

AS1

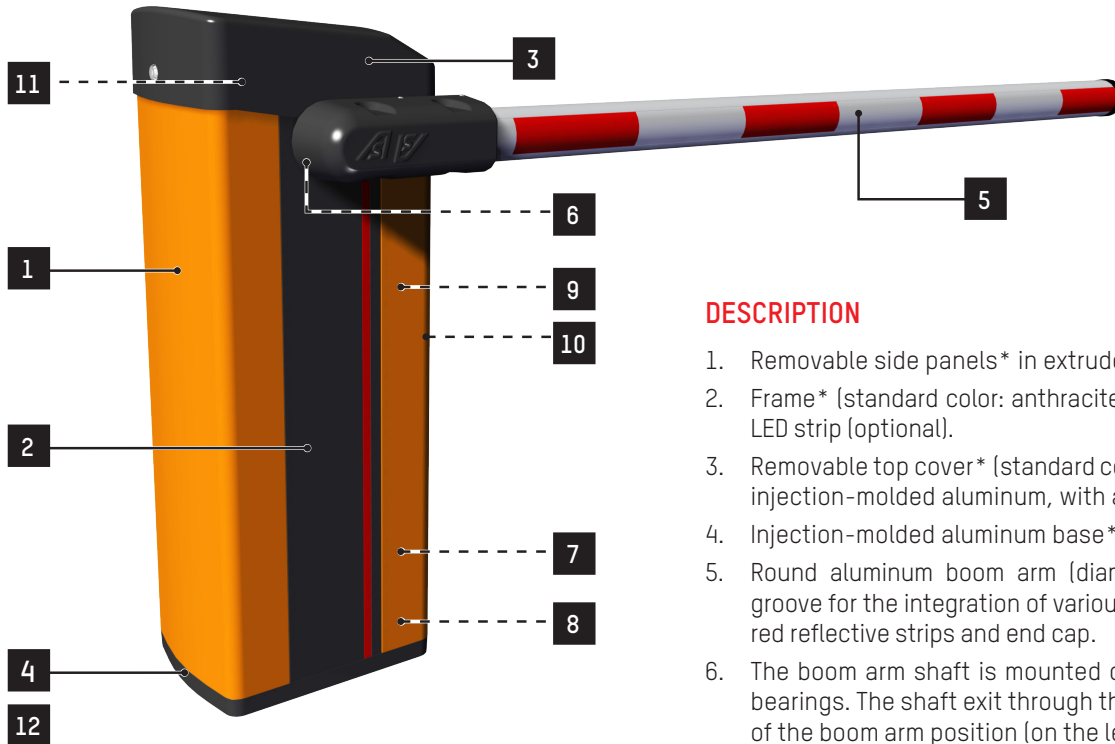
Datasheet

Rev. A • Update 06/2026



AUTOMATIC SYSTEMS

AS1



DESCRIPTION

1. Removable side panels* in extruded aluminium.
2. Frame* (standard color: anthracite grey RAL7016) with full-height LED strip (optional).
3. Removable top cover* (standard color: anthracite grey RAL7016) in injection-molded aluminum, with a key lock.
4. Injection-molded aluminum base*.
5. Round aluminum boom arm (diameter: $3 \frac{5}{16}$ " (83.5 mm)), with groove for the integration of various options, white lacquered with red reflective strips and end cap.
6. The boom arm shaft is mounted on two permanently-lubricated bearings. The shaft exit through the housing allows easy reversal of the boom arm position (on the left or right side of the housing).
7. Internal mechanical parts treated for corrosion resistance.
8. Boom arm balanced by springs.
9. Electromechanical assembly including:
 - Brushless DC motor.
 - Secondary transmission through a crank and connecting rod mechanism, ensuring perfect mechanical locking in both extreme positions.
 - Automatic opening of the boom arm in case of a power failure (optional).
10. Lever for manual unlocking in case of power failure.
11. Programmable control board that supports various control options and/or additional accessories such as Ethernet and USB-C ports.
12. Configurable I/O contacts:
 - To indicate the barrier position status (open or closed)
 - To indicate the status of presence sensors
 - To allow primary-secondary control for two facing barriers working in tandem.

