**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 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.]

MANUFATURED UNITS

Door Operators:

Model: [HPH1.] [HPH2.]

Operation: Direct drive.

Motor design: 1.25 HP, [single phase and 3-phase, 120/230V.] [3-phase 460/575V, fully configured unit.]

Rated duty cycle: Maximum 600 cycles per day.

Meet UL 325.

Motor: Listed by Underwriters Laboratories.

Travel rate: 22 to 24 inches per second average; 45 inches per second maximum.

Wall controller: Provide separation of low and high voltage wiring and include functionality of 3-button station; set door profile and programming limits, and performs diagnostics.

Floor-level programming: Set limits, door profile, operating modes, and select photo entrapment devices.

Display: Absolute cycle count, service cycle count, diagnostic messages, and door and operator status.

Cycle counter: Resettable via wall controller or myQ technology.

Limit setting: Electronic pushbutton via wall controller.

Internet connectivity:

* + - * 1. Built-in Wi-Fi with myQ technology.
        2. Over-the-air updates.
        3. Service cycle count, lifetime cycle count, and remote diagnostics via wall controller or myQ technology.
      1. Control station: [One button type] [Three push button type] [Three position key operated type] [One button open-only NEMA 1 button] in NEMA [1] [4] [4X] [7/9] enclosure.
      2. Remote controls: [One button DIP.] [Three button DIP.] [Two button learning Security+ 2.0.] [Four button learning Security+ 2.0.] [Single button rolling code Security+ 2.0.] [Two button rolling code Security+ 2.0.] [Three 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.]

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.]

* + - 1. Accessories:
         1. Wi-Fi Bridge
         2. Internet Gateway.
         3. Door Monitor
         4. Red/green traffic light.
         5. Commercial/Industrial wireless keypad.
         6. Commercial access control receiver.
         7. Microwave motion detector

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