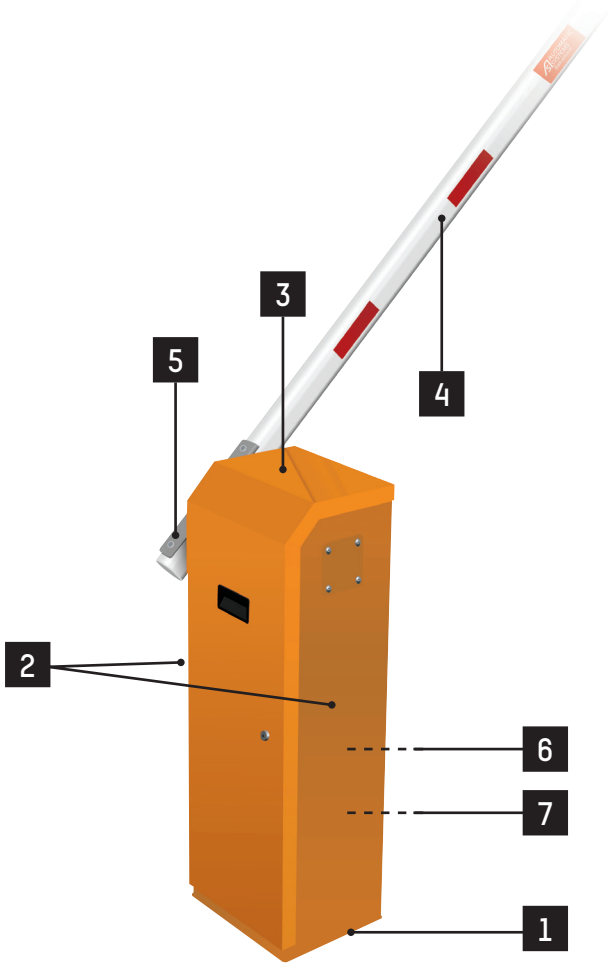
BL 261 Toll

Datasheet

Rev. 10 • Update 02/2022



The **BL 261 Toll** arrier has been specially designed to meet the requirements of the toll market.

Its high-speed performance, from 0.6 seconds in continuous operation, allows easy traffic management, even in peak periods (up to 50 vehicles per minute).

The **BL 261 Toll** barrier is simple to install and, because of its rugged (20,000 cycles/day) and reliable design, it requires low maintenance.

Its small size and access to the mechanism and to the equipment located to the opposite of the highway allow to perform maintenance operations safely.

Modular up to 4 meters, the **BL 261 Toll** barrier has a wide range of options and accessories.

DESCRIPTION

1. Steel base, 5mm thickness, with anti-rust treatment, RAL 2000 polyester paint finishing and rubber sealing joint.
2. Steel housing, 3 mm thickness, with anti-rust treatment and RAL 2000 polyester paint finishing.
3. Aluminium steel hood with anti-rust treatment and RAL 2000 polyester paint finishing.
   The hood is located on the opposite side of the way allowing full accessibility to the mechanism and equipment.
4. Aluminium oval arm, 80 x 54 mm, white laquered *(RAL 9010)*, with red reflective stripes and extremity cap. Arm swing-off system with swing-off sensor.
5. Main shaft directly driven by the gear motor eliminating all complicated adjustments and risk of additional breakdown.
6. Electromechanical assembly including:
   - Three-phase reversible gear motor with 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 gear motor.
   - Electronic torque limitation of the electromechanical assembly allows an immediate stopping of the boom during closing in case of an obstacle.
   - Balancing of the arm by means of compensating springs, according to the weight of the boom.
   - Automatic opening of the boom in case of power failure with spring anti-drop system.
7. Programmed control logic board according customer specifications with adjustable end of movement period. Information provided:
   - Boom up position.
   - Boom down position.
   - Boom swing-off status.
   - Other information on request.

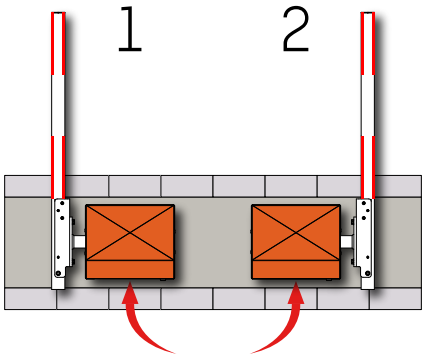
STANDARD TECHNICAL SPECIFICATION

Electrical power supply	Single-phase 230 VAC - 50/60 Hz + ground. (1)	
Consumption	Standby: Operating:	44 W (Depending of options) 450 W max.
Motor	Tree-phased 230 V/250 W	
Free passage (L)	from 2.5 to 4 m	
Operating time	Adjustable from 0.6 to 2.5 s (Allowing the passage of 50 vehicles/min.)	
Ambient operating temperature	From -25 to +60°C	
Relative ambient humidity	95% max, without condensation	
MCBF (Mean cycles between failures)	**10.000.000** cycles, in compliance with recommended maintenance	
Weight	80 kg (without arm)	
IP rating	IP55	
CE	Complies with European standards	

(1) Not to be connected to a floating network or to high impedance earthed industrial distribution network.

CONFIGURATIONS

Solution



WORKS TO BE PROVIDED BY THE CUSTOMER

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

Note: Follow the installation plan.

OPTIONS

ARMS

- Carbon Protecta® arm - Lg. 2,5 m ; 3 m ; 3,5 m. (2)
- Carbon Protecta® arm with automatic re-hinging device - Lg. 2,5 m; 3 m; 3,5 m. (2)
- Polystyrene protection for aluminum arm - Lg. 0.5m at arm end.

