

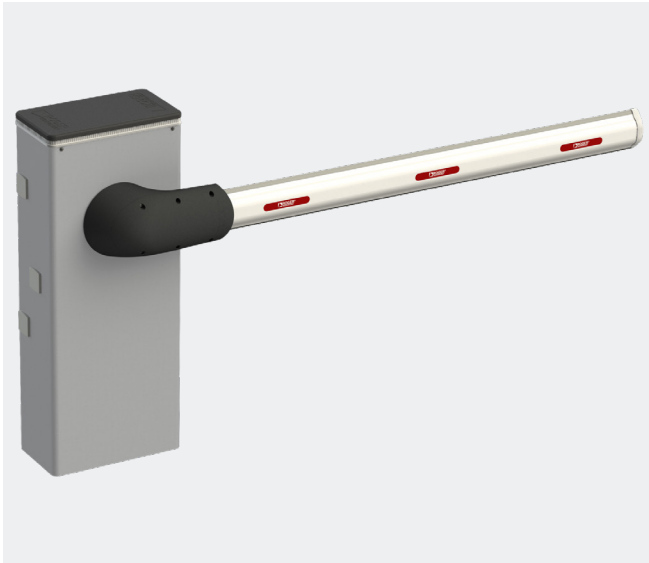
PRODUCT TECHNICAL DATASHEET

# BIONIK



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## BIONIK

The Bionik range are powerful automatic barrier arms that are ideal for various applications. Capable of operating an arm of up to 8m, 100% duty cycle. It has a compact 36v brushless motor that delivers the smoothest torque application in the market, prolonging the life of the gearing, beam and other mechanical parts. Being low voltage, the operator is inherently safer than high voltage operators and has the additional benefit that there are multiple power options.



Brushless



Intensive Use



Eco-Friendly



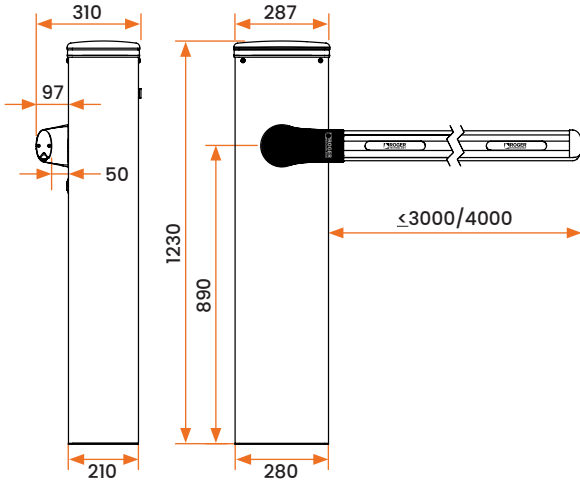
Digital Encoder

	BIONIK-4	BIONIK-4HP	BIONIK-6	BIONIK-8
<b>Boom</b>	up to 4m	up to 4m	up to 6m	up to 8m
<b>Line Power Supply</b>	230V AC	230V AC	230V AC	230V AC
<b>Motor Power Supply</b>	36V AC	36V AC	36V AC	36V AC
<b>Battery Operation</b>	(optional) 2 internal batteries 12V DC 4.5 Ah			
<b>Limit Switch Type</b>	Adjustable open and closed position Mechanical travel limits			
<b>Max Power</b>	220W	220W	220W	300W
<b>Frequency Of Use</b>	100% Duty	100% Duty	100% Duty	100% Duty
<b>Operating Temperature</b>	-20+55°C	-20+55°C	-20+55°C	-20+55°C
<b>Degree Of Protection</b>	IP54	IP54	IP54	IP54
<b>Opening Time at 90°</b>	From 1.5 to 6s (with boom up to 3 m) From 3 to 6 s (with boom up to 4 m)	From 3 to 6s	From 4 to 8s	From 9 to 29s
<b>Encoder</b>	Digital Encoder	Digital Encoder	Digital Encoder	Digital Encoder
<b>Typology Encoder</b>	Digital SENSORED	Digital SENSORED	Digital SENSORED	Digital SENSORED
<b>Onboard Control Unit</b>	CTRL	CTRL	CTRL	CTRL
<b>Release</b>	Handle with a twin-acting elliptical lever and key with a STANDARD cylinder	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

