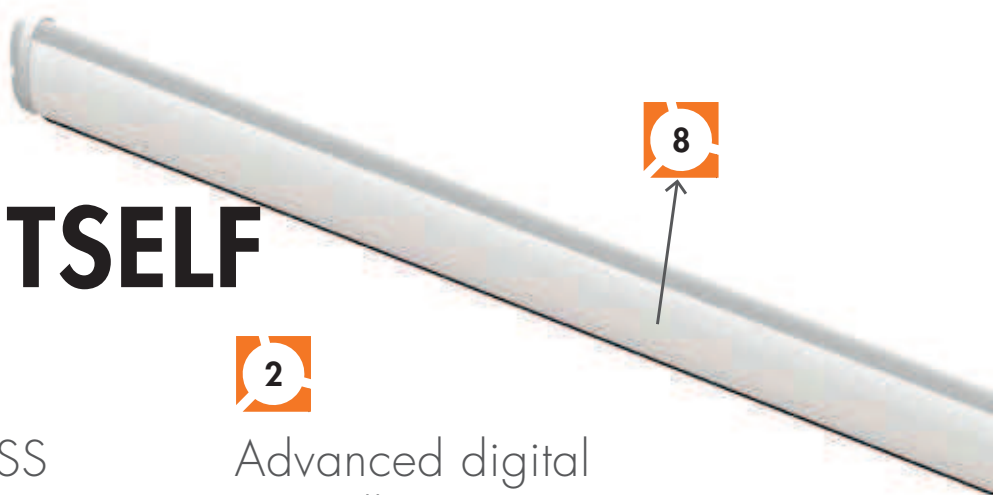




BIONIK

The BRUSHLESS
automated barrier
with digital thinking

BIONIK, EQUAL ONLY TO ITSELF



1

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.

2

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.

3

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.

4

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

Robust and elegant, for the access 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 error alert LED on the upper side. Can be configured via the control unit.



