



AS AUTOMATIC
SYSTEMS

BL 46 Parking Barrier Gate

The BL4x series offers extra-long security barriers to close off wide lanes.

These robust barriers can be fitted with many accessories.

One barrier... many different applications

Common Applications:

Perimeter access (Industrial,hospitals)
Traffic management

Options

1. Automatic opening of the arm during power failure (a).
2. Mechanical locking of the arm in opened and/or closed position upon power failure (b).
The behavior desired in case of power failure (locked or not) must be specified at time of order.
3. Standard adjustable tip support.
4. Electromagnetic tip support.
5. Folding fence support.
6. STOP sign with a diameter of 300 mm.
7. Traffic lights on a post mounted on housing.
8. Traffic lights mounted on a standalone post.
9. Push-button box.
10. Key switch
11. Radio transmitter/receiver.
12. Detection loop.
13. Presence detector for inductive loops.
14. Photoelectric cell to open, close or automatically stop the barrier arm
15. Photoelectric cell support post
16. AS1321 Entrance/Exit extension board CAN.
17. AS1049 board for third-party traffic signs.
18. Thermostatic 250W heating for operation to a. 13°F [-25°C]
19. Thermostatic 500W heating for operation to a. 49°F [-45°C]
- 20.Red arm light.
21. Raised base.
- 22.Rotating base.
- 23.Isolation anti-corrosion base.
- 24.Other RAL colors available.
- 25.Extension of the fence over the barrier housing.

Description

1. Folded and welded sheet metal body, ranging from 1/8 to 5/16 in. [3 to 8 mm] thick.
2. Lateral and frontal doors with peripheral sealing joint and lock, ensuring easy access to the mechanism (see illustration).
3. Removable top cover, with key lock.
4. Left/ Right round aluminum arm, white lacquered with red reflective strips. The arm is composed of segments of 3.93-3.52-3.29 in. [100-90-84 mm] (in diameter) that fit together to obtain lengths of up to 10 ft [3m], 10 to 20 ft [3 to 6 m], and above 20 ft [6m] (respectively). The arm is braced by galvanized steel cables for lengths of 21.4 ft [6.5m] and more.
5. An aluminum folding fence is mounted on the arm.
6. Solid drive shaft for the arm, with a diameter of 2 in. [50 mm], mounted on 2 bearings lubricated for entire service life. The axis exit centered on the housing allows for easy inversion of the barrier model (arm to the left or to the right of the housing), enabling 2 configurations when taking into account the position of the arm (see illustration).
7. Electr echanical assembly:
 - Reversible three-phase asynchronous gear motor, ensuring protection of the mechanism in the event of forced lifting of the arm due to fraud.
 - Secondary transmission via gearwheel and sprocket wheel .Maintaining the arm in its two extreme positions (open and closed), as well as after a STOP command is achieved by means of an electromagnetic brake.
 - Frequency inverter ensuring progressive accelerations and cushioned decelerations, for movement without vibrations, direction inversion without jolts (reopening) and increased protection of the mechanism.
 - Electronic limitation of the electromechanical assembly torque allowing for the immediate stop of the arm during closing in the event of an obstacle.
 - Inductive limit switches.
 - Balancing of the arm by means of one or more compression springs, depending on the weight of the arm.
8. Configurable AS1320 electronic control board allowing for various control options and/or additional accessories.
9. Terminal block, located on the control board, with the ability to communicate with external device:
 - Providing status of the arm position (open or closed)
 - Providing status of the presence detectors
 - Allowing for master-slave control of 2 barriers opposite each other (movement of one barrier controlled by the other barrier).
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STANDARD TECHNICAL CHARACTERISTICS

Input power⁽¹⁾	120 VAC / 60 Hz (with ground)
Consumption	450 W (nominal) - 950 W (max. with biggest heater)
Motor	Three-phase 240 V / 250 W controlled by frequency inverter
Transmission	Reversible ring and pinion speed reducer, service factor 1.2
Arm length (L)	9.8 to 23.3 ft [3 to 7m] <i>Increments of 1.63 ft [0.5m]</i>
Operating temperature	-4°F to 122°F (-20°C to 50°C)
Relative Humidity	95% without condensation
Wind resistance	74.6 mi/h [120 km/h]
Opening speed⁽²⁾	3.5 s
Closing speed⁽²⁾	5.5 s
Weight (without arm)	550 lbs (250 kg)
MCBF⁽³⁾	1,250,000 cycles <i>(with recommended maintenance)</i>

- (1) not to be connected to a floating network or to high impedance earthed industrial distribution network
 (2) adjustable through the control board
 (3) Mean Cycle Before Failure

Standard dimensions in inches [mm]

