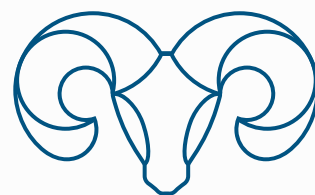


# DBK

Automatic barrier



**ALPHATRONICS**

innovators in access technology

# DBK-BARRIER

## DURABLE, RELIABLE, AND QUALITATIVE!

The DBK barrier is a universal barrier for intensive use, suitable for deployment in all possible sectors. The barrier is suitable for passages ranging from 2,5 meters to 5 meters wide. The installation of this barrier increases efficiency for vehicle entry and exit and ensures optimal safety.

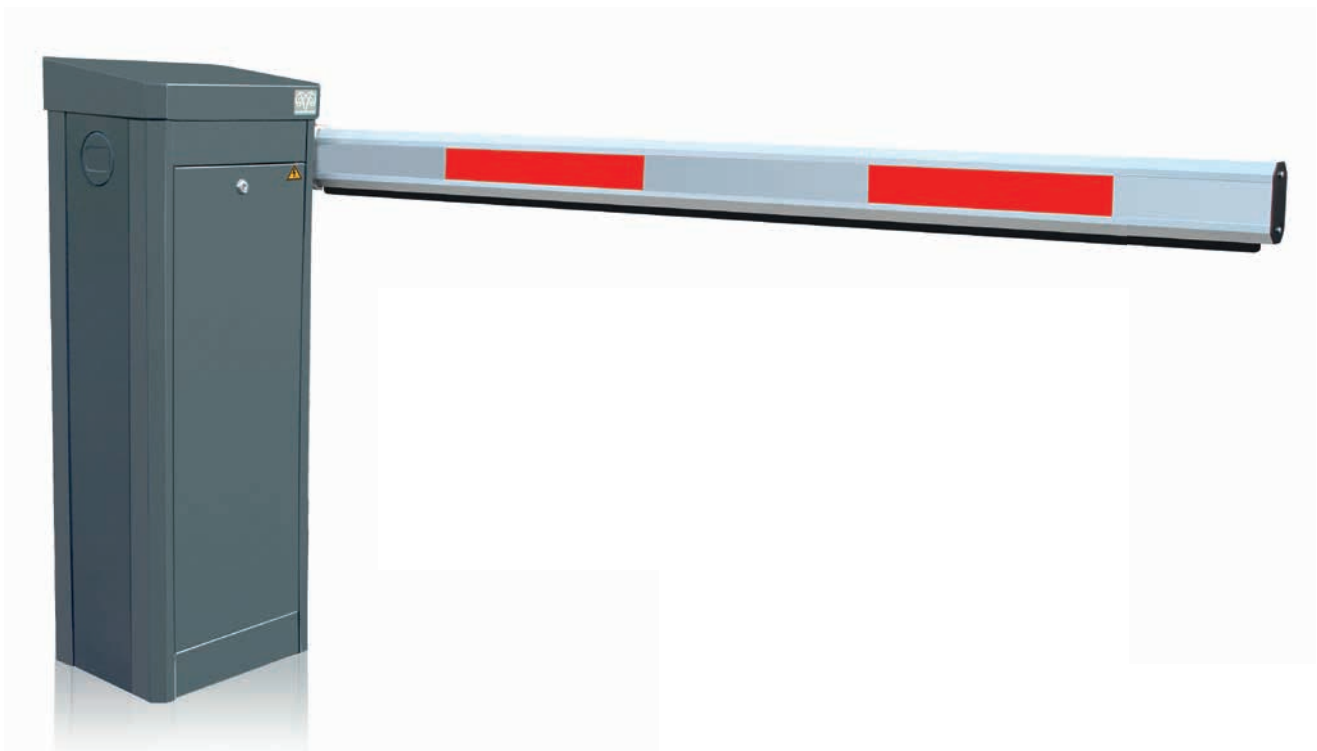
With advanced electronic speed control and perfectly tuned mechanics, the DBK barrier offers maximum operational reliability and efficient performance.