SECURITY & SAFETY

- Opening protection of both cover & door - Information by a dry contact.

CONTROL & COMMAND

- Push button box - 2 buttons (opening / closing).
- Switch in housing (automatic / locked open / locked closed).
- Key switch on the housing (automatic / locked open / locked closed).
- Inductive loop for vehicle detection.
- Presence sensor on rail - Double channel.
- Photo-electric cell (T/R or Reflex).
- Support post for photo-electric cell (H = 0.7 m).
- Cell mounting (T/R or Reflex).
- Ultrasonic detector installed in the housing under the arm (protective cover included). (3)
- Electronic board for additional I/O + Presence sensor connector.
- Totaling counter (without or with resetting).

SIGNALISATION

- Traffic lights (Ø 200 mm - LEDs) - Red/Green - Supply.
- Support post for traffic lights (H: 2,70 m).
- Support post for traffic lights (for front ejection). (4)
- Support post for traffic lights (for back ejection). (4)
- Traffic lights (Ø 200mm) - Red/green LEDs + acoustic and visual alarms - Fixed on a support post on the barrier

AESTHETIC

- Non standard RAL colour.
- Treatment for aggressive saline environment. (5)
- Raised steel base.

POWER SUPPLY

- Power supply 120 V - 50/60 Hz.

ENVIRONMENT

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

(2) Polyurethane sheath and sleeve in marine-variety fibre fabric.

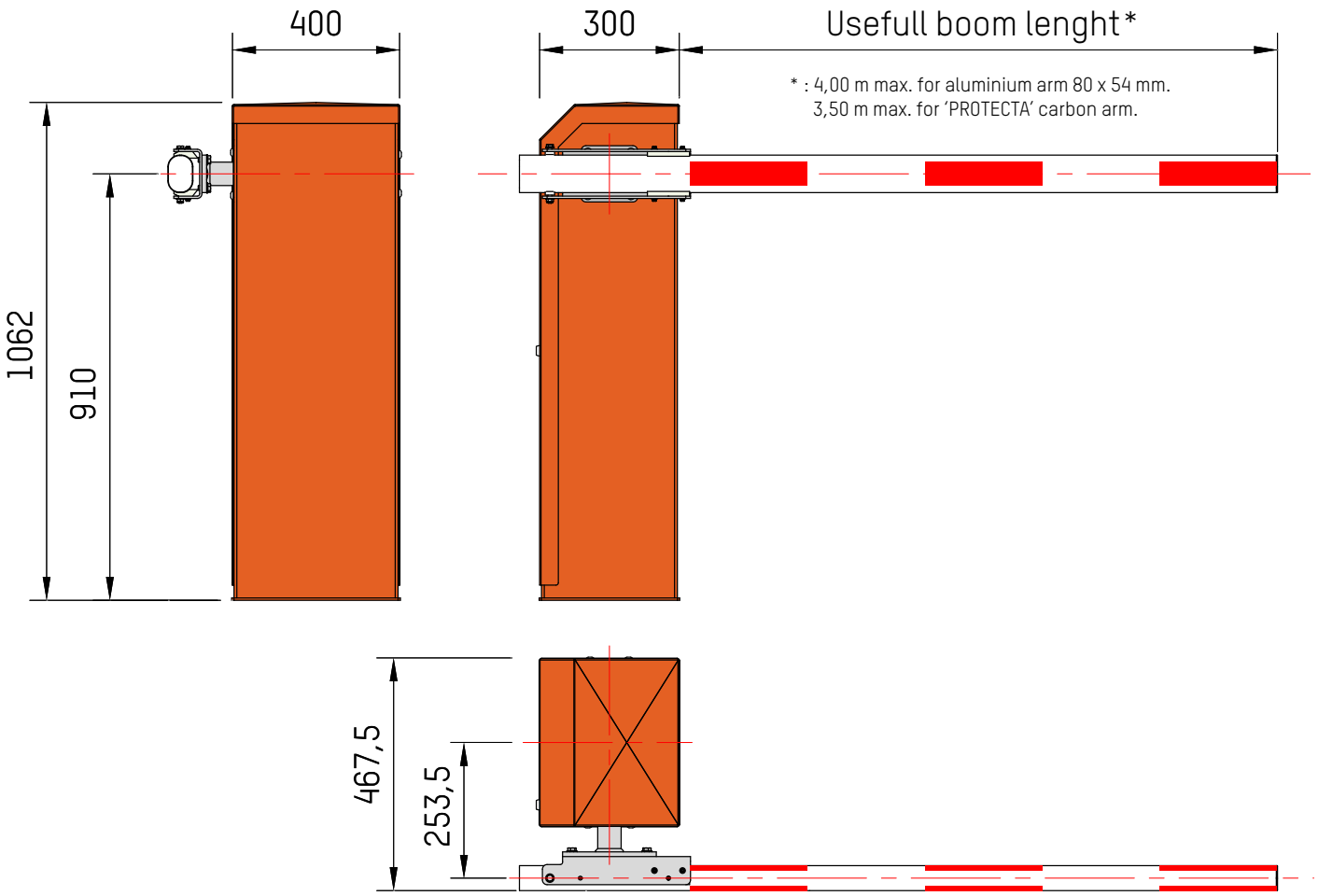
(3) Not considered as a safety device if used alone.

(4) To be mounted on the barrier.

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

Note: For restrictions on options, please contact us.

OVERALL DIMENSIONS (MM)



Headquarters
Avenue Mercator, 5
1300 Wavre - Belgium

helpdesk.as@automatic-systems.com

+32.(0)10.23.02.11

www.automatic-systems.com

With a constant view of adopting the latest technological developments, Automatic Systems reserves the right to amend the information above, at any time. Non-contractual document.