

BL 227 EVO

Technical Data Sheet

Rev. 00 • Update 07/2024



DESCRIPTION

1. Sheet steel base plate with anti-corrosion treatment and powder-coated.
2. Housing and top cover in sheet steel with anti-corrosion treatment and powder-coated.
3. Illuminated sign on the top cover to indicate vehicle right of way (optional).
4. Ø 75 mm aluminium round boom, enamelled white (RAL 9010), with red reflective bands and an end cap.
5. Boom shaft directly driven by reduction motor eliminating all complicated adjustments and the risk of additional breakdown.
6. Electro-mechanical assembly including:
 - Three-phase reversible reduction motor brake, lubricated for life, ensures the perfect protection of the mechanism in case of forced lifting of the boom.
 - Auto-aligning pillow block lubricated for life.
 - Frequency inverter ensuring gradual acceleration and damped deceleration for vibration-free movement and enhanced protection of the mechanism.
 - Analogue sensor.
 - Electronic limitation of the electromagnetic group torque allows immediate stopping of the boom during closing and in the event of an obstacle.
 - Boom balanced by compensation springs, according to the weight of the boom.
 - Lever for manual lifting of the boom (except with the "automatic lifting" option).
7. Configurable electronic command logic enabling various additional command and/or accessory options.

The **BL 227 EVO** automatic lifting barrier is based on motorway barrier technology and is designed for a wide range of applications requiring perfect adaptability to all types of traffic and access control, combined with high reliability and robustness.

A wide range of options and accessories is available to adapt the **BL 227 EVO** to your needs.

STANDARD RAL COLOURS



RAL 2000 (*)
Orange



RAL 3020
Traffic red



RAL 7016
Anthracite grey



RAL 9010
Traffic white

(*) Standard color.

All other colors must be specified when ordering.

Note: These RAL references are available at no extra cost.



STANDARD TECHNICAL CHARACTERISTICS

Power supply	Single phase 230 VAC, 50/60 Hz + Ground. ^[1]		
Power consumption	IN OPERATION	AT REST <u>WITHOUT</u> AUTOMATIC RAISING	AT REST <u>WITH</u> AUTOMATIC RAISING
	450 W max.	10 W	28 W
Motor	Three-phase 230 V/250 W		
Free passage [L]	From 2 to 6 m		
Operating time	Adjustable between 1.5 and 3.5 sec., according to 3 profiles: <ul style="list-style-type: none"> • Standard ^[2] • Intermediate ^[3] • Maximum ^[4] (Allowing the passage of 1,500 vehicles/h)		
Ambient operating temperature	Between -10°C and +60°C (without heating option)		
Ambient relative humidity	95% max., without condensation		
MCBF (Mean number of cycles between failures)	10,000,000 cycles, in compliance with recommended maintenance		
Weight	70 kg (excluding boom) Boom: 15 kg max		
IP rating	IP44		
CE	Complies with European standards		

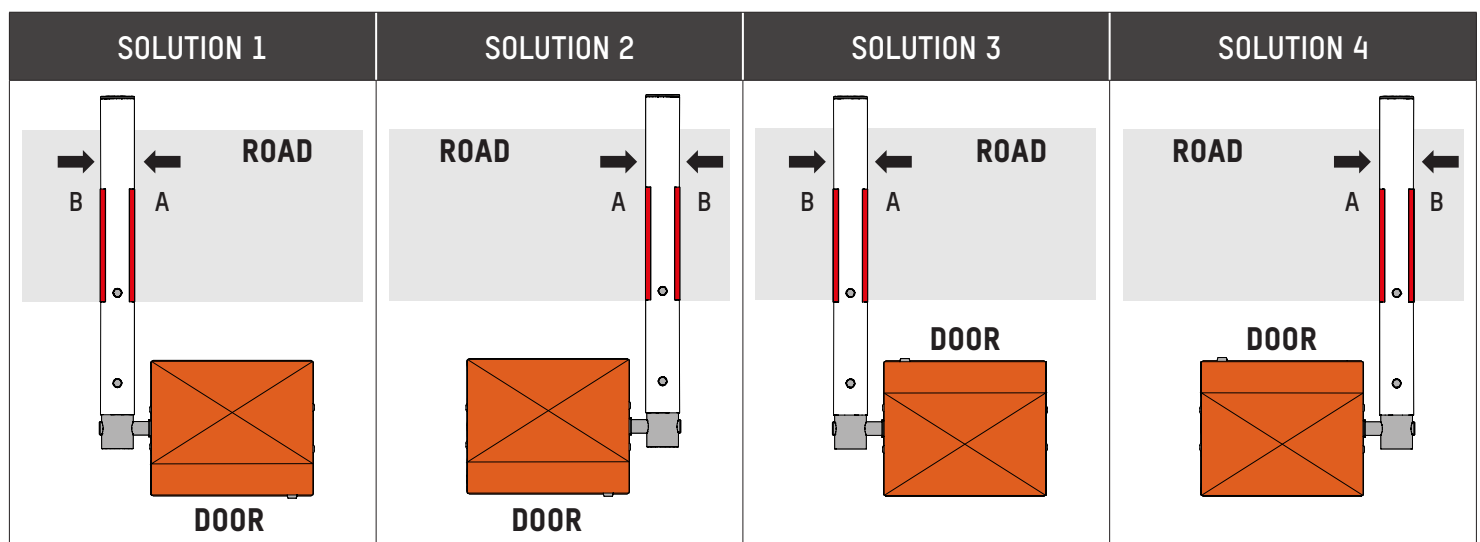
^[1] Not to be connected to a floating network or to a high-impedance earthed industrial distribution network.

