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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

Swing Gate Operators:

Model: LA400UL.

Operation: Linear.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Battery backup capable.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. Telephone intercom and access control system.
        4. Plug-in loop detector.
        5. Internet gateway.
        6. Smart video intercom.
        7. Solar panel kit.
        8. Pushbutton keypad.
        9. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]

\*\*\*\* OR \*\*\*\*

Swing Gate Operators:

Model: LA412UL.

Operation: Linear.

Rated duty cycle: Maximum 100 cycles per day.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Power: Solar.

Motor: 12 VDC, continuous duty type, sized to gate conditions.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]
        4. Wireless commercial keypad.
        5. Internet gateway.
        6. Solenoid lock.
        7. Solar panel kit.
        8. Plug-in loop detector and expansion board.

\*\*\*\* OR \*\*\*\*

Swing Gate Operators:

Model: LA500UL.

Operation: Linear.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Power: 120/230 VAC, single phase.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Battery backup capable.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. Telephone intercom and access control system.
        4. Internet gateway.
        5. [CAPXLV] [CAPXM] Smart video intercom.
        6. Solar panel kit.
        7. Pushbutton keypad.
        8. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]
        9. Plug-in loop detector.

\*\*\*\* OR \*\*\*\*

Swing Gate Operators:

Model: RSW12UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 12 VDC, continuous duty type, sized to gate conditions.

Battery backup capable.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]
        4. Residential smart video intercom.
        5. Internet gateway.
        6. Solar panel kit.
        7. Plug-in loop detector.
        8. Heater kit.

\*\*\*\* OR \*\*\*\*

Swing Gate Operators:

Model: CSW24UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]
        4. Plug-in loop detector.
        5. Internet gateway.
        6. [CAPXLV] [CAPXM] Smart video intercom.
        7. Wireless commercial keypad.
        8. Three button visor remote control.
        9. Solar panel kit.

\*\*\*\* OR \*\*\*\*

Swing Gate Operators:

Model: CSW200UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]
        4. [CAPXLV] [CAPXM] Smart video intercom.
        5. Wireless commercial keypad.
        6. Plug-in loop detector.
        7. Heater kit.

\*\*\*\* OR \*\*\*\*

Swing Gate Operators:

Model: HDSW24UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro reflective photo eye.

Accessories:

* + - * 1. Monitored safety devices: [Through-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.] [Monitored wired safety edges.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remote control.]
        4. Internet gateway.
        5. [CAPXLV] [CAPXM] Smart video intercom.
        6. Plug-in loop detector.
        7. Solar panel kit.
        8. Maglock.
        9. Heater kit.
        10. Reinforced long arm.

\*\*\*\* OR \*\*\*\*

Slide Gate Operators:

Model: RSL12UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 12 VDC, continuous duty type, sized to gate conditions.

Traveling speed: Variable, 6 to 12 inches per second.

Battery backup: [7Ah.] [33Ah.]

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro-reflective photo eyes.
        4. Monitored small profile wired safety edge.

Accessories:

* + - * 1. Monitored safety devices: [Reflective photo eyes.] [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
        2. Wired monitored edges: [Small profile edge.] [Large profile edge.]
        3. Wireless commercial keypad.
        4. [Two-] [Four-] button Security+ 2.0 learning remote control.
        5. Internet gateway.
        6. [CAPXLV] [CAPXM] Smart video intercom.
        7. Commercial access control receiver.
        8. Solar panel.
        9. Telephone entry.
        10. Loop detector.
        11. Maglock.
        12. Heater kit.

\*\*\*\* OR \*\*\*\*

Slide Gate Operators:

Model: CSL24UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Traveling speed: 12 inches per second.

Battery backup: [7Ah.] [33Ah.]

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro-reflective photo eyes.
        4. Monitored small profile wired safety edge.

