BL43

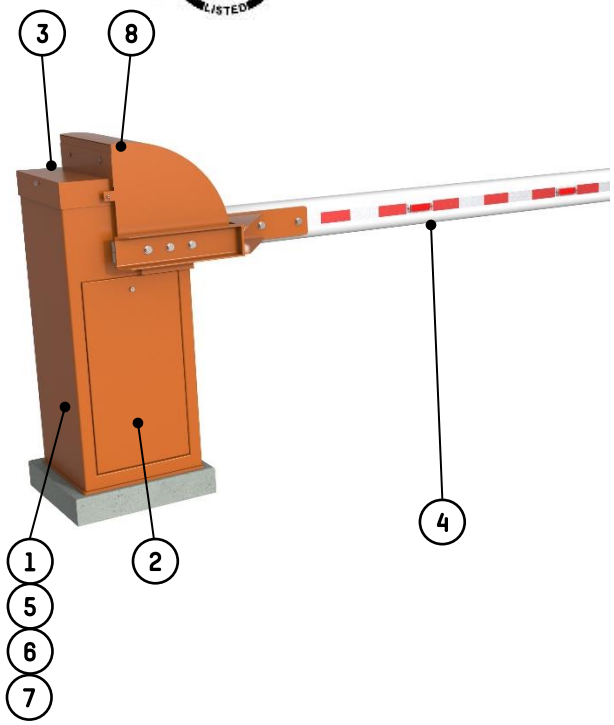
Technical datasheet

NAM-BL 43-FT-EN-E

AUTOMATIC SYSTEMS

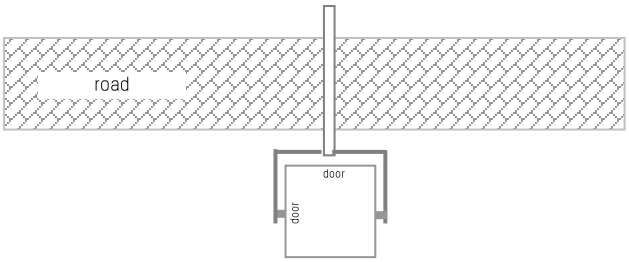
Access controlled...
Future secured

ETL LISTED No 1010090008MTL-003
ACCORDING TO UL325 AND CSA C22.2#247



Rapid rising barrier, short to medium range with **reinforced oval arm**, for installation on public roads: parking, traffic management, etc.

Configurations



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. Weather resistant**, removable top cover** (lockable by key).
4. **Central oval aluminium reinforced arm** measuring 6.89" x 3.93" [175 x 100 mm], white lacquered with red reflective stripes.
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 transmission via gearwheel and sprocket wheel. 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 progressive accelerations and controlled decelerations, for a vibration-free movement enhanced protection of the mechanism.
   - Electronic torque limitation ensures an immediate stoppage of the arm during closing (in the event of an obstacle).
   - Inductive limit switches.
   - Balancing of the arm by means of one or more compression 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.

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SURFACE TREATMENT

- Zinc-coated internal mechanical parts.
- Complete body (housing, cover and doors): corrosion resistant primer + powder coat paint (standard color: Orange RAL 2000)

STANDARD TECHNICAL CHARACTERISTICS

Input power[1]	120 VAC / 60 Hz (with ground)
Consumption	450 W (nominal) - 950 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)	6.6 to 19.7 ft [2 to 6m] *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)	550 lbs (250 kg)
Poids de la lisse	11 à 37 kg [24,2 à 81,4 lbs]
MCBF[3]	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) Mean Cycle Before Failure

OPTIONS

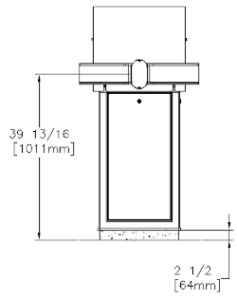
1. Automatic opening of the arm during power failure [a].
2. Standard adjustable tip support.
3. Electromagnetic tip support.
4. Folding tip support
5. Safety edge.
6. STOP sign with a diameter of 300 mm.
7. Traffic lights on a post mounted on housing. [c]
8. Traffic lights mounted on a standalone post.
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 CAN.
17. AS1049 board for third-party traffic signs.
18. Thermostatic 400W heating for operation down to -49°F [-45°C]
19. Red arm light.
20. Raised base.
21. Rotating base.
22. Isolation anti-corrosion base.
23. Other RAL colors available
24. Smart Touch monitoring and control panel.

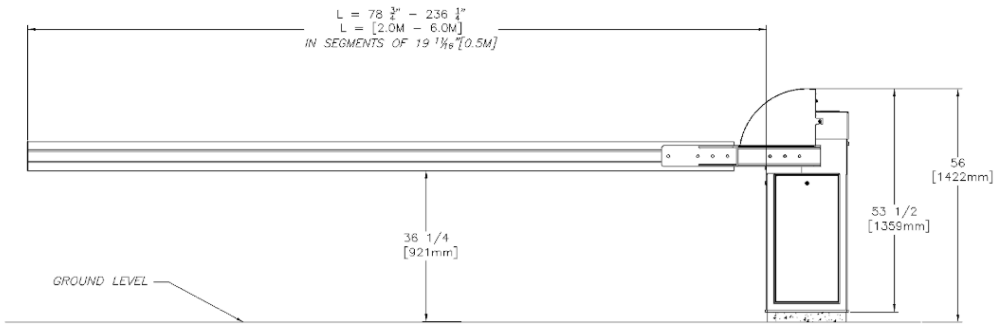
[a] [b] *Mutually incompatible options.*
[c] *When equipped with these options the barrier is not ETL listed.*

For restrictions on options please speak to your sales representative.

STANDARD DIMENSIONS (INCHES & MM)

Refer to the installation drawing for more details.





With a constant view to adopting the latest technological developments, Automatic Systems reserves the right to amend the above information at any time.