

BL229-TOLL

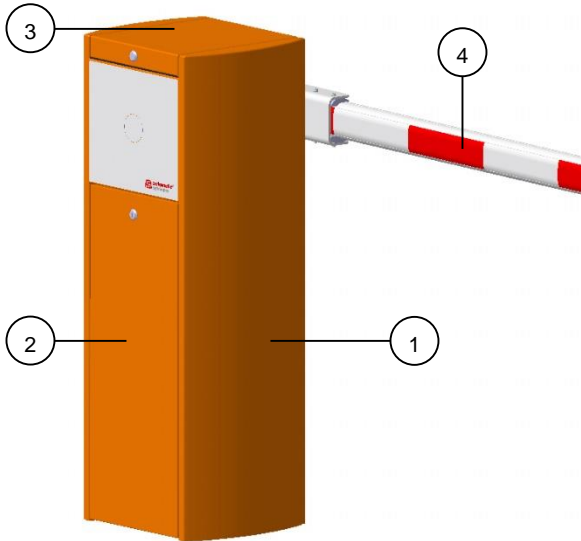
AS **AUTOMATIC**
SYSTEMS

Technical datasheet

NAM-BL 229-TOLL-FT-EN-C

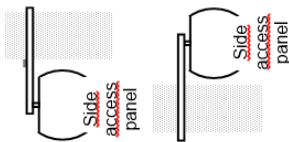
Access controlled...
Future secured

DESCRIPTION



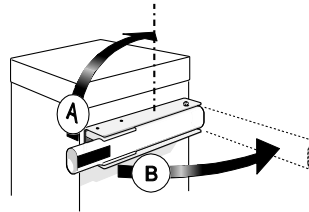
High performance and high speed electric barrier gate, for motorway tolls.

Configurations



Left configuration Right configuration

- Barrier gate enclosure made of folded and welded sheet steel**, from 14 ga [2mm] to ¼ in [6.35mm] thick. It consists of a housing, a cover and a side access panel.
- Side access panel provides access to the mechanism**, lockable by key.
- Weather-resistant, removable cover, lockable by key.**
- 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].
- 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

- Shaft-mounted on two life-lubricated ball bearings.**
- Spring-balanced arm.**
- Electro-mechanical assembly including:**
 - An asynchronous three-phase geared motor.
 - Mechanical locking of the arm in end position 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.
 - Gate arm position detection by inductive analog sensor.
- Lever for manual unlocking** in case of power failure (if not configured with automatic unlocking).
- AS1320 control board** enabling various commands and/or optional accessories.
- 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)
- Fixing frame with anchors** provided with the equipment to be embedded within the concrete base provided by the customer.



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

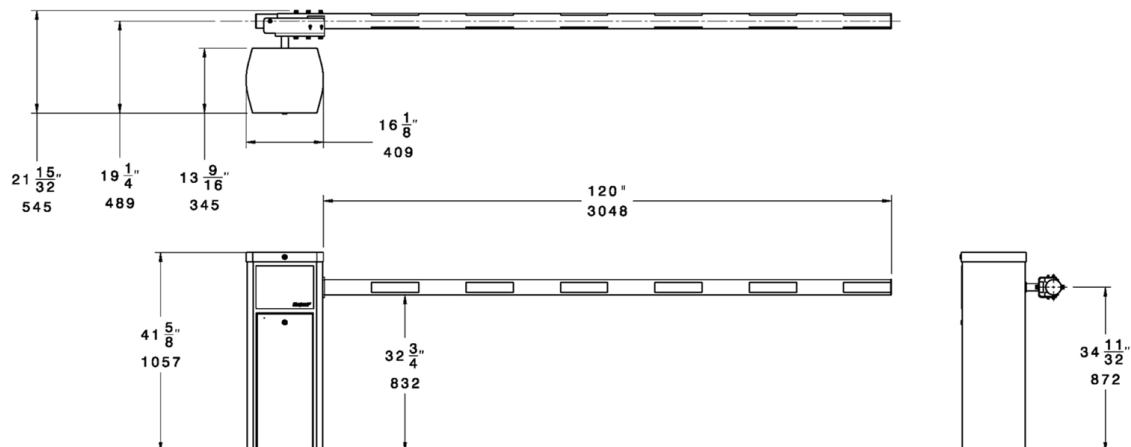
Input power⁽¹⁾	120 VAC / 60 Hz (with ground)
Consumption	- 50 W at rest without options - 255 W in operation without options
Motor	Three-phase 240 V / 1/3 HP [250 W] controlled by frequency inverter
Transmission	Life-lubricated worm-screw speed reduction unit.
Arm length (L)	10 ft [3.05m]
Operating temperature	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 <i>(with recommended maintenance)</i>

(1) Must be properly grounded per installation specifications.

(2) Adjustable through the control board


(3) Mean Cycles Between Failure


STANDARD DIMENSIONS (INCHES & MM)



OPTIONS

1. Push button(s) box
2. Key switch on housing.
3. Photoelectric cell (reopening of the arm).
4. Support post for photoelectric cell.
5. Photoelectric cell fixed on housing.
6. Inductive loops for detection of cars or trucks.
7. Loop detector
8. Gate arm breakaway detection device.
9. Protecta arm made of carbon fiber with a weatherproof protected polystyrene cushion
10. Custom color.
11. Raised base.
12. 50 W heater for operations as low as -4°F (-20°C)
13. 400 W heater for operations as low as -49°F (-45°C)
14. I/O extension board AS1321
15. Traffic light mounted on a post attached to the housing
16. Traffic light mounted on a standalone post
17. Traffic light management board for third party traffic signs

 For restrictions on options please speak to your sales representative.

 Refer to the installation drawing.