Additionally, the DBK barrier can be monitored online via the Aliot Cloud platform. Performance data is collected here, and potential issues are identified early. Thanks to AI-based maintenance, unplanned downtime is minimized, ensuring your operations run smoothly.

For seamless integration with your systems, you can opt for extensions with REST API and/or cloud connection via ALIOT. These functionalities ensure that the DBK barrier fits perfectly with your existing infrastructure.

### SOME ADVANTAGES

- **Durable and stylish:** made of high-quality aluminum with an IP54 rating and finished in RAL7016 (anthracite) for a timeless appearance.
- **Quiet:** quiet and precise movements thanks to the dynamic speed profile, adjustable to preferences (fast, standard, slow).
- **Safe:** the aluminum barrier boom comes with a pre-installed rubber strip for added safety and protection.

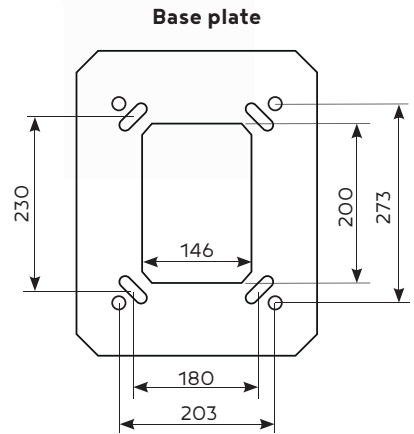
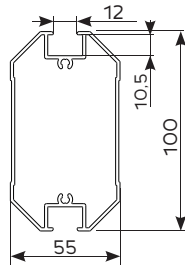
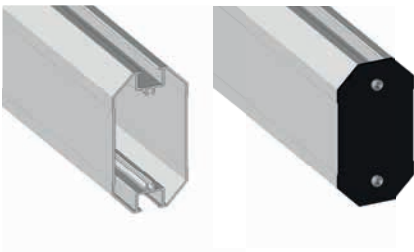
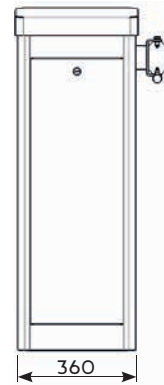
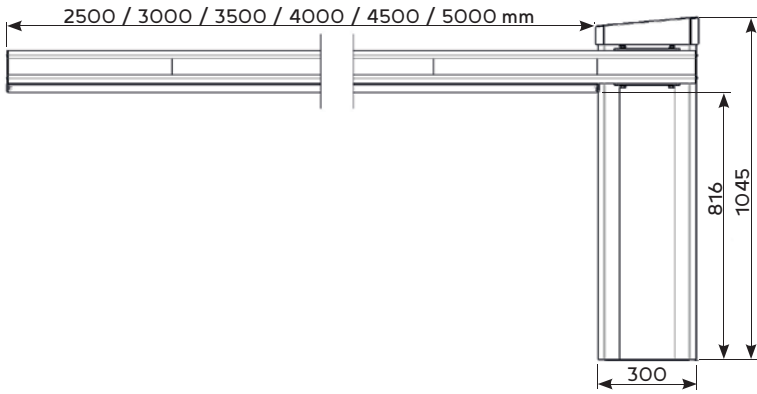


## ZOOMING IN ON TECHNOLOGY

- **Roof:** easily removable without tools.
- **Robust mechanism:** mechanics for intensive use up to 100% duty cycle, parts made of galvanized steel.
- **24Vdc brushless motor/gearbox:** flat gearbox, multi-stage, with energy-saving, wear-resistant, brushless DC motor.
- **Maximum accuracy:** precise movement of the barrier boom through electronic rotation speed control - fast, quiet, and smooth.
- **Controller:** with three integrated 1-channel loop sensors, featuring pre-wired terminal rows, a bus for TCP/IP or RS485 module, and remote control, 4 x 7-segment display, and 6 freely programmable multifunctional relays, potential-free max. 24Vdc/1A.
- **Automatic opening:** through an additional module, in case of power failure (optional).
- **DIN rail:** available for mounting additional devices.
- **Spring mounting:** compression springs, designed for balanced barrier arm movements, easily replaceable without tools.
- **Barrier housing:** made of aluminum, IP54 rated, with clamp technology, powder-coated, RAL7016, variable colors available on request, corrosion-proof.
- **Left/right-usable,** octagonal aluminum barrier boom, powder-coated, white (RAL9010), with red reflective signal stripes, rubber strip at the bottom of the barrier - pre-mounted.
- **Obstacle detection:** barrier movement reverses upon obstacle detection.
- **Emergency unlocking:** quick and easy.
- **Vandalism:** motor protection through a slip clutch - **no breaking mechanism** needs to be replaced in case of vandalism.
- **Terminal row:** professional connections of cables and accessories.
- **No risk of pinching:** the controller is equipped with a service switch, allowing testing or technical inspection with the door open.

