

# **Architectural Specifications for Chamberlain/LiftMaster LA100 Residential DC Linear Swing Gate Operator**

**(For Inclusion within Section 2829 Gate Operators)**

## **Part 1 – General**

### **1.1 Section Includes**

- A. Swing gate operators with accessories
- B. Sensors and Controls

### **1.2 Related Sections**

- A. Section 02820 – Fences and Gates

### **1.3 References**

- A. UL325 – Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems

### **1.4 Submittals**

- A. Submit under provisions of Section 01300
- B. Product Data: Equipment list, system description, block diagrams on equipment to be finished, and 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

### **1.5 Quality Assurance**

- A. Provide documentation of maintenance and repair service availability for emergency conditions
  - 1. Installer Qualifications: Factory authorized contractor specifically trained in gate operation systems of the type found within this section
- B. Manufacturer is an ISO9001/2000 Certified Company

### **1.6 Warranty**

- A. Warranty: Manufacturers standard warranty for one year on electronics and mechanism

## Part 2 – Products

### 2.1 Manufacturer

- A. Acceptable Manufacturer: Chamberlain/LiftMaster, 845 Larch Avenue, Elmhurst, Illinois 60126.  
Telephone: (800) 282-6225
- B. Substitutions: Not permitted
- C. Requests for substitutions will be considered in accordance with the provisions of Section 01600

### 2.2 Residential Linear Swing Gate Operator

- A. Residential 24VDC Residential Linear Swing Gate Operator for Single Gates
  - 1. Chamberlain/LiftMaster LA100 Residential Linear Swing Gate Operator
    - a. Gate capacities: For operation of swing gates up to 250 lbs and lengths to 12 feet.
    - b. UL Classification: Conforms to Class I, when tested in accordance with UL325
    - c. Operator: Low voltage 24V DC with variable speed soft start/stop with electronic limit switch system that provides extended gate system life; provides a travel speed of 20 seconds to provide a 90° opening for up to 20 cycles per day
    - d. Control circuit: Microprocessor electronics and solid-state control board in a weatherproof housing; low-voltage control inputs to provide for connection of optional external devices including photocell safety sensors, wireless gatebell, wireless keypad, on-board radio receiver, and a keyed manual disconnect (to provide release and manual operation of the gate in emergency situations); provides LED indication of all input, status, and diagnostic capabilities
    - e. Additional required controls:
      - 1.) Internally-mounted Passport RF remote control radio receiver tuned at [312 MHz](#) pre-wired for compatibility with LiftMaster Security+ transmitters. One 3-button Security+ remote included
      - 2.) Inherent obstruction sensing providing separate force adjustments for both open and closed directions, allowing a closing gate to reverse to open and an opening gate to stop
      - 3.) Timer-to-close providing adjustable timer settings between 0 and 90 seconds in 15 second increments which resets upon receiving additional open commands
      - 4.) Manual release allows the user to manually operate the gate during a power outage.
      - 5.) Residential duty transformer (115V AC plug-in) powers 24VDC Motor with thermal overload protection and aluminum housing
      - 6.) Diagnostic LED indicator for initial setup and troubleshooting
      - 7.) Electronic limit system for setting open/close parameters
    - f. Mounting: Left or right-hand operation to provide flexibility in determining orientation either prior to or during installation
    - g. Optional Equipment (Note to Specifier: Delete all not applicable)
      - 1.) Wireless gatebell keypad with remote control and monitor (WGB315)
      - 2.) Wireless access keypad (WKP250LM – WKP5LM)
      - 3.) The Protector System safety sensors (50-220)

## **Part 3 – Execution**

### **3.1 Examination**

- A. Do not begin installation until substrates have been properly prepared
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding

### **3.2 Preparation**

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

### **3.3 Installation**

- A. Install in accordance with manufacturer's specifications
- B. Wire in accordance with National Electric Code
- C. Test system and adjust to assure components and accessories are properly connected and in working order

### **3.4 Preparation**

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

### **3.5 Maintenance**

- A. Provide Owner with two copies of operation, installation, and maintenance manuals including wiring diagrams
- B. Provide owner with two copies of risers, layouts, and special wiring diagrams showing any changes to standard drawings
- C. Maintain at three-month intervals, checking external reversing devices once per month