

THE CSW-200-UL™ SERIES SWING GATE OPERATORS



The CSW-200-UL™ is The most popular of all swing gate operating systems in the country. It is designed with a “non-scissor action” arm that will greatly reduce the chance of injury. This unit can handle gates up to 18’ in length at 75 cycle per hour and is designed for high traffic applications such as heavily accessed gated communities and commercial buildings.

The CSW-200-UL™ is protected by a 1/4” thick, unbreakable polyethylene plastic cover for long life and lasting protection. This operator has proven to be one of the most reliable swing gate operators on the market for over a decade.

Electrical Specifications

Modular Board – Uses LEDs to indicate all input and output functions of the gate operator.

ERD – If the gate hits a vehicle while closing, it re-opens. If it hits a vehicle while opening, it stops, reverses 4 to 6 inches and stops again.

Digital Motor Protection – Entrapment sensor shuts off the motor after it reaches the stall amp for 3 seconds, reverses direction for several inches, and stops.

Electronic Inputs – Radio receiver, key switch, safety loop, center loop, telephone entry system, computer input, fire dept. key switch & 3-push-button station.

Timer – Adjustable timer can be set from 3 to 60 seconds.

Power Input On/Off Switch – Controls power input to the board with convenient switch.

Power Management – Board includes electronic power management with over current shutdown and automatic recovery.

Magnetic Lock – With Omni Option board, magnetic lock system is incorporated, allowing you to easily add the “MG1300” electromagnetic locking system to the gate.

Burglar Alarm – With Omni Option board, interfaces with existing home alarm or alarm output.

3 Push Button Control – On board gate operator control for close, stop, and open.

Intelligent Master/Slave – Precise, synchronized movement and communication between two gate operators using 3 wire RS-485 bi-directional technology.

Spike Suppressors – 20,000 Amps and near lightning protection with modular omni surge suppressor. Initial response time: 0.00000000001 seconds.

Alternate Outputs – With Omni Option Board 3 push button command control, burglar alarm input and output.

Gate Traveling Time – Adjusted by a precision mechanical device and electrical limit switch system.

Soft Stop – Gate travels through the cycle at normal speed and comes to a stop slowly for more accurate gate cycle. Equipped with integrated time delay for long mechanical life expectancy

Integrated Loop Detectors – Easy to install, modular, plug in loop detector inputs for exit loop, center loop, and safety loop.

120 VAC Power – Built-in 120 VAC power receptacle (NEMA 5-15).

Motor Drive – Solid-State electronic motor drive system is incorporated into board.

Safety Alarm – If the gate hits an object twice while opening or closing, the system will shut down and alarm will sound for five minutes. After five minutes the system will automatically reset itself. To reset the system during the five minutes, a manual reset button must be used.



CSW-200-UL

Design and specifications subject to change without notice.

THE CSW-200-UL™ SERIES SWING GATE OPERATORS

Elite's operators are skillfully crafted in the USA. Every unit is carefully inspected both electronically and mechanically to provide the quality expected. Elite uses computer aided design to assure the most precise fit for their operator components. High quality and years of proven reliability places Elite CSW Series swing gate operators ahead of the competition.

- To operate the gate manually, rotate the operator release handle 180°, then push the gate open.

- The CSW Series use a solid steel, machined pulley and notched v-groove belt for highly efficient torque transfer from motor to gear reducer.

- The 1/2 HP, instant reversing parking gate motor uses high speed ball bearings for a smooth and quiet operation.

- Two, highly efficient, extremely quiet, 30-to-1 gear reducers are used.



Mechanical Specifications

Chassis – Constructed with 1/4" sanded, welded, and gold zinc plated sheet metal.

Worm Gear Reduction – Two 30-to-1 worm gears equal a 900-to-1 reduction. Both are lubricated in an oil bath.

Motor – 1/2hp, instant reversing, 120VAC, 4 amp, 1625 rpm, high speed ball bearings.

Cover – High density polyethylene plastic and stainless steel for excellent heat and corrosion resistance.

Finishing – All metal parts are gold zinc plated for rust proof protection.

Emergency Release – The gate is easily disconnected by turning the release handle. The best option is our DC-1000U™.

Cycles – 75/hr. with 600 lb. gate.

Swing Arm – Non-scissor type arm action.

Output Shaft – 2 1/2" cold rolled steel.

Capabilities – Maximum gate length 18'.
Maximum gate weight 600 lbs.

Gate Traveling Speed* – 90° opening in 13-15 seconds.

Dimensions – L20.5" X W15" X H28"
ST model: L19" X W14" X H28"

Weight : 160 lbs.
Shipping Weight : 175 lbs.