Technical specifications						
	DBK-025	DBK-030	DBK-035	DBK-040	DBK-045	DBK-050
Dimensions of the housing L x W x H	360 x 300 x 1.045 mm					
Effective length of the barrier arm	2,8 m	3,3 m	3,8 m	4,3 m	4,8 m	5,3 m
Passage width	2,5 m	3,0 m	3,5 m	4,0 m	4,5 m	5,0 m
Dimension of the barrier boom H x W	100 x 55 mm					
Standard color	RAL7016, custom RAL on request					
Barrier boom coupling	Left / right (right standard)					
Weight without barrier boom	55 kg	56 kg	56 kg	57 kg	58 kg	58 kg
Weight of the barrier boom	3,8 kg	4,5 kg	5,0 kg	5,8 kg	7,6 kg	10,0 kg
Opening time (sec.) slow / basic / fast	1,8 / 2,5 / 3,8	1,8 / 2,5 / 3,8	1,8 / 2,5 / 3,8	2,8 / 3,8 / 4,5	3,8 / 4,5 / 5,5	3,8 / 4,5 / 5,5
Duty cycle	100%					
Operating temperature range	-20°C tot +50°C					
IP protection	IP54					
Maximum allowable wind load class	4	3	3	3	4	4
Supply voltage	110V - 240V, 50Hz - 60Hz					
Current consumption	max. 1,4A (230Vac) / max. 2,8A (115Vac)					
Controller	Controller with 4x7 segment display					
Terminal row	Pre-wired					
1-channel loop detector	3 integrated					
Multifunctional relay	6 integrated					
Electronic speed control	Yes					
Obstacle detection	Yes					
Warranty	2 years					

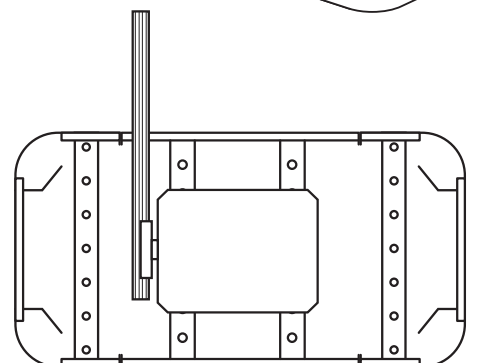
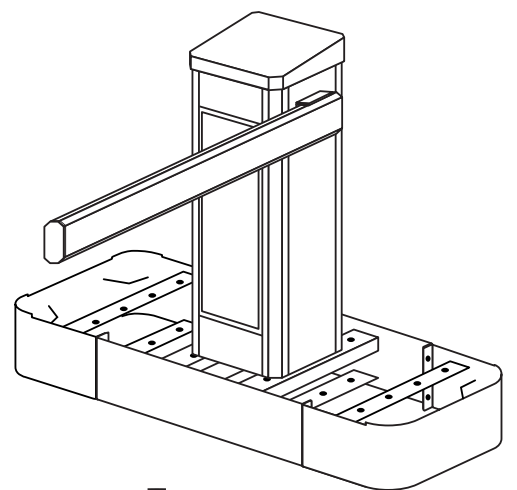
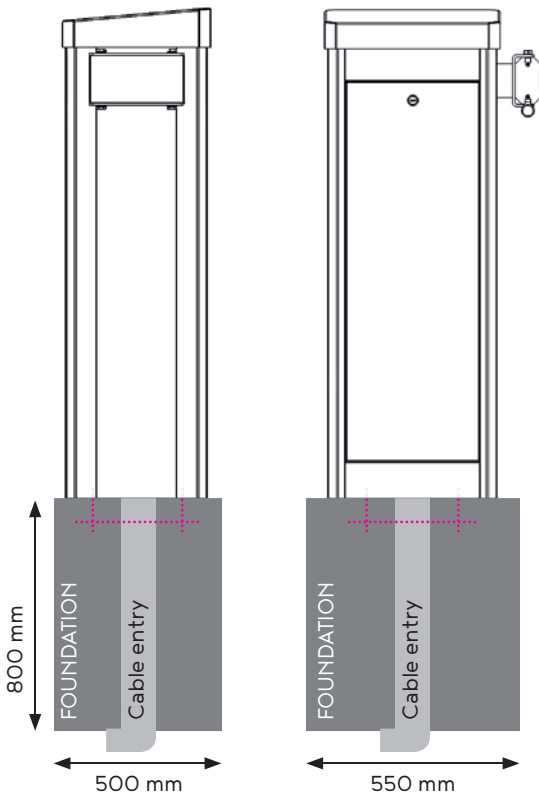
**Dimensions barrier**



