

DESCRIPTION

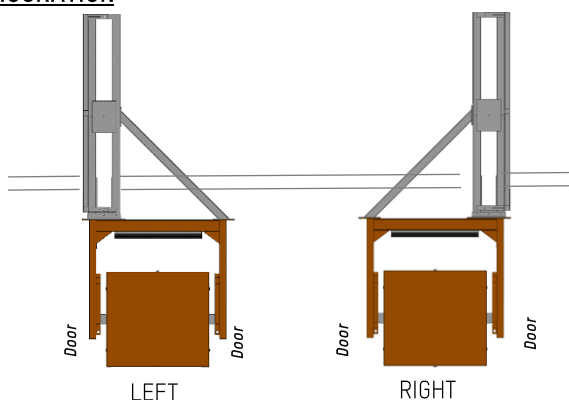
The BLG77 Barrier Fence Operator is designed and manufactured by Automatic Systems. The BLG77 is a unique barrier that effectively prevents unauthorized vehicles and pedestrians from gaining access. The BLG77 is typically used in applications with medium to lite traffic volume and single lane access point management. The electro-magnetic tip support generates 200 kg (441 Lbs) of holding force.

The BLG77 is most often used for asset protection in facilities that utilize full perimeter barrier protection. It is offered with barrier arms up to 20'10" (6.35m) and can fully open in 10 seconds.

SAFETY

- Completed Cycle Locking: Obstacle mechanically locked in the fully open (vertical) and closed (horizontal) positions.
- HD Clutch: Torque limiter (Heavy-duty), which protects the electromechanical drive system.
- Emergency Crank with safety circuit.
- Power Failure: System will shut off and the gate will remain in the same position dependent on the adjustment of the clutch and the position of the gate at the time of power failure. It may continue to move slowly for a few seconds.
- Entrapment protection devices as per UL325 and CSA C22.2#247 standard to ensure users safety.

CONFIGURATION



1. **Cabinet** made of a strong welded steel frame up to 3/4" [19mm] covered with 14 gauge (2mm) sheet metal.
2. **Removable doors** provide easy access to the mechanism (locked by key).
3. **Upper cover** is 14 gauge (2mm) thick, folded, and welded sheets steel, security locked.
4. **Rigid fence** made of an aluminum welded frame and modular 9 gauge aluminum chain link panels.
5. **Electromechanical assembly includes:**
 - Instant-reversing 3/4 HP [559W] motor,
 - Speed reduction gearbox, with worm screw type mechanism.
 - Balancing achieved by means of integrated adjustable compression springs (2).
 - Crankshaft/rod device with steel abutments.
 - Analog sensor combined with speed controller allowing a smooth movement of the barrier and progressive acceleration and deceleration.
 - Safety torque limiter with adjustable friction disks.
 - Transmission between motor and gearbox, by V-belt and pulleys.
6. **Manual crank door** with safety switch for manual operation of the barrier in the event of a power failure.
7. **Tip support:** Electromagnetically locking tip support.
8. **Audible Alarm** activated during fence movement.
9. **AS1620 control board platform** enabling various commands and/or accessory options
 - Overload protection
 - Terminal blocks for loop detectors relays, and options.
 - Output dry contact for information on the barrier or to command other equipment.
 - Status of the barrier's position (open or closed),
 - Status of the presence detectors,
 - Command for master-slave barriers (movement of one barrier controlled by the other barrier)
 - AS1622 Ethernet connectivity extension board
 - AS1623 input/output extension board.
 - UL325 and CSA C22.2#247 entrapment monitoring and control circuits.
10. **Entrapment protections** mandatory to achieve ETL certification as per UL325 and CSA C22.2#247 standards.

SURFACE TREATMENT

- Zinc-coated internal mechanical parts.
- Complete body (housing, base plate, cover and doors): A 4000 hour salt spray resistant primer followed by an AS RAL2000 orange powder paint coat.

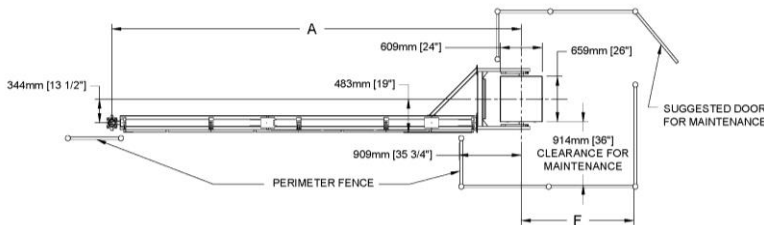
STANDARD TECHNICAL CHARACTERISTICS

Input power ⁽¹⁾	240 VAC / 60 Hz (with ground)
Consumption	659 W (nominal) – 1459 W (max. with largest heater)
Motor	¾ HP [559 W] controlled by frequency inverter
Transmission	Reversible gear box 1:100 ratio
Fence dimensions	See tables – ref B and C
Free Passage	See tables – ref L
Operating temperature	14°F to 122°F [-10°C to 50°C] <i>(Without optional heater)</i>
Relative humidity	95% without condensation
Opening speed	10 seconds
Closing speed	10 seconds
Weight (without fence)	1400 lbs [640kg]
MCBF ⁽²⁾	750 000 cycles at 100 cycles/hour and 1000 cycles/day rates. <i>(with recommended maintenance)</i>
Certifications	- ETL Listed as per UL325 and CSA 22.2#247

- (1) Not to be connected to a floating network or to a high impedance earthed industrial distribution network
(2) Mean Cycle Before Failure

STANDARD DIMENSIONS (INCHES & MM)

Refer to the installation drawing.



OPTIONS

1. Standard adjustable tip support.
2. Fence support leg install on the fence.
3. STOP sign with a diameter of 300 mm.
4. Traffic lights mounted on a standalone post.
5. Push-button box.
6. Key switch
7. Remote transmitter/receiver.
8. Detection inductive loop.
9. Presence detector for detection inductive loops.
10. Photoelectric cell to open, close or automatically stop the barrier arm.
11. Photocell support post
12. AS1049 board to enable connections with different third-party traffic signs.
13. Thermostatic heating for operation to -49°F [-45°C]
14. Red light on fence.
15. Raised base.
16. Other RAL colors available.
17. Master/slave configuration with interlock systems
18. Power supply 208V 3 phases.
19. 120V-15A power outlet

Note: Adding optional attachments to the Barrier fence increases weight, therefore decreasing the MCBF and can cause damages.

For restrictions on options please speak to your sales representative.

	BLG77L	BLG77H	BLG77 M	BLG77HL
L	241 3/8" [6131mm]	191 3/8" [4861mm]	192 3/8" [4861mm]	241 3/8" [6131mm]
A	283 7/8" [7210mm]	233 7/8" [5940mm]	233 7/8" [5940mm]	283 7/8" [7210mm]
B	84 1/8" [2137mm]	132 1/8" [3356mm]	84 1/8" [2137mm]	108 1/8" [2746mm]
C	250" [6350mm]	200" [5080mm]	200" [5080mm]	250" [6350mm]
D	325" [8255mm]	275" [6985mm]	275" [6985mm]	325" [8255mm]
E	88 1/8" [2238mm]	136 1/8" [3458mm]	88 1/8" [2238mm]	112 1/8" [2848mm]
F	64 3/8" [2854mm]	112 3/8" [1635mm]	64 3/8" [2854mm]	88 3/8" [2245mm]