The AS1 lift barrier is a universal barrier, its high performance and high level of operational safety allowing it to cover a wide range of applications: traffic management, parking areas, industrial sites and toll roads.

The AS1 range offers exceptional durability and reliability thanks to its corrosion-resistant aluminium base, light yet robust design, and IP55 protection against dust and water.

The AS1 barrier is versatile and can be customized to meet various requirements. Up to 23" (7 m) in length, with built-in LED lighting options, and a choice of standard or custom (RAL) colors, it can adapt to all applications and integrates perfectly with your environment while enhancing safety.

STANDARD RAL COLORS



Standard colors. The selected color must be specified when ordering.

Note: These RAL references are available free of charge.

* The external casing is entirely made of aluminium, ensuring optimal corrosion resistance in accordance with the requirements of the Qualicoat label.

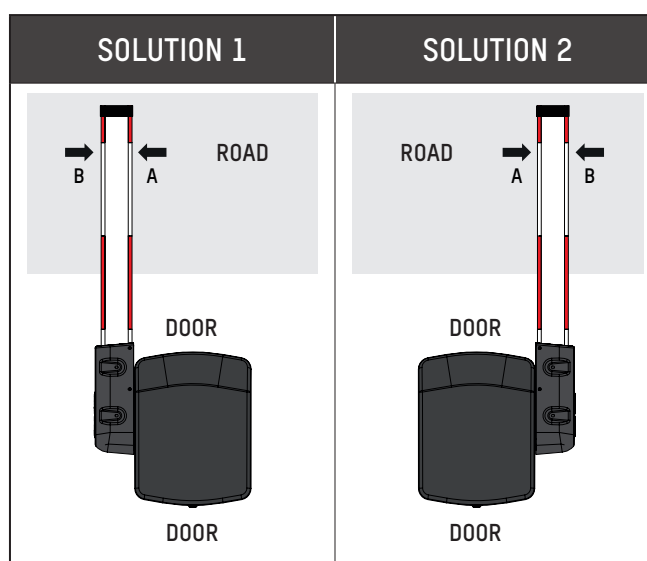


The new range of barriers is divided into **three categories**:


- **AS1 Guard** : a solution to secure sites with passage widths of up to 23" (7 m). Equipped with a more powerful motor. Perfect for environments requiring reliability and robustness.
- **AS1 Park** : the ideal solution for parking lots, with options for standard or articulated boom arms.
- **AS1 Toll** : specifically designed for highway tolls. Can be equipped with a Protecta® carbon boom arm (10' (3m)) with a swing/breakaway system (up to 13'1" (4m)).



CONFIGURATIONS



STANDARD TECHNICAL FEATURES

Power supply	Single-phase 120 V /60 Hz (+ grounding). ¹		
Type of boom arm	Round in aluminium, tube $\varnothing 3 \frac{5}{16}$ " ($\varnothing 83.5$ mm) with groove.		
Ambient operating temperature	Between -20 °C and +60 °C (-4 °F and 140 °F). (with no heating option)* *Up to -45 °C (-49 °F) (with heating option)		
Ambient relative humidity	max 95%, without condensation		
	AS1 Park	AS1 Guard	AS1 Toll
Free passage (L)	From 6'6" to 13'1" (2 to 4 m)	From 6'6" to 23' (2 to 7 m)	From 6'6" to 13'1" (2 to 4 m) ³
Minimum opening/closing time	Adjustable between 1.2 and 4 seconds.		Adjustable from 0.6 seconds.
Motor	20 Nm brushless geared motor	60 Nm brushless geared motor	
Weight (without boom arm)	+/- 137 lb (62 kg)	+/- 143 lb (65 kg)	
MCBF (Mean cycles between failures)	10,000,000 cycles, if maintained according to recommendations		
Protection index	IP55		
Noise level	<70 db(A) ²		
	UL325 / CSA - C22.2, no. 247-92 (R 2008) certification		

- 1 Do not connect to an isolated ground network or to a high-impedance grounded industrial distribution network.
- 2 Measured 3'3" (1 m) from the machine surface and at a height of 5'3" (1.60 m) above the ground. No hearing protection needed.
- 3 The optional Protecta® carbon boom arm is only available with a 10' (3 m) length.

