

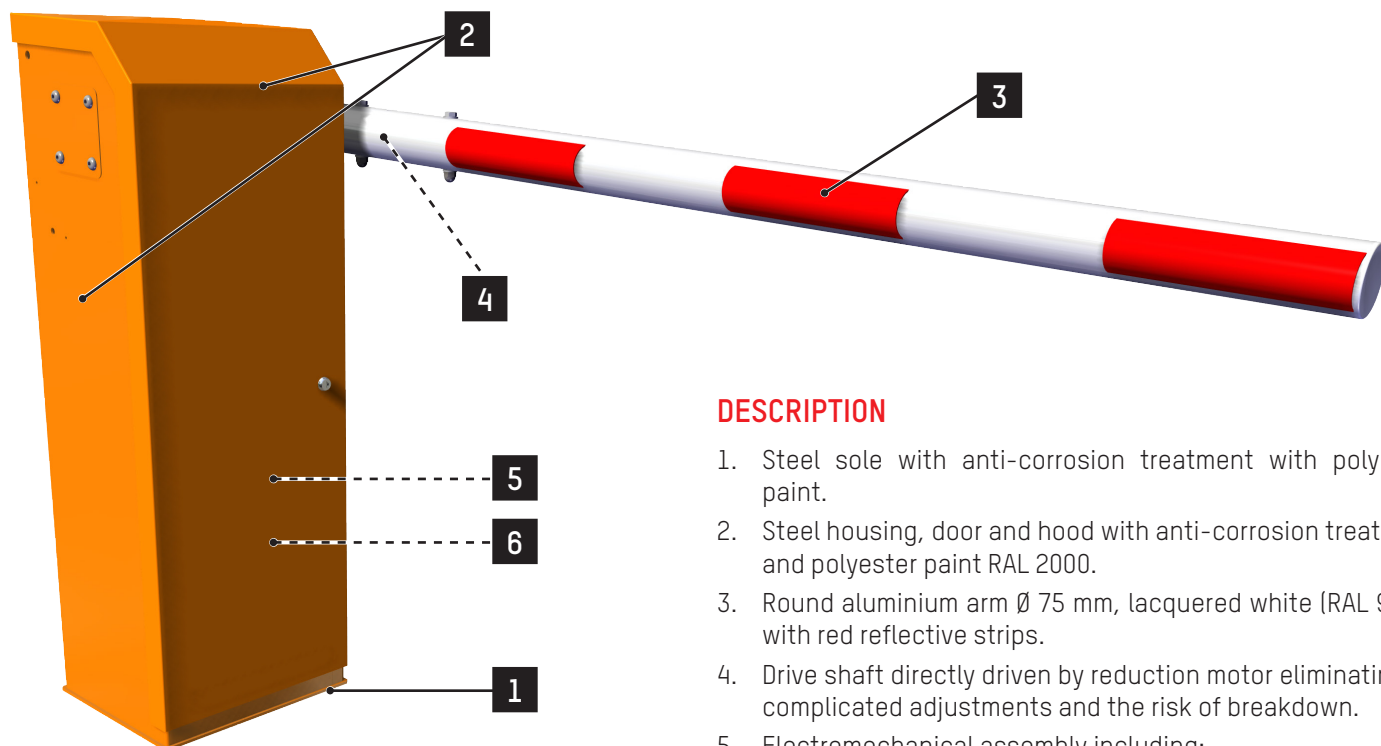
BL 227

Datasheet

Rev. 07 • Update 06/2022



AUTOMATIC SYSTEMS



The **BL 227** rising barrier derives from highway's technologies and intends for a wide range of applications requiring perfect suitability for all types of traffic and access control, combined with reliability and robustness.

A large range of options and accessories is available to customize the **BL 227** as you want.

STANDARD RAL COLORS



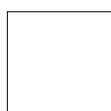
RAL 2000 (*)
Orange



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 for free.

DESCRIPTION

1. Steel sole with anti-corrosion treatment with polyester paint.
2. Steel housing, door and hood with anti-corrosion treatment and polyester paint RAL 2000.
3. Round aluminium arm Ø 75 mm, lacquered white (RAL 9010) with red reflective strips.
4. Drive shaft directly driven by reduction motor eliminating all complicated adjustments and the risk of breakdown.
5. Electromechanical assembly including:
 - Three-phase reversible reduction motor brake, lubricated for life, ensures the perfect protection of the mechanism in case of malicious forced lifting.
 - Auto-aligning bearing block lubricated for life.
 - Variable frequency drive ensuring progressive accelerations, short circuit protection, grounding, overcurrent and thermal protection of the reduction motor.
 - Electronic limitation of the electromechanical assembly torque allowing immediate stopping of the arm during closing in case of an obstacle.
 - Balancing of the arm by means of compensating springs, according to the weight of the arm.
6. Electronic control board offering 12 inputs + 6 outputs + 2 relays configurables:
 - Adjustable opening and closing speed.
 - Arm position status (open or closed).
 - Technical fault information report.
 - Human/Machine interface with dipswitches, potentiometers, push button and Leds.
 - Ethernet interface.
 - Socket for presence detector (2 loops).
 - Communication with MODBUS form

