

X10261

TRIGGER MODULES | SINGLE PHASE

FC11BL/2

Up to 25A

Burst Fire Firing Trigger Module

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KEY FEATURES:

- ✓ **Integrated 25A Triac:**
Reduces wiring complexity and enhances reliability.
- ✓ **Universal Signal Matching:** Compatible with a wide range of voltage or mA control signals.
- ✓ **Status LED:** Provides clear output level indication for easy monitoring.
- ✓ **No External Filtering Needed:** Simplifies installation and setup.
- ✓ **Energy Efficient:** Consumes less than 2W of power.
- ✓ **Adjustable Soft Start:** Provides smooth power ramp-up, protecting the load from sudden surges.

APPLICATIONS:

The FC11BL/2 is perfect for controlling heating elements and other loads in environments such as:

- Ovens and Industrial Heaters
- Fish & Chips Shops and Restaurants
- Hospitality Settings
- Quartz Lamps and Heat Lamps
- Moulders and Dryers
- Inductive Loads like Transformers and Motors






The **FC11BL/2 Burst Fire Firing Trigger Module** is a single-phase firing module that simplifies installation by integrating its own power device. This module is designed for controlling heating loads up to 25A when mounted on a suitable heatsink, making it ideal for various industrial and commercial heating applications. The module employs burst firing technology, operating on 1-second nominal time base, with zero-crossing triggered output that ensures a smooth and consistent power delivery. This method guarantees that full sine wave cycles are delivered to the resistive load, minimising rapid current changes and reducing Radio Frequency Interference (RFI).

The **FC11BL/2 Burst Fire Firing Trigger Module** is a robust and efficient solution for managing heating loads in demanding environments, offering reliable performance with minimal setup requirements.

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 ² t for fusing (10m sec)	250A ² s
Max operating temperature	65°C
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	0°C to 85°C
Max. rms on-state current	25A

YOU MUST READ THIS BEFORE INSTALLATION

 ELECTRICAL SAFETY	 INSTALLATION REQUIREMENTS	 USER RESTRICTIONS	 USAGE ENVIRONMENT	 HOT SURFACE WARNING
WARNING: RISK OF ELECTRIC SHOCK Always consult the Installation & Maintenance Instructions before connecting this product to the power supply. WARNING: Disconnect Power Before Servicing Ensure the electrical supply is safely disconnected before connecting to any supply, load, or control terminals.	WARNING: Installation by Qualified Personnel Only This product must only be installed or fitted by a competent, qualified installer familiar with the relevant electrical standards and installation practices.	WARNING: Not for Use by Vulnerable Individuals This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.	WARNING: Industrial Use Only This is an industrial-grade product and is not intended for household use.	WARNING: Hot Surfaces On certain models, surfaces marked with this symbol become hot during use. Avoid direct contact and follow all thermal safety precautions.

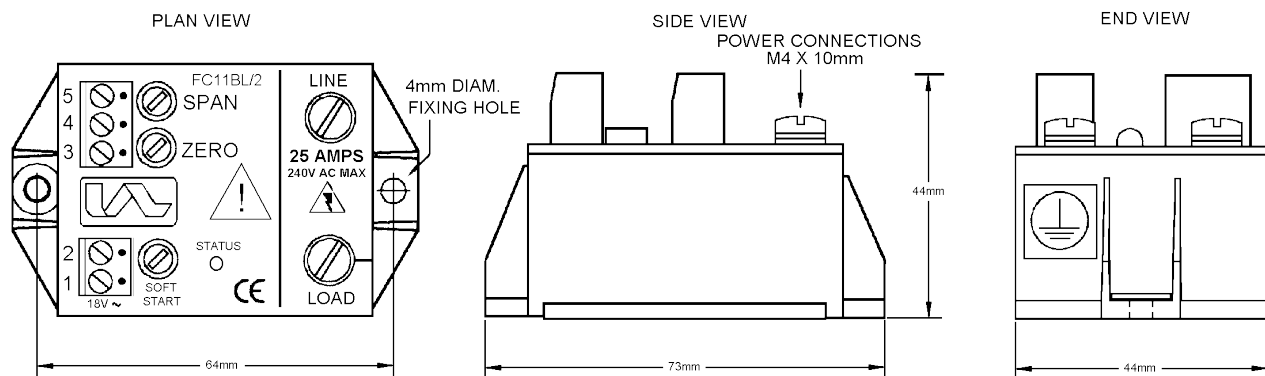
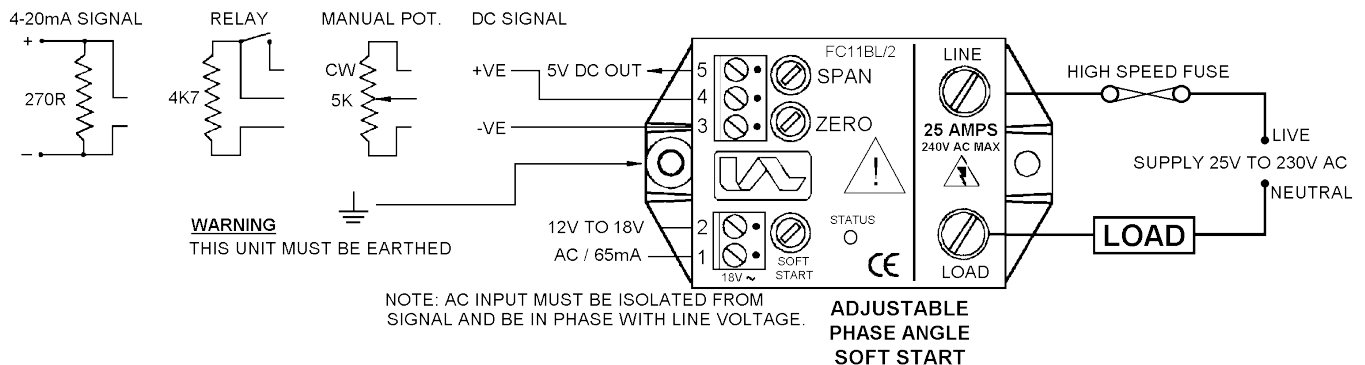
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INSTALLATION

