













BIONIK

The BRUSHLESS automated barrier with digital thinking Primo Florian: Founding partner - Engineering and design, Dino Florian: Founding President - Development and design, Renato Florian: Founding partner - Assembly and quality

PEOPLE AND IDEAS

From the very beginning roger technology has evolved and grown because it's people believe that any bright idea can lead to great change in the future. Our people are passionate and innovative in our approach to every challenge, allways pushing the boundaries to develop extraordinary products.

PRODUCT EXPERIENCE

In our language we translate the word "experience" as passion. It is this passion that drives us in the development of revolutionary new products that serve the real needs of our customers.

We understand that our customers want a product

We understand that our customers want a product designed around the way that they work.





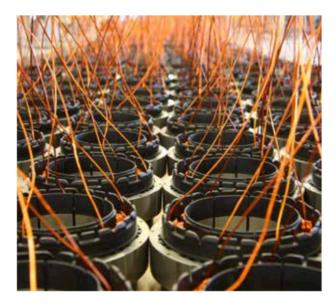


Production technology

At Roger Technology all internal manufacturing is carried out on optimised production lines making use of very advanced technology. We have invested heavily in robotics and automated all product manufacturing phases. This ensures that all components and semi-finished products are highly reliable. and are fully complient with our exceptionally high quality standards.









A digital brushless motor with permanent magnetic field, digital electronics for the complete management of the automation system control. Designed for super intensive use with the added benefit of a super low power consumption.

THIS IS BRUSHLESS

Digital Brushless Motor

Revolutionary and innovative digital Brushless motor with permanent magnetic field, 36V three-phase sinusoidal power supply with native encoder that allows super-intensive use of the automation system with extremely low power consumption, not only providing 100% compliance with all control and safety requisites of the automation system.

New Generation of Electronics

The new control unit with onboard Brushless digital controller (36V DC). Without traditional relays and thanks to its revolutionary MOSFET quadrant system and its control technology entirely based on a DSP microcontroller, it represents a new generation of electronic cards created to safely handle every type of automation movement.

Engineering Passion

All the mechanical components and gears are manufactured in steel, cast iron and bronze. The automation system casings are made from titaniumreinforced die-cast aluminium. All the gears are inspected and assembled on high-quality bearings and inserted on precise seats machined to provide absolute precision between the axes.



3-PHASE DIGITAL BRUSHLESS MOTOR

A very powerful motor with substantial torque. The motor is compact and neat due to the special concentrated coil windings, it is powered by a three phase sinusoidal system.



DIGITAL AND VECTORIAL AUTOMATION CONTROLLER

The BRUSHLESS digital controller, which operates at low voltage 36V DC, allows 100% control of the automation system in digital mode. Due to its operation entirely based on a DSP microcontroller the travel and all the movements of your automation system can therefore be programmed and customised easily, precisely and elegantly.



SPEED, ACCELERATION AND DECELERATION WITH EXTREME ELEGANCE

The automation system with brushless digital technology creates perfect and elegant movements. With a constant force and torque at every point and with the option of varying the speed on deceleration and acceleration the system can be managed with maximum safety.



EXTREMELY LOW ENERGY CONSUMPTION

A motor that can operate at low voltage in super-intensive use and which can operate in environments with extremely demanding weather conditions while maintaining very low energy consumption and absorption levels. We can move a 600 kg sliding gate and use less than 30W of power



NO PROBLEM IN THE EVENT OF POWER FAILURE

With the help of internal or external batteries and the associated battery charging card, your automation system continues to operate for a considerable time even during prolonged power cuts, ensuring many more operations than traditional technologies.



MOTOR AT AMBIENT TEMPERATURE

The BRUSHLESS motor was brought into being with the main goal of being a motor for super-intensive use with an efficiency of 99%. Regardless of how many operations the engine performs in a day, it always remains cold or at most reaches the outside ambient temperature.

COMPLETELY BRUSHLESS

The revolutionary digital motor which is 12 ways different



THE DIGITAL SILENCE OF THE MOTOR

One great impact is the silence or the near absence of noise, generated by the BRUSHLESS motor during all its movements.



SUPER-INTENSIVE USE

We wanted to surprise you with a fundamental act: The super intense use of the automation ystem with the motor hich remains permanently ys of use.



IMPACT, OBSTACLE DETECTION AND REVERSAL IN TOTAL SAFETY

Thanks to digital technology we are able to detect an obstacle and reverse the motor instantly, by simply specifying the torque of the motor, the sensitivity, the time and the travel of the reversal. And in complete compliance with all safety requisites.



ONBOARD NATIVE

The BRUSHLESS motor has a highly advanced native digital encoder that controls management of automation systems in a safe, precise and extremely elegant manner.



SIMPLE INSTALLATION WITH A SINGLE 3-WIRE CABLE

And the BRUSHLESS motor can be installed by simply connecting it using a single 3-wire cable! What could be easier? This will provide fully digital management of your automation system thanks to SENSORED technology depending on the type of automation system.



