

TRS 372

Datasheet

NAM-TRS 372-FT-EN-C

AUTOMATIC
SYSTEMS

Access controlled...
Future secured



With secure, simple and efficient equipment that guarantees intensive and extended operation even under severe conditions, the TRS bi-directional security turnstile has a sturdy and anti-climbing structure to guarantee single-user throughput.


- Safe, simple, and effective equipment allowing for intensive, prolonged use
- Automatic access control enables single passage without the need for a supervisor, reducing security costs
- Long term investment based on exceptional durability
- Dual passage model with independent mechanics for additional flexibility and the option of an independent corridor during maintenance

Applications: Industrial and building sites, administrative buildings, schools, and hospitals, stadium and sports complexes, amusement parks, ports, airports and military bases.

DESCRIPTION

1. **3-arm mobile obstacle.** Each arm is a comb. Arms are positioned 120° from one another. The comb is made of steel tubes welded to uprights. All three arms are attached to the upper rotating part and to the lower central wheel disc.
2. **Fixed obstacle** limiting passage to half of the turnstile, consisting of steel tubes bolted to the uprights of the fixed panel (3).
3. **Fixed panel** limiting passage, consisting of vertical tubular steel profiles (rectangular and round), welded to a curved plate. This structure also supports the upper box section (4).
4. **Top section** holding the driving mechanism and the control board, in sheet steel, with a double access door secured by key. Diamond point roof for water evacuation.
5. **Driving mechanism**, located in the top section, consisting of:
 - Tension springs to stabilize the mobile obstacles when in the standby position.
 - Hydraulic damper slows the movement at the end of each cycle.
 - Mechanism preventing the return of the obstacles once a 60° rotation has been completed, prevents passage fraud from the opposite direction.
 - Electromagnet(s) and cams ensuring mechanical locking of the obstacles when in standby position.
6. **AS 1300 Control board** located in the top section (4). The main functionalities are :
 - Parameters are set using an integrated keyboard and LCD screen, or a Modbus link with remote control.
 - Connection block for various commands (readers, unlocking ...) and recovery of information (position, counting ...).
 - Configuration of operating mode.
 - Management of timer settings.
 - Memorization of passage requests.
7. Orientation **pictograms** on the top section.
8. Passageway **lighting** on the top section.
9. **Dust-free seal** between the central axis of the obstacle and the top section.
10. Automatic Systems supplies the necked-down bolts required to affix the equipment to concrete flooring.

GENERAL SPECIFICATIONS

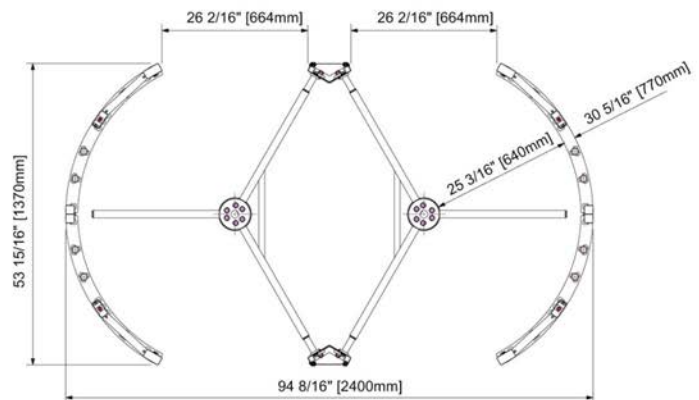
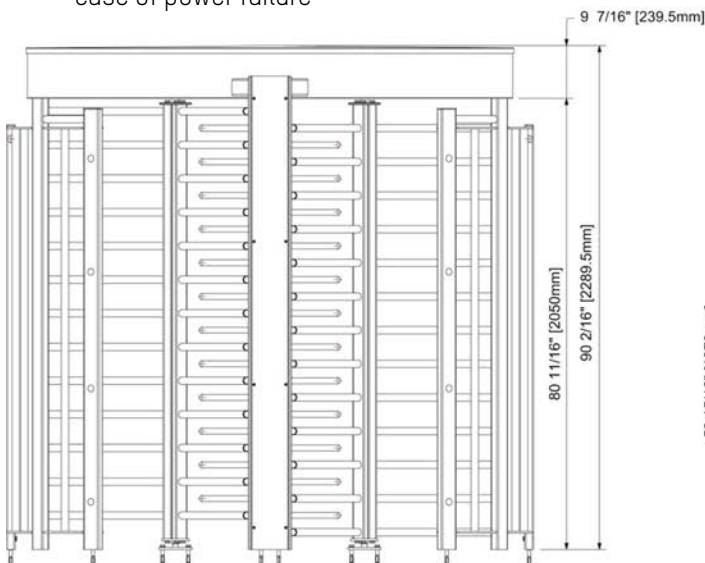
Input power	120 VAC/60 Hz (with ground)
Consumption	70 W (nominal) per lane
Maximum relative humidity	95 %, without condensation
Operating temperature (without optional heater)	14 °F to 122 °F [-10 °C to 50 °C]
Maximum throughput ⁽¹⁾	15 to 20 passages per minute
Weight	1359.6 lbs (618 kg)
Passage width	26 2/16 in (664 mm)
MCBF (Mean Cycle Between Failure)	1 000 000 cycles, with recommended maintenance
MTRR (Mean Time To Repair)	20 minutes
Certification	 ETL listed no 3117963 Conform to UL std 325 Certified to CAN/USA std C22.2 NO 247

(1) Best conditions; depends on validation speed of the access control system

OPERATING MODES

For each passage direction, there are three operation modes

1. Free access (mobile obstacles rotate freely)
2. Locked
3. Controlled
 - a. Default setting: unlocked in case of power failure
 - b. Optional setting: locked mechanically in case of power failure



SURFACE TRAITEMENT

- Galvanized mechanical parts.
- Body:
 - Galvanized: mobile obstacle (1), fixed obstacle (2), fixed panel (3) and uprights (3).
 - Treated by electrophoresis: Upper box section (4).
 - Finish: 2 coats RAL7038 light gray paint.

OPTIONS AND ACCESSORIES

- Mobile obstacle made of AISI 304 stainless steel.
- Climb proof canopy.
- Heel protector on the mobile arm tubes nearest to the ground.
- Fixing frame to be embedded in a concrete slab.
- 120 V – 550 W heater for operation at -31°F [-35°C].
- Contact mat for single user passage.
- Card reader installation on uprights.

WORK TO BE PROVIDED BY OTHERS

- Performing electrical interconnection and connections to the power grid
- Performing connections to the access control systems
- Anchoring the equipment with the appropriate hardware for your floor type

All work should be performed as per the implementation and interconnection diagrams provided.