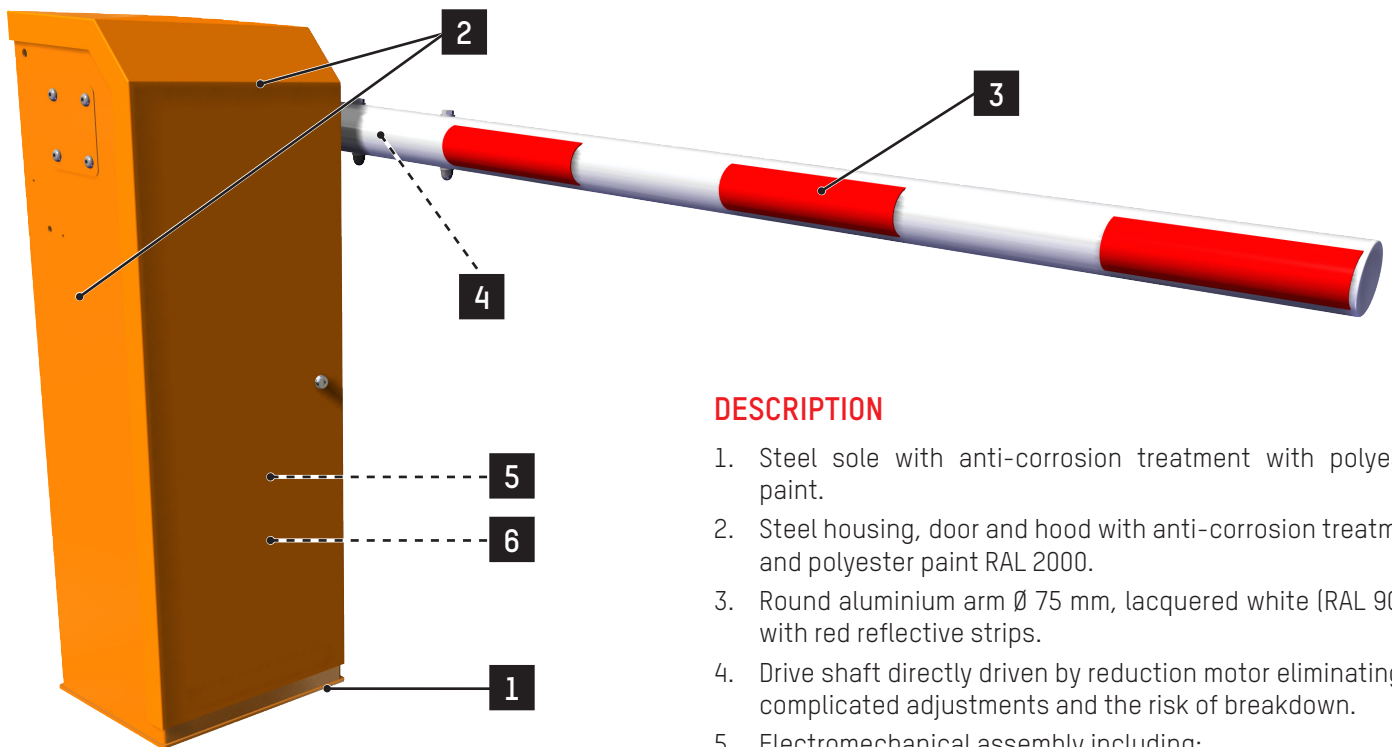


BL 227

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 \varnothing 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

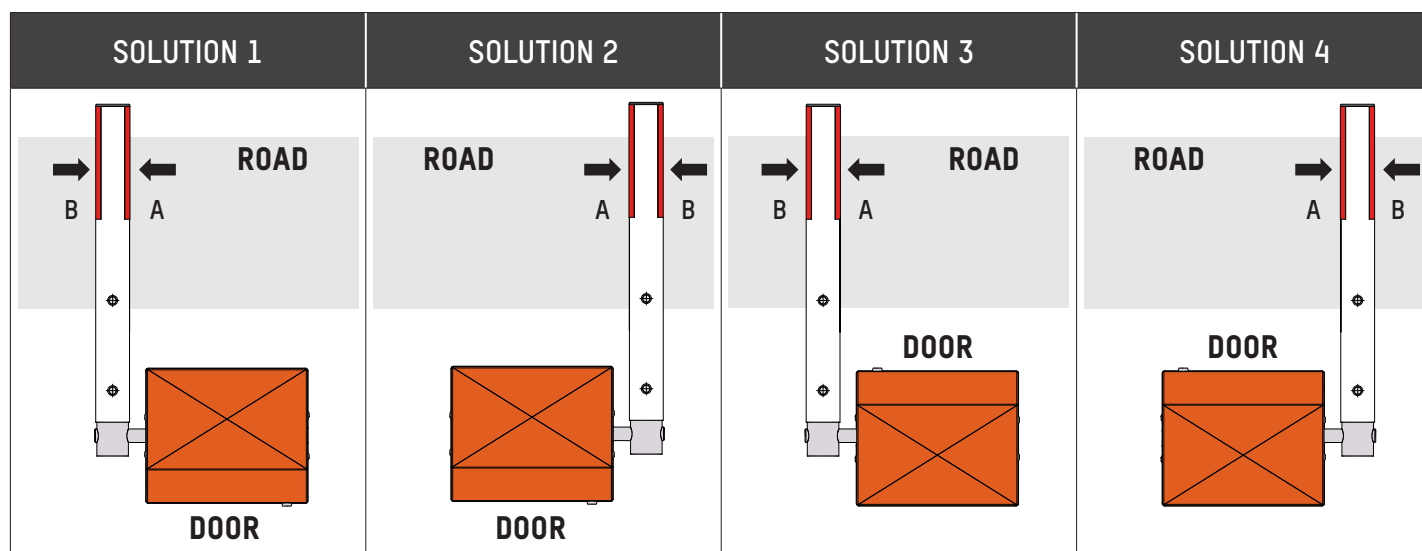


STANDARD TECHNICAL CHARACTERISTICS

Power supply	Single phase 230VAC, 50/60Hz + Ground ^[1] .
Consumption	During motion: 450 W max. At rest: 44 W (Depending of options)
Motor	Tree-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)

