

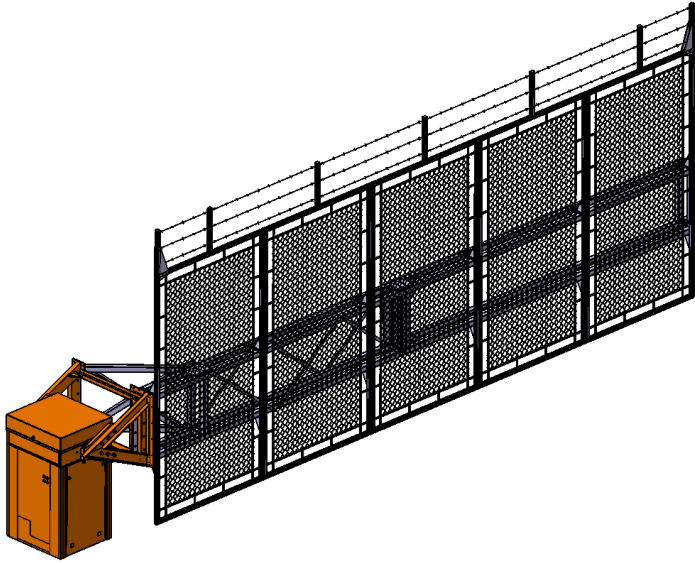
BLG 77

Technical datasheet

BLG 77-FT-EN-09

AS **AUTOMATIC**
SYSTEMS

Access controlled...
Future secured



The **BLG 77** Barrier Fence is a unique barrier design that effectively prevents both vehicles and pedestrians from unauthorized access. The **BLG 77** 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 **BLG 77** 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*).

STANDARD TECHNICAL CHARACTERISTICS

- Barrier arm length: 4 options available:
 - **BLG 77 H:** 5,080 m length by 3,356 m height.
 - **BLG 77 M:** 5,080 m length by 2,137 m height.
 - **BLG 77 L:** 6,350 m length by 2,137 m height.
 - **BLG 77 HL:** 6,350 m length by 2,746 m height.
- Opening time: 7 to 10 seconds.
- Electromechanically locking tip support. (See Tip Support data sheet).
- Motor: 500 W Three phase.
- Power supply: 240 VAC single phase for the main supply *(Do not connect to a floating network or to high impedance earthed industrial distribution network).*
- Frequency: 50 Hz.
- The barrier, even if opened, will resist to wind of 120 km/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.

OPTIONS

1. Fence with impact detection *(mounted on lead bottom edge of fence).*
2. Push button(s) box.
3. Key switch on housing to open the gate.
4. Command by radio transmitter/receiver.
5. Inductive loops for cars or trucks detection.
6. Presence detector for inductive loops.
7. Photo electric cell *(automatic opening, closing after passage, safety).*
8. Cell support post.
9. Electronic board for Input/Output extension (CAN).
10. Barrier fence Leds lighting (available depending of length).
11. Traffic lights (Leds).
12. STOP traffic sign, Ø 400 mm.

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

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

Note: Conform to installation drawing.

STANDARD DIMENSIONS (MM)

	BLG 77 L	BLG 77 H	BLG 77 M	BLG 77 HL
L	6148	4878	4878	6148
A	7154	5884	5884	7154
B	2137	3356	2137	2746
C	6350	5080	5080	6350
D	8183	6913	6913	8183
E	2238	3458	2238	2848

