



## Linear ADA Turnstile Baseline Specification

**Model:** Linear Turnstile  
**P/N:** XXXX-1L-SS  
**Cabinet:** 34"-72"l x 8.5"-9.0"w x 39"-42"h  
**Finish:** Brushed Stainless (options available)

Note: Can also be considered an "Optical Turnstile" in some specifications.

1. The Linear Turnstile shall be integrated with a building Access Control System to grant or deny access to the facility.
2. The Linear Turnstile shall be capable of utilizing Proximity, Bar Code, Magnetic Stripe & Biometric readers. All readers are factory mounted and protected by quartz coated polycarbonate when possible. Due to the nature of certain types of readers, Aeroturn fabricates reader mounts and guides that will enhance and prolong the service life of said devices.
3. The pedestrian passageway (typ. 34"-36" clear) is bi-directional at all times. The 1.25" dia. Barrier Arm can be Carbon Fiber, Aircraft Aluminum or Stainless Steel.
4. The passageway must be directionally controlled as to not allow passage in opposite direction of a positive card read. This feature prevents tailgating and invalid access into the facility.
5. Linear Turnstiles shall be non-restrictive to handicap personnel. All lanes must be capable of providing a 36" clear passageway without increasing the size of the Turnstile cabinet. i.e. The end cabinet and center cabinet must be the same physical dimension and still contain a single mechanism. Vertical readers must be available for wheel chair accessibility on all cabinets.
6. The Barrier Arm must be capable of being replaced while technician is positioned in passageway.
7. Additional visual and audible outputs available.
8. The Linear Turnstile must provide optical resetting of the lane. Custom PLC options available.
9. Operation shall be capable of allowing 1 single passage per valid card read. Passageway shall be directionally sensitive and optically resettable. If pedestrian attempts to travel in opposite direction of valid card read; Barrier Arm will close and not allow invalid access to the passageway.
10. ALL components and assemblies are designed specifically for the Linear Turnstile. Power Supplies, On-Board UPS, Circuit Breakers shall be DIN Rail rigidly mounted inside the Turnstile Cabinet. Control Board, Interface Board and programmable CNT Relay shall be mounted on an equipment plate inside the Turnstile Cabinet.
11. Pedestrian throughput must be capable of 30 passages per minute, dependent on the access control technology.
12. Entrance/Exit control is performed by a dry contact closure of no more than 200ms. Fire Open control is performed by breaking the normally closed wire pair/circuit provided at the Turnstile Control Board. Push Button/Panel and exit control shall be available.
13. Linear Turnstile must operate with a 24VDC micro-controlled brushless motor capable of 10 million continuous cycles without any type of scheduled or unscheduled maintenance. Site adjustable independent Barrier speed must be available. A continuous duty (capable of 14 million rotations) safety slip clutch must be coupled with motor to provide safety to the pedestrian in case of authorized or unauthorized contact with the Barrier Arm. Safety Clutch must provide the same function in both directions without damaging the Turnstile Mechanism.
14. The Linear Turnstile must be capable of providing a single ADA 36" clear passageway lane with an outside dimension of the cabinet footprint of 4'-5" maximum. The Linear Turnstile must be capable of providing a single ADA 36" clear passageway lane and be mounted to the floor on a 44.5" centerline.
15. Linear Turnstile Mechanism must be capable of being offset in a longer Turnstile Cabinet towards one end from centerline. This feature must be available if normally unlocked operation is possible. Keeping the Barrier Arm at the far end of the entrance or exit passageway enables Barrier Arms to close passageway upon invalid card read without coming in contact with pedestrian.
16. Barrier Arms must have the option of multiple materials. Barrier Arms must be capable of operating continuously without compromising the 10 million cycle zero-maintenance capability.
17. Linear Turnstile shall have an available manual key emergency open override at the Turnstile Cabinet.
18. Linear Turnstile shall have a passageway odometer internally or remotely mounted.
19. Linear Turnstile Cabinet shall have replaceable components without mandatory replacement of entire cabinet due to damage.
20. The Linear Turnstile must have a 5 year non pro-rated Zero-Maintenance Warranty.
21. All engineering, fabrication, assembly, crating and testing shall take place in the U.S.A..

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