



BURST FIRE FIRING TRIGGER MODULE C/W INTEGRAL 25A POWER DEVICE

FC11BL/2

X10261

INTRODUCTION

This single phase firing module has its own built in power device, reducing wiring and fixing connections. Ideal for heating loads up to 25A, when fitted onto a suitable heatsink. Burst firing operates on a 1second nominal time base. The zero crossing triggered output has a variable on/off ratio which is proportional to the manual control signal or dc input demand signal. The burst firing circuit provides trigger pulses coincide with the mains polarity crossover, ensuring complete sine wave cycles are passed through the resistive load. This prevents fast changes in load current and inhibits RFI.

APPLICATIONS

Virtually all resistive loads including ovens, hot plates, furnaces, dryer heater bands, space heating and other temperature control applications, up to 25A when fitted on to a suitable heatsink (1.3°C/W).

FEATURES

- 25A triac fitted.
- Universal span and zero matching to voltage or mA control signals.
- Status LED giving output level indication.
- No external filtering required.
- Consumes fewer than 2W.
- Adjustable soft start function.

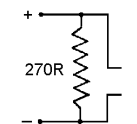
RoHS Compliant



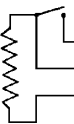
INSTALLATION

CONTROL OPTIONS FOR TERMINALS 3,4 AND 5

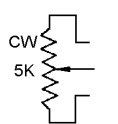
4-20mA SIGNAL



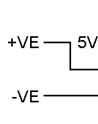
RELAY



MANUAL POT.



DC SIGNAL

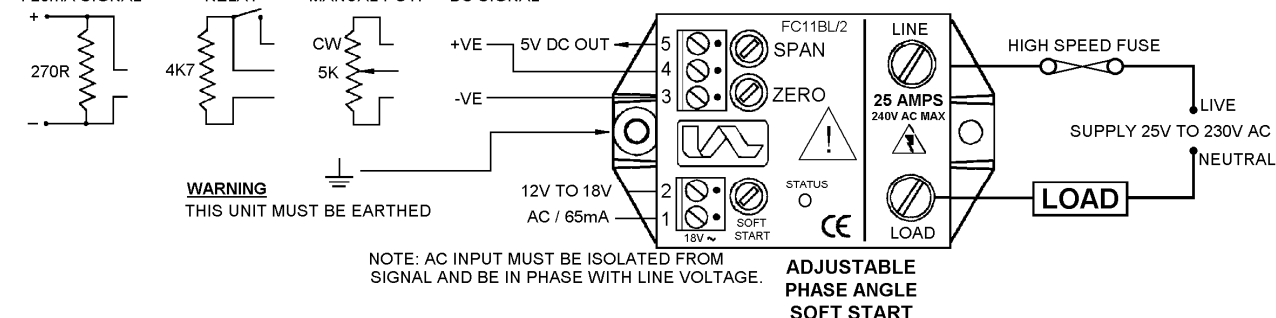


WARNING
THIS UNIT MUST BE EARTHED

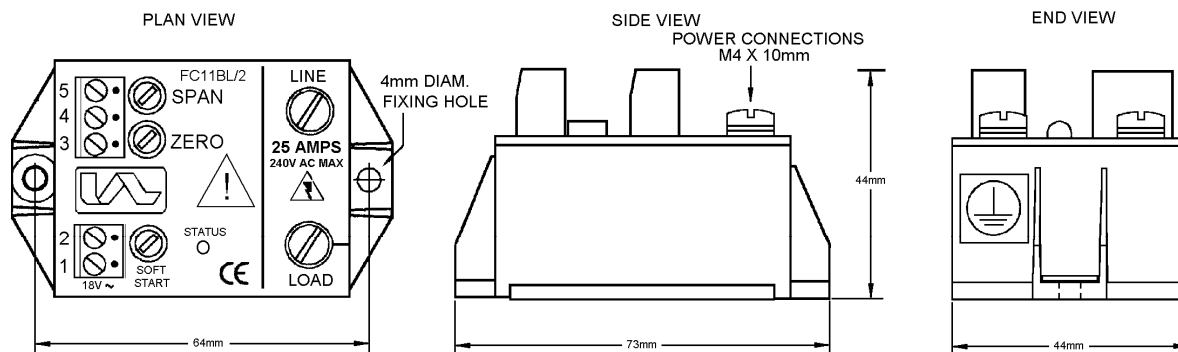
12V TO 18V
AC / 65mA

NOTE: AC INPUT MUST BE ISOLATED FROM
SIGNAL AND BE IN PHASE WITH LINE VOLTAGE.

DIMENSIONS AND CONNECTIONS



**ADJUSTABLE
PHASE ANGLE
SOFT START**



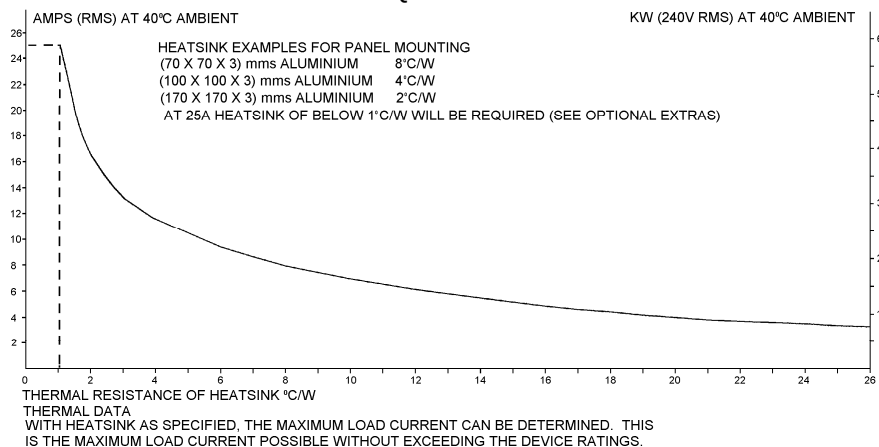
USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING

WARNING LIVE TERMINALS

SWITCH OFF MAINS SUPPLY BEFORE COMMENCING ANY SERVICE WORK

INSTALLATION

COOLING REQUIREMENTS



SPECIFICATIONS

Signal span minimum	1.5 to 5V dc	AC input power (1 and 2)	12 to 18V ac @ 65mA
Signal span maximum	5 to 25V dc	Auxiliary output	5V dc
Signal zero offset	0 to 25% of span	Triac limiting rms current	25A
Signal input resistance	5k Ω $\pm$ 20%	Line voltage	25V to 250V (50/60 Hz)
Manual potentiometer	2, 5 or 10k Ω	Peak one cycle surge	250A
Cycle time base	1 sec nominal	Max. peak voltage	600V
I ² t for fusing (10m sec)	250A ² s	Power consumption	1.7W
Max operating temperature	65°C	Storage temperature	0°C to 85°C
Isolation voltage	2.2kV rms	Max. rms on-state current	25A

FUSING:

It is recommending to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection and an appropriate fuse for unit supply (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 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.
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. (formally 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: FC11BL/2 + signal option.

Optional extras include: potentiometer, supply transformer, and heatsink assembly.



UNITED AUTOMATION LIMITED

Southport Business Park
Wight Moss Way
Southport, PR8 4HQ
ENGLAND

Tel: 0044 (0) 1704 – 516500
Fax: 0044 (0) 1704 – 516501
enquiries@united-automation.com
www.united-automation.com