WORK TO BE PROVIDED BY THE CUSTOMER

- Ground anchoring adapted to the type of the surface.
- Power supply.
- Wiring to any external devices.

Note: please follow the installation plan.

OPTIONS

- I Included
- Optional

	AS1 GUARD	AS1 PARK	AS1 TOLL
BOOM ARMS			
Adjustable articulated round boom arm (up to 13'1" (4m)). ¹	●	●	
Breakaway for round boom arm $\varnothing 3 \frac{5}{16}$ " ($\varnothing 83.5$ mm) (including boom arm breakaway detection) up to 13'1" (4m).	●	●	I
Safety edge (with protection) under aluminium boom arm.	●	●	
Carbon Protecta® boom arm (10' (3m)). ²			●
Automatic boom arm lifting in case of a power failure.	●	●	I
Limit switch for information - Boom arm position in case of power failure.	●	●	●
SECURITY & PROTECTION			
Opening protection of both cover - Information by a dry contact. • Standard: Info output to terminal block without action	●	●	●
CONTROL AND COMMAND			
3 position key switch on the housing (locked open / locked closed).	●	●	●
2 position key switch on the housing (locked open).			
Radio transmitter - 2 channels.	●	●	●
Radio receiver - 2 channels.	●	●	●
Antenna.	●	●	●
Loop detector - Double channel.	●	●	●
Photoelectric cell - Transmitter / Receiver.	●	●	●
Photoelectric cell post (H = 3'3" (1m)).	●	●	●
I/O Phoenix-2 expansion board with 8 digital inputs and 8 relay outputs.	●	●	●
Laser sensor BEA LZR-H100 mounted on post with anti-vandal enclosure.	●	●	●
Laser sensor BEA LZR-H100 mounted on housing with anti-vandale enclosure. ³	●	●	●
Remote control for laser sensor BEA LZR-H100.	●	●	●
BEA Evoloop radar detector with vandal-proof enclosure, mounted on housing.	●	●	●
SIGNALIZATION			
LEDs on boom arm - In pairs (flashing lights (red) when closed).	●	●	●
Traffic lights ($\varnothing 8$ " ($\varnothing 200$ mm)) - Red/green LEDs.	●	●	
100dB audible alarm (internal mounting) during barrier closing.	●	●	●
Aluminium traffic sign ($\varnothing 17 \frac{23}{32}$ " ($\varnothing 450$ mm)). Class II.			