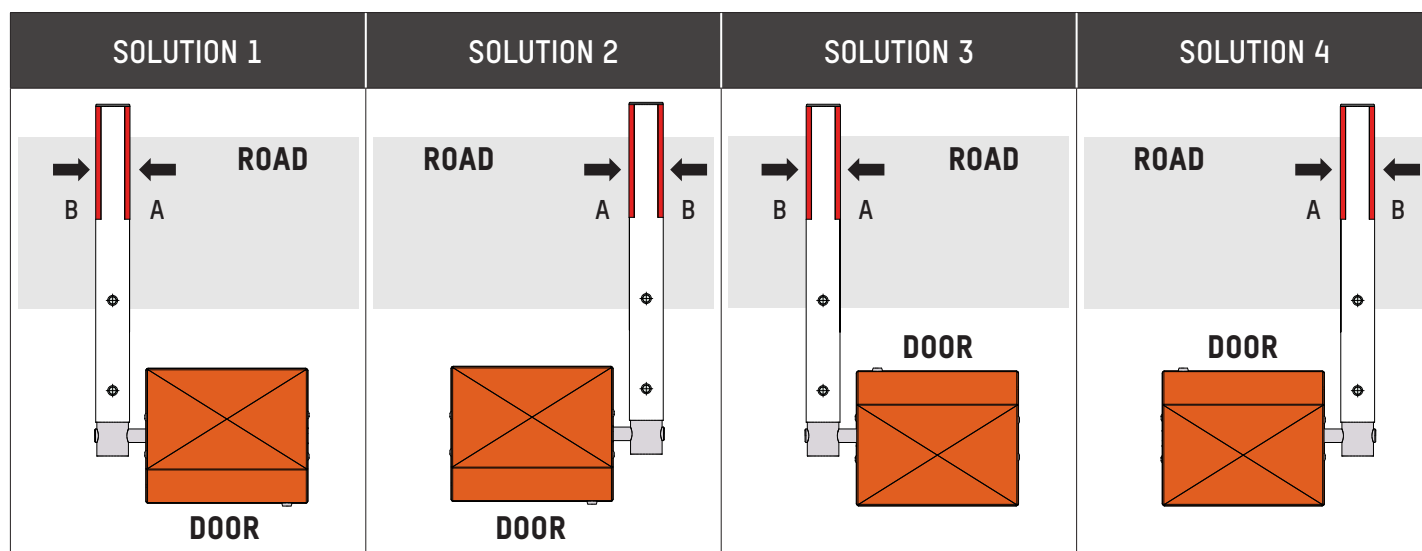


STANDARD TECHNICAL CHARACTERISTICS

Power supply	Single phase 230VAC, 50/60Hz + Ground ^[1] .
Consumption	During motion: 450 W max. At rest: 44 W (Depending of options)
Motor	Three-phased 230 V/250 W
Free passage (L)	from 2 to 6 m
Operating time	Adjustable from 1.5 to 3.5s (Allowing the passage of 1500 vehicles/h)
Ambient operating temperature	Between -25 and +60°C
Relative ambient humidity	95% max, without condensation
MCBF (Mean cycles between failures)	5.000.000 cycles, in compliance with recommended maintenance
Weight	80 kg (without arm) Arm: 15 kg max
IP rating	IP44
CE	Complies with European standards

^[1] Do not connect to an isolated ground network or a high impedance earthed industrial network.

CONFIGURATIONS



WORKS TO BE PROVIDED BY THE CUSTOMER

- Adapted ground fastening.
- Power supply.
- Wiring towards eventual external peripherals.

Note: 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).^[2]
- 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 - Single channel -for inductive loop.
- Presence sensor - Double channel - for inductive loop.
- 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.^[3]
- Ultrasonic detector with protective cover included.^[3]
- PLA1301 - Electronic board for input / output + Presence sensor connector.
- 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 sensor - fixed on barrier housing.

SIGNALISATION

- LEDs on arm - Per pair (Flashing lights (red) when closed).
- Traffic lights (Ø 100mm) - Red/green LEDs - Supply.
- Traffic lights (Ø 100mm) - Red/green LEDs - Fixed on a support post on the barrier.
- Traffic lights (Ø 200mm) - Red/green LEDs - Fixed on a support post on the barrier.
- Traffic lights (Ø 200mm) - Red/green LEDs - Supply.
- Wall bracket for traffic lights (Ø 100mm).
- Acoustic alarm 100dB (internal mounting) during the barrier closing movement.
- Aluminium composite traffic sign (Ø 300mm).
- LED flashing light on the cover.^[4]
- LED flashing light with grid on the top cover.^[4]

AESTHETIC

- Non standard colour.
- Treatment for aggressive saline environment.^[5]
- Raised base - 60 mm thick - RAL9005 painted steel.

