

BL 229

Datasheet

Rev. F • Update 08-2021

AUTOMATIC
SYSTEMS

DESCRIPTION

1. **Operator cabinet** made of 3/16" [5 mm] welded steel covered by a 14 gauge [2 mm] sheet metal.

2. **Side panel** provides easy access to the mechanism (locked by key).

3. **Cover** (locked by key).

4. **Arm**, painted white with red and white reflective stripes.

5. **Arm shaft** mounted on two life-lubricated ball bearings. The protrusion of the shaft, centred on the housing side, allows it to be easily reversed from one side of the housing to the other: arm on the left or on the right of the framework housing.

6. **Electromechanical assembly:**

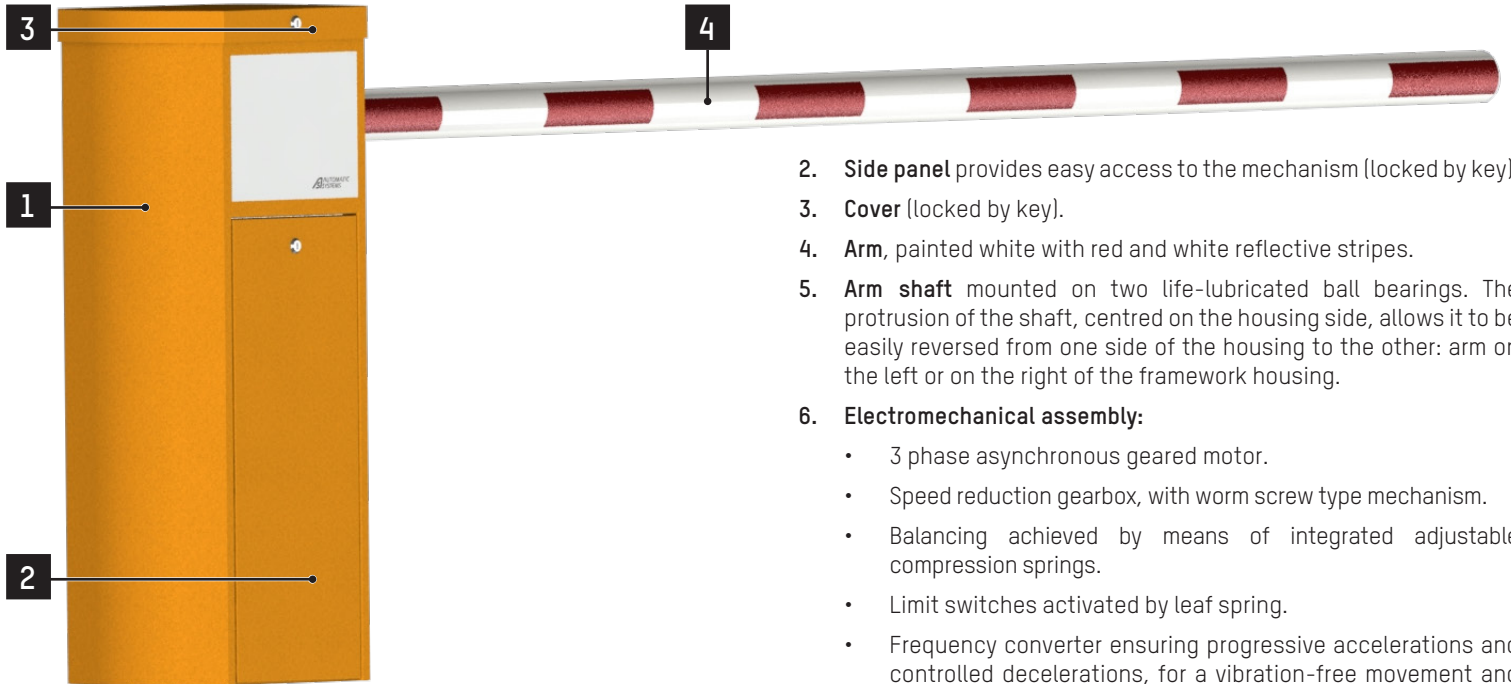
- 3 phase asynchronous geared motor.
- Speed reduction gearbox, with worm screw type mechanism.
- Balancing achieved by means of integrated adjustable compression springs.
- Limit switches activated by leaf spring.
- Frequency converter ensuring progressive accelerations and controlled decelerations, for a vibration-free movement and enhanced protection of the mechanism.
- Automatic barrier unlocking device in case of power failure, opening then being possible by hand.

7. **Lever** for manual unlocking (if the automatic mode is not setup).