- I Included
- Optional

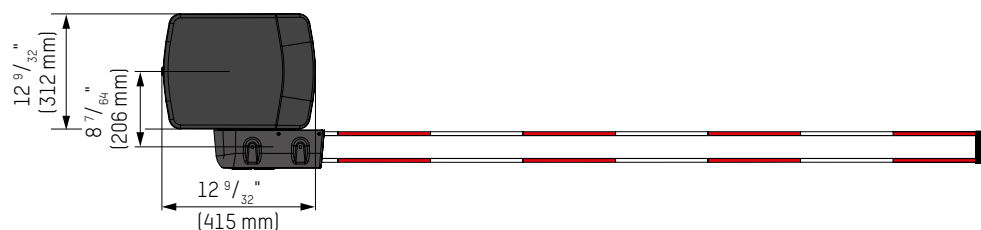
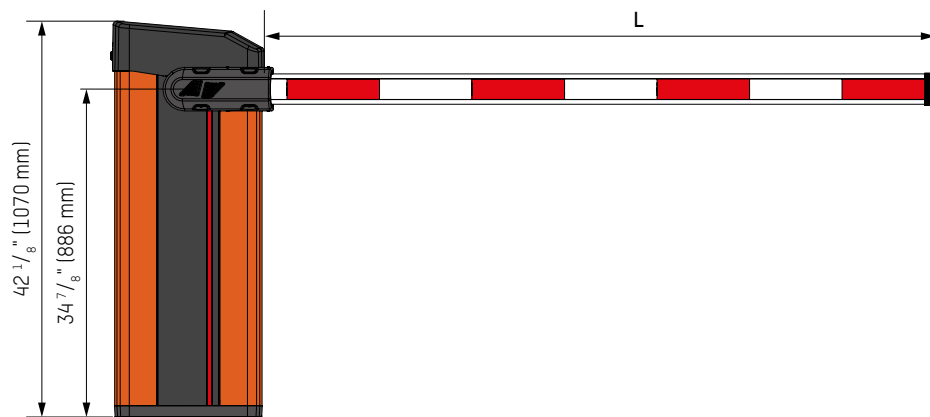
	AS1 GUARD	AS1 PARK	AS1 TOLL
Integrated LED strip on rail under the boom arm.	●	●	●
Function pictogram - Integrated in the housing	●	●	●
AESTHETICS			
Non standard color.	●	●	●
POWER SUPPLY			
Power supply 240V - 50/60Hz.	●	●	●
ENVIRONMENT			
Thermostatic heating - Operate down to -45 °C (-49 °F).	●	●	●

Note: for restrictions regarding options, please contact us.

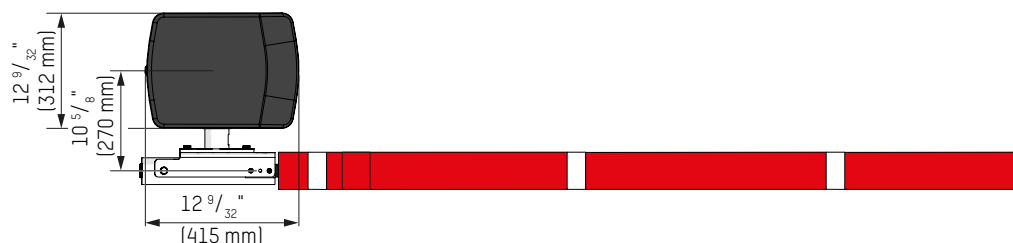
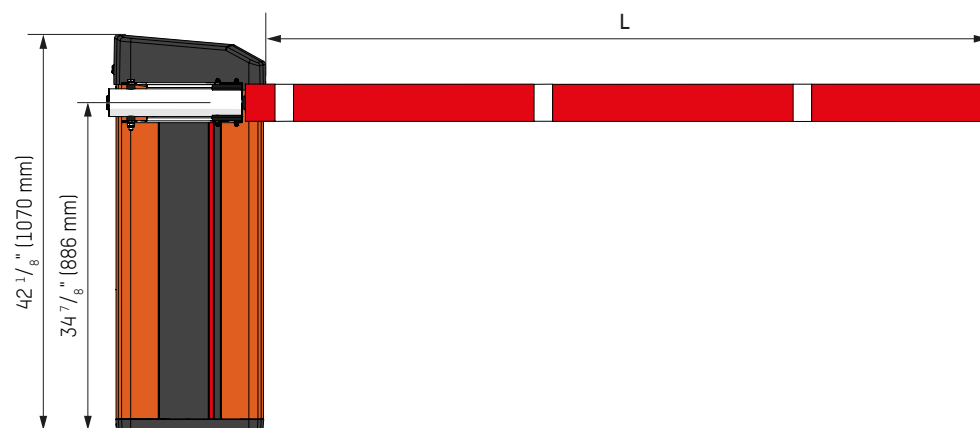
- 1 Supplied without any options on the boom arm. Incompatible with traffic sign / boom arm breakaway.
- 2 Requires a breakaway system.
- 3 Incompatible with ultrasonic sensor / vandal-proof package.

