LEWIS ELECTRIC
444 W. Mowry Street
Homestead, FL 33030

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Please read all of the Warnings regarding Installation and Design of a complete operator system!

Dade County (305) 247-3721 Fax (305) 245-9347 Monroe County (305) 852- 7585
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http://www.lewiselec.com/ E-Mail Info@lewiselec.com

STANLEY Swing Gate Operators — Specifications

Linear Actuators

MODEL 400 "AutoGate" 12 v.d.c. Screwdrive

- **Applications:** Light vehicular swing gates, with a maximum length of 10 feet and a maximum weight of 250 pounds. Maximum cycles per day - 25 (transformer)/18 per day (solar). One cycle equals full open and full close. For master/slave systems cycle rates will be halved.
- **Construction:** The model 400 is basically two primary components, the actuator arm and the controller. These two components are connected together using five (5) conductor, outdoor rated wiring cable. The actuator arm is approximately 3-1/4" x 3-1/4" square and 27" long. Its main construction materials are brushed aluminum and die cast. The controller is approximately 8" x 9", is non-metallic and is sealed for weather resistance. It houses the microprocessor, battery and optional radio receiver.
- **Motor:** 12 vdc. / 12,000 +/- 10% R.P.M. / current no load - 2A. / current average load - 4A.
- **Battery:** Sealed lead acid / Amp. hours - 6.5 / Maximum charging voltage - 13.7 vdc.
- **Solar Panel (Option):** Operating voltage - 16 vdc. / Operating current - 330 mA. / Peak wattage - 5.5 / Non-glass material / 14 1/2" x 15 5/8".
- **Plug-in Transformer:** Input voltage - 120 vac., 60 hz. / Output voltage - 12 vdc. / Output current - 1.5A.
- **Features:** Built-in trickle charge circuit. Positive limits. On-Off (vacation) switch. Transient overvoltage "spike" protected. Programmable - single or dual unit operation, automatic time delay to close, dual gate sequencing. Self Teach-N-Learn microprocessor - internal obstruction sensing (motor current monitor) and maximum run time automatic shut-off. Automatic low-voltage shut off (to protect battery). L.E.D. indicators for battery voltage, programming and charging circuit.
- **Systems:** The Model 400 is compatible with almost all types of access controls and safety management systems.
- **Weight:** Actuator arm - 16 lbs. Controller with battery - 11 lbs.
- **Approvals:** U.L. and C.U.L. listed.

MODEL 440 115 v.a.c. Hydraulic

- **Applications:** Light commercial vehicular swing gates, with a maximum length of 10 feet and a maximum weight of 500 pounds. Maximum cycles per hour - 20. One cycle equals full open and full close. Not suggested for use on solid gates or gates that have a large surface area, unless gate locks are incorporated.
- **Construction:** The model 440 is basically two primary components, the actuator arm and the controller. These two components are connected together using four (4) conductor, outdoor rated wiring cable. The actuator arm is approximately 3" x 3" square and 32" long. Its main construction materials are aluminum and "HI-IMPACT" plastics. The controller is available in two (2) styles, large and small. Both are weather resistant. The large controller is capable of handling more accessories. Both are made from galvanized steel. The controller houses the power circuit board, micro circuit board and optional automatic time delay to close circuit board.
- **Actuator Arm:** Motor is an open construction, located in the housing containing the hydraulic fluid. It is 1700 R.P.M. @ 60 hz. and 1350 @ 50 hz. The hydraulic fluid used is Shell LHM, with a temperature range of -22 degrees F to +176 degrees F. Viscosity index of 250 minimum. Maximum stroke - 8.6". Maximum stroke speed .4" per sec. Incorporates dual pressure valves and by-pass valve.
- **Electrical:** Primary voltage 115 vac., 1 phase, 60 hz. / Secondary voltage 24 vac / Power consumption - 335 watts (full load) / Current @ full load -3.5 A.
- **Features:** One controller can operate dual actuator arms. Virtually noise free. On-Off (vacation) switch. Sleek "European" styling. Plug-in componentry.
- **Systems:** The Model 440 is compatible with almost all types of access controls and safety management systems.
- **Approvals:** U.L. and C.S.A. listed.

MODEL 460 230 v.a.c. Hydraulic

- **Applications:** Medium commercial vehicular swing gates, with a maximum length of 12 feet and a maximum weight of 900 pounds. Maximum cycles per hour - 20. One cycle equals full open and full close. Not suggested for use on solid gates or gates that have a large surface area, unless gate locks are incorporated.
- **Construction:** The model 460 is basically two primary components, the actuator arm and the controller. These two components are connected together using four (4) conductor, outdoor rated wiring cable. The actuator arm is approximately 3 1/2" x 3 1/2" square and 38" long. Its main construction materials are aluminum and "HI-IMPACT" plastics. The controller is weather resistant. The controller is made from galvanized steel. The controller houses the power circuit board, micro circuit board and optional automatic time delay to close circuit board.
- **Actuator Arm:** Motor is an open construction, located in the housing containing the hydraulic fluid. It is 1700 R.P.M. @ 60 hz. and 1350 @ 50 hz. The hydraulic fluid used is Shell LHM, with a temperature range of -22 degrees F to +176 degrees F. Viscosity index of 250 minimum. Maximum stroke - 11.4". Maximum stroke speed .4" per sec. Maximum pump pressure -450 p.s.i. Maximum output force - 1500 lbs. Incorporates dual pressure valves, by-pass valve and hydraulic "locking" shuttle valve system.
- **Electrical:** Primary voltage 230 vac., 1 phase, 60 hz. / Secondary voltage 24 vac / Power consumption - 345 watts (full load) / Current @ full load -1.5 A.
- **Features:** One controller can operate dual actuator arms. Virtually noise free. On-Off (vacation) switch. Sleek "European" styling. Plug-in componentry.
- **Systems:** The Model 460 is compatible with almost all types of access controls and safety management systems.
- **Approvals:** U.L. and C.S.A. listed.

