

## CSF 256 P SOLID STATE FLASHER

The Cosema CSF 256 P programmable, solid state flasher (timer) represents a significant advance in navigational aid flashers. The Cosema CSF 256 P is a universal device able to operate with a number of other manufacturers' lampchangers (motor driven or solenoid actuated) or twin filament lamp arrangements and also to synchronize with other types of flashers.

The desired characteristic is programmed into an Eprom, which is latched to the flasher circuit board. The advantage of this technique is that the flash characteristic can easily be modified in the field without special tools. An optional multi-character arrangement is available, giving 256 characteristics by means of a selector switch. Cosema have deliberately chosen readily available Eprom, so that customers may carry out their own programming if they wish. The flashers can be easily installed in the field and can be substituted for most existing 6, 10.3, 12, and 24 Volt models.

The CSF 256 P Flasher will accept an input range of 6 to 24 Volts DC and provide a regulated output to the lamp of 6, 10.3, 12 or 24 Volts DC. It combines the latest time constant circuitry to ensure smooth, fast, reliable switching. The unit provides any characteristics up to 655 seconds in duration, with a timing accuracy greater than 0.1% of the set characteristic over an ambient temperature range of -40°C to +60°C. It will hold this timing accuracy for input voltage variations within the specified range.

The CSF 256 P Flasher is a master unit with synchronizing circuitry which allows any number of flashers with identical characters to be linked and flash in unison. The built-in micro-processor is able to synchronize with many other makes and types of flashers.

The unit absorbs less than 6 milliamps current during the eclipse cycle and causes an exceptionally low voltage drop during the flash cycle. Operation is entirely electronic, with no moving parts.



The unit is fully protected against reverse polarity and short circuits. It will operate lamps from 2 to 100 Watts. Cosema have designed the flasher to operate either lampchangers or twin filament lamps, without the need for adjustment. On changeover from duty filament to stand-by filament, a contact is provided to indicate filament change for remote monitoring.

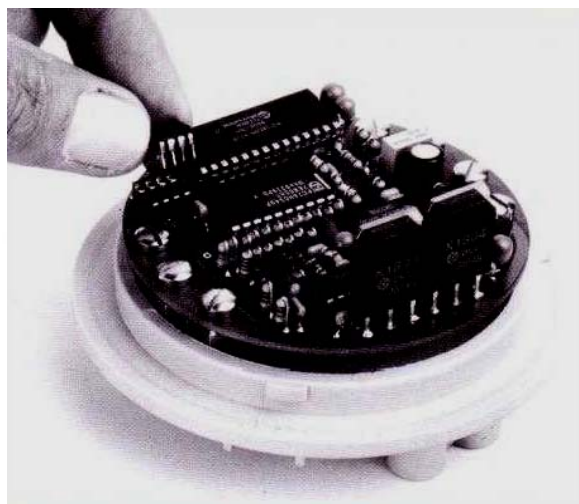
The built-in daylight control circuit has a board mounted potentiometer, allowing adjustment of the lux level switching point for customer selection of switch on and off light levels.

The lightweight, compact unit is housed in a gasketed, moulded nylon housing, providing excellent sealing against corrosive marine atmosphere.

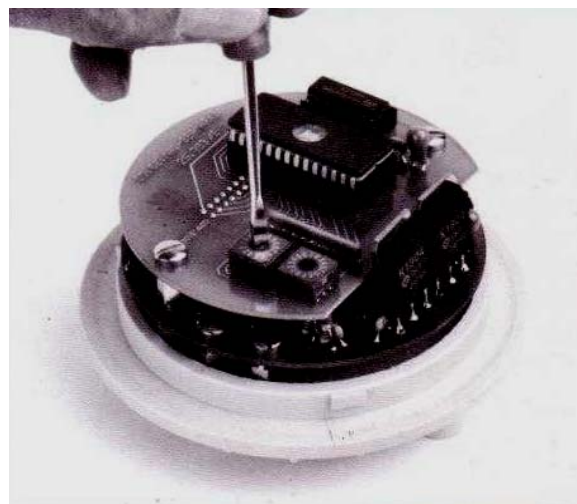


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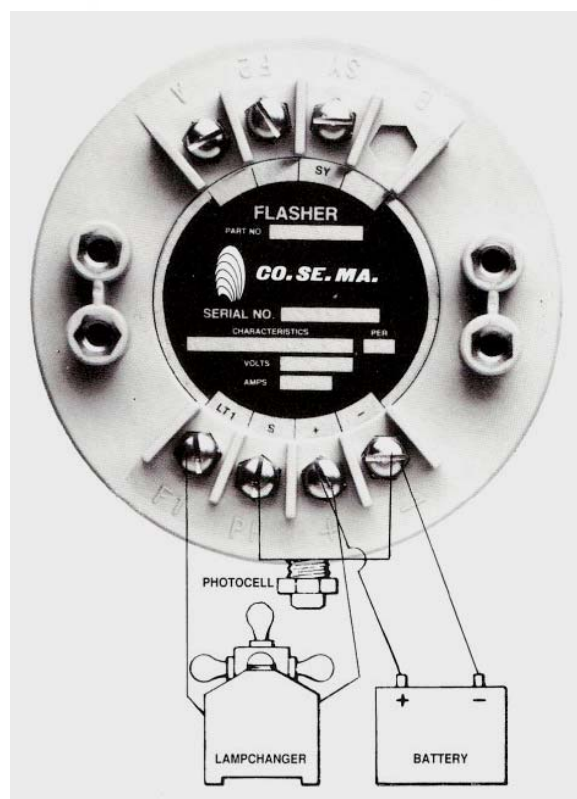
SINGLE CHARACTER MODEL



256 CHARACTER MODEL

### TECHNICAL DATA

Input voltage:	6 to 24 Volt DC
Output voltage:	Selectable at 6, 10.3, 12 o 24Volt RMS
Output power:	2 to 100 Watts
Daylight control:	Adjustable lux level
Connections:	Seven 3 mm screws, coded terminals
Outputs:	Lampchanger or double filament lampholder
Characteristic:	(Standard single character) Any up to 655 seconds duration, minimum time interval 0.01 seconds
Synchronization:	Any quantity of timers using two wire system
Accuracy:	Better than 0.1%
Change of character:	Rotate the two hexadecimal switches
Temperature:	-40° +60°
Materials:	Moulded nylon body and housing with silicon gasket
Weight:	0.3 Kg.
Dimensions:	mm. 104 x (h) 68



WIRING DIAGRAM

COSEMA reserves the right to modify the characteristics of their products without previous notice