OVERALL DIMENSIONS (INCHES AND MM)

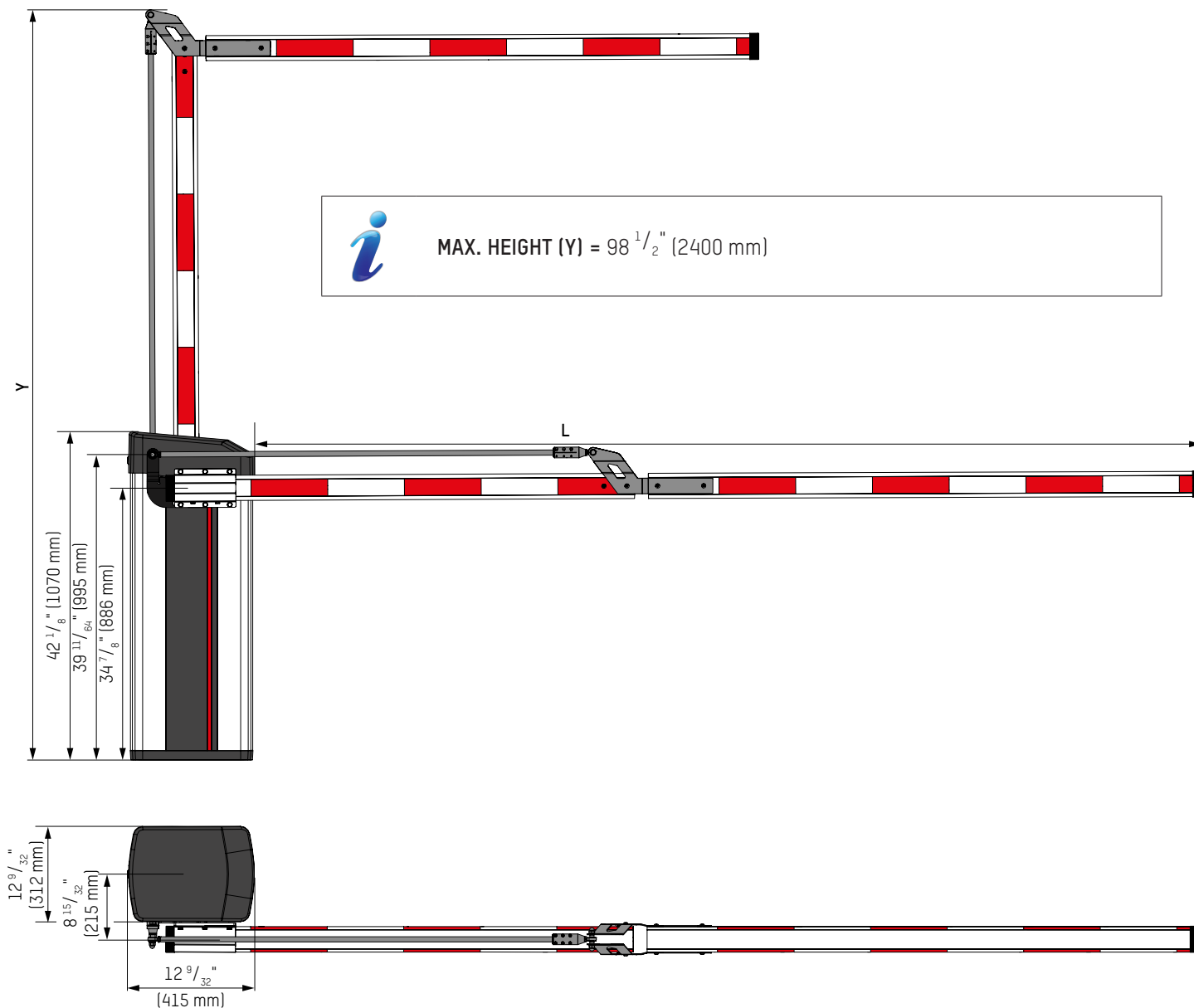
AS1 PARK - AS1 GUARD: STRAIGHT BOOM ARM



AS1 TOLL



AS1 PARK - AS1 GUARD: ARTICULATED BOOM ARM



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VIDEO PRESENTATION



CONTACT US