

SECTION 32 31 11 – GATE OPERATORS**PART 1 GENERAL****1.1 SUBMITTALS**

- A. Action Submittals:
 - 1. Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.
 - 2. Product Data: Manufacturer's descriptive data and product attributes.
- B. Closeout Submittals:
 - 1. Operation and Maintenance Data.

1.2 QUALITY ASSURANCE

- A. Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [] years' experience.

1.3 WARRANTY

- A. Manufacturer's [2] [5] [7] year warranty against material and manufacturing defects.

PART 2 PRODUCTS**2.1 MANUFACTURERS**

- A. Contract Documents are based on products by LiftMaster. www.LiftMaster.com
- B. Substitutions: [Refer to Division 01.] [Not permitted.]

2.2 MANUFACTURED UNITS

- A. Slide Gate Operators:
 - 1. Model: HDSL24UL.
 - 2. Operation: Gear driven.
 - 3. Rated duty cycle: Continuous duty.
 - 4. Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.
 - 5. Power: 120/240 VAC, single phase.
 - 6. Motor: 24 VDC, continuous duty type, sized to gate conditions.
 - 7. Battery backup: [7Ah.] [33Ah.]
 - 8. Monitoring and controls:
 - a. Internet connectivity: MyQ technology with 50 channel FHSS.
 - b. Radio receiver: Security+ 2.0 technology.
 - c. Monitored retro-reflective photo eyes.
 - d. Monitored small profile wired safety edge.
 - 9. Accessories:
 - a. Monitored safety devices: [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
 - b. Wired monitored edges: [Small profile edge.] [Large profile edge.]
 - c. Plug-in loop detector.
 - d. Wireless commercial keypad.
 - e. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
 - f. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]

- g. Internet gateway.
- h. Smart video intercom.
- i. Commercial access control receiver.
- j. Maglock.
- k. Heater kit.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.2 CLOSEOUT ACTIVITIES

- A. Test and adjust operators for proper operation.
- B. Demonstration: Demonstrate operation and programming of operators to Owner.

END OF SECTION