



## F100 Series Turnstiles



### General Description

F100 Series Full-Height Turnstiles are the unique solution for unmanned entrances with high level of security requirements. Only one person is permitted to pass on each turn of the turnstile. This is achieved by three/four group of wings, standing 120/90 degrees apart on the square/triangular cross-sectioned rotor beam. Frames have a width of 80x60mm, 80x40mm RHS type steel profiles and 32mm in diameter steel pipes. Advanced microelectronics; fine mechanics processed on CNC machines; contactless position sensing technology; hydraulic damper with adjustable damping ratio; self-centring mechanism design and rust preventing precautions are some of the main factors resulting F100 Series Full-Height Turnstiles' trouble-free, long operation life. No vibrations and noise occur during operation. Integrated ceiling lamp presented as standard fulfills lighting need in the dark.

### ROTOR, WINGS, BODY AND ROOF

Rotor, arms, body and the top lid are either AISI 304/316 Quality Mirror/Satin Polished/Brushed Stainless Steel or A1 Quality Carbon Steel (RAL 7035 emboss flint stone gray polyester powder coated +furnaced) or any combination of them. There are three/four group of arms, standing 120/90 degrees apart on the square square/triangular cross-sectioned rotor beam. Arms have 48mm outer diameter. Open end of the arms are closed by plastic caps. Stainless steel sheet metals used for top lid and ceiling may be pre-formed or brushed upon request. Vibrationless operation is achieved by anchoring plates at the floor level. Anchoring plates are fixed to the floor by steel bolts. Smooth operation of the rotor is achieved with the help of 2 pcs. deep groove ball bearings. Welds on the square/triangular cross-sectioned rotor beam are hidden under at the end of the arms; therefore every little detail for aesthetic appearance is completed.

### CONTROL ELECTRONICS

F100 Series Full-Height Turnstiles are controlled by advanced electronics. The standart time that the turnstile waits open after the reader input is 15 seconds and it can be arranged in different time options when desired. Turnstile can be supplied either fail-safe or fail-secure. In other words, when electricity is off, turnstile can stay locked or can freely rotate upon request. As a solution for the applications where there is "high" flow in "both" directions, the electronics has the ability to remember 10 readings with respect to the reader side and give permission respectively. Control electronics has trigger inputs, position sensor inputs, solenoid outputs, led way-mode indicator outputs, 'cycle(one turn) completed' outputs, counter outputs.

Every kind of access control system can be integrated easily like card reader, biometric reader, fingerprint or handshape, etc.

Position sensors are contactless; consequently preventing problems arising from long period applications of micro switches with mechanical legs.

### MECHANISM

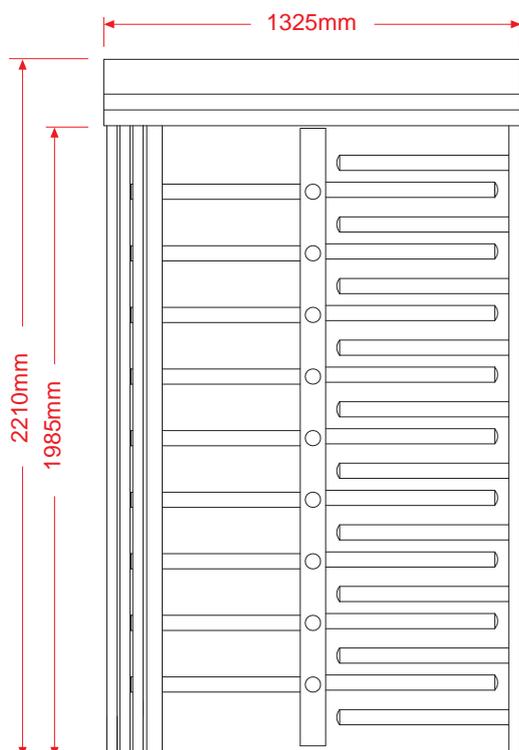
All the mechanical parts of mechanism are manufactured by CNC machines with high precision. Rusting is prevented as the steel parts are all galvanized, others being aluminum, plastic, etc. sophisticated self-centering design enables the arms stand at the correct position at every turn. A heavy duty and adjustable damping ratio hydraulic damper is utilized in the mechanism, which enables smooth and vibrationless operation; resulting long and trouble free operation life. A locking-sub mechanism prevents rotor's turning backwards after 30 degree of rotation, forcing the passage to be completed. All the bearings and fasteners utilized in the mechanism fit ISO standards.

### ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

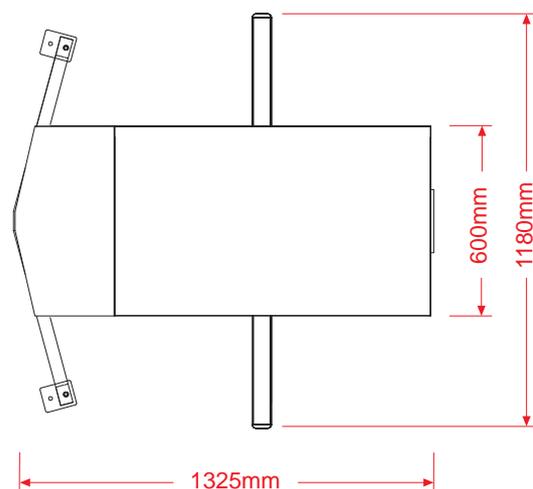
Between -15°C and +65°C, % 95 non-condensing humidity; 220-240 VAC 50-60 Hz.

### OPTIONAL ACCESSORIES/FEATURES

1. Card reader mounting plate
2. Push buttons with enclosure
3. Counter
4. Triangular rotor
5. Uninterrupted power supply (UPS)
6. Sound signaling device (buzzer)



SIDE VIEW



TOP VIEW