



BURST FIRING TRIGGER MODULES

**BFTM-1
BFTM-3**

X10642

INTRODUCTION

The BFTM-1 and BFTM-3 single and three-phase burst-firing trigger modules designed to drive our full range of thyristors and triacs. The BFTM-1 is a single-phase or 2-wire format capability where as the BFTM-3 has a one-phase supply controlling three phase loads in star or delta configurations.

The control input signal is internally isolated and will accept either a dc signal or potentiometer. Proportional output control is indicated by a flashing LED. The module is designed for mounting on either standard or top hat profile or G profile DIN rail. External connections are via screw terminals, which together with the fuses are accessible from the front.

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.

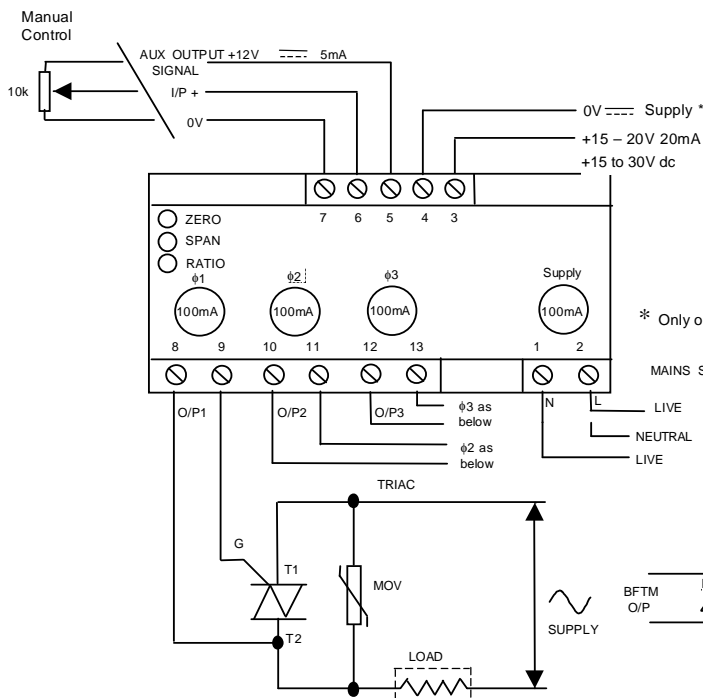
MAIN FEATURES

- Burst fire control zero voltage switching.
- Mains ac or low-voltage dc supply.
- Opto-isolated outputs.
- LED output control indicators.
- DIN-rail mounting.
- Input control signal accepts dc signal, or potentiometer.



INSTALLATION

Connections



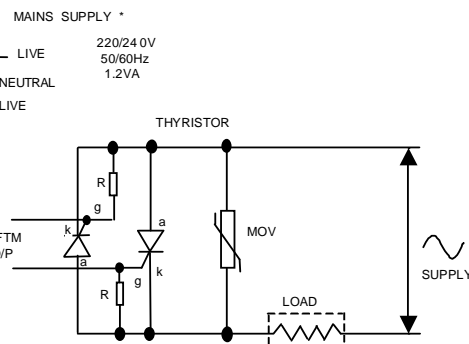
WARNING

1. This unit requires that any external power devices (e.g. SCRs, triacs) should be fused using SCR-type high-speed fuses (not shown in circuit below).

All HAZARDOUS LIVE terminals – isolate supply before commencing any installation work.

RoHS Compliant

* Only one source of supply must be used.



SPECIFICATIONS

Supply voltage	(V ac) OPTION-1 Terminals	230V ac $\pm 10\%$ @ 50Hz @ 1.2VA
1&2		
	OR (V dc) OPTION-2 Terminals	15V to 30V dc @ 20mA (max.)
3&4		
Signal span		2 to 25V dc (max.)
Zero offset		0 to 30% of span
Trigger current output		250mA (max. continuous) 1A for 10ms
Output isolation voltage		2500V rms
Line voltage of thyristors		100V to 480V ac
Operating temperature		0 to 65°C

FUSING:

It is recommended to use semiconductor (fast-acting) type fuses for device 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”. For information see recommendation section and contact our sales desk.

RECOMMENDATIONS & SAFETY INFORMATION

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

CODE	IDENTITY	DESCRIPTION
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.
P01.1	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.T. (formerly I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

ORDER CODE

State part number: **BFTM-1** (single-phase supply)
BFTM-3 (three-phase supply)