^[2] Standard speed - Impact force in accordance with EN 12453.

^[3] Intermediate speed - Impact force in accordance with EN 12453 with the addition of a foam protection under the arm.

^[4] Maximum speed - The installer must ensure that the installation conforms to the standard, e.g. with dead man operation.

CONFIGURATIONS



WORKS TO BE PROVIDED BY THE CUSTOMER

- Adapted ground fastening.
- Power supply.
- Wiring to external peripherals, if applicable.

Note: Please follow the installation plan

OPTIONS

ARMS

- Articulated oval arm.
- Folding rigid plastic skirt.
- Back round arm swing-off (swinged-off arm detection device included).
- Back oval arm swing-off (swinged-off arm detection device included).
- Automatic opening of the arm in case of power failure (AVR).
- Limit switch for info - Arm position in case of power failure.

TIP SUPPORT

- Height adjust a barriere tip support.
- Electromagnetic tip support - Ø80mm or Ø84mm arm.
- Folding tip support.
- Electrolocked tip support.

SECURITY & SAFETY

- Opening protection of both cover & door - Information by a dry contact.
- Rotating base (alternative to swing off device) - 1 position sensor.

CONTROL & COMMAND

- Push button box - 2 buttons (opening / closing).
- Push button box - 3 buttons (opening / closing / stop).
- Push button box - 2 push buttons + 1 switch (3 positions). ⁽¹⁾
- Fireman emergency opening embedded in the housing (11mm spanner wrench).
- Programmable clock - Weekly (locked open during a period of time).
- Programmable clock - Yearly (locked open during a period of time).
- Key switch on the housing (Automatic / Locked open / Locked closed).
- Radio transmitter - 2 channels.
- Radio receiver - 2 channels. + Antenna.
- Radio transmitter - 4 channels.
- Radio receiver - 4 channels. + Antenna.
- Inductive loop for detection - Car (2 x 1 m / connection 5 m).
- Inductive loop for detection - Truck (3,5 x 1 m / connection 20 m).
- Presence sensor on rail - Single channel
- Presence sensor on rail - Double channel
- Photo-electric cell - Transmitter / Receiver.
- Photo-electric cell - Reflex.
- Support post for photo-electric cell (H = 0,7 m).
- Cell mounting - Transmitter + Receiver or Reflex.
- Ultrasonic detector installed in the housing.
- Ultrasonic detector with protective cover included.
- Human Machine Interface colour screen with keypad for AS1620 logic board (AS1621).
- Ethernet interface (AS1622).
- SD memory card for AS1620 Ethernet board - Industrial grade.

- Input / output (I/O) extension card for AS1620 logic board (AS1623).
- Totalling counter (number of vehicle operations).
- Totalling counter with resetting.
- Counter / Count down (parking : in - out = total).
- Laser sensor - On separate post.
- Laser sensor - fixed on barrier housing.
- Remote control for laser sensor.
- Reference point for laser sensor fixed on post.
- Reference point for laser sensor fixed on tip support.
- Double laser detector - attached to the barrier.
- Integration kit for Survison Nanopak ANPR camera with 24V DC power supply (excluding camera)

SIGNALISATION

- LEDs on arm - Per pair (Flashing lights (red) when closed).
- Traffic lights (Ø 100mm or Ø 200mm) - Red/green LEDs - Supply.
- Traffic lights (Ø 100mm or Ø 200mm) - Red/green LEDs - Fixed on a support post on the barrier.
- Support post (H = 2.7m) for traffic lights
- Acoustic alarm 100dB (internal mounting) during the barrier closing movement.
- LED boom lighting for arm up to 3m, 4m, 5m and 6m.
- Aluminium composite traffic sign (Ø 300mm).
- Function pictogram - Integrated in the cover.
- LED flashing light on the cover.
- LED flashing light with grid on the top cover.