8. **Electronic control board** offering 14 digital inputs, 6 digital outputs, 3 relays, an Ethernet port and 1 mini USB port. Sample of the available features:

- Arm position status (open or closed).
- Presence detector status.
- Breakaway arm sensor.
- Technical fault information report.
- Human/Machine interface with 5 integrated push buttons for

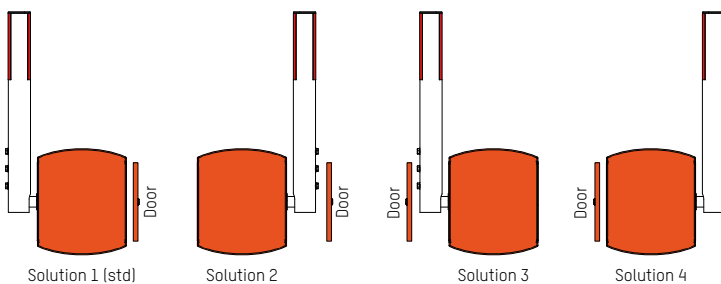
9. **Fixing frame** to be fixed in a concrete base.



BL229 rising barrier is designed and manufactured by Automatic Systems. It is a universal barrier: its high performance and great reliability enable it to be used in a wide range of applications.

We offer numerous accessories for our gates in order to meet the multitude of installation constraints and security requirements.

CONFIGURATION




www.automatic-systems.us
www.automatic-systems.ca

ANTI-CORROSION TREATMENT

- Zinc-coated internal mechanical parts.
- Complete cabinet (housing, base plate, cover and door) receives a 4000 hour salt spray resistant primer followed by an AS RAL2000 orange powder coat paint.

STANDARD TECHNICAL SPECIFICATIONS

Electrical Power supply	Single phase 120VAC, 60Hz + Ground ^[1] .
Nominal power consumption	335W (at maximum speed and without options)
Motor	Three-phase asynchronous 250W motor
Gearbox	Life-lubricated worm-screw speed reduction unit.
Arm length	10 ft [3.05 m] to 19ft 8in [6 m] ^[2]
Opening/closing speed	Between 1 and 4 sec depending on the arm length.
Operational temperature	Between -4°F and 122°F [-20°C and +50°C] (without optional heating)
Arm profile	Aluminum tube of 3-5/16" [81mm] diameter.
MCBF (mean cycles between failures)	10,000,000, with normal maintenance.
Net weight	183 lbs [83 kg], (excluding arm)
IP	44
Noise emitted during operation	< 70db(A) ^[3]
	ETL Listed, conforms to UL STD 325

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

^[2] Between 5 and 6 m, a tip support is delivered with the barrier.

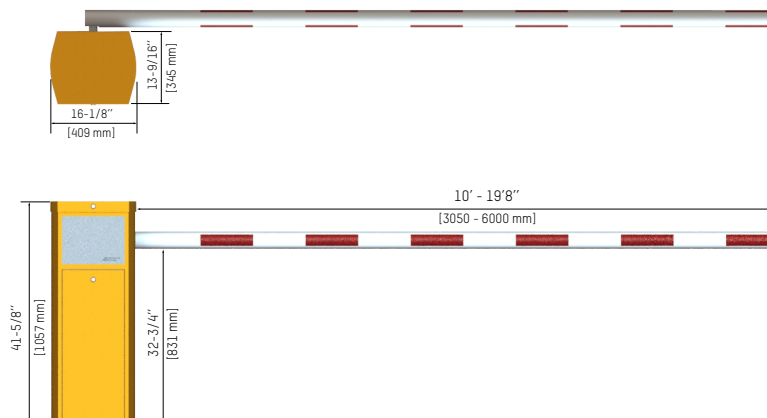
^[3] Measured at 1 m from the surface of the machinery and at a height of 1.60 m above the ground; according to ISO 3744. No hearing protection needed.

WORK TO BE SUPPLIED BY THE OTHER

- Ground installation
- Power supply
- Wiring to any external devices.

Note: comply with the installation plan.

STANDARD DIMENSIONS



OPTIONS

1. Articulated round arm. ^[4]
2. Breakaway + breakaway detection. ^[4]
3. Carbon Protecta® arm - Lg. 10' [3 m]
4. Safety edge profile. ^[4]
5. Automatic opening of the arm to 45° in case of power failure.
6. Height adjustable tip support.
7. Electromagnetic tip support. ^[4]
8. Folding tip support. ^[4]
9. Position detection by analog sensor for enhanced performance.
10. Push-button box.
11. Key switch on the housing.
12. Remote control
13. Detection loop.
14. Presence detector for inductive loops
15. Photocells to open, close or automatically stop/reopen the barrier arm.
16. Photocell support post (car or truck height).
17. TOF (Time Of Flight) sensor LZR-H100 to open, close or automatically stop/reopen the barrier arm.
18. AS1623 input/output extension board.
19. Arm lights (Flashing lights (red) when closed).
20. Traffic lights mounted on the operator cabinet.
21. Traffic lights mounted on a standalone post.
22. Audible alarm (internal mounting) during the barrier closing movement.
23. Siren detector to open the gate when police, ambulance or fire truck are on an emergency.
24. STOP sign - 11 13/16" [300 mm] diameter. ^[4]
25. Anti-corrosion raised base.
26. Power supply 220V - 50/60Hz.
27. Thermostatic heater for operation down to -31°F [-35°C].
28. Cooling fan on door.
29. Non-standard RAL colors.
30. SmartTouch monitoring and control panel.

^[4] For restrictions on options please speak to your sales representative.