**Side view**

**Front view**

**Mounting on a modular socle**



## OPTIONS & ACCESSOIRES

	DBK-025	DBK-030	DBK-035	DBK-040	DBK-045	DBK-050
<b>RGB Ledstrip signalization</b>	YES	YES	YES	YES	YES	YES
<b>Pendulum support*</b> Optional	NO	NO	NO	YES, optional	YES, recommended	YES, optional
<b>Barrier boom support*</b>	YES	YES	YES	YES, optional	YES, optional	YES, optional
<b>Barrier boom support + electromagnet</b>	YES	YES	YES	YES	YES	YES
<b>Click-out system barrier boom</b>	YES	YES	YES	NO	NO	NO
<b>RGB Ledstrip at the top</b>	NO	NO	NO	YES	YES	YES
<b>+ Pendulum support</b>						
<b>Weekly timer / annual timer</b> Optional	YES	YES	YES	YES	YES	YES
<b>Custom colours</b> Optionally available in all RAL-colours (surcharge)	YES	YES	YES	YES	YES	YES
<b>Automatic opening</b> Optional in case of failure	YES	YES	YES	YES	YES	YES
<b>Radio receiver with remote control</b> Optional (connection available)	YES	YES	YES	YES	YES	YES
<b>TCP-IP module</b> Optional (connection available)	YES	YES	YES	YES	YES	YES
<b>Multifunctional relay</b> Optional module with: 4 additional multifunction relays (AMR4) / 8 additional multifunction relays (AMR8)	YES	YES	YES	YES	YES	YES

\*A pendulum support or barrier boom support is optional from 4 metres onwards

Article number	
<b>DBK-025</b>	1-010105-0001-000-716-00
<b>DBK-030</b>	1-010105-0002-000-716-00
<b>DBK-035</b>	1-010105-0003-000-716-00
<b>DBK-040</b>	1-010105-0004-000-716-00
<b>DBK-045</b>	1-010105-0005-000-716-00
<b>DBK-050</b>	1-010105-0006-000-716-00

