



The BLG77 Barrier Fence is a unique barrier design that effectively prevents both vehicles and pedestrians from unauthorized access. The BLG77 is typically used for medium to low traffic volume and single lane access point management.

It is most often used for asset protection in facilities that utilize full perimeter barrier protection. The BLG77 is capable of using barrier arms up to 6.35m and can fully open in 7 to 10 seconds.

Safety

- Completed Cycle Locking: Barrier arm mechanically locked in the fully completed 90° vertical up position, and in the completed horizontal down position.
- 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 should stay in its current 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.

Anti-corrosion protection and paint work

Internal mechanical parts

Protected by electroplated zinc.

Cabinet housing

Housing finish is made of two layers. First one is a coat of a rich zinc epoxy primer. The second one is a coat of polyester powder structured coat with orange RAL 2000 as the standard color. This protection ensures resistance to the most severe environmental conditions.

Description

1. Cabinet housing made of a strong welded steel frame up to 2 mm.
2. Upper cover is 2mm thick, folded, and welded sheets steel, security locked.
3. Keyed-lock safety access doors.
4. Rigid fence made of an aluminum welded frame and modular panels. The panels are made of aluminum frames that hold the aluminium chain link mesh.
5. Barrier fence is attached to a rotating shaft mounted on twin ball bearings.
6. Barrier arm balancing achieved by means of integrated adjustable compression springs.
7. Electromechanical unit includes:
 - 3 phases instant-reversing 500 W motor,
 - Speed reduction gearbox, with worm screw type mechanism.
 - 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.
8. Integrated heater for low temperatures.
9. Emergency crank with safety circuit breaker for manual operation of the barrier in the event of a power failure.
10. Tip support: Electromagnetically locking tip support.
11. AS1320 control board enabling various commands and/or accessory options
 - Possibility of 2 built in vehicle detectors (single or double allowing 4 detectors).
 - Overload protection
 - Terminal blocks for motor, detectors relays, and options.
 - Output dry contact for information on the barrier or to command other equipments.
 - 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).

Technical characteristics

- Barrier arm length: 3 options available
 - BLG 77 H: 5.08m length by 3m height (without barb wire).
 - BLG 77 M: 5.08m length by 1.8m height (without barb wire).
 - BLG 77 L: 6.35m length by 1.8m height (without barb wire).
- Opening time: 7 to 10 seconds.
- Electromechanically locking tip support. (See Tip Support data sheet).
- Motor: 500 W Three phase.
- Power supply: 240V AC single phase for the main supply (do not connect to a floating network or to high impedance earthed industrial distribution network).
- Frequency: 60 Hz.
- The barrier, even if opened, will resist to wind of 120km/h.
- Heavy-duty Clutch.
- Strip heater to warm the gearbox.
- Gearbox type: reduction ratio: 100:1.
- Net weight: 640 kg with barrier fence.
- Operation temperatures: -25°C to +50°C.
- Mechanical endurance (MCBF) with recommended preventive maintenance: 750 000 cycles at a rate of 100 complete cycles/hrs max with a maximum of 1000 complete cycles per day_g

Options

- Fence with impact detection (mounted on lead bottom edge of fence).
- Barrier fence LED lighting (available depending of length).
- STOP traffic sign, Ø 400 mm.
- Key switch on housing to open the gate.
- Command by radio transmitter/receiver.
- Traffic lights (LED).
- Push button(s) box.
- Inductive loops for cars or trucks detection.
- Presence detector for inductive loops.
- Photo electric cell (automatic opening, closing after passage, safety).
- Cell support post.
- Electronic board for Input/Output extension (CAN).
- Heating resistance, for operation down to -45°C.

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

Work to be provided by the customer

Note: conform to installation drawing.

- Anchoring to the concrete base (fixation means not supplied, except positioning template).
- Power supply.

Standard dimensions (mm)			
	BLG 77 H	BLG 77 M	BLG 77 L
L	4878	4878	6148
A	5884	5884	7154
B	3356	2137	2137
C	5080	5080	6350
D	6913	6913	8183
E	3458	2238	2238