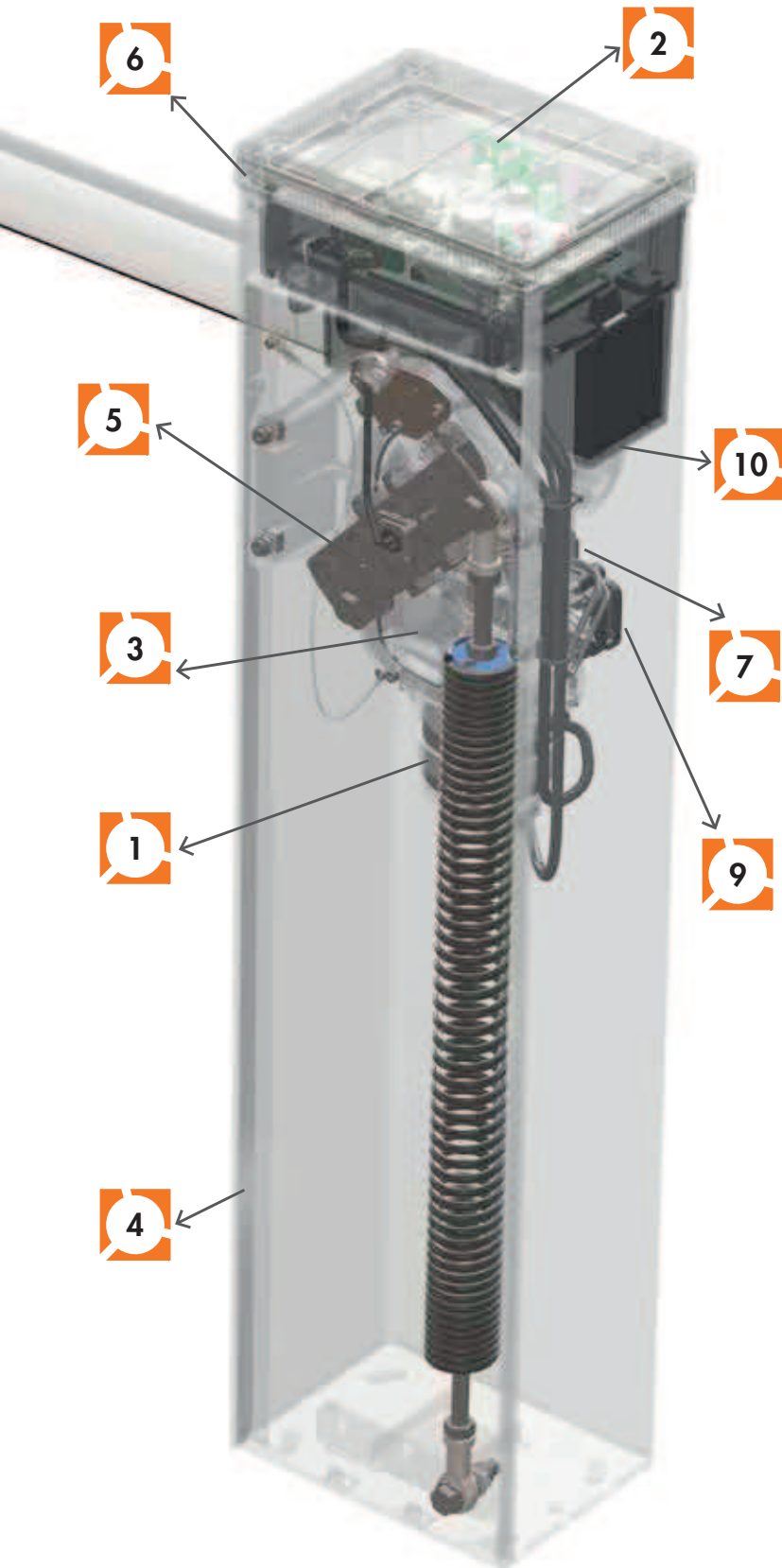
Robust, innovative release

Mechanical manual release with 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 mechanical boom movement.

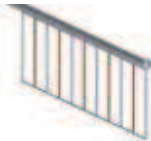








ACCESSORIES

BIONIK BARRIER

OPTIONAL ACCESSORIES

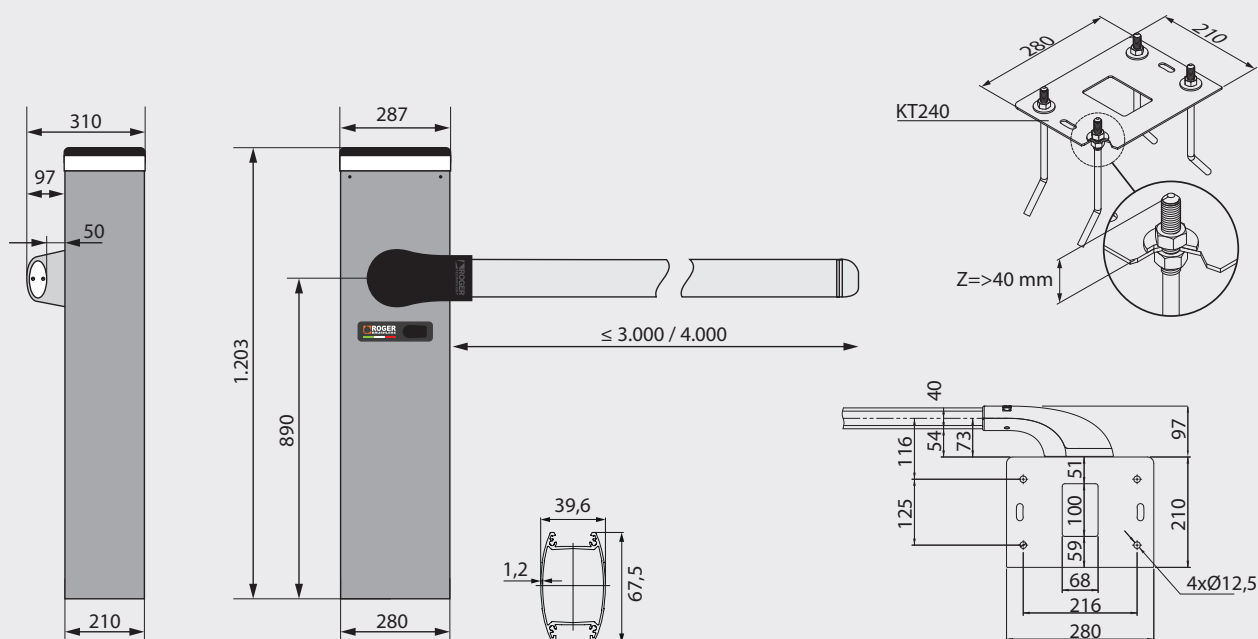
	BI/BA3/01	Elliptical boom up to 3 m, in white painted aluminium with slot cover profiles and shock-resistant rubber and terminal cap		AG/BAFS/03
	BI/BA4/01	Elliptical boom up to 4 m, in white painted aluminium with slot cover profiles and shock-resistant rubber and terminal cap		AG/BAFS/02
	AG/SP48/01	Spring Ø48 for barrier (green colour)		AG/BAFS/04
	AG/SP61/01	Spring Ø61 for barrier (blue colour)		AG/BAFS/05
	AG/SP72/01	Spring Ø72 for barrier (red colour)		AG/BAMS/01
	BI/ALED4C	Luminous led cord of 4 meters for bar up to 4 meters with connection cable		BI/BAJ/02
	AG/BAFS/01	Fixed end rest, non-adjustable, with rubber buffer		BI/BAJ/03