# OPTION

## BARRIER WITH ARTICULATED BOOM

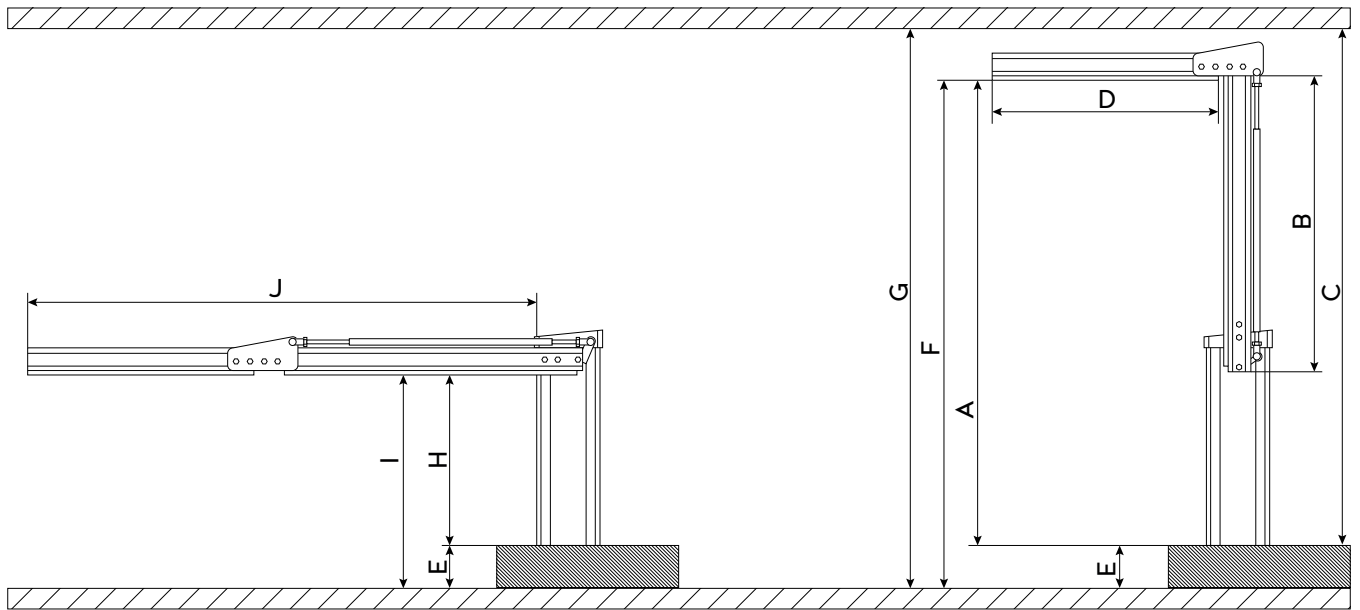
- The folding boom is used with a low ceiling height in combination with a larger effective boom length.
- Safe: the folding arm is equipped with a pre-installed rubber strip for extra safety and protection.
- For use with boom barriers of type DBK-025-040



Article numbers	
<b>DBK articulated boom-025</b>	1-010105-0001-016-716-00
<b>DBK articulated boom-030</b>	1-010105-0002-016-716-00
<b>DBK articulated boom-035</b>	1-010105-0003-016-716-00
<b>DBK articulated boom-040</b>	1-010105-0004-016-716-00
<b>articulated boom-kit</b>	1-010100-0077-000-000-00

Technical specifications				
	DBK-025	DBK-030	DBK-035	DBK-040
<b>Dimensions housing - W x D x H</b>	360 x 300 x 1.045 mm			
<b>Length octagonal barrier boom</b>	2,5 m	3,0 m	3,5 m	4,0 m
<b>Passage width</b>	2,365 m	2,865 m	3,365 m	3,865 m
<b>Barrier boom profile</b>	100 x 25 mm			
<b>Barrier boom color and material</b>	White RAL9010 with red reflective stickers, aluminium			
<b>Barrier boom coupling</b>	Left / right (right standard)			
<b>Weight without boom arm</b>	55 kg	56 kg	56 kg	57 kg
<b>Weight boom arm</b>	3,8 kg	4,5 kg	5,0 kg	5,8 kg
<b>Minimum ceiling height</b>	1885 mm			
<b>Minimum headroom</b>	1700 mm			
<b>Maximum clearance height</b>	2600 mm			
<b>Opening time (sec.) slow / basic / fast</b>	1,8 / 2,5 / 3,8	1,8 / 2,5 / 3,8	1,8 / 2,5 / 3,8	2,8 / 3,8 / 4,5
<b>Duty cycle</b>	100%			
<b>Temperature range</b>	-20°C tot +50°C			
<b>Degree of protection</b>	IP54			
<b>Maximum allowable wind load class</b>	4	3	3	3
<b>Current Voltage (V)</b>	110V - 240V, 50Hz - 60Hz			
<b>Current consumption</b>	max. 1,4A (230Vac) / max. 2,8A (115Vac)			
<b>Controller</b>	Controller with 4x7 segment display			
<b>Terminal row</b>	Pre-wired			
<b>1-channel loop detector</b>	3 integrated			
<b>Multifunctional relay</b>	6 integrated			
<b>Electronic speed control</b>	Yes			
<b>Obstacle detection</b>	Yes			
<b>Warranty</b>	2 years			