ADVANCED PRECISION ENGINEERING TO OBTAIN OPTIMAL MOTOR PERFORMANCE

We have created a mechanism that gives you the opportunity to get the maximum performance out of the motor. A product which combines the quality of the internal production processes, the mechanical processing and the use of high quality ferrous and non-ferrous materials.

A technology that offers maximum performance but consumes less power than other motors

BIONIK4, EQUAL ONLY TO ITSELF



Digital 36V BRUSHLESS motor

Innovative, revolutionary 36V Brushless digital motor with permanent magnetic field and a SENSORED digital technology encoder that permits unlimited use of the barrier with extremely reduced consumption and a mechanical absolute positioning system.



Gear motor with perfect gears

The gear motor is a mechanical jewel made entirely of aluminium, steel and bronze. All the gears are helicoidal with a 15° tilt, assembled on top quality bearings and inserted in perfectly machined seats to guarantee the absolute precision of the gear axes.



Easy to access, thanks to its position in the upper part of the barrier, well protected in the basket containing all the electronics, transformer compartment and support batteries. The digital controller ensures total, accurate management.



Small but highly resistant structure

The materials employed - steel and bronze - are top quality to ensure optimum robustness for the automation, making it highly stable during use. A vital role is also played by the surface treatment and the types of varnish, designed to make the barrier structure particularly resistant to a wide range of atmospheric agents.

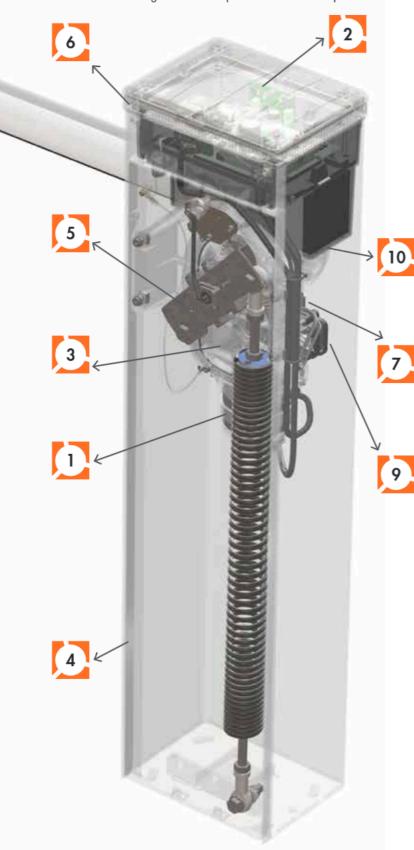
BRUSHLESS BECAUSE

Sturdy and elegant, to manage accesses to condominiums, commercial premises, industrial sites and residential areas.



Linkage lever and springs

Different types of spring are available, according to the length of the boom and certified for millions of manoeuvres. Mechanical linkage lever with adjustable mechanical stops.





LED lighting

Elegant LED lighting circuit all over the aluminium head of the barrier column.

Can be configured via the control unit.



Absolute mechanical positioner

Powerful, innovative and accurate encoder with absolute positioning, mounted on the slow reducer shaft. Allows movements to be managed in tenths of a degree, and ensures perfect automation restart without relearning after the blackout or manual release phases.



Robust, elliptic boom

Aluminium boom with an elliptical section providing greater wind resistance, and central ribbing for even greater stability and robustness. Integrated signalisation LED on the upper side. Can be configured via the control unit.



Robust, innovative release

Mechanical manual release with standard cylinder lock, able to unlock the barrier in any situation thanks to its excellent mechanics based on a twin-acting elliptical lever.



Bionic boom support arm



Bionic support and protection arm in die-cast aluminium, directly connected to the reducer via a special system for pre-reducing the mechanical stress of the boom movement.

BIONIK6, EQUAL ONLY TO ITSELF



Digital 36V BRUSHLESS motor

Innovative, revolutionary 36V Brushless digital motor with permanent magnetic field and a SENSORED digital technology encoder that permits unlimited use of the barrier with extremely reduced consumption and a mechanical absolute positioning system.



Gear motor with perfect gears

A veritable mechanical "gem, the gear motor is a made entirely of aluminium, steel and bronze. All gears are helicoidal with a 15° tilt, assembled on top quality bearings and inserted in perfectly machined seats to guarantee absolute precision of the gear axes. The take-off of the connecting shaft to the boom is of 45 mm.



Advanced digital controller

Easy to access, thanks to its position in the upper part of the barrier, well protected in the basket containing all the electronics, transformer compartment and support batteries. The digital controller ensures total, accurate management.



Highly resistant structure

The materials employed - steel and bronze - are top quality to ensure optimum robustness for the automation, making it highly stable during use. A vital role is also played by the surface treatment and the types of varnish, designed to make the barrier structure particularly resistant to a wide range of atmospheric agents.