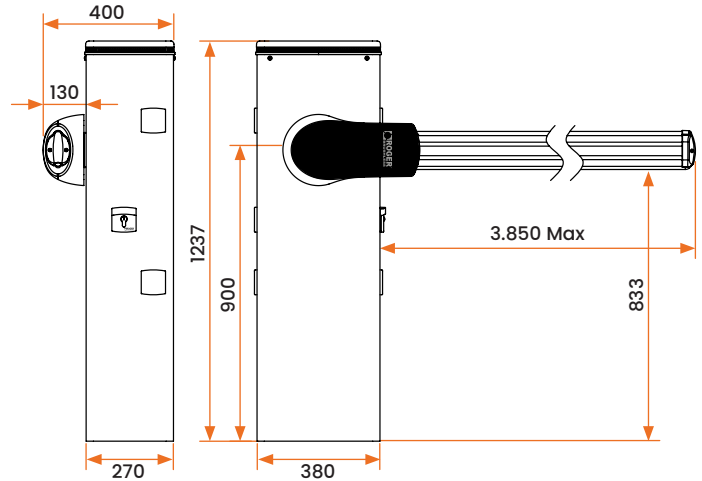


## Dimensions

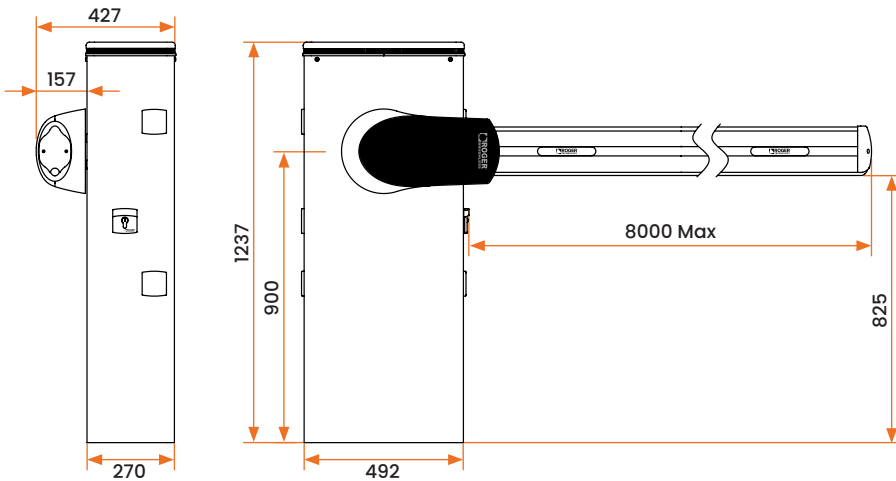
### Bionik 4



### Bionik 4HP / Bionik 6

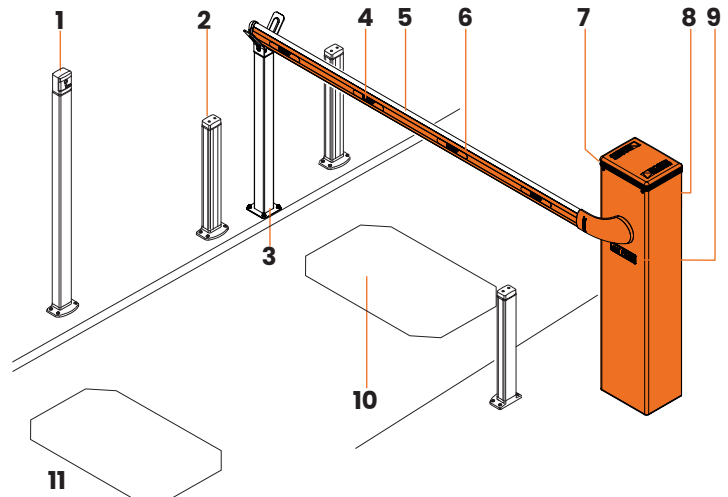


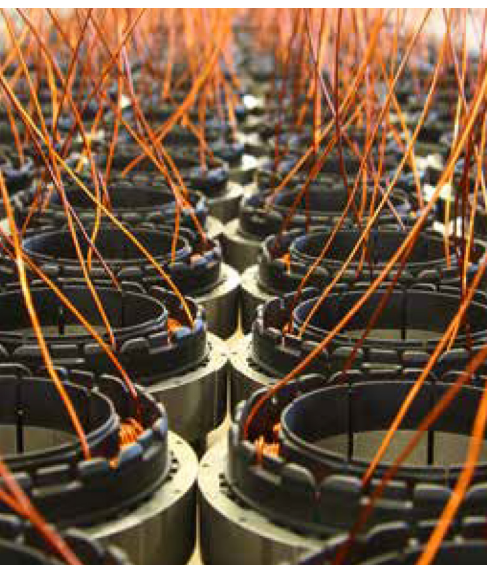
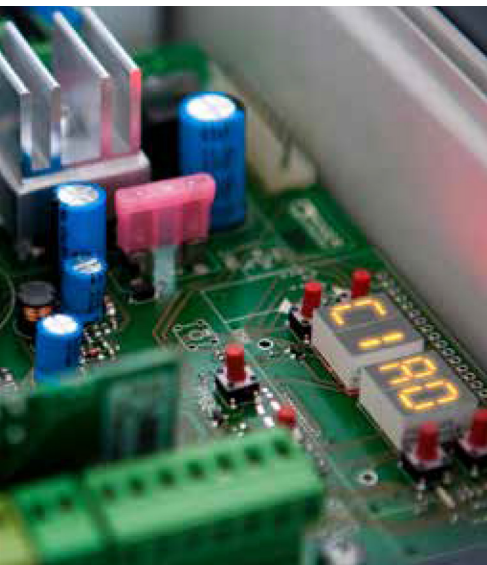
### Bionik 8



## Typical Barrier Set Up

- |                       |                   |
|-----------------------|-------------------|
| 1. Keypad             | 9. Manual Release |
| 2. Safety Beam        | 10. Safety Loop   |
| 3. Boom Arm Support   | 11. Exit Loop     |
| 4. Reflective Sticker |                   |
| 5. LED Strip          |                   |
| 6. Barrier Arm        |                   |
| 7. LED Light          |                   |
| 8. Barrier Operator   |                   |





◆ **Digital 36V Brushless Motor**

Innovative revolutionary 36v brushless digital motor with permanent magnetic field and a sensed digital 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.

◆ **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.

◆ **Mechanical Positioner**

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 signalization LED on the upper side. Can be configured via the control unit.

◆ **Innovative Release**

Mechanical manual release with a cylinder lock, able to unlock the barrier 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 for the sturdy and safe mechanical movement of the boom.

◆ **Sustainability**

Roger Technology is a green customer-centric company dedicated to creating sustainable products through environmentally responsible production processes, innovative technologies, and a culture that prioritizes the health, safety, and development of its workers and customers.