

FLASHER MODULES AND CIRCUIT CARDS

Product Description



The FLA- series flasher modules have been designed as a robust module for field use. The FLA-01 is a microprocessor based module which senses full wave or half-wave AC operation and can be configured for alternate flash output operation. This is a high current output module for incandescent, QH and LED applications. This unit includes internal fuses and neon indication of voltage state. The FLA-02 and FLA-03 are basic AC 240V and AC110 V one and two aspect flasher operation modules with fused outputs. The FLA-04 and FLA-05 are economy flasher modules, which are DC based modules suitable for operation with LED displays. The circuit is dependent on external fuses for over current protection.



Applications

- Hazard / warning flashers
- School zone safety flash controller
- Work zone and hazardous area safety flashers
- Traffic controller safety flash module (FLA-01 only)

Flasher Product Range

- FLA-01 240VAC freestanding enclosed module
- FLA-02 240VAC enclosed module for installation in traffic signal lantern
- FLA-03 110VAC enclosed module for installation in traffic signal lantern
- FLA-04 24VDC PCB form or enclosed module for installation in traffic signal lantern *
- FLA-05 12VDC PCB form or enclosed module for installation in traffic signal lantern *

* The HS version is suitable for higher current applications - verify your current requirement with the supplier



Flasher Optional Extras

FLA-Base	An aluminium mounting plate
FLA-Enclosure	A weatherproof enclosure (MILSPEC panel connector)
FLA-Lid	A cover for the FLA-02/03/04/05 flasher circuit card modules
FLA-CK	A cable kit
FLA-CKF	A cable kit including fuses

General Specification

Electrical

The circuit module consumes 100 milliamps (not including lamp load).

The Power MOSFETS will conduct up to 4 amps at 30 volt DC in this configuration. The recommended current threshold for heatsink utilisation in this application is typically 4.5 amps at 12 volt DC (maximum 60VA).

Connectors

Mate-enlock connector

- current rating 3amp per pin, contact resistance 30 Mohmmax at DC100mA.

Removable 'Post' Connector

- PCB modular terminal 'Phoenix style' 10 amp rated voltage 300 volt AC.

Environmental

Circuitry implemented on all cards is rated to 65°C operation with a relative humidity of 90%. Circuit cards are conformal coated and will operate within Australian Standard Guidelines for Traffic Control Devices as per TSC/3 and TSC/4. The CONFORMAL coating material used to protect the circuit cards is labelled SCC3 CC from Electrolube. The material is sprayed onto the circuit cards in accordance with the manufacturer's recommendations and required Occupational, Health and Safety practices. The conformal coating material has a dielectric strength of 90 KV/mm and an operational temperature range of -70°C to 200°C and is self extinguishing when exposed to a flame.

