

# BL41

Technical datasheet

NAM-BL 41-FT-EN-D

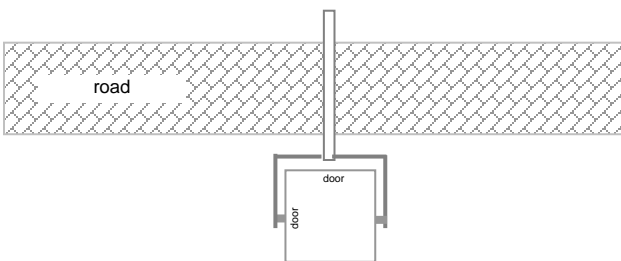
**AS** **AUTOMATIC**  
**SYSTEMS**

Access controlled...  
Future secured



Rapid industrial rising gate for vehicle access control at **very wide** access points: Industrial sites, traffic management, etc.

## Configuration



ETL Listed No. 3117963  
CONFORMS TO UL STD 325  
CERTIFIED TO CAN/USA STD C22.2  
NO.247

## 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. **Removable top cover** (lockable by key).
4. **Round, central aluminum arm**, white lacquered with red reflective stripes. The arm is composed of segments of 3.93"-3.52"-3.29" [100-90-84 mm] in diameter that fit together to obtain lengths from 20' [6m] up to 39.4' [12m]. The arm is braced by galvanized steel cables for lengths of 23.1' [7m] and longer.
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 the progressive acceleration and controlled decelerations of the arm, for a vibration-free movement and enhanced protection of the mechanism.
  - Electronic limitation of the electromechanical assembly torque allowing for the immediate stop 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 AS1320 electronic control board** allowing for various control options and/or additional accessories.
8. **Terminal block, located on the control board**, with the ability to communicate with external device:
  - Providing status of the arm position (open or closed)
  - Providing status of the presence detectors
  - Allowing for master-slave control of 2 barriers opposite each other (movement of one barrier controlled by the other barrier).

\* Applicable with option # 27 - UL kit

## ANTI-CORROSION TREATMENT

- Zinc-coated internal mechanical parts.
- Complete body (housing, cover and doors): 4000 hrs salt spray resistant primer + powder coat paint (standard color: Orange RAL 2000)

## STANDARD TECHNICAL CHARACTERISTICS

Input power <sup>(1)</sup>	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)	19.7 to 39.4 ft [6 to 12m] Increments of 1.63 ft [0.5m]
Operating temperature	-4°F to 122°F (-20°C to 50°C)
Relative Humidity	95% without condensation
Wind resistance	74.6 mi/h [120 km/h]
Opening speed <sup>(2)</sup>	3.5 s
Closing speed <sup>(2)</sup>	5.5 s
Weight (without arm)	506 lbs (230 kg)
Weight arm <sup>(3)</sup>	24.2 to 66 lbs (11 to 30 kg)
MCBF <sup>(4)</sup>	1,250,000 cycles (with recommended maintenance)

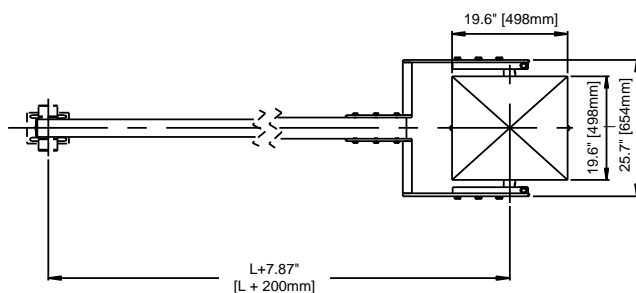
(1) not to be connected to a floating network or to high impedance earthed industrial distribution network

(2) adjustable through the control board

(3) Depending on length and without options.

(4) Mean Cycle Before Failure

## STANDARD DIMENSIONS (INCHES & MM)



## OPTIONS

1. Automatic opening of the arm during power failure <sup>(a)</sup>.
2. Mechanical locking of the arm in opened and/or closed position upon power failure <sup>(b)</sup>.  
The behavior desired in case of power failure (locked or not) must be specified at time of order.
3. Standard adjustable tip support.
4. Electromagnetic tip support.
5. Folding tip support.
6. Safety edge.
7. STOP sign with a diameter of 300 mm.
8. Traffic lights mounted on a post on housing. <sup>(c)</sup>
9. Traffic lights mounted on a standalone post.
10. Push-button box.
11. Key switch
12. Radio transmitter/receiver.
13. Detection loop.
14. Presence detector for inductive loops.
15. Photoelectric cell to open, close or automatically stop the barrier arm
16. Photoelectric cell support post
17. AS1321 Input/Output extension board.
18. AS1049 board for third-party traffic signs.
19. Thermostatic 250W heating for operation to -13°F [-25°C]
20. Thermostatic 500W heating for operation to -49°F [-45°C]
21. Red arm light.
22. Raised base.
23. Rotating base.
24. Isolation anti-corrosion base.
25. Other RAL colors available.
26. Double stretcher to prevent deformation of longer arm lengths that remain in open position at rest.
27. UL kit.

(a) (b) *Mutually incompatible options if locked in closed position.*

(c) *When equipped with these options the barrier is not ETL listed.*

For restrictions on options please speak to your sales representative.

Refer to the installation drawing for more details.