Fixed end rest with rubber, non-adjustable, with holes for a latch chain and rubber bufer		AG/BARK/02	Painted aluminium rack for bar L=2 m lenght
Fixed end rest with rubber, adjustable, telescopic with rubber bufer		DLD1/24	Loop detector for 1 loop, 2 output, 24V AC/DC
Fixed end rest with rubber, adjustable, telescopic with holes for a latch chain and rubber bufer		DLD2/24	Loop detector for 2 loop, 2 output + output alarm, 24V AC/DC
Fixed end rest with rubber, adjustable, telescopic with rubber bufer and integrated magnet 250 kg		BI/BAT/KIT	Emergency battery kit complete with battery charger, wiring and 2 recovery batteries 4,5 Ah
Hinged end rest for booms		AG/EXP	Signal status board, 2 output
Joint with 90° pivot point with lower tie-od		KT239	DIN bar kit with magnetic supports
Joint with 90° pivot point with upper tie-od		AG/BASB40	Package of 40 refractie adhesive strips for the boom

Technical SPECIFICATIONS

	BI/004
Code Description	BRUSHLESS 36V DC Barrier
Asta	up to 4 m
Line power supply	230V AC - 115V AC 50/60Hz +10%
Brushless motor power supply	36V
Max power	220W
Frequency of use	Continuous
Operating temperature	-20 +55°C
Degree of protection	IP54
Open time 90° (with boom up to 3 m)	From 2 to 6 s
Open time 90° (with boom up to 4 m)	From 3 to 6 s
Encoder	Absolute digital encoder
Typology encoder	Digital SENSORED
Onboard control unit	AG/CTRL (since firmware version r3.25)
Daily operation cycles (open / close - 24 hours non-stop)	5000
Packaged product weight	47 kg
Dimensions	287 x 310 x 1.203 (L x P x H)
Release	Handle with a twin-acting elliptical lever and key with a STANDARD cylinder
Number of packages per pallet	8

