LCN ADA Automatic Operator Guide

ADA Requirements Overview

The Americans with Disabilities Act requires doors used by the public to have maximum 5-pound opening force for accessibility. Automatic operators eliminate manual force requirements entirely, providing universal access for individuals with mobility limitations, wheelchair users, and those carrying items.

Low-Energy Operators

Low-energy operators use electronic activation to open doors with minimal force application. Typically require light push (2-5 lbs) on push plate or bump bar to trigger automatic opening. Ideal for high-traffic applications where some physical capability exists.

Full-Energy Operators

Full-energy (full-power) operators completely eliminate manual force requirement. Doors open automatically via sensor activation or push button. Required for facilities serving individuals unable to apply any force (severe mobility limitations, wheelchair users).

Sensor Activation Methods

• Motion sensors (infrared): Detect approach, trigger opening • Push plates/buttons: Manual activation with minimal force • Door sensors: Detect door approach via vehicle or pedestrian • Combination systems: Sensors + manual buttons for flexibility

Safety Provisions

All ADA operators include safety features: door motion detectors prevent closing on occupants, adjustable hold-open time (typically 3-6 seconds), emergency manual backup, audible feedback for visually impaired users, proper signage indicating automatic operation.

Installation Considerations

Position sensors to detect approach from 32-48 inches away. Mount push plates at 36-48 inches height per ADA guidelines. Ensure clear floor space in front of automatic doors. Verify electrical

supply adequacy. Test sensor range in actual installation environment.

Maintenance & Testing

Inspect sensors quarterly for debris obstruction. Test door opening/closing cycles monthly. Verify hold-open duration remains within 3-6 second range. Replace batteries in wireless systems annually. Maintain detailed maintenance log for compliance documentation.