MULTI-MODE MAINS MODULE
BURST FIRED OR PHASE ANGLE

ZAX27A

X10646

INTRODUCTION

The ZAX27A provides accurate and precise mains control in both burst fire or phase angle control modes of operation. This printed circuit board firing circuit is capable of driving an external triac or thyristor pair power devices for any load rating. Additional features also include an uncommitted op-amp, which may be used as an error amplifier or comparator for or closed loop (feedback) control,

APPLICATIONS

Virtually all resistance heaters including ovens, electric furnaces, moulders, dryers, smelters, heating tapes, stress relieving, space heating and heating mantles. This is unsuitable for use on inductive loads.

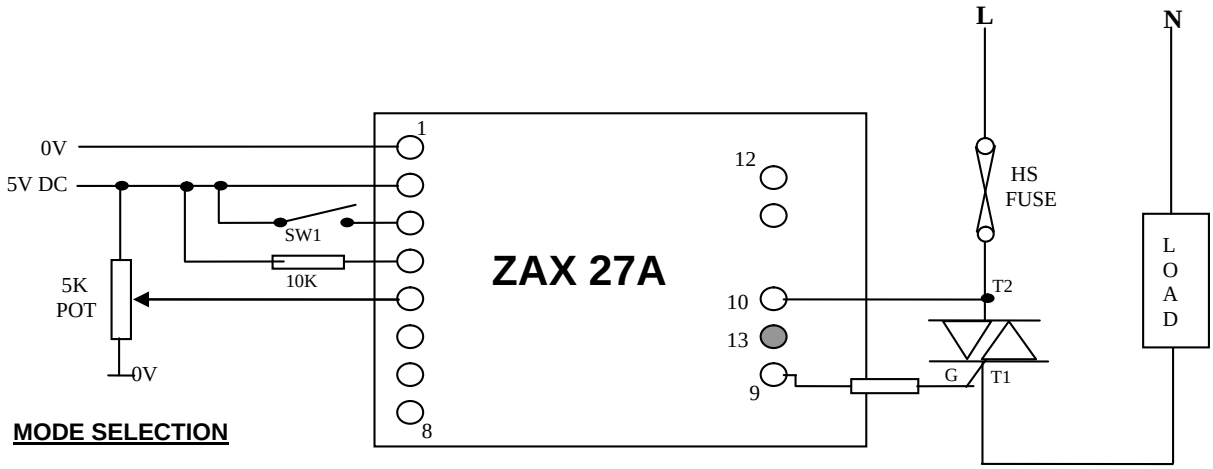
MAIN FEATURES

- – Dual mode control capability.
  (phase angle OR burst fire)
- Soft start delay function
- Output overload & temperature protection
- Current limit
- Microprocessor control compatibility
- 5KV input and supply isolation
- Suitable for slave firing triacs or SCR pairs



INSTALLATION

Connections Shown For Manual Control



MODE SELECTION

SW1 (ON) = Phase Angle
SW1 (OFF) = Burst Fire

WARNING

1. This unit requires fusing. This should be a fast acting semiconductor-type (FF5A) fuse placed in series with the 'LIVE' (240V input) supply lead.
2. All HAZARDOUS LIVE terminals - isolate supply before commencing any installation work.

SPECIFICATIONS

High voltage side		Low voltage side	
Mains voltage	230V ac ± 10% @ 50Hz	Supply voltage	5V
Supply current	30mA (max.)	Supply current	30mA (max.)
Max. RMS Load current	5A (max.).	Control input range	0 to 1V or 0 to 5V
Load power range	10W (min.); 1KW (max.)	Inhibit high logic	>4V
Over temp. shut down	90ºC	Inhibit low logic	<3V
Over temp. reset	60ºC	Supply voltage rejection	0.5%/V
Isolation Classification	Class II	Temperature coefficient	≤0.25%/ºC
Max. Cable entry	2.5mm^2	Operating temperature	0 to +65ºC

Dimensions

Overall (Max.) 21mm (H), excluding leads x 33mm (W) x 33mm (D)

FUSING:

A semiconductor (fast acting) type fuse is supplied as standard for unit protection. On initial 'switch on' some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. For spares or replacements contact our sales desk.

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.

RECOMMENDATIONS AND SAFETY GUIDELINES

Other documents available on request, which may be appropriate for your applications.

CODE	IDENTITY	DESCRIPTION
X20008	ZAX27A	Multi-mode mains module – Instruction manual
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 including :- Thermal data/cooling ; "Live" parts warning & Earth 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 IEC950).

ORDER CODE: *State part number:* **ZAX27A**

CE

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