Burst Fire Firing Trigger Module – X10261.

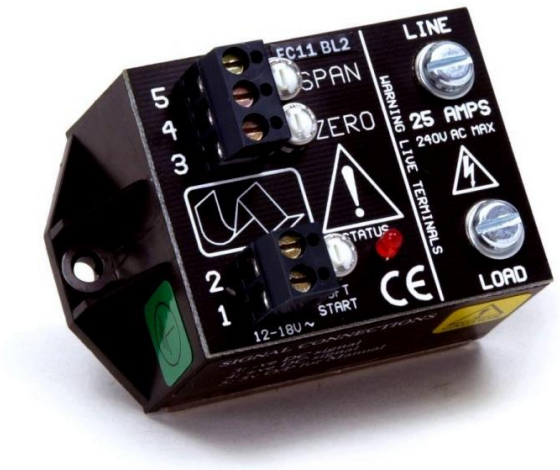
FC11BL/2

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

- Ovens
- Fish & Chips
- Restaurant's
- Hospitality
- Quartz Lamps / Heat Lamps
- Moulders
- Dryers and
- Some inductive loads,

for example transformers and motors



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.

TECHNICAL SPECIFICATIONS

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

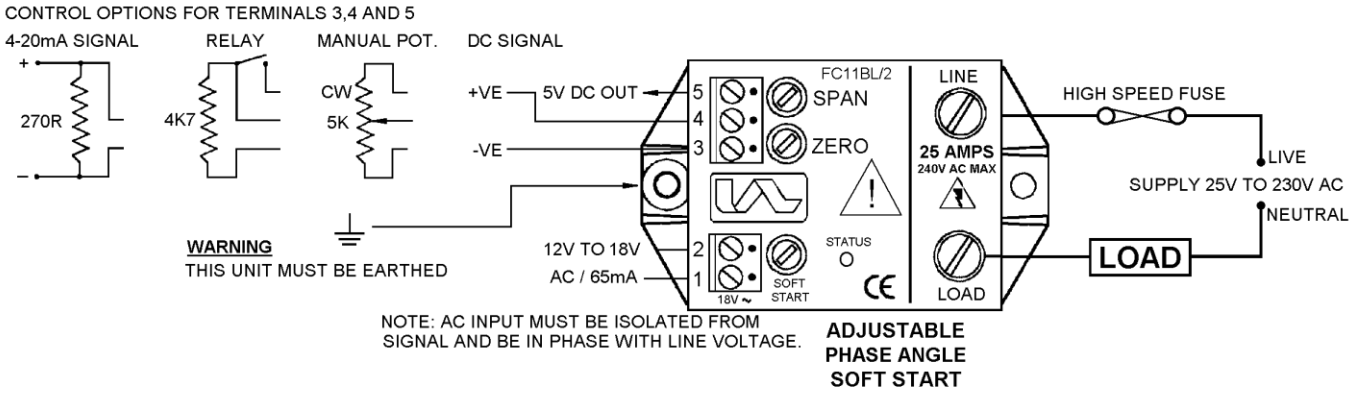
UNITED AUTOMATION LTD

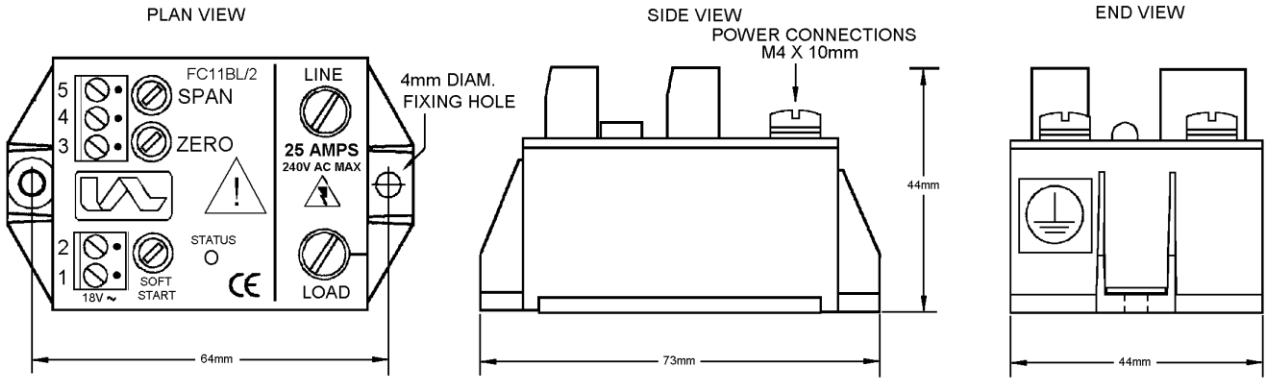
BMF House – Wight Moss Way
Southport Business Park
Southport, PR8 4HQ
ENGLAND

