

UNIVERSAL PHASE ANGLE

TRIGGER MODULE

FC11AL

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.

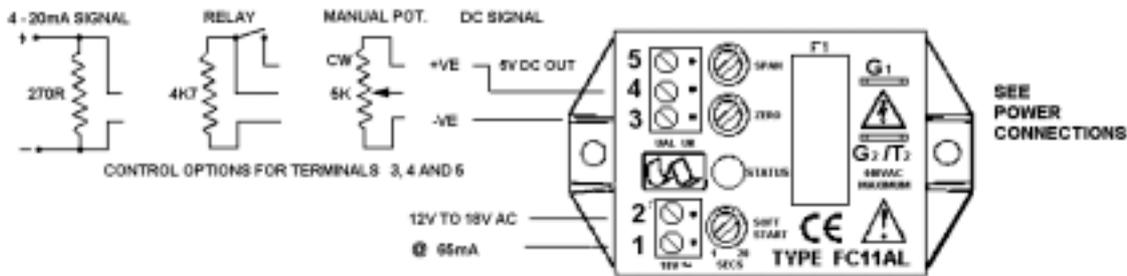
FEATURES

- 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.



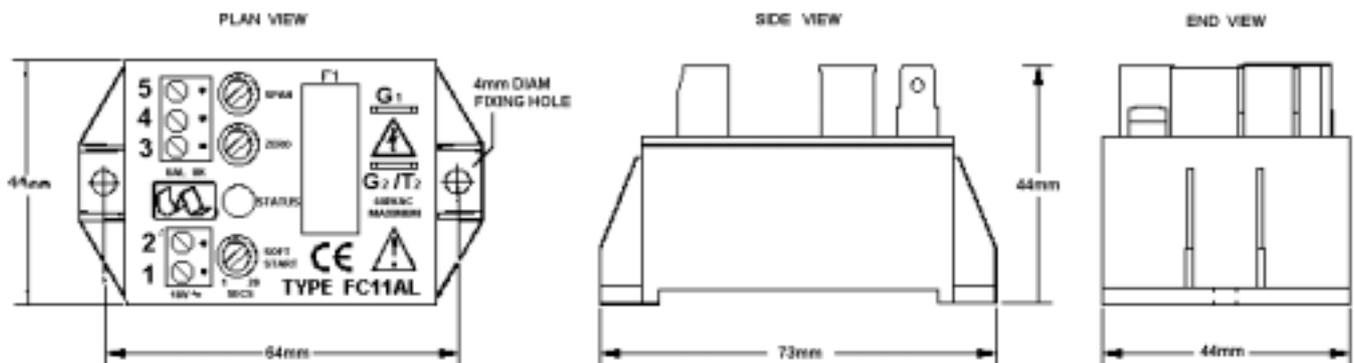
INSTALLATION

DIMENSIONS AND CONNECTIONS



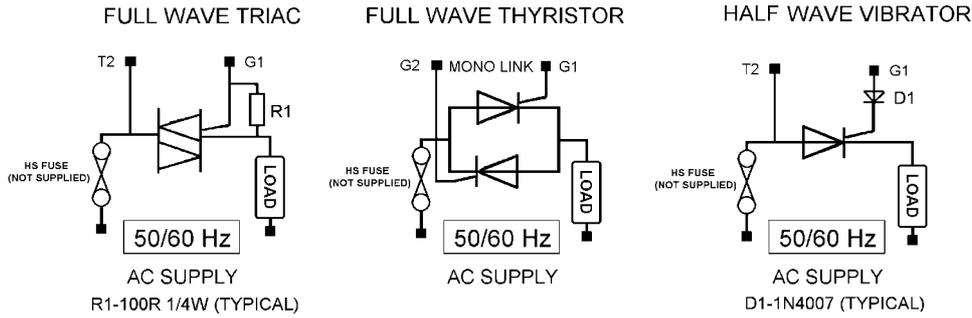
WARNING : - ENSURE THE UNIT IS DE-ENERGISED BEFORE REPLACING FUSES, OR WHEN NOT IN USE

NOTE:- 12V TO 18V AC INPUT MUST BE ISOLATED FROM SIGNAL AND BE IN PHASE WITH LINE VOLTAGE



*MONO-LINK is a trademark of United Automation Ltd. U.K. Patent No. 2197997

POWER CONNECTIONS



SPECIFICATION

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