

Architectural Specifications for LiftMaster SL595 Slide Gate Operator

(For Inclusion within Section 02829 Gate Operators)

Part 1 – General

1.1 Section Includes

- A. Slide Gate Operators and Accessories
- B. Access Controls

1.2 Related Sections

- A. Section 02820 – Fences and Gates
- B. Section 03300 – Cast-In Place Concrete – Concrete Mounting Pad
- C. Section 11150 - Parking Control Equipment
- D. Section 11150 - Parking Control Equipment
- E. Section 16131 – Conduits
- F. Section 16155 - Equipment Wiring

1.3 References

- A. UL325 – Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems
- B. UL991 – Standard for Safety – Tests for Safety-Related Controls Employing Solid-State Devices

1.4 Submittals

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

1.6 Warranty

- A. Warranty: Manufacturers standard warranty of five years for commercial installation

Part 2 – Products

2.1 Manufacturer

Acceptable Manufacturer: Chamberlain/LiftMaster, 845 Larch Avenue, Elmhurst, Illinois 60126.
Telephone: (800) 282-6225

Substitutions: Not permitted

Requests for substitutions will be considered in accordance with the provisions of Section 01600

2.2 Parking Gates

- A. Slide Gate Operator
 - a. Chamberlain/LiftMaster SL 595 Model Slide Gate Operator that provides continuous cycle operation and a traveling speed of up to 12" per second
 - b. UL Classification: (Note to Specifier: Select one)

Conforms to Class I, when tested in accordance with UL325

Conforms to Class II, when tested in accordance with UL325

Conforms to Class III, when tested in accordance with UL325

Conforms to Class IV, when tested in accordance with UL325

Operator Enclosure: Fully enclosed, NEMA 3R, weather-resistant, hinged, lockable, 16-gauge steel enclosure with baked-on high durability powdercoat finish over a 7 gauge steel frame

Operator Motor (Note to Specifier: Select one of the following):

_ HP Continuous Duty motor with built-in overload protection in 115, 208, or 230 VAC 60 Hz Single Phase (Note to Specifier: Select One) operation for gates up to 1100 lbs. and 45 ft (Overhead) or 25 ft. (Cantilever) in length

1 HP Continuous Duty motor with built-in overload protection in 208, 230, 460, or 575 VAC 60 Hz Three Phase (Note to Specifier: Select One) operation for gates up to 1700 lbs. and 70 ft (Overhead) or 35 ft. (Cantilever) in length

2 HP Continuous Duty motor with built-in overload protection in 208, 230, 460, or 575 VAC 60 Hz Three Phase (Note to Specifier: Select One) operation for gates up to 2500 lbs. and 90 ft (Overhead) or 45 ft. (Cantilever) in length

Drive System: 20:1 gear reduction using worm-gear reduction in synthetic oil bath with a solenoid-activated brake system that prevents back-driving

Open and Close Limit Settings: Limit switches are modular and fully adjustable

Control circuit: LiftMaster GL solid-state control board; low-voltage control inputs protected from external spikes and surges that provides long distance control of wiring runs over 1,000 ft. for connection of a full range of optional external devices including loop detectors, telephone entry systems, access control systems, and radio receivers

Additional required controls:

Internally-mounted RF receiver tuned at 315MHz

Inherent obstruction sensing providing separate, single force adjustments for both open and closed directions, allowing a closing gate to reverse to the opposite limit and stop when encountering an obstruction

External obstruction sensing providing separate open and close cycle input connections for external contact and non-contact sensors

Maglock control relay to activate and deactivate an optional magnetic lock for securing the gate

UL 325-compliant entrapment warning alarm system providing ability to offer a warning tone which begins 3-seconds prior to gate movement and continues during gate operation

Loop detector inputs allowing for the connection of exit, shadow, and interrupt loop detectors

Dual gate operation 2-wire control system that provides for the operation of two separate gate operators in unison at a single entrance and also provides the ability to connect accessories to either operator

Timer-to-close providing adjustable timer settings between 1 and 180 seconds which resets upon receiving any additional open commands

Sequenced Access Management System providing ability to control a slide or swing gate operator in tandem with a barrier gate operator

Maximum run timer to protect gate and operator from damage by limiting run time to 120 seconds

Emergency Release: External manual release for manual operation of gate during emergencies and maintenance work

Emergency Stop: Stop button in a weather-tight outdoor enclosure to halt operation of the operator in an emergency situation

Accessory Power: One 24 VAC connection for operator accessories, including a radio receiver and loop detectors

Optional Equipment:

Integral thermostat-controlled heater kit for use in cold weather climates

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

Clean surfaces thoroughly prior to installation

Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

3.3 Installation

Install in accordance with manufacturer's specifications

Mount directly to concrete pad, firmly secured, plumb, and level

Mount to mounting pedestal; provide base plate

Wire in accordance with National Electric Code

Enclose all splices in easily accessible junction boxes or on terminal boards

Tag and identify all cable runs in all junction boxes

Test system and adjust to assure components and accessories are properly connected and in working order

3.4 Preparation

Protect installed products until completion of project

Touch-up, repair, or replace damaged products before completion

3.5 Maintenance

Provide Owner with two copies of operation, installation, and maintenance manuals including wiring diagrams

Provide owner with two copies of risers, layouts, and special wiring diagrams showing any changes to standard drawings

Maintain at three-month intervals, checking external reversing devices once per month