

ELCO-12 MKIII FLASHER

Designed to provide a highly reliable sub-system that is totally compatible with the earlier MKI and MKII designs, the unit uses the latest surface mount and micro-controller technology to provide a compact, robust self-contained solid state device incorporating several new features.

Depending on the nature of the switched load, these flasher units can be used in a variety of applications operating from a nominal 12v or 24v supply. The flasher utilises Pulse Width Modulation (PWM) to achieve a very high degree of regulation for so long as the input voltage exceeds the required load voltage by a small amount (typically 0.2v). At low input voltages, the output will track the input with a difference of typically 0.2v.

The MKIII flasher provides the user with a convenient, easily set up device that may be used as replacement for earlier flashers or in new designs. A special low power microcontroller provides the circuit with many features.

FEATURES

256 character programmable 253 standard character store on chip.

Custom characters available, programmable on site.

Programmable to 10.3, 10.8, 11.1 or 12V output (10.3v standard supplied unless requested).

Easy computer set-up on site.

Monitoring and control interface built-in.

Temperature compensated precision voltage regulated filament output.

Automatic day/night operation by built-in photocell.



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Light switching levels programmable on site.

Remote photocell operation if required.

Lampchanger or twin filament operation.

First filament failure alarm latched and maintained independent of day/night status.

Full protection against lamp short-circuiting and reverse polarity.

Character period up to 25s plus period doubling facility.

Optically coupled master/slave operation with synchronisation isolation up to 1Kv.

Specially fully seated moulded housing with rapid access to set up switches.

Simple two stud fixing with recessed screw terminal connection.

Pharos Marine  **Automatic Power**

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Input voltage:	11 – 30 volts DC
Output voltage:	10.3 volt rms $\pm 2\%$ (Selectable 10.3, 10.8, 11.1 or 12v) 100 watts.
Output power:	2 to 150 w below 24v input, 100 w max above 24 v
Idling current:	0.7mA average 3mA max
Efficiency:	92-96% depending upon input voltage and load
Temperature range:	-25°C to +60°C
Outputs:	Two stage with automatic changeover to standby filament during flash or fixed light. Lamp 2 output can be set to operate lampchanger solenoids directly.
Auxiliary outputs:	Lamp 1 filament fail. Latched data present whenever lamp 2 is operating. Data is stored during eclipse periods and daytime. Solar Regulator: 10amps
Daylight control:	Internal or external photocells. Operation immediate, or delayed by setting SW1-4. 50-200 Lux. Normal setting 75 on, 125 off
Flash length:	Any multiples of 50ms
Eclipse length:	Any multiples of 50ms
Period time:	Any multiples of 50ms up to 25 seconds. Can be doubled by setting SW1-1. Delayed start period also doubles.
Character changing:	Set by switches on programmable microcontroller
Character stability:	$\pm 0.1\%$ crystal controlled
Fixed light:	Selectable by switches
Low voltage cut-out:	8.5v (programmable)
Dimensions:	80mm dia x 30mm high
Weight:	200g