Accessories:

* + - * 1. Monitored safety devices: [Reflective photo eyes.] [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
        2. Wired monitored edges: [Small profile monitored edge.] [Large profile monitored edge.]
        3. Plug-in loop detector.
        4. Wireless commercial keypad.
        5. Internet gateway.
        6. [CAPXLV] [CAPXM] Smart video intercom.
        7. Commercial access control receiver.
        8. Heater kit.

\*\*\*\* OR \*\*\*\*

Slide Gate Operators:

Model: SL3000UL.

Operation: Gear driven.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Motor: 115 VAC, continuous duty type, sized to gate conditions.

Traveling speed: 12 inches per second.

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro-reflective photo eyes.
        4. Monitored small profile wired safety edge.

Accessories:

* + - * 1. Monitored safety devices: [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
        2. Wired monitored safety edges: [Small profile edge.] [Large profile edge.]
        3. Plug-in loop detector.
        4. Wireless commercial keypad.
        5. [One-button encrypted DIP remote control.] [Two button rolling code Security+ 2.0 learning remote control.] [Four button rolling code Security+ 2.0 learning remotec] control.]
        6. Internet gateway.
        7. [CAPXLV] [CAPXM] Smart video intercom.
        8. Commercial access control receiver.
        9. Telephone entry.
        10. Heater kit.

\*\*\*\* OR \*\*\*\*

Slide Gate Operators:

Model: HDSL24UL.

Operation: Gear driven.

Rated duty cycle: Continuous duty.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Power: 120/240 VAC, single phase.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Battery backup: [7Ah.] [33Ah.]

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro-reflective photo eyes.
        4. Monitored small profile wired safety edge.

Accessories:

* + - * 1. Monitored safety devices: [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
        2. Wired monitored edges: [Small profile edge.] [Large profile edge.]
        3. Plug-in loop detector.
        4. Wireless commercial keypad.
        5. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
        6. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
        7. Internet gateway.
        8. Smart video intercom.
        9. Commercial access control receiver.
        10. Maglock.
        11. Heater kit.

\*\*\*\* OR \*\*\*\*

Slide Gate Operators:

Model: INSL24UL.

Operation: Gear driven.

Rated duty cycle: Continuous duty.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Power: 120/240 VAC, single phase.

* + - 1. Traveling Speed: 6-12 inches per second.

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Battery backup: [7Ah.] [33Ah.]

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro-reflective photo eyes.
        4. Monitored small profile wired safety edge.

Accessories:

* + - * 1. Monitored safety devices: [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
        2. Wired monitored edges: [Small profile edge.] [Large profile edge.]
        3. Plug-in loop detector.
        4. Wireless commercial keypad.
        5. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
        6. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
        7. Internet gateway.
        8. Smart video intercom.
        9. Commercial access control receiver.
        10. Maglock.
        11. Heater kit.
        12. Three phase kit.
        13. Riser kit.

\*\*\*\* OR \*\*\*\*

Slide Gate Operators:

Model: IHSL24UL.

Operation: Gear driven.

Rated duty cycle: Continuous duty.

Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.

Power: 120/240 VAC, single phase.

* + - 1. Traveling Speed: 6-12 inches per second

Motor: 24 VDC, continuous duty type, sized to gate conditions.

Battery backup: [7Ah.] [33Ah.]

Monitoring and controls:

* + - * 1. Internet connectivity: MyQ technology with 50 channel FHSS.
        2. Radio receiver: Security+ 2.0 technology.
        3. Monitored retro-reflective photo eyes.
        4. Monitored small profile wired safety edge.

Accessories:

* + - * 1. Monitored safety devices: [Thru-beam photo eyes.] [Wireless edge with transmitter and receiver.] [Wireless edge transceiver.]
        2. Wired monitored edges: [Small profile edge.] [Large profile edge.]
        3. Plug-in loop detector.
        4. Wireless commercial keypad.
        5. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
        6. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
        7. Internet gateway.
        8. Smart video intercom.
        9. Commercial access control receiver.
        10. Maglock.
        11. Heater kit.
        12. Three phase kit.
        13. Riser kit.

\*\*\*\* OR \*\*\*\*

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