## Dimensions



Pull bar	A	B	C	J			
				DBK-025	DBK-030	DBK-035	DBK-040
700 mm + 300 mm + 300 mm(*)	2600 mm	1790 mm	2785 mm	2365 mm	2865 mm	3365 mm	3865 mm
	2550 mm	1740 mm	> 2735 mm				
	2500 mm	1690 mm	> 2685 mm				
	2450 mm	1640 mm	> 2635 mm				
	2400 mm	1590 mm	> 2585 mm				
	2350 mm	1540 mm	> 2535 mm				
700 mm + 300 mm	2300 mm	1490 mm	> 2485 mm	2365 mm	2865 mm	3365 mm	3865 mm
	2250 mm	1440 mm	> 2435 mm				
	2200 mm	1390 mm	> 2385 mm				
	2150 mm	1340 mm	> 2335 mm				
	2100 mm	1290 mm	> 2285 mm				
	2050 mm	1240 mm	> 2235 mm				
700 mm	2000 mm	1190 mm	> 2185 mm	2365 mm	2865 mm	3365 mm	3865 mm
	1950 mm	1140 mm	> 2135 mm				
	1900 mm	1090 mm	> 2085 mm				
	1850 mm	1040 mm	> 2035 mm				
	1800 mm	990 mm	> 1985 mm				
	1750 mm	940 mm	> 1935 mm				
	1700 mm	890 mm	> 1885 mm				

\* Always to be mentioned when ordering (if the ceiling height, C (measured from the base) > 2.5 m)

The table shows values where the height increases per 50 mm. All intermediate values are also possible.

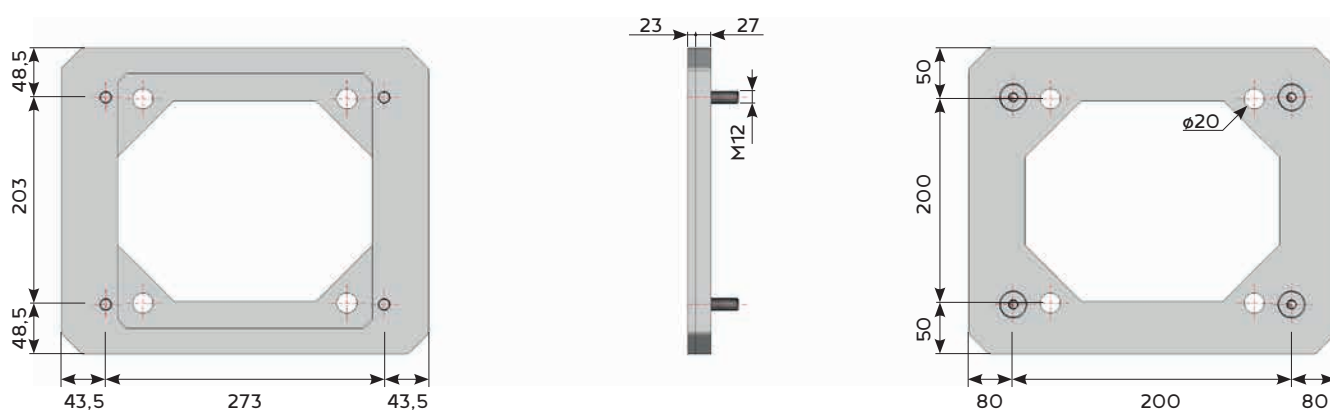
■ A = C - 185 mm (headroom = ceiling height - 185 mm)

■ B is at least 890 mm

# OPTION

## TRANSITION PLINTH

- The transition base is used for installing a DBK barrier, where a SmartOne or Medius barrier was previously planned.
- This intermediate piece is installed so that the DBK barrier can replace the old barrier 1 to 1, by using the same threaded rods.