DIMENSIONS



FUNCTIONS

of the BIONIK barrier

DESCRIPTION	BI/004
Onboard digital controller	AG/CTRL (since firmware version r3.25)
Radio receiver type	H93/RX22A/1 with fixed code connection H93/RX2RC/1 with rolling code connection
Motor power supply	36V DC
Motor management technology (ETC)	SENSORED technology
Encoder type	Magnetic Digital SENSORED, 4096 pulses per revolution
Mains power supply	230V 50/60 Hz
Battery operation	(optional) 2 internal batteries 12V DC 4,5 A/h
Energy consumption	Very low consumption
Number of motors	1
Power supply for accessories	24V DC
Flashing light barrier type (included)	24V DC LED
Flashing light boom type	24V DC LED - Strip led, lenght 4 m
Output for barrier opening indicator and automation System on warning light	✓
Output for courtesy light	40W
Timed and guaranteed automatic closing	✓
Gate edge safety management, 8.2KΩ or standard	✓
Limit switch type	Adjustable open and closed position Mechanical travel limits
Force adjustment in nominal movement	✓
Force adjustment in start-up and deceleration	✓
Obstacle detection (also in position recovery mode) - Motor reversal	✓
Opening and closing speed setting	✓
Deceleration during opening and closing	✓
Opening and closing approach distance setting	✓
Starting acceleration (soft-start) for opening And closing manoeuvres	✓
Safeguarded closure/opening function	✓
Stopping space and motor braking	✓
Partial opening control MASTER / SLAVE mode	✓
Human presence control	✓
Condominium function	✓
Safety device configuration	✓
Installation test function	(prog button)
Operating temperature	-20°C/+55°C
Inverter thermal protection	✓
Magnetic electro-lock management	(optional) ✓
Detector loop management	(optional) ✓
Clock function (included)	✓
Parking access mode function (included)	✓
External status type output setting	(optional) ✓
Restore factory default values	✓
Information on use of motor	✓
Security password management	✓



