



**MODEL LC 100**

**WAIST HIGH TURNSTILE**



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## MODEL LC 100

## WAIST HIGH TURNSTILE

### GENERAL DESCRIPTION

The LC 100 is our most versatile and affordable access control turnstile unit. This quality product with its eye-appealing design has many applications and is designed to interface with proximity card readers, bar code readers, coin and token acceptors or to be integrated within an existing security system.

The LC 100 can operate in either a fixed location or may be supplied as a portable unit, with base plate, integral wheels and guide rail.

The passage can be controlled in one direction or both directions. Alternatively, the turnstile may be free to rotate in both directions (this functionality is often used to simply count people passing).



**LC-100 Turnstile**

### MAIN FEATURES AND ADVANTAGES

- **Lo/No Maintenance** – the turnstile mechanism has been designed to virtually eliminate maintenance. This means little or no downtime, and no costly maintenance calls.
- **Style** – the LC 100 has sleek clean lines to complement its surroundings.
- **Quality** – every aspect of design, manufacture and assembly is strictly controlled for quality.
- **Smooth operation** and accurate control comes from a precision mechanism built to the standard required on mass transit systems.
- **Interface** - electronic or serial interfaces are available.
- **Integration** – the design facilitates integration with existing or new access systems.
- **Low cost of ownership**– through design quality, Lo/No maintenance and competitive pricing.

### APPLICATIONS

The LC 100 provides security admission and crowd control for convention centers, health clubs, sports facilities, stadiums, amusement parks and office buildings.



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## FEATURES

### CONSTRUCTION

#### **Cabinet and frame details:**

The cabinet consists of a one-piece heavy gauge wrapped framework, welded to a base mounting plate. A stainless steel lid covers the mechanism housing and is hinged along its full length for strength, safety and appearance. The lid may be locked or simply latched. The interior of the lid provides ample space to mount card readers and indicator lights.

#### **Materials:**

The main framework is manufactured of 10 gauge (0.135) hot rolled carbon steel or optional stainless steel. The finish is of tough wear resistant powder coat epoxy paint (black standard, colors optional) or optional stainless steel cabinet. The top cover is manufactured of 304-brushed stainless steel with a 180 grit, #4 satin finish. All bolt heads are concealed in the upper compartment so that none are exposed on the outer surfaces. The unit is secured to the floor using three standard ½ inch diameter floor anchors.



**Complete Stainless Steel Cabinet Option**

### MECHANISM

The main mechanism components are precision cut by laser from steel, black oxide finished and oil coated for maximum protection.

A heavy-duty hydraulic damper ensures smooth rotation of the turnstile arms and a soft return to the home position after every passage. The damper used by the LC 100 is chosen for its reliability. The damper has a service life of over 10 million cycles.

All springs are made of stainless steel and are carefully rated for a long service life. The bright anodized aluminum hub securely holds the three stainless steel arms. The arms are finished with special hemispherical end caps, welded on for safety, ground smooth and polished for appearance.

#### **Bearings:**

The sealed main hub and shaft bearing is self-centering.

Roller bearings on the homing cam are grease packed for maximum life.

All stainless steel pivot points use oil impregnated bronze bearings for smooth operation and long wear life.

### INTERFACE

#### **Electrical Interface:**

Supply 24 volts dc at 2 amps. (Power supply optional)

Dry contact closure to actuate the turnstile unlocking cycle.

Communications Interface: Serial port option.

Dry contact closures from micro-switches for entry and exit count.



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## Options

### 1) **Portable Feature:**

The Portable LC 100 incorporates a sturdy non-slip, diamond tread base plate, with an attached guide rail. The width of the passageway between cabinet and rail is 18.5 inches. The Guide Rail is made from brushed stainless steel tubing 1¼ inch in diameter. Mounted to the back of the base plate are two high-density polyurethane wheels, 3 inches in diameter to facilitate movement of the LC 100 over most level surfaces.

### 2) **Complete Stainless Steel Cabinet**

304 Stainless Steel Cabinet

### 3) **Tamper proof admission counters:**

Internal admission counters may be provided. Counters have large six digit liquid crystal displays and are powered by a 10 year lithium battery. The LC 100 may be ordered with one or two counters:

- a. Entry counter
- b. Exit counter
- c. Both entry and exit counters

The counters are capable of being reset with a key (optional).

### 4) **Electronic Operation:**

This option includes an unlocking solenoid and electronic interface board with adjustable time control (standard) capable of controlling one direction of traffic through an access control device (card reader, RFID, biometric reader). The adjustable time control may be used for automatic relocking of the turnstile if entry is not completed (adjustable from 0.5 to 60 seconds). All our turnstiles operate from low voltage 24 VDC.

### 5) **Out of Service lock:**

Manually places the turnstile out of service using a key lock.

### 6) **Fail Safe:**

Enables the turnstile to allow passage in the event of power failure.

### 7) **Status Lights:**

Red and Green high intensity LEDs provide status indicators that can be mounted in the hinged lid or on the end of the cabinet.

They may be used in conjunction with a card reader to indicate the turnstile status, locked ready for presentation of card or equivalent entry token (red LED) or to indicate the turnstile is unlocked and ready for passage (green LED).

Alternatively, the red can be used to indicate the turnstile is out of operation and green that the turnstile is in operation.

### 8) **Step Down Transformer:**

120VAC to 24VDC step down transformer available

### 9) **Token Operation:**

The MR 100 can be equipped with an electronic coin or token acceptor which can be set for any size token or coin.



**Model LC 100 Portable**



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