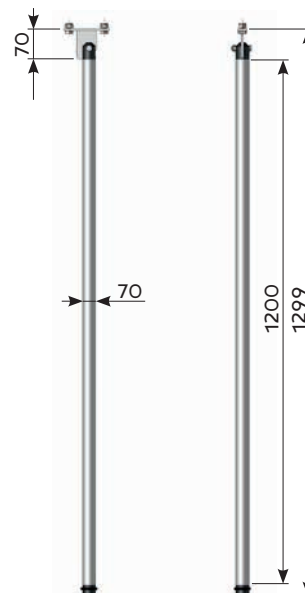
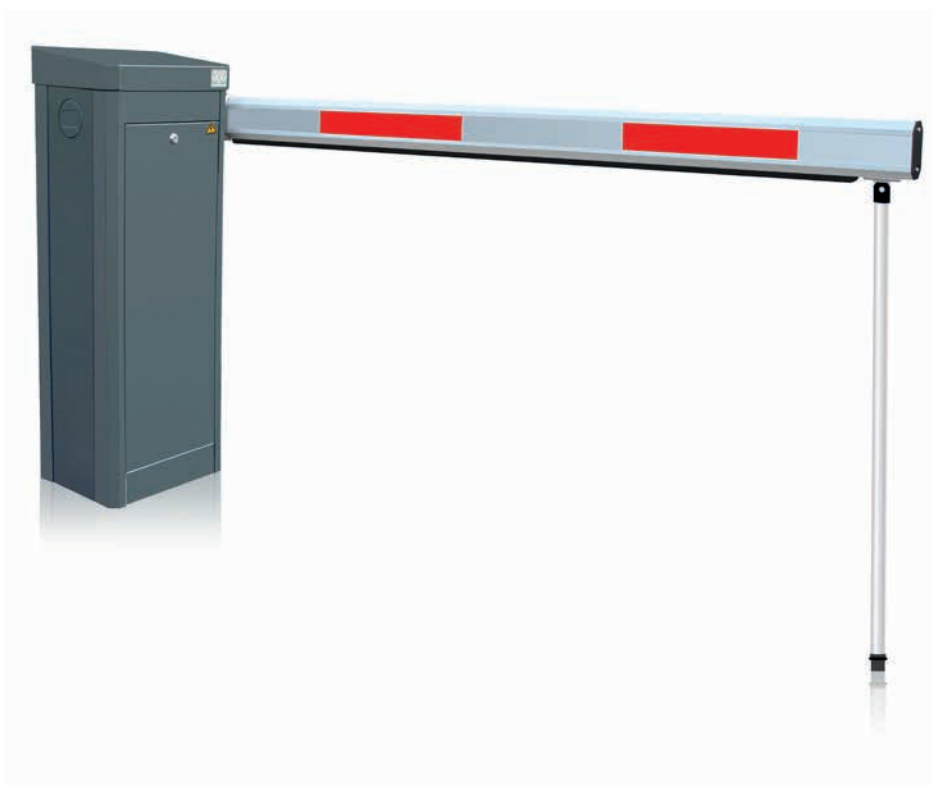
Technical specifications	
Dimensions	360 x 300 x 23 mm
Material	Steel
Post-treatment	Galvanized
Protection rating	IP54
Weight	9,35 kg
Article number	1-010105-0100-000-032-40



