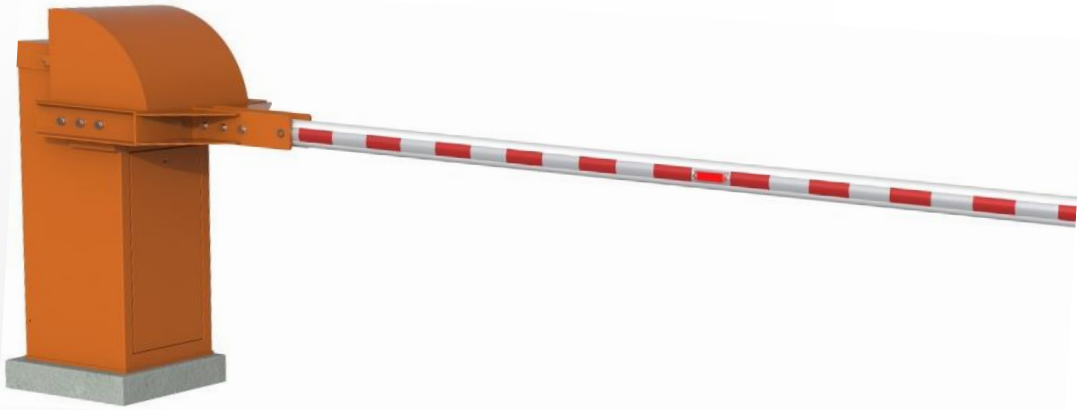

AUTOMATIC SYSTEMS

BL *41*
Parking Barrier Gate

The BL 41 barrier is a variant of the BL 40. Equipped with a central arm, it can support gate arms up to a length of 39 ft (12 m).

Common Applications:

- Perimeter access (Industrial, hospitals...)
- Traffic management

Options

1. *Automatic opening of the arm during power failure*
2. *Standard adjustable tip support*
3. *Electromagnetic tip support*
4. *Folding tip support*
5. *safety edge*
6. *STOP-sign with a diameter of 300 mm.*
7. *Traffic lights mounted on a post on housing*
8. *Traffic lights mounted on a standard 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. *AS1623 Input/Output extension board*
17. *AS1049 board for third-party traffic signs*
18. *Thermostatic 400W heating for operation down to -49 degree F*
19. *Red arm light*
20. *Raised base*
21. *Isolation anti-corrosion base*
22. *Other RAL colors available*
23. *Double tension cable to brace longer arm lengths that remain in open position at rest.*
24. *Smart Touch monitoring and control panel*

CALL US NOW 888•552•9046 ag.inc 125 E. Stansifer Ave Clarksville, IN 47129

Description

1. **Operator Cabinet** made of folded and welded sheet metal, ranging from 1/8" to 5/16" [3 to 8 mm] thick.
2. **Removable side and front panels** with peripheral sealing joint and lock, ensuring easy access to the mechanism (see illustration).
3. **Removable top cover** (lockable by key).
4. **Round, central aluminum arm**, white lacquered with red reflective stripes. The arm is composed of segments of 3.93"-3.52"-3.29" [100-90-84 mm] in diameter that fit together to obtain lengths from 20' [6m] up to 39.4' [12m]. The arm is braced by galvanized steel cables for lengths of 23.1' [7m] and longer.
5. **Solid drive shaft for the arm**, with a diameter of 2" [50 mm], mounted on 2 lubricated for life bearings.
6. **Electromechanical 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
     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 the progressive acceleration and controlled decelerations of the arm, for a vibration-free movement and enhanced 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.
   - springs, depending on the weight of the arm.
7. **Configurable AS1620 electronic control board** allowing for various control options and/or additional accessories. Among the features of the logic:
   - IP addressable
   - Configurable relays allowing the communication of different barrier status through dry contact.
   - Master-slave command allowing the control of 2 barriers facing each other (movement of one barrier controlled by the other barrier.
8. **Protective hood** to prevent entrapment according to UL325.

STANDARD TECHNICAL CHARACTERISTICS

Input power[1]	120 VAC / 60 Hz (with ground)
Consumption	450 W (nominal) - 850 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)	19.7 to 39.4 ft [6 to 12m] *Increments of 1.63 ft [0.5m]*
Operating temperature	14°F to 122°F (-10°C to 50°C)
Relative Humidity	95% without condensation
Wind resistance	74.6 mi/h [120 km/h]
Opening speed[2]	5.5 s
Closing speed[2]	5.5 s
Weight (without arm)	506 lbs (230 kg)
Weight arm[3]	24.2 to 66 lbs (11 to 30 kg)
MCBF[4]	3,000,000 cycles *(with recommended maintenance)*

(1) not to be connected to a floating network or to high impedance earthed industrial distribution network
(2) adjustable through the control board
(3) Depending on length and without options.
(4) Mean Cycle Before Failure

STANDARD DIMENSIONS (INCHES & MM)

Refer to the installation drawing for more details.