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STANLEY Swing Gate Operators — Specifications

Harmonic Arms

- **Applications:** Light duty vehicular swing gates, with a maximum length of 10 feet and a maximum weight of 150 pounds. Maximum cycles per hour -5 (one cycle equals full open and full close). Designed for chain link, tubular, ornamental iron or aluminum gates. No solid gates.
- **Construction:** Enclosure - 14-gauge painted galvanized steel. Enclosure cover - weather sealed, Hi-Impact plastic. Overall, operator dimensions are: 10-7/8" x 12-3/8" x 17-3/4".
- **Motor:** 1/3 H.P. 115 VAC. Single phase, 60 hz., P.S.C.(Permanent split capacitor), with integral thermal overload.
- **Drive System:** Motor drives a worm gear reducer. Reducer then drives a double chain & sprocket reduction. This in turn drives the output shaft at approximately 2.3 R.P.M.
- **Harmonic Linkage:** A 2-1/4" x 23-1/2" x 1/8" thick crank arm is attached to output shaft. A 7/8" diameter galvanized swaged tube is attached to the crank. The swaged tube is then attached to the gate plate.
- **Gate Speed:** Depending on gate, 13 to 17 seconds to open gate 90 degrees.
- **Features:** Built-in, adjustable full open and close limit switches. All control features are controlled by a single, solid state circuit board, which incorporates the following: Maximum run timer, reversal delay, easy left hand / right hand conversion, varistor surge protection and power on indicator. Operator has a built-in entrapment sensing feature, which when activated will reverse a closing gate or stop a opening gate.
- **Approvals:** U.L. and C.S.A. listed.

MODEL 430 Light Duty Vehicular Swing Gate Operator

MODEL 470 Medium Duty Commercial Vehicular Swing Gate Operator

- **Applications:** Light to medium duty vehicular swing gate, with a maximum length of 14 feet and maximum weight of 500 pounds. Maximum cycles per hour - 15 (one cycle equals full open and full close). Designed for most types of constructed gates.
- **Construction:** The outer housing is constructed from 11-gauge, painted galvanized steel. Output shaft is 1-1/4" diameter and is secured at both ends using oil impregnated, bronze flange bearings.
- **Motor:** 1/3 H.P., 115 VAC., Single phase, 60 hz, 1100 R.P.M., P.S.C. (Permanent split capacitor) with resiliant mounting base and built-in thermal overload protection.
- **Drive System:** Motor drives a 60:1 heavy duty, cast, gear reducer via a 4L v-belt. The reducer drives the output shaft via #40 sprocket and chain.
- **Harmonic Linkage:** A 3-l/2" x 29-3/4" x 9/64" thick crank arm is attached to the output shaft. A 1-5/16" diameter steel pipe is attached to the crank arm. The pipe is then attached to the gate plate.
- **Gate Speed:** Depending on gate, 12 to 15 seconds to open gate 90 degrees.
- **Features:** Built-in, adjustable full open and full close limit switches. All control features are controlled by a solid state circuit board, which incorporates the following: Maximum run timer, reversal delay, automatic close timer (with adjustable time), varistor surge protection, left / right hand conversion switches, built-in diagnostic system. Operator has a built-in entrapment sensing feature which, when activated will stop the gate. Pull pin, mechanical disconnect.
- **Systems:** The model 470 is compatible with almost all types of access controls and safety management systems.
- **Approvals:** U.L. and C.S.A. listed.

- **Applications:** Heavy duty vehicular swing gates, with a maximum length and weight of 20 feet /800 pounds for the 1/2 H.P. unit. 26 feet /1200 pounds for the 1 H.P. unit. Maximum cycles per hour -25 (one cycle equals full open and full close). Designed for most types of gate construction.
- **Construction:** The outer housing is constructed from 11-gauge, painted galvanized steel. Output shaft is 2" diameter and is secured at both ends using oil imprenated, bronze flange bearing.
- **Motor:** 1/2 or 1 H.P., 115 VAC or 230 VAC single phase, 60 hz. 230 VAC or 460 vac three phase, 60 hz. Single phase motors incorporate internal thermal overload, which protects both start and run windings. Three phase incorporates an external overload. All motors are Nema 56 frame motors.
- **Drive System:** Motor drives a 40:1 heavy duty, cast, worm gear reducer via a 4L v-belt. The reducer drives the output shaft via #40 sprocket and chain. The drive system is protected from overloading by use of a 4" diameter friction type, slipping clutch.
- **Harmonic Linkage:** A 3-1/2" x 29-3/4" x 9/64" thick crank arm is attached to output shaft. A 1-5/16" diameter steel pipe is attached to crank. The pipe is then attached to gate plate.
- **Gate Speed:** Depending on gate, 12 to I5 seconds to open 90 degrees.
- **Features:** Nema size "0" motor reversing contactor. Built-in, adjustable full open and full close limit switches. Advance audio warning will audibly warn that gate is about to move and when gate is moving. Delay on reverse. Maximum run timer (adjustable). Pull pin, mechanical disconnect.
- **Systems:** The model 490 is compatible will almost all types of access control and safety management systems.
- **Approvals:** U.L. and C.S.A. listed.

MODEL 490 Industrial Vehicular Swing Gate Operator