

1,2 & 3 PHASE BURST FIRING TRIGGER MODULE

BM1/2/3

X10219

INTRODUCTION

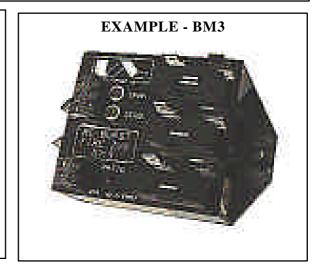
This burst fire control module incorporates the unique MONO-LINK™ - Gate to Gate firing feature which uses single path hard firing for each phase thyristor pair, eliminating cathode firing connections. The zero crossing triggered output has a variable on/off ratio which is proportional to the manual 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.

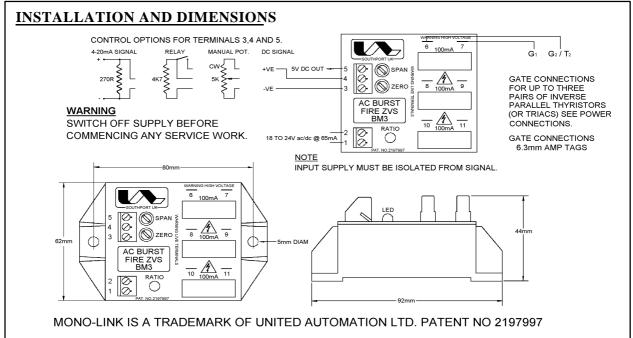
APPLICATIONS

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.

FEATURES

- Fires triacs or thyristors up to 440V,
- Hz supplies.
- MONO-LINK™ Gate to Gate firing.
- No phase timing or matching required.
- Zero volts switching (RFI free).
- Status LED giving output ratio indication.
- High Isolation opto-coupled output.

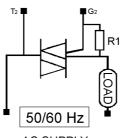


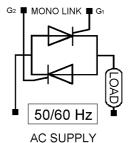


POWER CONNECTIONS

FULL WAVE TRIAC

FULL WAVE THYRISTOR





AC SUPPLY R1-100R 1/4W (TYPICAL)

SPECIFICATIONS

Signal Span minimum0 to 2V dcSignal Span maximum0 to 25V dcSignal Zero offset0 to 30% of spandV/dt rating100V/ μsMax. Gate/Line voltage440V acTrigger isolation voltage2500V rmsTrigger output rating0.8AStorage temperature-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
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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). See SRA Datasheet 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).

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: BM1, BM2 or BM3 + Signal option.

Optional extras include: Potentiometer, Supply transformer, Power stack.



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