

UNIVERSAL PHASE ANGLE

FC11AL

TRIGGER MODULE

X10222

INTRODUCTION

This single phase or phase to phase firing module uses variable phase-angle control with adjustable signal matching and adjustable soft-start. The power transformer is remote for increased reliability and wide operational voltage capacity. The unique *MONO-LINK firing system is ideal for use with inductive loads and requires minimal wiring to the power devices. The module is fully enclosed for safety and eligibility in industrial environments.

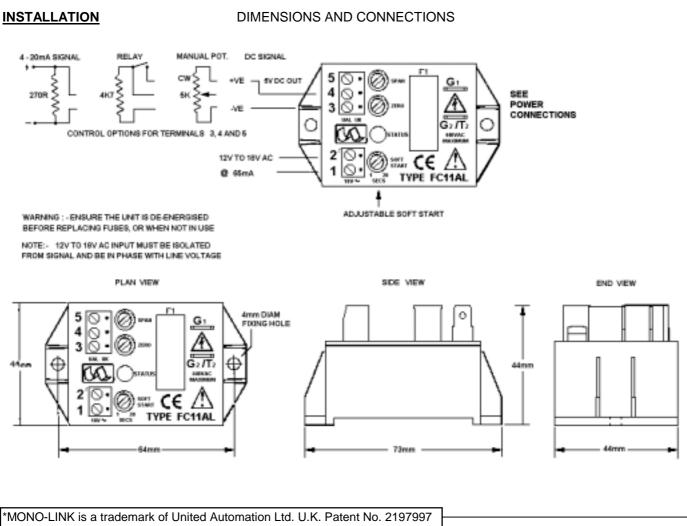
APPLICATIONS

Applicable to most AC resistive or inductive loads via a triac or thyristor, on single phase to neutral or phase to phase supplies, within voltage limits. Also suitable for half-wave vibrator control.

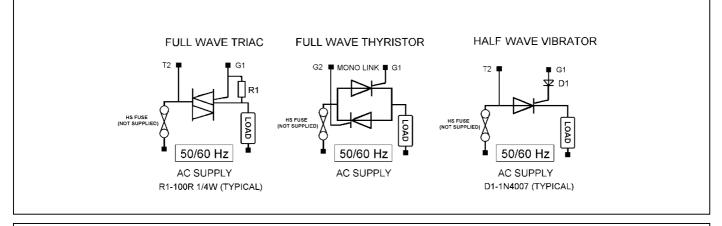
FEATURES

- Fires triacs or thyristors up to 440V (50/60 Hz) supplies.
- MONO-LINK[™] Gate to Gate firing.
- High Isolation opto-coupled output.
- Status LED giving output level indication.
- Adjustable Soft Start Function.





POWER CONNECTIONS



SPECIFICATION

- Signal Span Minimum Signal Span Maximum Signal zero offset dV/dt rating Max. Gate/Line voltage Trigger isolation voltage Trigger output rating Storage temperature range
- 0 to 2V dc 0 to 25V dc 0 to 30% of span 100V/µs 440V ac 4000Vrms 0.8A -20 to +85°C
- AC input supply Auxiliary output Line Frequency Operating temperature range Adjustable soft start Mono-link fuse Manual potentiometer Power connections
- 12 to 18V ac @ 65mA 5V dc 50/60 Hz 0 to +65°C 0-20 seconds F100mA (HRC) 2K, 5K or 10K 6.3mm Amp tags

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (semiconductor- MCB) for unit protection and appropriate protection for unit supply (HRC F1A). On initial 'switch on' some loads need an increased Factor of Safety (F of S) for unit and/or device protection. See SRA Data sheet for further information.

CE MARKING

This product family carries a "CE marking". These phase angle controllers need a suitable remote filter. For information see recommendation section and contact our sales desk. (See Declaration of Conformity)

| RECOMMENDATION | | |
|--|----------|---|
| Other documents available on request, which may be appropriate for your applications. | | |
| CODE | IDENTITY | DESCRIPTION |
| X10229 | RFI | Filtering recommendation - addressing EMC Directive |
| X10213 | ITA | Interaction, uses for phase angle and for burst fire control. |
| X10255 | SRA | Safety requirements - addressing the Low Voltage Directive (LVD) |
| | | including :- Thermal data/cooling ; "Live" parts warning & Earthing |
| | | requirements; Fusing recommendations. |
| AP02/4 | COS | UAL Conditions of sale |
| NOTE It is recommended that installation and maintenance of this equipment should be done with reference to | | |
| the current edition of the I.E.E. regulations (BS7671) by suitably qualified/trained personnel. The regulations | | |
| contain important requirements regarding safety of electrical equipment. (For International standards refer | | |
| to I.E.C. directive I.E.C. 950). | | |

ORDER CODE:

State part number: FC11AL + Signal option. Optional extras include Potentiometer, and Supply transformer.

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