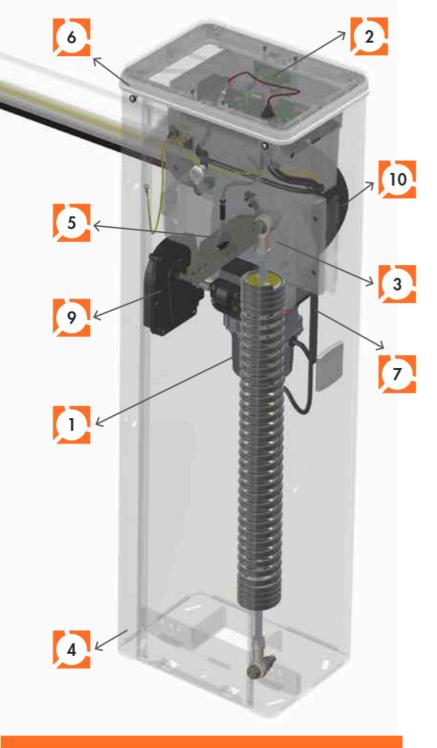
BRUSHLESS BECAUSE

Sturdy and elegant manage accesses to commercial and industrial premises as well as heavy traffic parking lots.



Linkage lever and springs

Different types of spring are available, according to the length of the boom and certified for millions of manoeuvres. Mechanical linkage lever with adjustable mechanical stops.



BARRIER AVAILABLE ALSO WITH BOOM LENGTH UP TO 4 M

BIONIK4HP



LED lighting

Elegant LED lighting circuit all over the aluminium head of the barrier column.

Can be configured via the control unit.



Absolute mechanical positioner

Powerful, innovative and accurate encoder with absolute positioning, mounted on the slow reducer shaft. Allows movements to be managed in tenths of a degree, and ensures perfect automation restart without relearning after the blackout or manual release phases.



Robust, elliptic boom

Elliptical section, wind-resistant aluminium boom with central ribbing, to provide even greater stability and sturdiness. Signalisation LED on both horizontal ends of the boom, integrated and configurable from the control unit.



Robust, innovative release

Manual mechanical release by key, with European cylinder able to release the boom for any requirement and in any situation, thanks to its excellent mechanical features.



Sturdy boom support flange



Extended cone double flange in die-cast aluminium for support and protection, directly connected to the reduction gear with 3 internal flanges fastening system, for a sturdy and safe mechanical movement of the boom.

BIONIK8, EQUAL ONLY TO ITSELF



Digital 36V BRUSHLESS motor

Innovative, revolutionary 36V Brushless digital motor with permanent magnetic field and a SENSORED digital technology encoder that permits unlimited use of the barrier with extremely reduced consumption and a mechanical absolute positioning system.



Gear motor with perfect gears

A veritable mechanical "gem, the gear motor is a made entirely of aluminium, steel and bronze. All gears are helicoidal with a 15° tilt, assembled on top quality bearings and inserted in perfectly machined seats to guarantee absolute precision of the gear axes. The take-off of the connecting shaft to the boom is of 55 mm.



Advanced digital controller

Easy to access, thanks to its position in the upper part of the barrier, well protected in the basket containing all the electronics, transformer compartment and support batteries. The digital controller ensures total, accurate management.



Highly resistant structure

The materials employed - steel and bronze - are top quality to ensure optimum robustness for the automation, making it highly stable during use. A vital role is also played by the surface treatment and the types of varnish, designed to make the barrier structure particularly resistant to a wide range of atmospheric agents.

BRUSHLESS BECAUSE

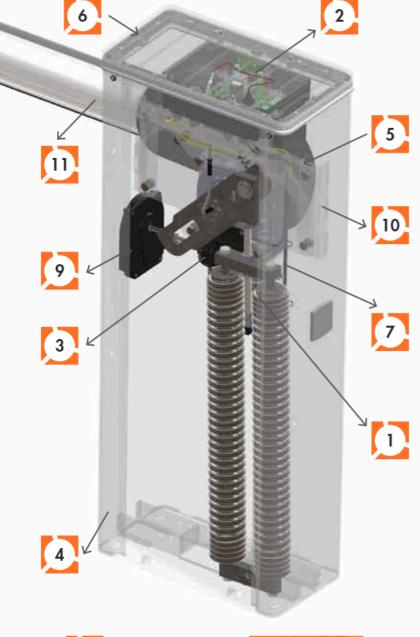
Sturdy and elegant, to manage accesses to commercial premises, industrial sites and large logistics areas.



Sturdy boom support flange



Extended cone double flange in die-cast aluminium for support and protection, directly connected to the reduction gear for a sturdy and safe mechanical movement of the boom.





New double spring linkage lever



Innovative linkage lever with toothed insert, which guarantees a correct, double and millimetric adjustment of the balancing of the 2 x 85 mm diameter springs. Hooking of the double spring to the linkage lever with roller bearing for a better distribution of the boom load points, weights and stresses.



LED lighting

Elegant LED lighting circuit all over the aluminium head of the barrier column.

Can be configured via the control unit.



