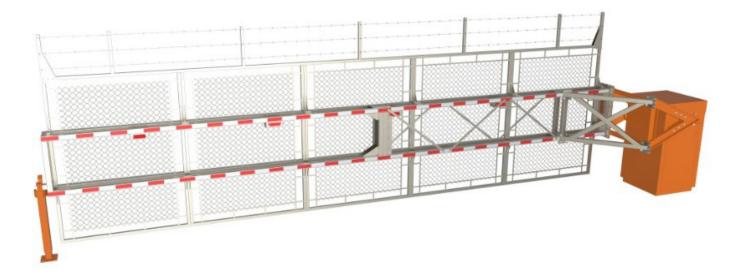
BLG 77

Technical datasheet

Rev. 13 • Update 04/2025





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.

The use of the electromagnetic tip support to hold the end of the arm further enhances pedestrian control by eliminating any possibility of manually opening the barrier.

It is most often used for asset protection in facilities that utilize full perimeter barrier protection.

The **BLG 77** is capable of supporting a structure up to 6.35 m and can fully open in 10 seconds.

DESCRIPTION

- 1. Cabinet housing made of a strong welded steel frame up to 19 mm. The structure is covered by a steel sheet of 2 mm thick.
- 2. Upper cover is 2 mm 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 two bearings.
- 6. Barrier arm balancing achieved by means of integrated adjustable compression springs.
- 7. Electromechanical unit includes:
 - 3 phases instant-reversing 560 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,

- Positions detection insured by analog sensors,
- Transmission between motor and gearbox, by V-belt and pulleys.
- 8. Integrated heater (200 W) for low temperatures, until -25 °C.
- 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. 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

Power supply	230 VAC single phase			
Barrier arm length	BLG 77 H	BLG 77 M	BLG 77 L	BLG 77 HL
	L = 5.080 m H = 3.356 m	L = 5.080 m H = 2.137 m	L = 6.350 m H = 2.137 m	L = 6.350 m H = 2.746 m
Minimum opening/closing time	10 secondes			
Tip support	Electromagnetic locking tip support			
Motor	560 W Three phase			
Frequency	50 Hz			
Resistance of the barrier to wind (even if opened)	BLG 77 L & BLG 77 M		BLG 77 H & BLG 77 HL	
	120 km/h		100 km/h	
Strip heater to warm the gearbox	200 W			
Gearbox type	Reduction ratio: 100:1			
Net weight	640 kg (with barrier fence)			
Ambient operating temperature	-25°C to +50°C			
Clutch	Heavy-duty			
MCBF (Mean Cycle Between Failure) (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			
IP rating	IP44			
CE	Complies with European standards.			

(1) Do not connect to an isolated ground network or a high impedance earthed industrial network.

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: when the power supply is interrupted, 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.

WORK TO BE PROVIDED BY THE CUSTOMER

- Adapted ground fastening
- Power supply
- Wiring towards eventual external peripherals

Note: Follow the installation plan.



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 priming paint with a resistance of 4,000 hours to salin mist.

The second one is a coat of polyester powder structured coat. This protection ensures resistance to the most severe environmental conditions.

STANDARD RAL COLOURS



(*) Standard color.

All other colors must be specified when ordering.

Note: These RAL references are available for free.

OPTIONS

ARMS

- Safety edge under arm (for BLG77H or M).
- Safety edge under arm (for BLG77L or HL).

CONTROL & COMMAND

- Push button box 2 buttons (opening / closing).
- Push button box 3 buttons (opening / closing / stop).
- Push button box 2 push buttons + 1 switch (3 positions). [1]
- Key switch on the housing. (2)
- Radio transmitter / receiver 2 channels.
- Inductive loop for detection Car.
- Inductive loop for detection in a PVC sleeve
- Presence sensor on rail Single channel or Double channel.
- Photo-electric cell Transmitter / Receiver.
- Support post for photo-electric cell (H = 0,713 m).
- Human Machine Interface colour screen with keypad for AS1620 logic board (AS1621).
- Ethernet interface (AS1622).
- SD memory card for AS1620 Ethernet board.
- Input / output (I/O) extention card for AS1620 logic board (AS1623).

SIGNALISATION

- LEDs on arm Per pair (Flashing lights (red) when closed).
- Traffic lights (Ø 200mm) Red/green LEDs Supply.
- Aluminum traffic sign (Ø 400mm).

ENVIRONMENT

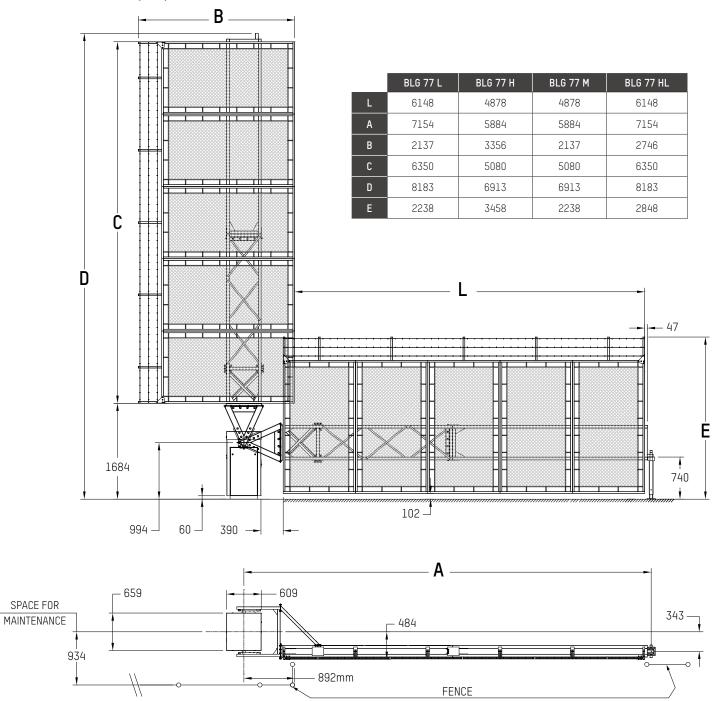
• Thermostatic heating - Heating for operation until -45° C.

Note: For restrictions on options, please contact us.

- ⁽¹⁾ Opening / Closing / In auto mode or in manual mode.
- (2) Automatic / Locked open / Locked closed.



STANDARD DIMENSIONS (MM)





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