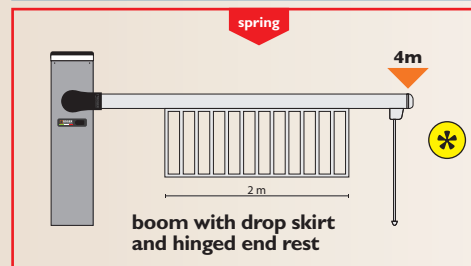
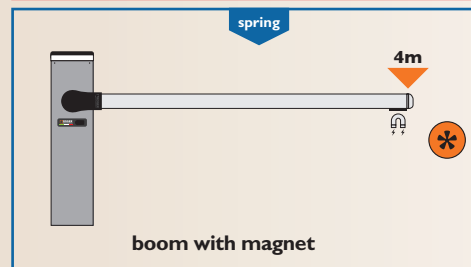
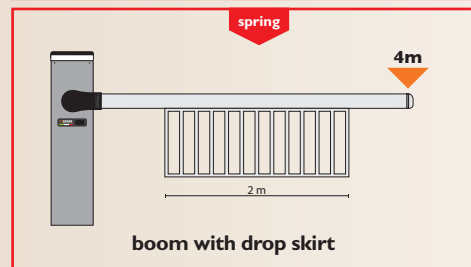
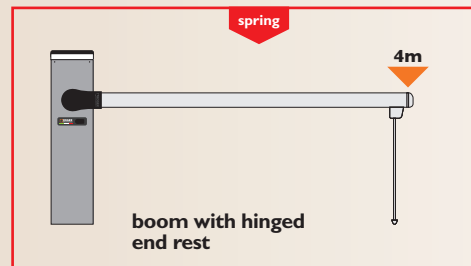
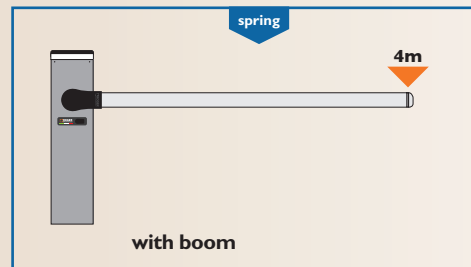
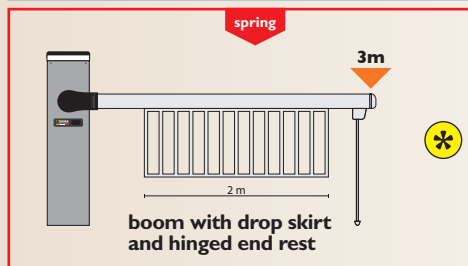
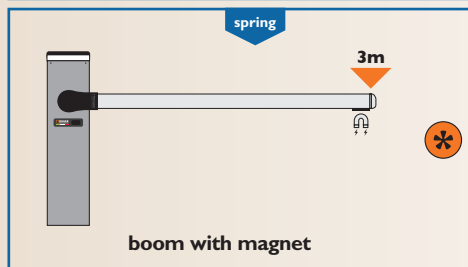
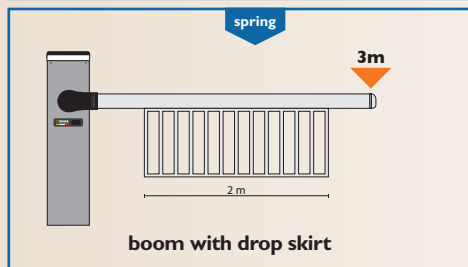
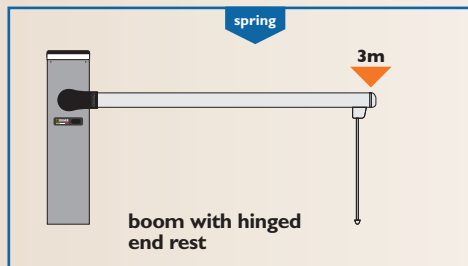
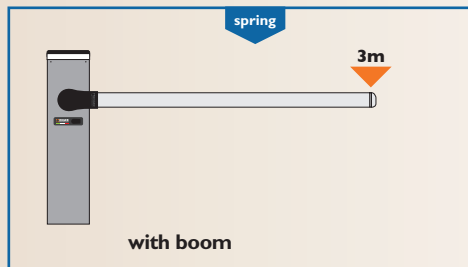
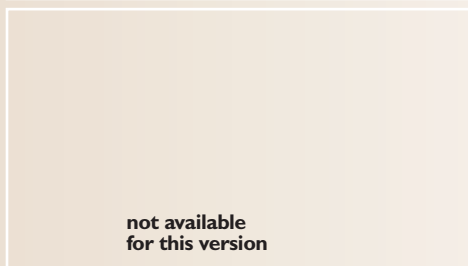
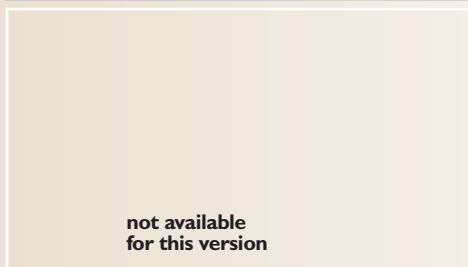
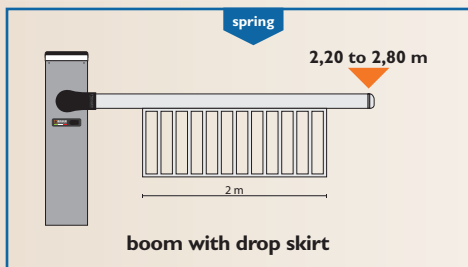
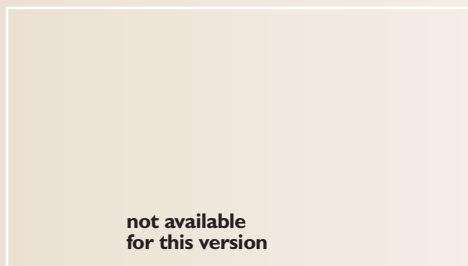
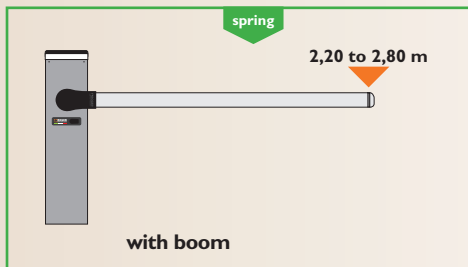
Bionik CONFIGURATIONS