Absolute mechanical positioner

Powerful, innovative and accurate encoder with absolute positioning, mounted on the slow reducer shaft. Allows movements to be managed in tenths of a degree, and ensures perfect automation restart without relearning after the blackout or manual release phases.



Robust, elliptic boom

Elliptical section 4,100 mm aluminium Double Boom, wind resistant, with 2 strengthening telescopic inserts to fasten the boom to the flange and to connect the 2 booms through a dedicated aluminium double joint. Integrated signalisation LED on the upper side, configurable from the control unit.



Robust, innovative release

Manual mechanical release by key, with European cylinder able to release the boom for any requirement and in any situation, thanks to its excellent mechanical features.



Telescopic reinforced supports



Two telescopic reinforced supports inside the boom, one for fastening to the support flange and the other for the joint between the two booms, 4,100 mm long, making the boom sturdy and safe.

ACCESSORIES

BIONIK BARRIER

| OPTIONAL ACCESSORIES | | | | | | | | | | |
|----------------------|-------------|--|--------|----------------------------|----------------------------------|------------------------|------------------------------|-----------|----------|---------------------------|
| | | | BI/004 | BI/004HP - BI/004HP/115 | BI/004HP/IS - BI/004HP/IS/115 | BI/006 – BI/006/115 | BI/006/IS – BI/006/IS/115 | BI/008 | BI/001PE | BI/001PC- BI/001PC/115 |
| | CODE | DESCRIPTION | | | | | | | | |
| ĺ | BAFS/01 | Fixed end rest with rubber, not adjustable, for booms. | √ | √ | √ | √ | √ | √ | | |
| ĺ | BAFS/02 | Fixed end rest with rubber, telescopic and adjustable, for booms. | √ | √ | √ | √ | √ | √ | | |
| ĺ | BAFS/03 | Fixed end rest with rubber, not adjustable, with latch chain pre-setting. | √ | √ | √ | √ | √ | √ | | |
| Í | BAFS/04 | Fixed end rest with rubber, telescopic and adjustable, with latch chain pre-setting. | √ | √ | √ | √ | √ | $\sqrt{}$ | | |
| Y | BAFS/05 | Fixed end rest adjustable for barriers with magnetic suction cup. | √ | √ | √ | √ | √ | √ | | |
| | BAMS/01 | Hinged end rest for booms. | √ | √ | √ | √ | √ | √ | | |
| ļ | BAMS/01/EXT | 20 cm extension for hinge rest in barrier booms (BAMS/01). | √ | √ | √ | √ | √ | $\sqrt{}$ | | |
| | BA/68/3 | Aluminium elliptical boom, painted white, 3 metre long, for BIONIK4 barrier with slot cover profile, in protective rubber and terminal plug. | √ | | | | | | | |
| | BA/68/4 | Aluminium elliptical boom, painted white, 4 metre long, for BIONIK4 barrier with slot cover profile, in protective rubber and terminal plug. | √ | | | | | | | |
| | BA/60/3 | Aluminium cylindrical boom, painted white, 3 metre long. | | | | | | | | √ |
| | BA/90/2 | Aluminium elliptical boom, painted white, 2 metre long, with slot cover profile, in protective rubber and terminal plug. | | √ | √ | √ | √ | | √ | |
| | BA/90/3 | Aluminium elliptical boom, painted white, 3 metre long, with slot cover profile, in protective rubber and terminal plug. | | √ | √ | √ | √ | | √ | |

| | | | BI/004 | BI/004HP - BI/004HP/115 | BI/004HP/IS – BI/004HP/IS/115 | BI/006 - BI/006/115 | BI/006/IS – BI/006/IS/115 | BI/008 | BI/001PE | BI/001PC- BI/001PC/115 |
|------|--------------|---|----------|----------------------------|----------------------------------|------------------------|------------------------------|-----------|----------|---------------------------|
| | CODE | DESCRIPTION | | | | | | | | |
| | BA/90/4 | Aluminium elliptical boom, painted white, 4 metre long, with slot cover profile, in protective rubber and terminal plug. | | √ | √ | √ | √ | | | |
| | BA/90/6 | Aluminium elliptical boom, painted white, 6 metre long, with slot cover profile, in protective rubber and terminal plug. | | | | √ | √ | | | |
| | BA/128/4 | Aluminium elliptical boom painted white, 4+4, with LED cover, protective rubber and terminal plug for BIONIK8. | | | | | | $\sqrt{}$ | | |
| 1 | SND/BA/68/DW | Joint with 90° pivot point with lower tie-rod for BIONIK4 series booms. | √ | | | | | | | |
| 4 | SND/BA/68/UP | Joint with 90° pivot point with upper tie-rod for BIONIK4 series booms. | √ | | | | | | | |
| | JNT/BA/90 | Internal connecting joint, in anodised aluminium, inclusive of fastening screws, for BIONIK4HP series booms – BIONIK6. | | √ | √ | √ | √ | | √ | |
| | SND/BA/90/DW | Joint with 90° pivot point with lower tie-rod for BIONIK4HP - BIONIK6 series booms. | | √ | √ | √ | √ | | √ | |
| | SND/BA/90/UP | Joint with 90° pivot point with upper tie-rod for BIONIK4HP - BIONIK6 series booms. | | √ | √ | √ | √ | | √ | |
| | JNT/BA/128 | Internal connecting joint, in anodised aluminium, inclusive of fastening screws, for BIONIK8 series booms. | | | | | | √ | | |
| | BARK/02 | Drop skirt in painted aluminium, with stainless steel screws mounted on bushings. Single module, 2 metre long. | √ | √ | √ | √ | √ | √ | | |
| + 80 | BI/BAT/KIT | Connecting board kit and battery charger for Brushless digital controller CTRL - 36V DC complete with 2 12V DC batteries at 4.5 Ah. Specific kit for BIONIK barrier. | √ | √ | √ | √ | √ | $\sqrt{}$ | √ | √ |
| • | BI/BCHP | Battery charger for 36V DC Brushless digital controller CTRL, without batteries, specific for BIONIK barrier. | √ | √ | √ | √ | √ | √ | √ | √ |