AESTHETIC

- Non standard colour.
- Treatment for aggressive saline environment. ⁽²⁾
- Raised base - 60 mm thick - RAL9005 painted steel.

POWER SUPPLY

- Power supply 120V - 50/60Hz.

ENVIRONMENT

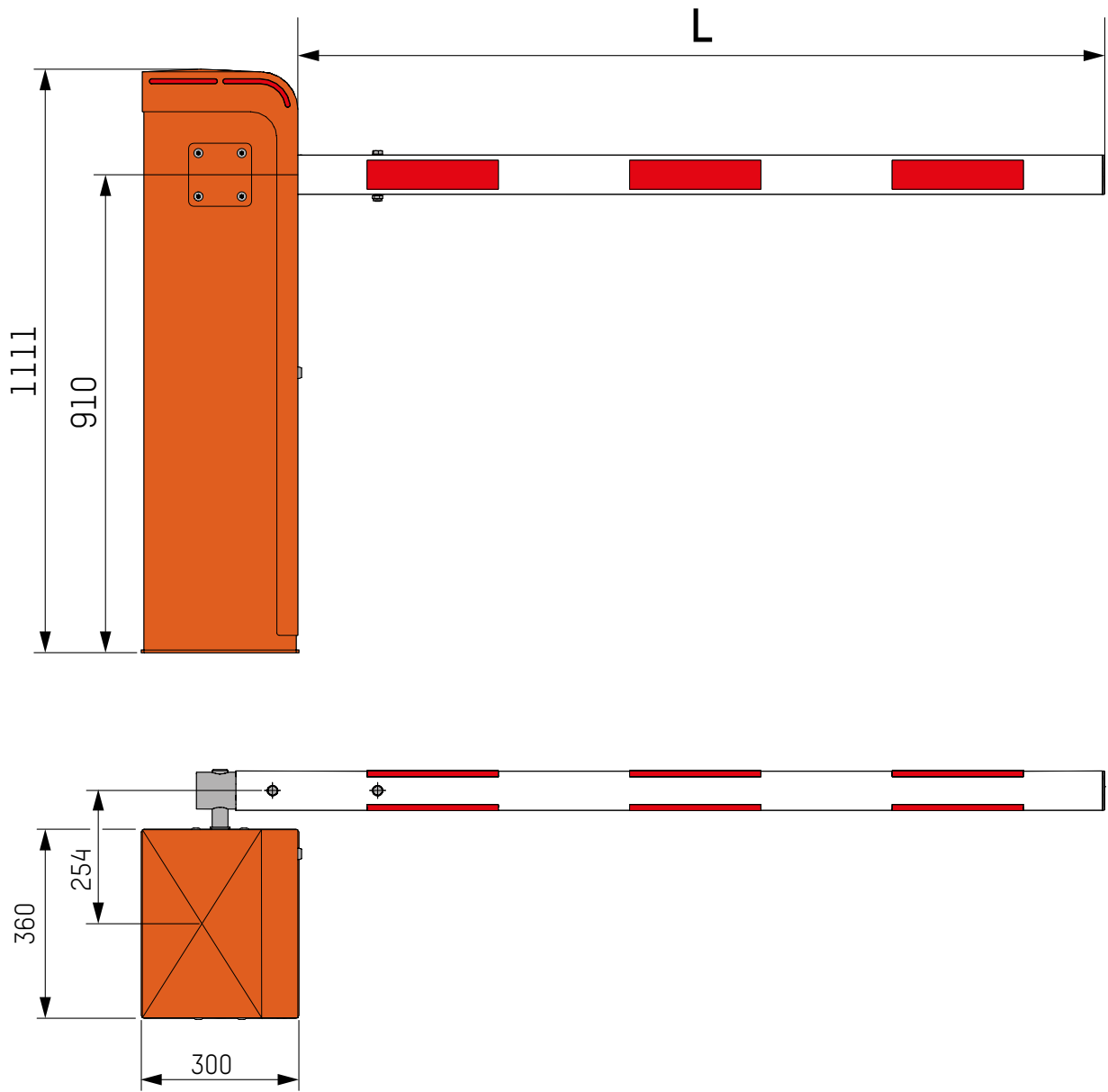
- Thermostatic heating - Heating for operation until -35°C.

Note: for restrictions regarding the options, please contact us.

(1) Open/Close + switch for Automatic or Manual mode.

(2) Recommended when the turnstile is installed within 10 km of the coast: sandblasting + Alu Zinc plating 40 µm inside/ 80 µm outside + polyzinc 80 µm + powder paint 80

STANDARD DIMENSIONS (MM)



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BL227 EVO-FT-EN-00