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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