ACCESSORIES

BIONIK BARRIER

| OPTIONAL ACCESSORIES | | | | | | | | | | |
|----------------------|----------|--|--------|----------------------------|----------------------------------|------------------------|------------------------------|--------|----------|---------------------------|
| | | | BI/004 | BI/004HP - BI/004HP/115 | BI/004HP/IS - BI/004HP/IS/115 | BI/006 – BI/006/115 | BI/006/IS – BI/006/IS/115 | BI/008 | BI/001PE | BI/001PC- BI/001PC/115 |
| | CODE | DESCRIPTION | | | | | | | | |
| | BT12V45 | Pair of 12V 4.5 Ah batteries. | √ | √ | √ | √ | √ | √ | √ | √ |
| | KT240 | Complete fastening base and screws for BIONIK4 series. | √ | | | | | | | |
| | KT230 | Complete fastening base and screws for BIONIK1 - BIONIK4HP - BIONIK6 series. | | √ | √ | √ | √ | | √ | √ |
| | KT230/IS | Complete fastening base in AISI 304 stainless steel and screws for BIONIK1 - BIONIK4HP - BIONIK6 series. | | √ | √ | √ | √ | | √ | √ |
| | KT244 | Complete fastening base and screws for BIONIK8 series. | | | | | | √ | | |
| | KT231 | Fastening base for fixed end rests codes BAFS/01, BAFS/02, BAFS/03, BAFS/04, BAFS/05. | √ | √ | √ | $\sqrt{}$ | √ | √ | | |
| | B73/EXP | Signal status board, 2 outputs. | √ | √ | √ | V | √ | √ | √ | √ |
| , | SP/48/01 | 48 mm diameter spring for barrier. | √ | | | | | | | |
| , | SP/61/01 | 61 mm diameter spring for barrier. | √ | | | | | | | √ |
| , | SP/72/01 | 72 mm diameter spring for barrier. | √ | √ | √ | | | | √ | |
| 1 | SP/83/01 | 83 mm diameter spring for barrier. | | | | √ | √ | | | |
| 1 | SP/85/01 | 85 mm diameter spring for barrier. | | | | √ | √ | | | |

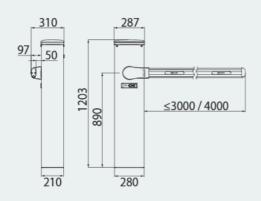
| | | | BI/004 | BI/004HP – BI/004HP/115 | BI/004HP/IS – BI/004HP/IS/115 | BI/006 - BI/006/115 | BI/006/15 – BI/006/15/115 | BI/008 | BI/001PE | BI/001PC- BI/001PC/115 |
|-----|-------------|--|--------|----------------------------|----------------------------------|------------------------|------------------------------|-----------|-----------|---------------------------|
| | CODE | DESCRIPTION | | | | | | | | |
| | SP/85/AS/02 | Set of 2 - 85 mm diameter springs for BIONIK8 barrier. | | | | | | √ | | |
| | DLD1/24 | Magnetic detector for 1 loop, 2 x 24V AC/DC outputs. | √ | √ | √ | √ | √ | $\sqrt{}$ | $\sqrt{}$ | √ |
| | DLD2/24 | Magnetic detector for 2 loop, 2 x 24V AC/DC outputs + alarm output. | √ | √ | √ | √ | √ | $\sqrt{}$ | $\sqrt{}$ | √ |
| | RL670 | (DIN) Euro profile cylinder key for release system for SMARTY - BIONIK series. | √ | | | | | | | |
| 1 | KT239 | DIN bar kit with magnetic supports. | √ | √ | √ | √ | √ | √ | √ | √ |
| E E | KT242 | Kit magnetic cable conduit. | √ | √ | √ | √ | √ | √ | √ | √ |
| | ALED/4C | 4 metre led strip with connecting cable for BIONIK4 booms. | √ | | | | | | | |
| | ALED/6C | 6 metre led strip with connecting cable. | | √ | √ | | | | √ | |
| | ALED/8C | 8 metre led strip with connecting cable. | | √ | √ | | | √ | | |
| | ALED/12C | 12 metre led strip with connecting cable. | | | | √ | √ | | | |
| | R99/BASB40 | Package of 40 refractive adhesive strips for barrier boom. | √ | √ | √ | √ | √ | √ | √ | √ |
| | ACS/BA/60 | Anti-breaking through system for barrier with BA/60 boom. | √ | √ | √ | | | | √ | √ |

