espas 20 Espas 30

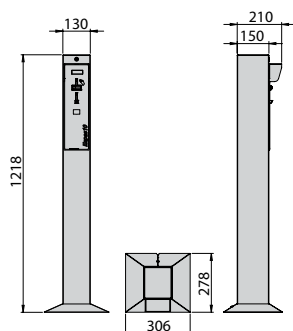
		●	●	●
COMMUNICATION BETWEEN DEVICES	Stand alone operation	●	●	
	RS485/LAN communication protocol			●
USER INTERFACE	Alphanumeric display		●	●
	Multi-language voice synthesis			●
ONE-OFF USER	1D barcode ticket			●
	2D barcode tickets		●	
USER MANAGEMENT	Courtesy time management		●	●
	Ticket on fanfold thermal paper		●	●
	Linear charge linked only to time spent in car park	●	●	
	Operator pass with ISO125KHz card		●	●
SEASON TICKET HOLDER MANAGEMENT	Season tickets with ISO 125KHz card			●
	Season tickets with barcode tickets		●	●
	Antipassback function on entry/exit stations		●	●
	Time slot season tickets with iso cards			●
	Decremental season tickets with iso cards (time, amount, transits)			●
	Season tickets on "free-hand" support			●
	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		●	●
	AUTOMATIC PAY STATION	Alphanumeric display		●
Graphic display				●
Payment by credit card *				●
Payment with up to 5 coin types			●	●
Change giver, up to 5 coin types			●	●
Change giver, up to 4 coin types, high capacity			●	●
Change giver, 1 banknote type			●	●
Automatic coin jam clearing			●	●
Lost ticket function			●	●
Payment data re-write on ticket function			●	●
Receipt request			●	●
Secondary coin box			●	●
Cash movement report			●	●
Programmable thermostat control system			●	●
Control unit on industrial PC			●	
MANNED PAY STATION	1D barcode ticket printing and validation		●	
	2D barcode ticket printing and validation		●	
	Centralised management software			●
	Issue of season tickets with ISO card			●
	System software management from remote stations			●

* Credit card available after verification of service in the relevant country





ESPAS 10 MONEY BOX |



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

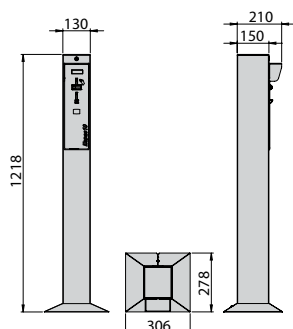
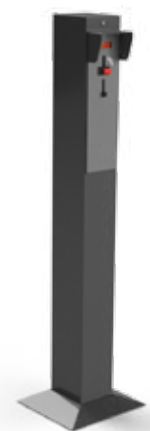
SPECIAL VERSION

- 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 |



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 Espas20 posts.

BASIC COMPONENTS

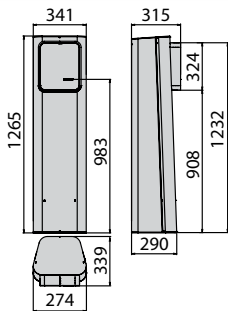
- Front panel comprising a 4 digit LCD display showing the amount to be paid
- Coin machine enabled to accept 0.10 0.20 0.50 1 and 2 Euro coins.

TECHNICAL DATA

- Power 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 | Stand Alone



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

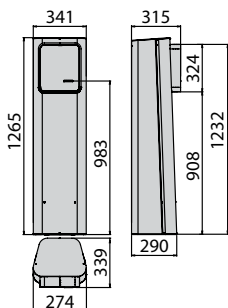
SPECIAL VERSIONS

- 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 | Stand Alone



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

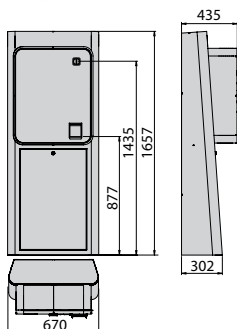
- Espas 20 SA: for exits for season ticket holders only

