

## LIGHTING

Bayside Controls continues to supply the Display, Exhibit and Museum industries with lighting controls just as it has for the last forty years. Our controls are designed to sequence incandescent lamps and neon in many different ways.

- Incandescent lamp controls
- Dimmers. Single and multi channel
- Neon controls
- Lighting synchronized to sound and video.
- One circuit flasher to hundreds of circuits.
- Custom controls to your specifications.

Bayside Controls has bright ideas when it comes to lighting controls. Give us a call. Let us turn your lights on.

We also make **FIBER OPTIC** displays

## LIGHTING

## PROM Controls

**OPERATION:** The prom series advances to the next program step with an internal resistor capacitor time base. The standard time base is adjustable from one tenth second to one half second per step. Other ranges are optional as is a 60 Hz or crystal time base for precision timing. The unit begins advancing when a momentary closure is made across it's start inputs. There are two modes of operation. Single STEP and single CYCLE. The unit can be programmed to stop at multiple points within the program in the single STEP mode. It is restarted with a momentary start input. In single CYCLE mode it will run through the entire program then stop and wait for a start input. The Prom unit will not stop if the start input is maintained.

**CONSTRUCTION:** Power supply and electronic solid state logic components are mounted on printed circuit boards. Power drivers mounted on aluminum heat sinks. Heat sinks, printed circuit boards and power supply transformer mounted on quarter inch impact resistant phenolic panel. All output connections are made to number six screw terminals. Complete control can be supplied mounted in NEMA box. NEMA box provides easy access for wiring, protection from contaminants and mechanical damage as well as meeting the national electrical code for electronic devices.

**SHOCK MOUNTING:** Shock mounts are provided on request to provide added protection for frequently shipped controls.

**ELECTRICAL REQUIREMENTS:** 115VAC 50/60 Hz. 1 amp. Current rating is for controller only. Total current is dependent on loads being switched.

**CIRCUIT PROTECTION:** Fuses are provided on all standard units. Fuses limit damage to the control in the advent of a short or overloaded circuit.

**STANDARD LOAD CAPACITY:** 1000 watts per circuit with no more than 1800 watts on at any time for 115vac loads. Higher output and total wattage's available with custom units.

**INPUT:** Dry contact closures can be used to start stop and reset unit.

**INDICATORS:** On the logic board, one green LED to indicate power, one red LED to show the speed of the time base. The red LED will flash for each step advancement. On the power supply there is one red LED to indicate presence of five volts. One green LED to indicate twelve volts.

- Bayside will program your control or you can do the programming with the Bayside PROMGRAMMER.

## LIGHTING

### SYNC Controls

**OPERATION:** The SYNC series controls advance from an external input. This external signal can originate from many types of mechanical, audio and/or video equipment. It requires a dry contact closure for input. Some audio/video equipment may need an interface device such as tone decoders or relay boards in order to work with the SYNC unit. An internal time base, available on all units, can be activated with a single pulse from external equipment. This AUTO RUN feature provides automatic advancement of the program.

**CONSTRUCTION:** Power supply and electronic solid state logic components are mounted on printed circuit boards. Power drivers mounted on aluminum heat sinks. Heat sinks, printed circuit boards and power supply transformer mounted on quarter inch impact resistant phenolic panel. All output connections are made to number six screw terminals. Complete control can be supplied mounted in NEMA box. NEMA box provides easy access for wiring, protection from contaminants and mechanical damage as well as meeting the national electrical code for electronic devices.

**SHOCK MOUNTING:** Shock mounts are provided on request to provide added protection for frequently shipped controls.

**ELECTRICAL REQUIREMENTS:** 115VAC 50/60 Hz. 1 amp. Current rating is for controller only. Total current is dependent on loads being switched.

**CIRCUIT PROTECTION:** Fuses are provided on all standard units. Fuses limit damage to the control in the advent of a short or overloaded circuit.

**STANDARD LOAD CAPACITY:** 1000 watts per circuit with no more than 1800 watts on at any time for 115vac loads. Higher output and total wattage's available with custom units.

**INPUT:** Dry contact closure required to advance and reset program. Program will advance at the end of a 1/4 to 1/2 second closure. the same closure of a 2 to 4 second duration will reset the control. Contact current is 100 ma.

**INDICATORS:** three seven segment readouts indicate program step position. Two LED's indicate contact closure. A third LED indicates a Closure of sufficient duration to reset the program. Two more LED's on the power supply board indicate presence of 12 volts and 5 volts.

- Bayside will program your control or you can do the programming with the Bayside PROMGRAMMER.

## LIGHTING

### DIMMER Controls

**OPERATION:** The DIMMER is a single phase incandescent lamp dimmer with three inputs. One input will send the dimmer up to full intensity. Another input will send the dimmer down to minimum intensity. A third input, when maintained will continuously send the dimmer up and down. Speed of the fade rate is controlled by two 16 position rotary dip switches for a total of 256 speed increments. Speed ranges from 3 tenths of a second to two minutes for a complete fade. Multiple DIMMERS can be used simultaneously for single or multiple cross fade controls. DIMMERS can also be controlled by PROM or SYNC controls.

