

UNIVERSAL PHASE ANGLE

TRIGGER MODULE

X10221

AFM-11

INTRODUCTION

This single phase or phase to phase trigger module uses variable phase angle control with adjustable signal matching, integral current limit input and adjustable soft start. The pulse train output is reliable, powerful and universally applicable to resistive or inductive loads. The power transformer is remote for increased reliability and wide operational voltage capability. Adjustable current limit allows feedback control and via a few external parts, this can also give voltage or speed control of AC or DC loads. The module is fully enclosed for safety and eligibility in industrial environments.

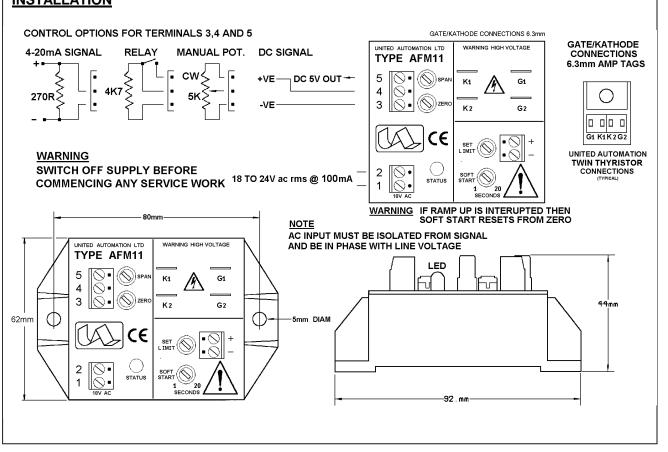
APPLICATIONS

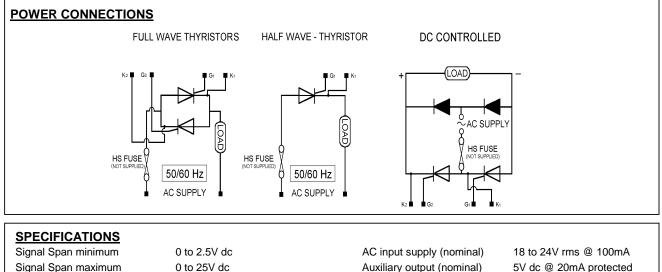
Applicable to most AC or DC, resistive or inductive loads via thyristor, triac or hybrid diode stacks on single phase to neutral, or phase to phase supplies, within voltage limits.

FEATURES

- Fires triacs or thyristors up to 480V, 50/60 Hz supplies.
- Adjustable soft start function.
- Adjustable current limit control.
- Pulse train firing via isolation transformer.
- Consumes under 2 watts.
- Status indication

INSTALLATION





Signal Span maximum Signal Zero offset Signal input resistance Trigger pulse height Trigger pulse rating Trigger isolation voltage Trigger shorted output

0 to 50% of span $5000\Omega \pm 20\%$ 8V open circuit 250mA in to 10Ω 2500V rms Protected

Auxiliary output (nominal) Thyristor line voltage Manual potentiometer Limit feedback input Soft start Storage temperature Operating temperature

5V dc @ 20mA protected 110 to 480V rms @ 50/60 Hz $2K\Omega$, $5K\Omega$ or $10K\Omega$ 0.6 - 30V dc 0-20 seconds -20°C to +85°C 0°C to 75°C

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection and an appropriate safety fuse for the units supply (F1A). On initial 'switch on' some loads may need an increased factor of safety (F of S) for unit and/or device protection. (See the SRA Datasheet 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 the Declaration of Conformity).

RECOMMENDATIONS

Other documents available on request, which may be appropriate for your application:-

CODE	IDENTITY	DESCRIPTION
X10229	RFI	Filtering recommendations - 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 & Earth
AP02/4	COS	requirements; Fusing recommendations. 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:

AFM11

Optional extras include: Potentiometer, Supply transformer, complete assemblies, Filter. When ordering a filter the current of the load is required.

