

UNIVERSAL PHASE ANGLE

TRIGGER MODULE

FC11AL

X10222

INTRODUCTION

This single phase or phase to phase firing module uses variable phase-angle control with adjustabe signal matching and selectable 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.

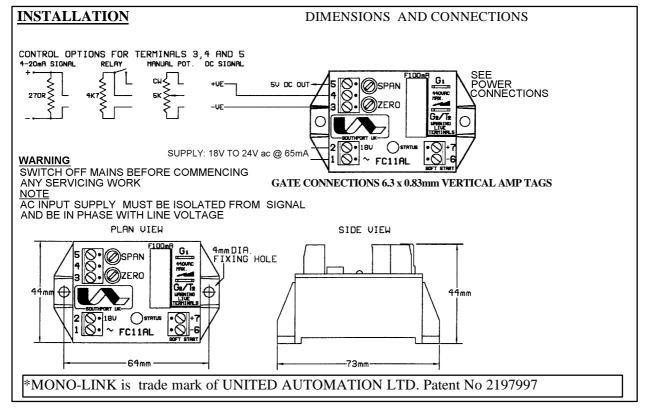
APPLICATIONS

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

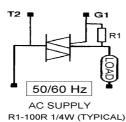
- Fires triacs or thyristors up to 440V
 (50/60 Hz) supplies.
- MONO-LINK™ Gate to Gate firing.
- High Isolation opto-coupled output.
- Status LED giving output level indication.
- Soft Start Function.



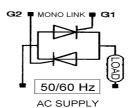


POWER CONNECTIONS

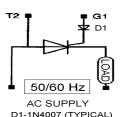
FULL WAVE TRIAC



FULL WAVE THYRISTOR



HALF WAVE VIBRATOR



SPECIFICATIONS

Signal Span Minimum 0 to 2V dc 18 to 24V ac @ 65mA AC input supply Signal Span Maximum 0 to 25V dc 5V dc @ 5mA protected Auxiliary output Signal zero offset 0 to 30% of span Line Frequency 50/60 Hz $0 \text{ to } +65^{\circ}\text{C}$ dV/dt rating 100V/us Operating temperature range Max. Gate/Line voltage 440V ac Soft start capacitor $0.06s \mu F$ Trigger isolation voltage 4000 VrmsMono-link fuse F100mA (HRC) Trigger output rating 0.8AManual 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. See SRA Data sheet for further information.

CE MARKING

This product family carries a "CE marking". These phase angle type controllers require 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 the 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. wiring 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 IEC 950).

ORDER CODE:

State part number: FC11AL + Signal option.

Optional extras include: Potentiometer, Soft start capacit Supply transformer.



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