CONTROL OPTIONS FOR TERMINALS 3,4 AND 5

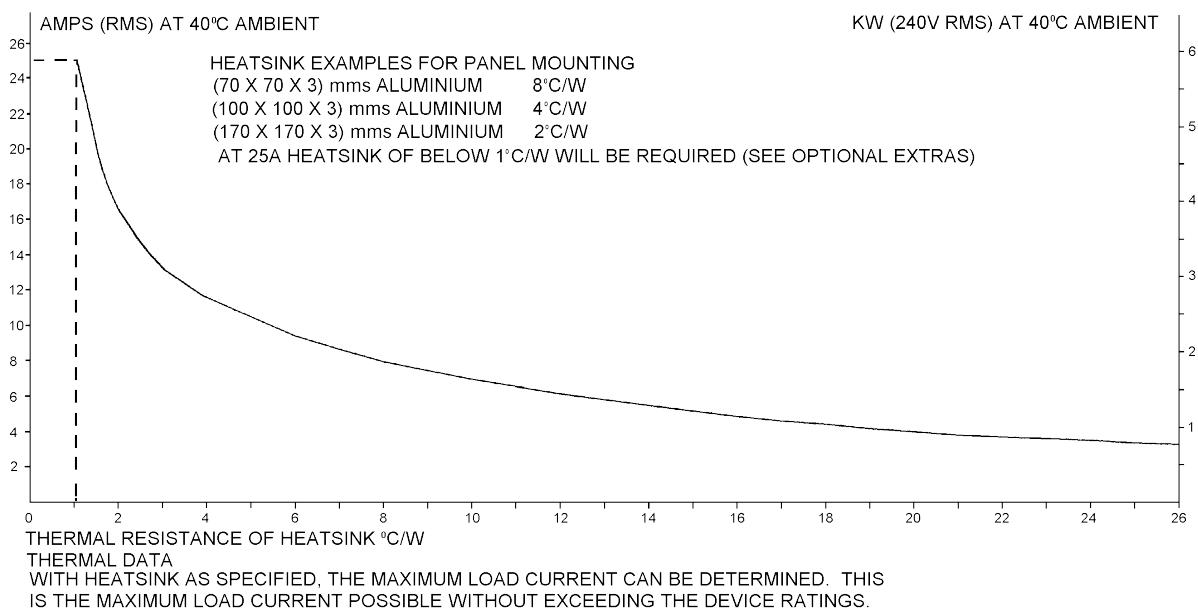


USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING

WARNING LIVE TERMINALS

SWITCH OFF MAINS SUPPLY BEFORE COMMENCING ANY SERVICE WORK

COOLING REQUIREMENTS



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RECOMMENDATIONS

FUSING

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

DOCUMENTS

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
P01.1	COS	UAL Conditions of Sale

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
Z01062	Heatsink Compound Syringe (Must be applied while fitting)
T30201	Transformer 2VA Dual Primary, Dual Secondary

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A32419	FC11BL/2 - Burst Fire Firing Trigger Module



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