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



ESPAS 20-P



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

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

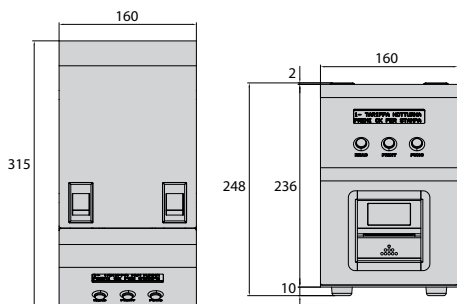
OPTIONAL COMPONENTS

- 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

ESPAS 20-T



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

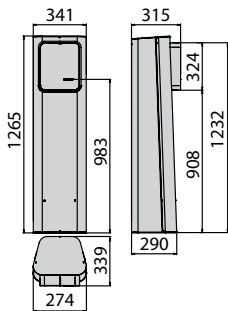
- Backlit alphanumeric display showing the price to be paid
- Built-in optical module for 2D barcode reading
- 3 function keys for settings and printing tickets for:
 - one entry and one exit
 - unlimited access for a given period
 - exiting the car park after a given number of hours
- Upper opening 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-I | Cable System



The Espas 30-I 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 RS485 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

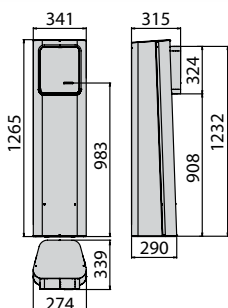
SPECIAL VERSIONS

- 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 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-U | 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

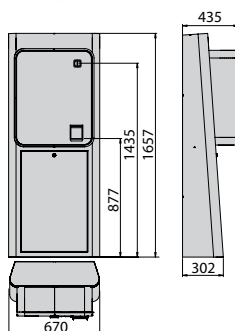
- Espas 30 A: for entry and exit points for season ticket holders only

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 | Cable System



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 | Cable System

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
- RS485 interface device for connection to entry and exit stations
- Network hub for connection to the Espas 30-P automatic pay station

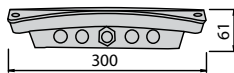
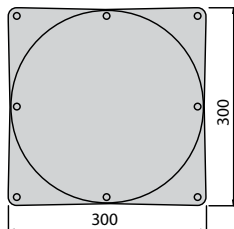
OPTIONAL COMPONENTS

- 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

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.



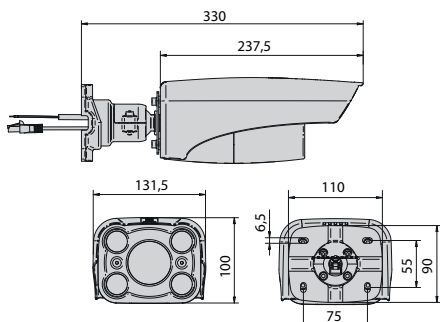
OPERATION

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 let it pass. 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 MHz
 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

The Espas NEA is a licence plate reading system that can be integrated into Espas30 parking systems. The camera, installed near the Espas30-I and Espas30-U 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.



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; ● components which are not original BFT parts have been used for installing the motorization; ● the failures are the result of tampering or improper repairs carried out by unauthorized personnel; ● the failures have been caused by improper or careless use; ● the causes of the failure are due to external agents such as: 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 agreements 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

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. ● 13.2 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 trans-

lated 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 PROCESSING 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 OPERATORS ● 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. 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. ● 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 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 entitle the Purchaser 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 ●

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 author-

ized 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 with 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). ● 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 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 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-

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^o 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 ● INFORMATION CONCERNING THE PROCESSING 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 OPERATIONS ● 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; ● 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 CONTROLLER ● The Data Controller is BFT S.p.A., Via Armentera 8, 38051 Borgo Valsugana (TN) ● Annex 2 ● CONDITIONS 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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