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**SECTION 32 31 11 – GATE OPERATORS**

GENERAL

SUBMITTALS

Action Submittals:

Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

Product Data: Manufacturer’s descriptive data and product attributes.

Closeout Submittals:

Operation and Maintenance Data.

QUALITY ASSURANCE

Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

WARRANTY

Manufacturer’s [2] [5] [7] year warranty against material and manufacturing defects.

PRODUCTS

MANUFACTURERS

Contract Documents are based on products by LiftMaster. [www.LiftMaster.com](http://www.liftmaster.com)

Substitutions: [Refer to Division 01.] [Not permitted.]

MANUFACTURED UNITS

Door Operators:

Model: HCTDCUL.

Operation: Gear reduced.

Rated duty cycle: Continuous.

Operator speed: Adjustable, up to 11 inches per second opening speed.

Automatic closing if door is pushed off closed position.

Battery backup.

LED diagnostics display.

* + - 1. Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.
      2. Power: 120/230 VAC, single phase.

Motor: 24 VDC, prewired, listed by Underwriters Laboratories, sized to door conditions.

Enclosure: NEMA 1.

Monitoring and controls:

* + - * 1. Internet connectivity: 50 channel FHSS myQ technology.
        2. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
        3. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
        4. Primary entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Retro-reflective sensor system.] [Through-beam photo eyes.]
        5. Secondary entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Retro-reflective sensor system.] [Through-beam photo eyes.]
      1. Accessories:
         1. Commercial wireless keypad.
         2. Red/green traffic light.
         3. [CAPXLV] [CAPXM] Smart video intercom.
         4. Commercial access control receiver.

EXECUTION

INSTALLATION

Install in accordance with manufacturer’s instructions.

CLOSEOUT ACTIVITIES

Test and adjust operators for proper operation.

Demonstration: Demonstrate operation and programming of operators to Owner.

END OF SECTION