

SECTION 08731

AUTOMATIC DOOR OPERATORS - COMMERCIAL



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GENERAL

1.1 SECTION INCLUDES

- A. Jackshaft-Type Door Operators:
 - 1. Jackshaft-type door operators for light-duty commercial standard and high lift (5 feet [1524 mm] high lift maximum) sectional doors (LiftMaster Model 3900).

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Installation and requirements for blocking and nailers.
- B. Section 16050 - Basic Electrical Materials and Methods: Installation and requirements for electrical connections.

1.3 REFERENCES

- A. International Electrotechnical Commission (IEC).
- B. National Electrical Manufacturers Association (NEMA): NEMA ICS 6 - Industrial Control and Systems: Enclosures.
- C. Underwriters Laboratories (UL): UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - 4. Cleaning methods.
- C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, edge conditions, and accessories.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging with labels intact until ready for installation.

- B. Schedule delivery of door operator so that spaces are sufficiently complete that door operators can be installed immediately upon delivery.

1.6 WARRANTY

- A. Manufacturer's standard limited 2-year warranty against material and manufacturing defects.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: LiftMaster; 300 Windsor Drive; Oakbrook, IL 60523. Toll-Free: 800.282.6225. Email: specs@LiftMaster.com. Web: LiftMaster.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 JACKSHAFT-TYPE DOOR OPERATORS

- A. Light-Duty Jackshaft Operator: LiftMaster 3900 Light-Duty Wall-Mount Operator, limited-duty (recommended duty of 10 cycles per hour maximum).
 - 1. Standard and high-lift (maximum 5 feet [1524 mm] high-lift) sectional doors with torsion assemblies, measuring up to 14 feet (4267 mm) high and up to 18 feet (5486 mm) wide, but not exceeding 180 square feet (16.7 sq. m) or 650 pounds (295 kg).
 - 2. Electric Operator: Light-duty assembly, cULus listed and cULus labeled, with electric motor and factory-rewired motor controls, emergency release handle, 1-button control station and accessories required for proper operation. UL 325 compliant operation.
 - a. Electric Motor: Heavy-duty 24V DC motor provides ultra-quiet operation, along with variable-speed smooth start and stop. Quick-connect terminals and 6-foot (1829 mm) power cord. 120V AC, 60 Hz input voltage.
 - b. Cable Tension Monitor: Door shall reverse when excessive cable slack is detected.
 - c. 1-button station for open and close functions with type B2 control wiring (standard for all operators).
 - 3. Primary Entrapment Protection Devices:
 - a. The Protector System Safety Sensors: A "non-contact" photo safety sensor designed to sense an obstruction and signal the door operator to reverse to open.
 - 4. Accessories: Provide the following.
 - a. LiftMaster 41A6102 Power Door Lock: Prevents the door from being manually forced open once fully closed.
 - b. LiftMaster 475LM Battery Backup System: Operates the door operator for up to 20 full cycles within a 24-hour period.
 - c. LiftMaster 480LM Alternate Mounting Kit: Allows operator to be mounted below the torsion bar.
 - d. LiftMaster 380LM Remote Worklight: Adds 200 watts of light with adjustable light time delay; unlimited number of lights can be added.
 - e. LiftMaster 377LM Keyless Entry: Allows door to open or close by using a code

programmed directly into the unit.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected.
- B. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. Commencement of installation constitutes acceptance of conditions.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are obtained. Demonstrate operation to owner's personnel.

3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch up, repair or replace damaged products before Substantial Completion.

END OF SECTION