

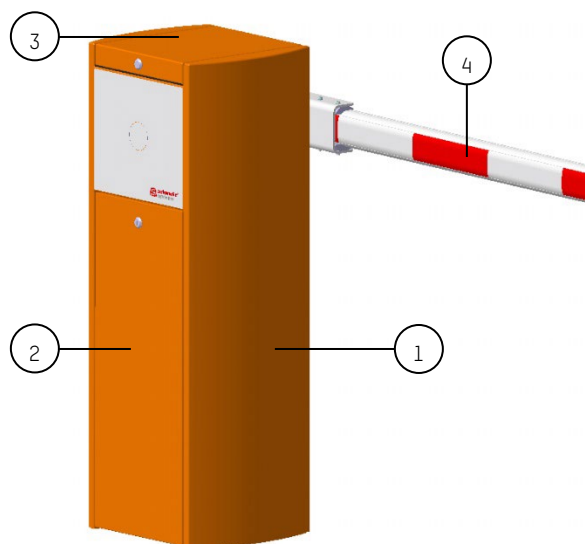
BL 229 TOLL

Technical Datasheet

NAM-BL 229 Toll-FT-EN-H

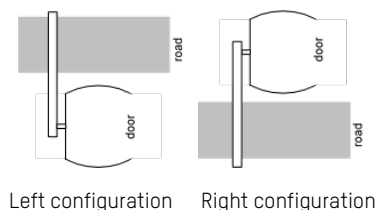
AUTOMATIC
SYSTEMS

Access controlled...
Future secured



Electric high performance and high speed barrier gate, for motorway tolls.

Configurations

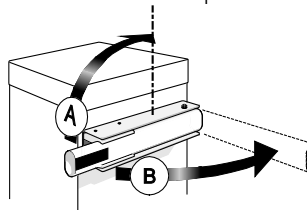


Left configuration

Right configuration

DESCRIPTION

1. **Barrier gate enclosure** made of folded and welded sheet steel, from 14 ga [2mm] to ¼ in [6.35mm] thick. It consist of a housing, a cover and a side access panel.
2. **Side access panel** provides access to the mechanism, locked by key.
3. **Weather-resistant, removable cover**, locked by key.
4. **Oval shaped aluminum barrier gate arm**, painted white with red and white reflecting stripes and end plug. Oval cross section dimension 3.2 x 2.1 in [80 x 53mm].
5. **Barrier gate arm breakaway device** to prevent damage to the barrier in case of impact with the arm.



A: normal movement
B: in case of impact, the arm swings in the passage direction

6. **Shaft-mounted on two life-lubricated ball bearings.**
7. **Spring-balanced arm.**
8. **Electro-mechanical assembly including:**
 - An asynchronous three-phase geared motor.
 - Mechanical locking of the arm in end positions ensured by crankshaft-rod device
 - Automatic barrier unlocking device in case of power failure.
 - Frequency converter ensuring progressive accelerations and controlled decelerations, for a vibration-free movement and enhanced protection of the mechanism.
 - Position detection by inductive analog sensors.
9. **Lever for manual unlocking** in case of power failure (if not configured with automatic unlocking).
10. **AS1620 control board** enabling various commands and/or optional accessories.
11. **Parameter information contacts:**
 - Status of the barrier gate arm's position (open or closed),
 - Status of the presence on loop detectors,
 - Command for master-slave barrier gates (movement of one barrier gate controlled by the other one),
12. **Fixing frame with anchors** to be casted in the concrete base provided with the equipment.



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

SURFACE TREATMENT

- Zinc-coated internal mechanical parts.
- Complete gate operator enclosure (housing, cover and side access panel): cataphoresis treatment consisting of a primer coat + a powder paint coat (standard color: Orange RAL 2000)

STANDARD TECHNICAL CHARACTERISTICS

<i>Input power⁽¹⁾</i>	120 VAC / 60 Hz (with ground)
<i>Consumption</i>	- 50 W at rest without options - 255 W in operation without options
<i>Motor</i>	Three-phase 240 V / 1/3 HP [250 W] controlled by frequency inverter
Transmission	Life-lubricated worm-screw speed reduction unit.
Arm length (L)	10ft [3.05m]
Operating temperature	14°F to 122°F (-10°C to 50°C)
Relative Humidity	95% without condensation
Wind resistance	50 mi/h [80.5 km/h]
Opening speed ⁽²⁾	0.6 to 1.7 sec
Closing speed ⁽²⁾	1 to 2 sec
Weight (without arm)	190 lbs (87 kg)
Weight arm	7.5 lbs (3.4 kg)
IP rating	54
MCBF ⁽³⁾	10,000,000 cycles (with recommended maintenance)

(1) Must be properly grounded per installation specifications.

(2) Adjustable through the control board, depending on the arm length.

(3) Mean Cycle Between Failures.

(4) Certain options may not be compatible with others or might be subject to limitations. Consult the products limit of use guidelines.

OPTIONS

1. Push button(s) box
2. Key switch on housing.
3. Remote control
4. Photoelectric cell (reopening of the arm).
5. Support post for photoelectric cell.
6. Photocell fixed on housing.
7. Inductive loops for cars or trucks detection.
8. Loop detector
9. Gate arm breakaway detection device.
10. Standard tip support
11. Electromagnetic tip support ⁽⁴⁾
12. Arm lighting
13. Traffic light on a post
14. Custom color.
15. Raised base.
16. 400 W heater for operations as low as -49°F (-45°C)
17. Double limit switches for discrete open and close input.



For restrictions on options please speak to your sales representative.



Refer to the installation drawing.

Standard dimensions in inches [mm]