DIMENSIONS

Note: All measurements in the drawings are in millimetres

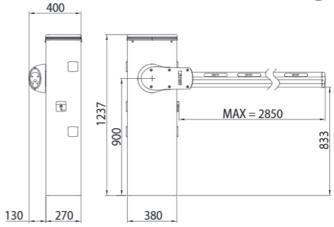
BIONIK BI/004



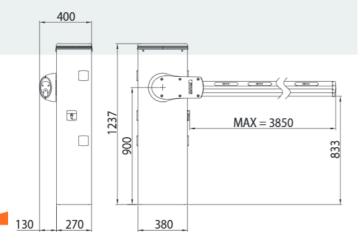


BIONIK BI/001PE - BI/001PC

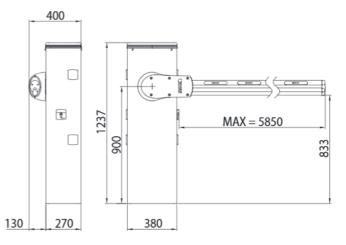




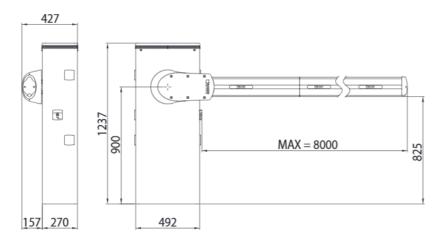
BIONIK BI/004HP



BIONIK BI/006



BIONIK BI/008



Technical SPECIFICATIONS

| Typology encoder Digital SENSORED Digita | | | | | | | |
|--|-------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Boom Up to 4 m | | BI/004 - BI/004/115 | | BI/006 - BI/006/115 | BI/008 - BI/008/115 | | BI/001PC - BI/001PC/115 |
| Cline power supply SOV AC - 11SV AC SOV AC - | Code Description | | | | | | |
| Line power supply 50/60Hz ~10% 36V | Boom | up to 4 m | up to 4 m | up to 6 m | up to 8,2 m | up to 3 m | up to 3 m |
| power supply AbV BoV BoV BoV BoV BoV BoV BoV B | Line power supply | | | | | | |
| Frequency of use Continuous Super Intensive Super Intensive Super Intensive Super Intensive Continuous Cont | | 36V | 36V | 36V | 36V | 36V | 36V |
| Operating temperature -20 +55°C -20 +50°C -50 +50°C | Max power | 220W | 220W | 220W | 300W | 450W | 450W |
| Degree of protection IP54 IP54 IP54 IP54 IP54 IP54 IP54 IP54 | Frequency of use | Continuous | Super Intensive | Super Intensive | Super Intensive | Continuous | Continuous |
| Open time 90° | Operating temperature | -20 +55°C | -20 +55°C | -20 +55°C | -20 +55°C | -20 +55°C | -20 +55°C |
| Open time 90° (with boom up to 3 m) From 3 to 6 s (with boom up to 4 m) From 3 to 6 s (with a lighted up to 6 section 1 miles and 1 miles | Degree of protection | IP54 | IP54 | IP54 | IP54 | IP54 | IP54 |
| Typology encoder Digital SENSORED Digita | Open time 90° | (with boom up to 3 m) From 3 to 6 s | From 3 to 6 s | From 3 to 6 s | From 9 to 29 s | From 2 to 4 s | From 1 to 3 s |
| Onboard control unit CTRL CTRL CTRL CTRL CTRL CTRL CTRL CTRL/P About 12000 2500 8000 12000 24 hours non-stop) Packaged product weight 47 kg 74 kg 105 kg 72 kg 87,6 kg Dimensions 287 x 310 x 1.203 (Lx Px H) Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Number of packages Number of packages | Encoder | Absolute digital encoder | Absolute digital encoder | Absolute digital encoder | Absolute digital encoder | Absolute digital encoder | Absolute digital encoder |
| Daily operation cycles (open / close - 24 hours non-stop) Packaged product weight 47 kg 74 kg 105 kg 72 kg 87,6 kg Dimensions 287 x 310 x 1.203 (Lx P x H) (Lx P x H) (Lx P x H) (Lx P x H) Release Handle with a twin-acting elliptical lever and key with a STANDARD cylinder Release of packages Dimensions 25000 2500 8000 12000 | Typology encoder | Digital SENSORED | Digital SENSORED | Digital SENSORED | Digital SENSORED | Digital SENSORED | Digital SENSORED |
| (open / close - 24 hours non-stop) Packaged product weight 47 kg 74 kg 105 kg 72 kg 87,6 kg Dimensions 287 x 310 x 1.203 (Lx P x H) (Lx P x H) (Lx P x H) (Lx P x H) Release Handle with a twin-acting elliptical lever and key with a STANDARD cylinder Release of packages Source 2500 8000 12000 12000 8000 12000 87,6 kg 72 kg 87,6 kg 87,6 kg 800 270 x 1237 (Lx P x H) (Lx P x H) 8000 12000 8000 Release of reduction gear on bearings, with European cylinder key 87,6 kg 87,6 kg 880 x 270 x 1237 (Lx P x H) (Lx P x H) 880 x 270 x 1237 (Lx P x H) 880 x 270 | Onboard control unit | CTRL | CTRL | CTRL | CTRL | CTRL/P | CTRL/P |
| Dimensions 287 x 310 x 1.203 (Lx P x H) Release Release of reduction gear on bearings, with European cylinder key Release Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key Release of reduction gear on bearings, with European cylinder key | (open / close - | 5000 | 5000 | 5000 | 2500 | 8000 | 12000 |
| Company of packages | Packaged product weight | 47 kg | 74 kg | 74 kg | 105 kg | 72 kg | 87,6 kg |
| Release twin-acting elliptical lever and key with a STANDARD cylinder two forms are narkenses. Kelease of reduction gear on bearings, with European cylinder key to bear to b | Dimensions | | | | | | |
| Number of packages | Release | twin-acting elliptical lever and key with a | gear on bearings, with |
| Per pallet 6 6 6 | | 8 | 6 | 6 | 4 | 6 | 6 |



