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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: DHJ.

 Operation: Hoist/jackshaft.

 Drive type: V-belt primary reduction.

 Mounting: [Wall.] [Door hood.]

 Disconnect for manual operation: Floor level emergency release sash chain hoist with electric interlock.

 Rated duty cycle: Maximum 25 cycles per hour and 90 cycles per day.

 Meet UL 325.

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

 Enclosure: NEMA 1.

 Travel rate: 8 to 9 inches per second.

 Radio receiver: Logic 5.0 on-board; accept Security+ 2.0 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. Sensing circuit to prevent door operation when door is locked.
			3. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Three button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
			4. 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.]

 Secondary non-monitored entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Light curtain.] [Retro-reflective sensor system.] [Sensing edge system.] [Optical edge sensing system.] [Pneumatic sensing edge.]

 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