Stainless Steel cover : 179 lbs.

Approval – ETL and UL Listed and compliant to UL325 and UL991 standards.



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FEATURES OF THE CSW-200-UL™ SWING GATE OPERATOR

LIMIT SWITCH SYSTEM

The CSW-200-UL™ is manufactured with a precision limit switch system. This system uses high speed ball bearings and high quality components for efficiency and reliability.



REVERSING SENSOR

The digital current sensor continuously monitors the motor current. It can be set for both the opening and closing cycles. If the gate is closing and hits a vehicle, the sensor detects the increased load on the motor and reverses. If the gate is opening and hits a vehicle, it stops and reverses 4 to 6 inches. The sensor is smart enough to operate on off-level installations and not to react to wind resistance.

MASTER/SLAVE SYSTEM

This unique system allows precise, synchronized movement and communication between two gate operators using 3 wire RS-485 bi-directional technology. With the OmniControl board, Master/Slave conversion is now easier than ever.



picture A



picture B

NON-SCISSOR ACTION ARM

Most swing gate operator arms will cross and produce a dangerous “scissor” action while opening the gate to a 90° opening, as shown in picture “A”. We designed our CSW-200™ operator arms to not cross, eliminating the scissor action as shown in picture “B”. This feature reduces the risk of injury from the gate operator arm. the loop.



THE CSW-200-UL™ SERIES SWING GATE OPERATORS

OMNICONTROL BOARD

All new UL model Elite CSW-200-UL™ commercial slide gate operators now use the OmniControl™ board for enhanced, reliable operation conforming to the new UL-325 and UL-991 specifications. This advanced electronic control board now offers integrated functions to make all input and outputs of the gate operator easy to access. It offers solid state motor control, spike suppressors, safety alarm and many other unique features. The new OmniControl™ board assures the latest requirements and most advanced technology in the industry, keeping all Elite commercial operators in a class by themselves.

PLUG-IN LOOP DETECTORS

These high quality loop detectors are for use with the Elite Omni Board. The electronics are manufactured exclusively for Elite by Reno A&E, a respected name in loop detection technology. With Elite's proven design and integration technology, these component detectors will make installation and maintenance of loop detection systems simple. They are available for use with Exit Loop and Safety Loop.

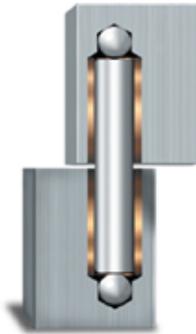
STANDARD LIGHTNING PROTECTION

Elite undertook the project of protecting the Elite commercial gate operators against lightning strike with a level of protection up to a 50 foot radius of near lightning strike. The result of this project is a terminal block that has been specifically designed to prevent damage to the OmniBoard caused by lightning strike. The ability to handle high power and the fast response capability is accomplished by the use of a two-stage, hybrid network of surge suppressors integrated in the terminal block. This network of surge suppressors will protect a total of 11 lines for the gate operators (3 lines for the master/slave communication, and 8 lines for the various input commands). The 110 volt power line protection on the OmniBoard and the Plug-In Loop Detectors is built into the OmniBoard itself.



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OPTIONAL ITEMS FOR THE CSW-200-UL™ SWING GATE OPERATOR



OPTIONAL POWER HINGE

The heavy-duty, super quiet Power Hinges™ are manufactured with double ball bearings each pivoting on a 3/4", grounded and tempered, solid stainless steel shaft. They are designed for industrial applications such as high traffic condominiums and heavy wrought iron or aluminum gates. Power Hinges come in three models depending on your needs.

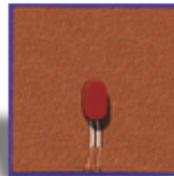
OPTIONAL MAGLOCK

The magnetic lock system is incorporated into all of our CSW-200™ control boards, allowing you to easily add the "MG1300" magnetic locking system to the gate. The MG1300 is designed to withstand forces of up to 1300 lbs., and unlocks automatically in case of a power failure.



ALARM RESET BUTTON

The optional safety alarm reset button will instantly reset the built-in safety alarm siren on all new OmniControl operators, allowing normal function without waiting for the alarm status to time out.



GEARBOX HEATER

An optional gearbox heater is available to keep the gearbox running in its optimum temperature range.



THE DC-1000 POWER BACKUP

Don't be a prisoner of your own gate. Using the DC-1000U™ keeps traffic moving during a power failure.

Set up A: In case of a power failure, the gate will open automatically. When the power is restored, the operator will return to normal condition.

Set up B: Gate will not open automatically until activated by a key switch, push button, or dry contact adjustable command.