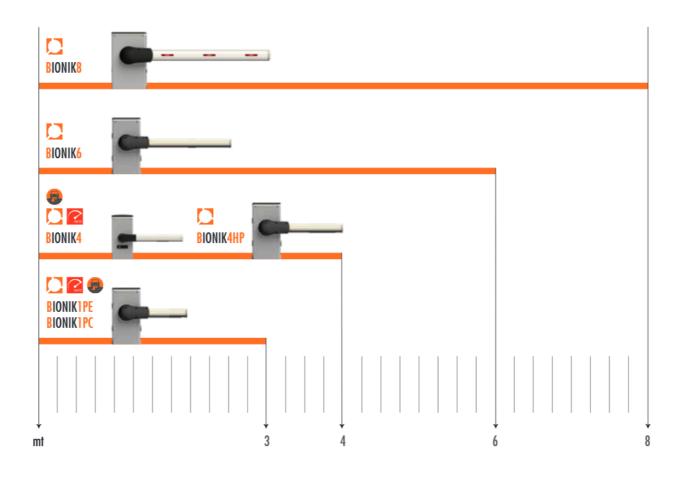
FUNCTIONS

of the BIONIK barriers

| DESCRIPTION | BI/004 - BI/004/115 | BI/004HP - BI/004HP/115 |
|---|---|---|
| Boom lenght | up to 4 m | up to 4 m |
| Onboard digital controller | CTRL | CTRL |
| Radio receiver type | H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection | H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection |
| Motor power supply | 36V DC | 36V DC |
| Motor management technology (ETC) | SENSORED technology | SENSORED technology |
| Encoder type | Magnetic Digital SENSORED, 4096 pulses per revolution | Magnetic Digital SENSORED, 4096 pulses per revolution |
| Mains power supply | 230V 50/60 Hz | 230V 50/60 Hz |
| Battery operation | (optional) 2 internal batteries 12V DC 4,5 Amp/h | (optional) 2 internal batteries 12V DC 4,5 Amp/h |
| Energy consumption | Very low consumption | Very low consumption |
| Number of motors | 1 | 1 |
| Power supply for accessories | 24V DC | 24V DC |
| Flashing light barrier type (included) | 24V DC LED | 24V DC LED |
| Flashing light boom type | 24V DC LED - Strip led, lenght 4 m | 24V DC LED - Strip led, lenght 8 m |
| Output for barrier opening indicator and automation system on warning light | $\sqrt{}$ | √ |
| Output for courtesy light | 40W | 40W |
| Timed and guaranteed automatic closing | $\sqrt{}$ | √ |
| Gate edge safety management, 8.2KΩ or standard | $\sqrt{}$ | $\sqrt{}$ |
| Limit switch type | Adjustable open and closed position Mechanical travel limits | Adjustable open and closed position Mechanical travel limits |
| Force adjustment in nominal movement | $\sqrt{}$ | $\sqrt{}$ |
| Force adjustment in start-up and deceleration | $\sqrt{}$ | √ |
| Obstacle detection (also in position recovery mode) - Motor reversal | $\sqrt{}$ | $\sqrt{}$ |
| Opening and closing speed setting | $\sqrt{}$ | √ |
| Deceleration during opening and closing | $\sqrt{}$ | $\sqrt{}$ |
| Opening and closing approach distance setting | $\sqrt{}$ | √ |
| Starting acceleration (soft-start) for opening and closing manoeuvres | $\sqrt{}$ | $\sqrt{}$ |
| Safeguarded closure/opening function | $\sqrt{}$ | √ |
| Stopping space and motor braking | $\sqrt{}$ | \checkmark |
| Partial opening control MASTER / SLAVE mode | $\sqrt{}$ | √ |
| Human presence control | $\sqrt{}$ | $\sqrt{}$ |
| Condominium function | $\sqrt{}$ | √ |
| Safety device configuration | $\sqrt{}$ | $\sqrt{}$ |
| Installation test function | (prog button) | (prog button) |
| Operating temperature | -20°C/+55°C | -20°C/+55°C |
| Inverter thermal protection | $\sqrt{}$ | √ |
| Magnetic electro-lock management | (optional) √ | (optional) √ |
| Detector loop management | (optional) √ | (optional) √ |
| Clock function (included) | $\sqrt{}$ | $\sqrt{}$ |
| Parking access mode function (included) | $\sqrt{}$ | √ |
| External status type output setting | (optional) √ | (optional) √ |
| Restore factory default values | $\sqrt{}$ | $\sqrt{}$ |
| Information on use of motor | $\sqrt{}$ | $\sqrt{}$ |
| Security password management | √ | $\sqrt{}$ |
| Enabling of anti-breaking through system | $\sqrt{}$ | $\sqrt{}$ |
| | | |