**CONSTRUCTION:** Power supply and electronic solid state logic components are mounted on printed circuit boards. Power drivers mounted on aluminum heat sinks. Heat sinks, printed circuit boards and power supply transformer mounted on quarter inch impact resistant phenolic panel. All output connections are made to number six screw terminals. Complete control can be supplied mounted in NEMA box. NEMA box provides easy access for wiring, protection from contaminants and mechanical damage as well as meeting the national electrical code for electronic devices.

**SHOCK MOUNTING:** Shock mounts are provided on request to provide added protection for frequently shipped controls.

**ELECTRICAL REQUIREMENTS:** 115VAC 50/60 Hz. 1 amp. Current rating is for controller only. Total current is dependent on loads being switched.

**CIRCUIT PROTECTION:** Fuses are provided on all standard units. Fuses limit damage to the control in the advent of a short or overloaded circuit.

**STANDARD LOAD CAPACITY:** 1800 watts for 115vac loads. Higher output wattage's available with custom units.

**INPUT:** Three independent dry contact closures can be used to: 1. Send the dimmer up. 2. Send dimmer down. 3. Continuously cycle dimmer up and down.

**OPTIONS:** Upper and Lower limit settings  
Independent up and down speeds.  
Multiple phase.

**INDICATORS:** There are four LED indicators on the DIMMER board. One to indicate power and three more to indicate important signals on the board.

## NEON CONTROLS

Bayside has designed and manufactured neon controls for the largest manufacturer of neon signs in New York. Most notably, Bayside has designed controls for the majority of animated neon signs in Manhattan's Times Square district.

Our neon control designs have been as small as one circuit flashers, as large as two hundred 20 amp circuits. The most sophisticated have RF snubbers, multi speed control and multiple program selection.

- Solid state circuitry.
- Custom made for your sign.
- No power ventilation required.
- Multi-speed control optional.
- Animation programmed to your specification.
- Programs can be easily modified after installation.
- Multiple program selection.
- RFI snubbers.
- Unlimited expandability

Give us an opportunity to make your next Neon sign come to life.

## NUMERICAL DISPLAYS

At Bayside our experts use the most sophisticated and state of the art technology. We have designed "Time-To-Next" show displays, large stopwatches, production counters, people counters, game show score readouts, clocks, and more.

Our technologies include products:

- Custom designed to suit your needs.
- Semi-standard modules compiled for custom configurations.
- .5 inch - 5 inch, seven segment LED displays
- Incandescent displays from 3 inch to 3 feet
- Incandescent displays made from discrete lamps in dot-matrix pattern (5x7, 7x9 and custom configurations)
- Interfacing cables (custom lengths available)
- Systems designed to interface with push-buttons, sensors, computer terminals or any other equipment.

You can count on Bayside Controls for all your numerical displays.

## MECHANICAL CONTROLS AND INTERFACING

Bayside's controls are behind many mechanical animation's. Several auto air bag demos use our controls and can be seen at the yearly auto shows. The latest control was designed to interface with several water level sensors, water pumps, solenoids and motors to control a working model of a canal and lock system. We can interface and control your animation or build a complete animation for your display. Bayside also makes it a point to interface with the customer.

- Complete Mechanical, Hydraulic and Pneumatic animation's
- Controls for your mechanical animation.
- Magnetic, optical and mechanical limit switches.
- Interfacing animation's to lights, audio, video.
- Multi-stop turntable controls.
- Variable speed, programmable motor controls.

We have the experience and knowledge to help get your next animation moving. Let us help you design your next animation.

## PEOPLE SENSORS

Bayside Controls has many types of sensors to meet the needs of museum and trade show exhibits. From sonar sensors that can measure distance to radar.

- Active infrared beam type.
- Passive infrared detector.
- Sonar (distance measurement).
- Pressure sensitive.
- Sound activated.
- Active radar.
- Combination Microwave/ Passive Infrared.
- Interfacing and power supplies.

Bayside uses good sense when it comes to sensors. If you want to know when people are around, how much they weigh or even how tall they are, Bayside can help you select the correct sensor and supply it. If you sense a sensor problem? Give us a call. We have a sensible the solution.

## AUDIO/VIDEO CONTROLS AND SERVICES

Bayside is keeping up with the fast changing audio and video technologies. From inexpensive digital audio play back units to complex video disk productions. Bayside has the controls, interfaces and the ability to put together a sound system.

- Electronic digital play back units. Inexpensive to CD quality sound.
- Audio compact disk mastering.
- Computer control of laser disk players, DAT players, CD players, 3/4" video tape players.
- Four track compact disk.
- Interfacing to our lighting and animation controls.
- Amplifiers
- Audio and video switchers.
- Tone decoders

Bayside has sound solutions to your audio and video needs. Call Bayside for audio and video.