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

Installation

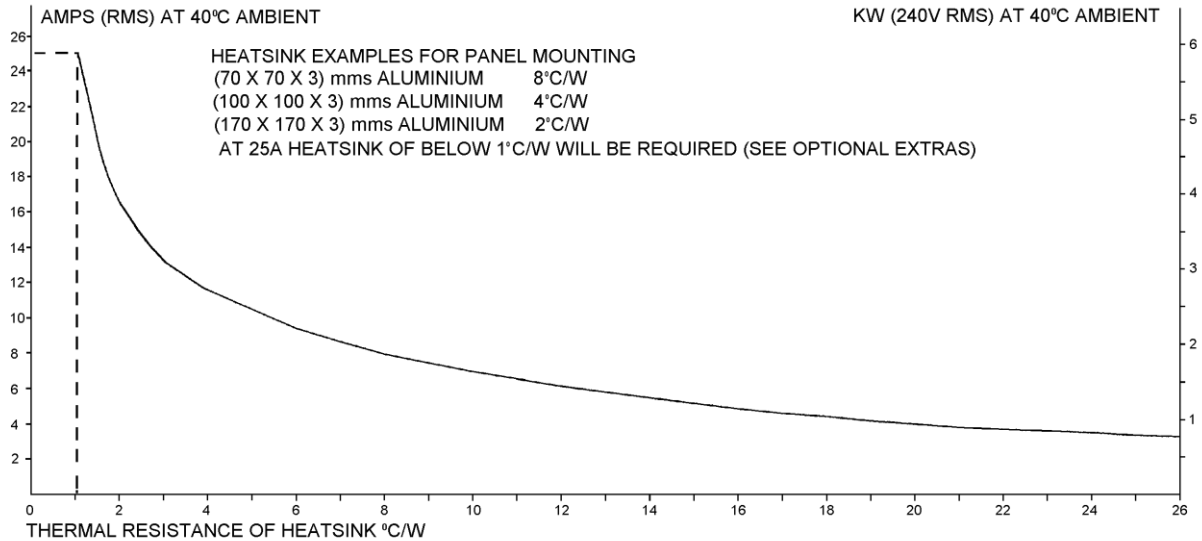
DIMENSIONS AND CONNECTIONS





USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING
WARNING LIVE TERMINALS
SWITCH OFF MAINS SUPPLY BEFORE COMMENCING ANY SERVICE WORK

COOLING REQUIREMENTS



THERMAL DATA
WITH HEATSINK AS SPECIFIED, THE MAXIMUM LOAD CURRENT CAN BE DETERMINED. THIS IS THE MAXIMUM LOAD CURRENT POSSIBLE WITHOUT EXCEEDING THE DEVICE RATINGS.

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) 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. See SRA datasheet for information.

Recommendations

Other documents available on request, which may be appropriate for your application: -

Code	Identity	Description
X10229	RFI	Filter recommendations: 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 and Fusing Recommendations

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

OPTIONAL EXTRAS

Product Code	Product Description
T30201	Supply Transformer
Z01062	Heatsink Compound Syringe **(Must be applied while fitting)**

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A32419	Burst Fire Power Module