| BI/006 - BI/006/115 | BI/008 - BI/008/115 | BI/001PE 🕞 | BI/001PC - BI/001PC/115 |
|---|---|---|---|
| up to 6 m | up to 8,2 m | up to 3 m | up to 3 m |
| CTRL | CTRL (since firmware version r3.50) | CTRL/P | CTRL/P |
| H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection | H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection | H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection | H93/RX22A/I with fixed code connection H93/RX2RC/I with rolling code connection |
| 36V DC | 36V DC | 36V DC | 36V DC |
| SENSORED technology | SENSORED technology | SENSORED technology | SENSORED technology |
| Magnetic Digital SENSORED, 4096 pulses per revolution |
| 230V 50/60 Hz | 230V 50/60 Hz | 230V 50/60 Hz | 230V 50/60 Hz |
| (optional) 2 internal batteries 12V DC 4,5 Amp/h |
| Very low consumption | Very low consumption | Very low consumption | Very low consumption |
| 1 | 1 | 1 | 1 |
| 24V DC | 24V DC | 24V DC | 24V DC |
| 24V DC LED | 24V DC LED | 24V DC LED | 24V DC LED |
| 24V DC LED - Strip led, lenght 12 m | 24V DC LED - Strip led, lenght 8 m | 24V DC LED - Strip led, lenght 6 m | / |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| 40W | 40W | 40W | 40W |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| Adjustable open and closed position Mechanical travel limits |
| $\sqrt{}$ | $\sqrt{}$ | √ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | √ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | / | / |
| $\sqrt{}$ | $\sqrt{}$ | √ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | $\sqrt{}$ | √ | $\sqrt{}$ |
| (prog button) | (prog button) | (prog button) | (prog button) |
| -20°C/+55°C | -20°C/+55°C | -20°C/+55°C | -20°C/+55°C |
| $\sqrt{}$ | $\sqrt{}$ | √ | $\sqrt{}$ |
| (optional) √ | (optional) √ | (optional) √ | (optional) √ |
| (optional) √ | (optional) √ | (optional) √ | (optional) √ |
| √ | 1 | 1 | 1 |
| $\sqrt{}$ | $\sqrt{}$ | √ | 1 |
| (optional) √ | (optional) √ | (optional) √ | (optional) √ |
| $\sqrt{}$ | √ | √ | √ |
| $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ |
| $\sqrt{}$ | √ | √ | √ |
| | | $\sqrt{}$ | $\sqrt{}$ |
| | | | |

OVERVIEW OF THE BARRIERS



| | RESIDENTIAL | COMMERCIAL | INDUSTRIAL | PARKING |
|-----------------|--------------|------------|------------|-------------|
| BI/004 | (iii) | • | | B |
| BI/004/115 | (iii) | | | _ |
| BI/004HP | <u> </u> | (i) | | |
| BI/004HP/115 | (iii) | | | |
| BI/004HP/IS | <u> </u> | | | |
| BI/004HP/IS/115 | <u> </u> | | | |
| BI/006 | <u> </u> | | | |
| BI/006/115 | <u> </u> | | | |
| BI/006/IS | <u> </u> | (i) | | |
| BI/006/IS/115 | <u> </u> | (i) | | |
| BI/001PE | | | | |
| BI/001PC | | | | B |
| BI/001PC/115 | | | | 8 |
| BIONIK8 | | • | | |



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