Parking version boom

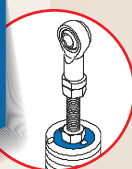
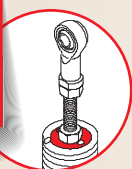
from 2,20 to 2,80 m

boom up to 3m

boom up to 4m



choice of spring



Parking version boom
from 2,20 to 2,80 m

boom up to 3m

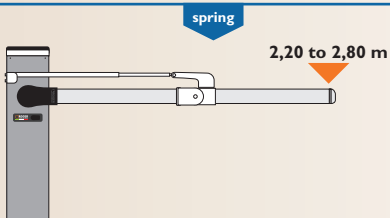
boom up to 4m

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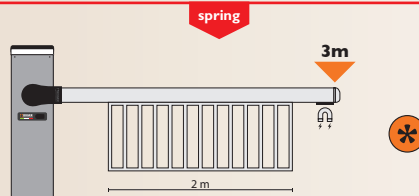
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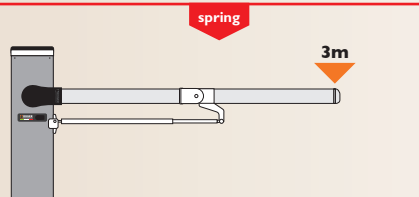
boom with upper pivot point

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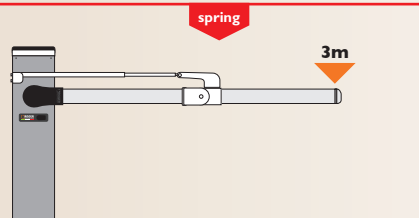


drop skirt with magnet

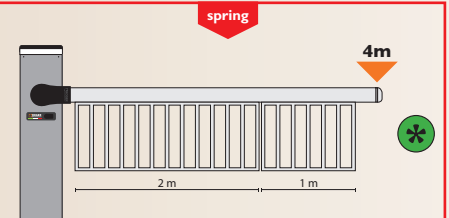
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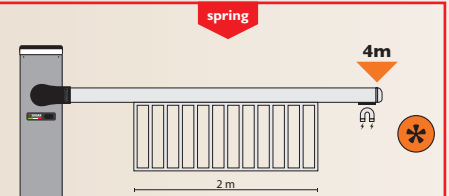
boom with lower pivot point



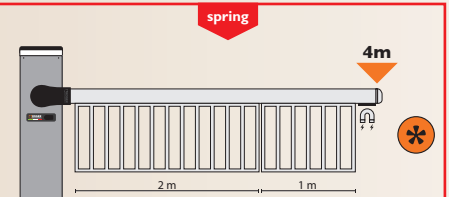
boom with upper pivot point



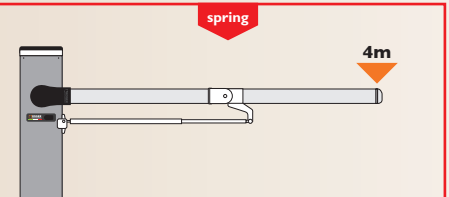
boom with twin drop skirt



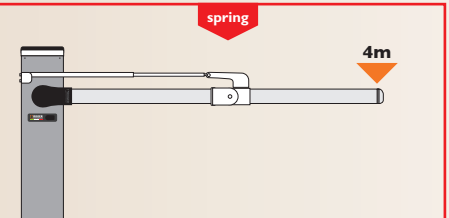
drop skirt with magnet



boom with twin drop skirt
and magnet



boom with lower pivot point



boom with upper pivot point

i all the booms are
complete with
protective rubber
and strip LED
already put in

***** The adjustable fixed
end rest with integrated
magnet AG/BAFS/05
must be used

***** With compulsory
fixed end rest

***** Configuration only
possible if the drop skirt
is installed as close
as possible to the cabinet



WWW.WEAREBRUSHLESS.COM



PREMIUM DEALER / AUTHORISED DEALER



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