POWER SUPPLY

- Power supply 120V - 50/60Hz.

ENVIRONMENT

- Thermostatic heating - Heating for operation until -35°C.
- IP55 tightness kit.

Note: For restrictions on options, please contact us.

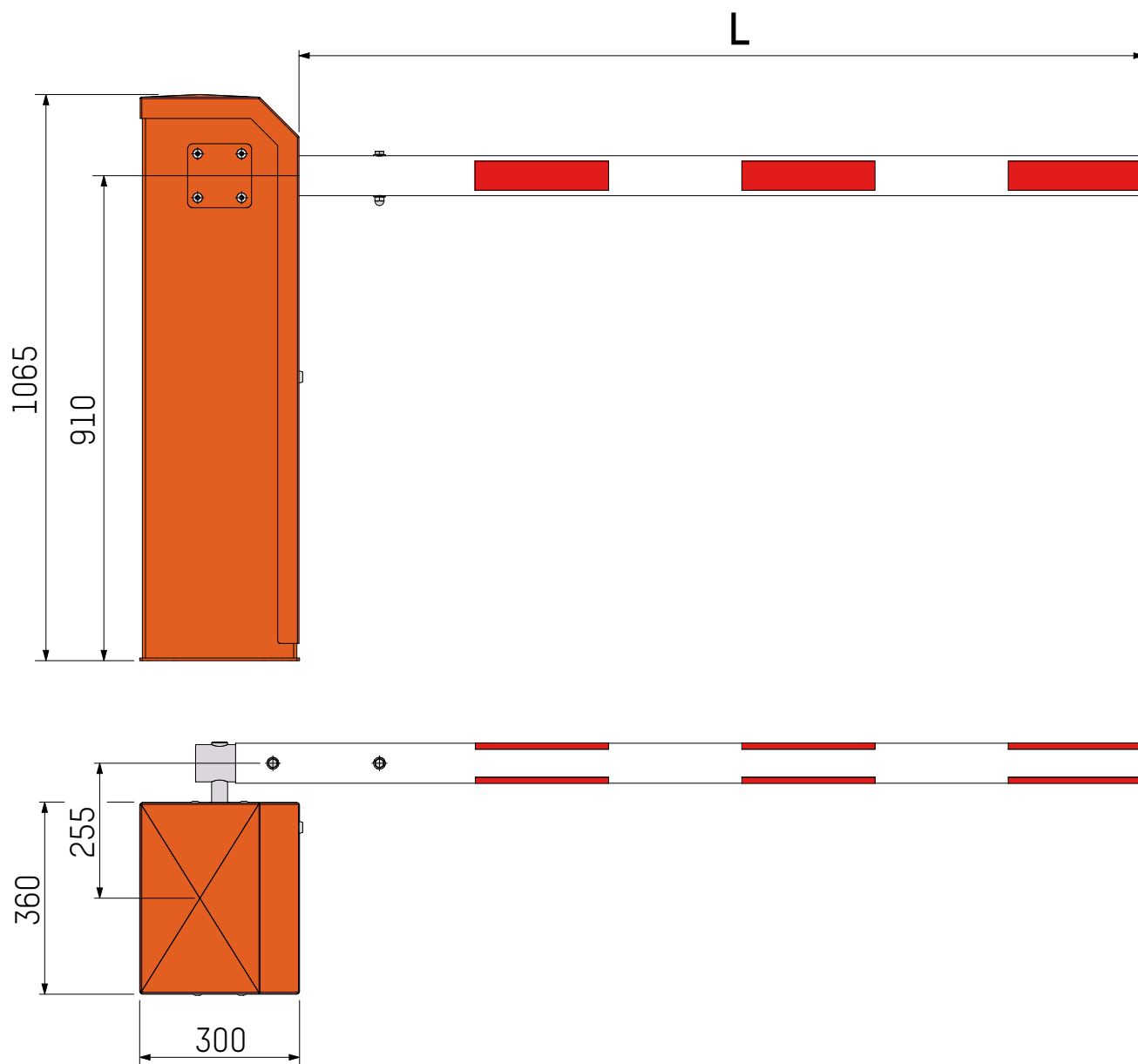
(2) Opening/Closing + switch for Automatic or Manual mode.

(3) Not considered as a safety device if used alone.

(4) Flashing during opening/closing movement and in open position - Off in closed position

(5) Recommended for an installation within 10 km of the coast: sandblasting + Alu Zinc plating 80µm outside (40µm inside) + polyzinc 80µm + 80µm powder coat.

STANDARD DIMENSIONS (MM)



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