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**SECTION 08 71 23 – COMMERICAL DOOR OPERATORS**

GENERAL

SUBMITTALS

Action Submittals:

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 [1] [2] 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: APT.

Operation: Trolley.

Drive type: V-belt primary reduction.

Mounting: Ceiling.

Disconnect for manual operation: Quick disconnect door arm.

Rated duty cycle: Maximum 25 cycles per hour or 125 cycles per day.

Meet UL 325.

Motor: Listed by Underwriters Laboratories, sized to door conditions.

Enclosure: NEMA 1.

Travel rate: 6 to 7 inches per second.

Radio receiver: Logic 5.0 on-board; accept Security+ rolling code technology remote controls and binary DIP switch remote controls.

Internet connectivity: 50 channel FHSS myQ technology.

* + - 1. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
      2. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
      3. Primary monitored entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Light curtain.] [Retro-reflective sensor system.] [Sensing edge system.] [Optical edge sensing system.]
      4. Secondary non-monitored entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Retro-reflective sensor system.] [Sensing edge system.] [Optical edge sensing system.] [Pneumatic sensing edge.]

Track: Dual L-rail trolley track.

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