# OPTION

## PENDULUM SUPPORT

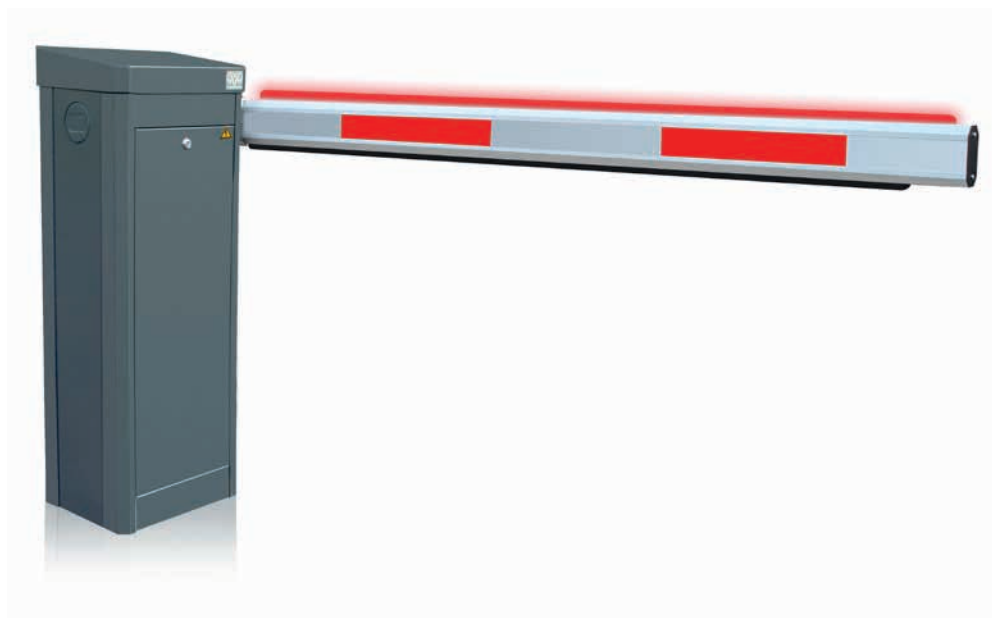
The pendulum support is used to support the long barrier boom. The pendulum support can be shortened based on the slope of the terrain to the desired length. For use with barriers of the DBK-040-050 type.



Specifications Pendulum Support	
Dimensions	1229 x 30 mm
Material	Aluminum
Post-treatment	RAL9010 Textured varnish
Base	Rubber
Mechanism	Hinged
Weight	0,86kg
Article number	1-010100-0076-001-910-00

# OPTION LED LIGHTING

The LED strip is used to make the barrier boom visible in a dark environment. For use with barriers of the DBK-025-050 type. It is plugged into the top of the barrier boom.



Specifications LED Strip			
Material	Silicone		
LED colors	Red, Green, Blue		
Power supply voltage	24V		
Power consumption	200mA/m/Color		
Protection rating	IP65		
Article number	Length 250 cm	0,9kg	1-010100-0033-025-990-00
	Length 300 cm	1,0kg	1-010100-0033-030-990-00
	Length 350 cm	1,1kg	1-010100-0033-035-990-00
	Length 400 cm	1,2kg	1-010100-0033-040-990-00
	Length 450 cm	1,3kg	1-010100-0033-045-990-00
	Length 500 cm	1,4kg	1-010100-0033-050-990-00

## TAILOR-MADE IN BELGIUM

Alphatronics is a **manufacturer** of customised perimeter security solutions with the flexibility to adapt security needs to a specific situation.

In-house development and production, modularly designed to integrate with other business processes. It is in our DNA to **innovate** and in doing so, we always deliver the highest quality.

## SOFTWARE INTEGRATION

We feature a **very accessible RESTfull API**. This enables the integration of Alphatronics-supplied hardware devices and a third-party software solution.

## INSTALLATION AND SERVICE

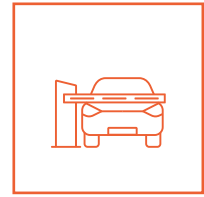
With more than **35 years of experience** in installation and service, we offer the expertise for perfect integration of your entire system.

A maintenance contract guarantees that the system will always be up and running.

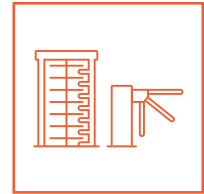
The helpdesk with professional and fast service is always ready for support.

## COUNT ON ALPHATRONICS FOR

- an extensive and innovative product range
- creative and sophisticated solutions
- technical and commercial support
- project strategy
- excellence in system integration



ACCESS FOR  
VEHICLES



ACCESS FOR  
PEDESTRIANS



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& PILLARS



API

