

# Model GRSW24V

## Swing Gate Operator Specifications



### Section 32 31 11

### Vehicular Swing Gate Operators

#### PART 1 – GENERAL

##### 1.01 WORK INCLUDED

- A. Provide electric vehicular gate operator(s) of size and capacity recommended for gate(s) as provided by manufacturer with electric motor and factory pre-wired motor controls, gear reduction, control devices, safety devices, and accessories required for proper operation.

##### 1.02 RELATED WORK

- A. Section 03 – Concrete
- B. Section 05 – Metal Work
- C. Section 26 – Electrical
- D. Section 28 – Electronic Safety and Security
- E. Section 31 – Earthwork
- F. Section 32 – Exterior Improvements

##### 1.03 QUALITY ASSURANCE

- A. In accordance with accepted quality assurance guidelines for motor-operated vehicular gate operators as provided by The Genie Company.
- B. Installation shall be performed by a certified contractor specifically trained in vehicular gate operator installation.

##### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect materials from exposure to rain, snow, ice and hail. Do not deliver until after wet work is complete and dry.
- C. Store materials in a dry, warm, ventilated weathertight location.

##### 1.05 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside the manufacturer's absolute limits.

##### 1.06 WARRANTY

- A. 3-year limited warranty on motor and parts.

#### PART 2 - PRODUCT

##### 2.01 MANUFACTURERS

- A. Products as provided by The Genie Company.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

##### 2.02 SLIDE GATE OPERATOR

- A. Vehicular Swing Gate Operator, Model GRSW24V:
  - a. Articulated arm swing gate operator.
  - b. Compliance: UL Listed, Class I, II. Compliant with UL 325 UL991 and CSA C22.2 No. 247
  - c. Maximum gate ratings allowed gate weight vs gate length: 400lbs at 16ft, 500lbs @ 14ft, 600lbs @ 12ft, 700lbs @ 10ft, 800lbs @ 8ft, and 1000lbs @ 6ft.
  - d. Electrical power: 115VAC field switchable to 230VAC, or optional 24V solar panel (20W) (50W) (90W).
  - e. Accessory outlet: two 115VAC outlets.
  - f. Power switches: One AC toggle switch and one DC toggle switch.
  - g. Battery backup: built-in
  - h. Reset switch: NEMA 4 reset switch on exterior of control enclosure for UL 325 alarm reset.
  - i. Motor: 24VDC, 50% duty cycle.
  - j. Motor speed: adjustable acceleration, deceleration, max speed, slowdown speed, and slowdown distance.
  - k. Direct drive motor to primary and secondary worm gear in oil bath reduction.
  - l. Limit switches: electromechanical set via LCD, absolute position type.
  - m. Frame: steel with rust resistant plating.
  - n. Enclosure: dark grey polyethylene.
  - o. Mounting type: pad.

- p. Mounting position: right- or left-hand mount.
- q. Drive arm: articulating two-piece arm assembly.
- r. Opening/closing speed: 90° in 15-18 seconds.
- s. Manual release: drive hub release lever.

- B. Control System: Microprocessor based logic board with a separate motor drive board. System incorporates a dual line backlit 8-character Liquid Crystal Display (LCD) to display system status and for setup. System shall include the following:
  - a. Control action will be constant contact until the minimum required number of entrapment devices are installed.
  - b. Adjustable motor speeds via LCD.
  - c. On board open, close, and stop control keys for local operation and setup.
  - d. On board timer to close.
  - e. On board seven-day timer with ability to set multiple opening and closing events as well as relay output actions.
  - f. Built-in Intellicode® 315/390Mhz frequency cycling radio receiver capable of storing 250 single button and/or 250 Open-Close-Stop transmitters with the ability to add and/or delete transmitters individually, identify and store activating transmitter IDs.
  - g. Four monitored entrapment inputs; a pulsed or 10k ohm monitored photo eye and/or 10k ohm edge in the close direction and a pulsed or 10k ohm photo eye and/or 10k ohm edge in the open direction.
  - h. AladdinConnect® ready (with optional Wi-Fi board)
  - i. Activating inputs; open, close, stop, 1-button, fire department, exit loop.
  - j. Loop inputs; exit, shadow, reversing.
  - k. Wired primary/secondary control synchronization for dual gate application. (Optional wireless primary/secondary).
  - l. Adjustable bi-parting delay via LCD.
  - m. 800mA combined constant on and switched 24VDC outputs.
  - n. Anti-tailgating with quick close capability
- C. Accessories
  - a. Photo eyes: monitored pulse or 10k ohm type photo eyes.
  - b. Edges: monitored 10k ohm type sensing edges.
  - c. Handheld programming pendant with multi-line backlit LCD display and 6 ft cable.
  - d. Pluggable loop detectors.
  - e. Loop rack for pluggable 10-pin loop detectors.
  - f. Traffic signal: red/green type.
  - g. Solar panel kits.
  - h. 33 Ah batteries.
  - i. External radio receivers
  - j. 315/390Mhz Intellicode® transmitters.
  - k. Exterior NEMA 4 push button and key switch stations.
  - l. Interior NEMA1 push button and key switch stations.
  - m. Signaling lights.
  - n. Horn/strobe in weatherproof gang box.
  - o. Mounting type: optional bracket kit.

#### PART 3 - EXECUTION

- 3.01 The Model GRSW24V shall be installed in accordance with The Genie Company instructions and standards. Installation will be by trained and authorized Genie Company distributors or dealers.

©2025 The Genie Company. All Rights Reserved.

A copyright license to reproduce this specification is hereby granted to non-manufacturing architects, engineers and specification writers.

*Note to specifier:*

*This specification is a suggested guide. Available options are shown in parentheses.*

## Vehicular Swing Gate Operator Specifications

