

# UNIVERSAL BURST FIRE

## TRIGGER MODULE

X10219

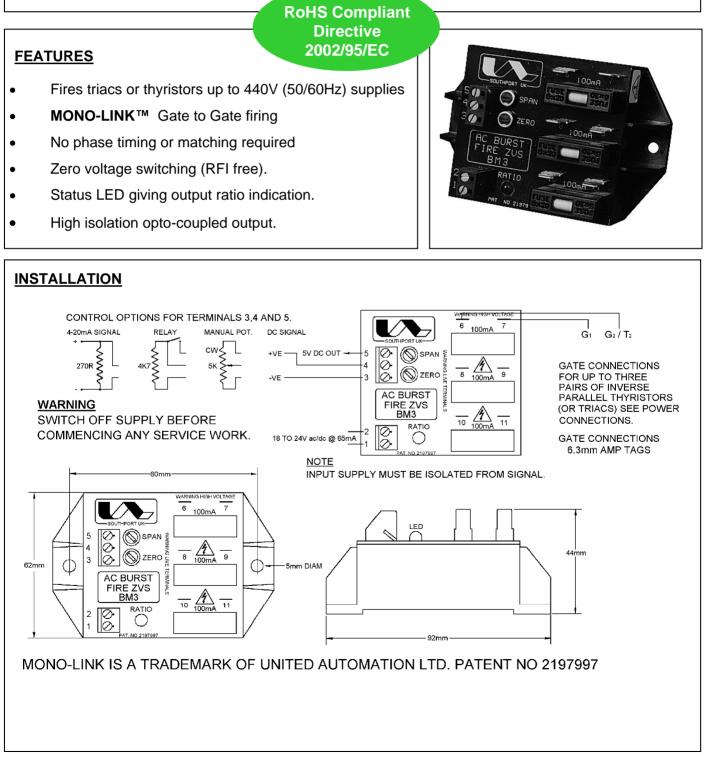
BM1/2/3

#### **INTRODUCTION**

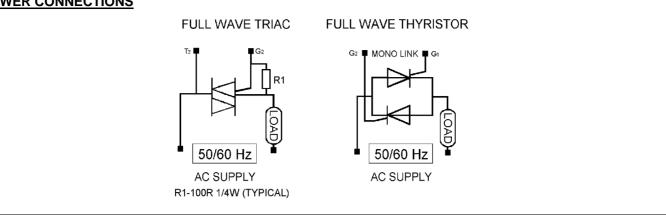
This burst fire control module incorporates the unique MONO-LINK<sup>™</sup>, Gate to Gate, firing feature, which uses single path hard firing for each phase thyristor pair, eliminating cathode firing connections. The zero crossing triggered output has a variable on/off ratio, which is proportional to the manual control signal or dc input demand signal. Phase timing problems are eliminated, as the opto-isolated output driver stage is self timing from the associated power device connections. The burst firing circuit prevents fast changes in load current thus inhibiting Radio Frequency Interference.

#### **APPLICATIONS**

Virtually all resistive heater loads including air curtains, space heaters, ovens, furnaces, hot plates, extruders, moulders, boilers, soldering pots and irons, heating tapes, drying and other heating & ventilating applications, when used in conjunction with auxiliary power devices.



#### **POWER CONNECTIONS**



#### **SPECIFICATIONS**

- Signal Span minimum Signal Span maximum Signal Zero offset dv/dt rating Max. Gate/Line voltage Trigger isolation voltage Trigger output rating Storage temperature
- 0 to 2V dc 0 to 25V dc 0 to 30% of span 100V/ µs 440V ac 2500V rms 0.8A 20°C to +85°C
- AC input supply Auxiliary output Line Frequency Max. Ambient temperature Cycle time base nominal Mono-Link fuse Manual potentiometer Power connections

18 to 24V ac/dc @ 65mA 5V dc @ 5mA protected 50/60 Hz 65°C operational 1 second F100mA (HRC) 2K, 5K or 10K 6.3mm Amp tags

#### FUSING

It is recommended that semiconductor, fast acting type, fuses or circuit breakers (Semiconductor-MCB) be used for protection. On initial operation some loads may 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. For information see recommendation section and contact our sales desk. (See 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 requirements and 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 gualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International Standards refer to I.E.C. Directive IEC 950.

**ORDER CODE:** 

State part number: BM1, BM2 or BM3 + Signal option. Optional extras include: Potentiometer, Supply transformer, Power Stack, Heatsink paste, Fuses

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Issue 3

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