



**LIFT-ARM BARRIER GATE**  
**Model EL-2020**



*Model EL-2020 Lift-Arm Barrier Gate*

**Standard Features**

- *24VDC Brushless Direct Drive Motor*
- *Extremely Fast Operation Times*
- *NO belts, pulleys, or limit switches*
- *Virtually "Maintenance Free" single gear motor*
- *Battery backup*
- *Dual Loop Detector*
- *Programmable receiver for remote transmitters*
- *Tempered Steel never-ending screw motor w/ overload protection*
- *Special fault-tolerant Power Supply*
- *Aluminum Gate Arms w/rubber bumper for 10' or 12' gate arms*
- *Illuminated LED strip on upper edge of straight gate arm*
- *Rust Proof high density aluminum housing w/ polyester powder coated enamel paint finish (aluminum, white or yellow)*
- *Flashing yellow warning lights during gate arm operation*
- *Locked flip-back upper hood fitted with emergency stop micro switches.*
- *Zinc plated steel support levers*
- *Adjustable balance spring in housing*
- *Permanently sealed lubrication*

**Options**

- *Optional Ultrasound Sonar rebound safety feature*
- *Folding Gate Arm model available*

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I. Purpose:

The **SysParc** Model EL-2020 Lift-Arm Barrier Gate is an access barrier control device that provides ingress/egress for vehicular traffic lanes 10' to 14' wide. The gate is raised by a "vend" signal from a ticket dispenser, card reader, or any other electronic controlling device via its Form "C" DPDT dry-contact relay. This "vend" signal causes a lift-arm barrier gate to activate, and raise and then lower automatically.

II. Features & Functions:

- A. The Model EL-2020 Lift-Arm Barrier Gate is designed to cycle within 2 seconds when equipped with a standard 10' aluminum arm.
- B. The EL-2020 may be configured with *optional* dual electronic non-resettable totalizing counters, one of which will increment with each and every gate cycle.
- C. The EL-2020 is configured with dual inductive loop detectors, to be used for "arming" and "safety/closing" of the gate.
- D. The Model EL-2020 Lift-Arm Barrier Gate is powered by a universal 24VDC power system that will accept any power input (from 85-265VAC / 50-60Hz), and will contain battery back-up sufficient at a minimum to accomplish 100 cycles in the event of a power outage.
- E. The EL-2020 Barrier Gate is designed to operate in ambient temperature of -32°F to 140°F (-36°C to 60°C).
- F. Has "Auto/Manual" toggle switch to allow the gate to be raised or lowered manually.
- D. The Barrier Gate housing is constructed of .090" aluminum.
- E. Each Barrier Gate uses a 24Volt brushless DC variable speed motor.
- F. Each Barrier Gate arm flange will provide for mounting the aluminum arm in the horizontal (lowered) position at a height of 36" above the housing's grade level.
- G. The Barrier Gate Arm (boom) is constructed of extruded tubular (hollow) aluminum, and internally counterbalanced with adjustable extension springs.

III. Physical Description:

- A. The Model EL-2020 Lift-Arm Barrier Gate's overall dimensions are 13.75" deep, by 13.75" wide, by 67" in height. It weighs 95 pounds.
- B. The electrical power requirements for the Barrier Gate are 115VAC at 60Hz, or 220VAC at 50Hz. An internal UL approved step-down transformer converts this current into the 24VDC required to power all of the electrical circuitry within the device.
- C. The Barrier Gate contains a microprocessor controlled mechanism which includes a date/time clock calendar. This processor may be programmed with its operating parameters remotely via available RS-232 communications connection.

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