TRIGGER MODULES | SINGLE PHASE

MAT

110/230V

Manual Phase Angle TRIAC Trigger Module

CONTACT US:

- © 0044 (0) 1704-516 501
- □ enquiries@united-automation.com
- www.united-automation.com





KEY FEATURES:

- ✓ Compact and Easy to Install: Fits seamlessly with single-hole panel mounting.
- ✓ Solid-State Reliability: Durable construction for long-term, maintenancefree operation.
- Manual Control Potentiometer: Allows precise adjustment of phase angle.
- Minimum Output
 Trimmer: Built-in for setting minimum output levels.
- High Efficiency: Controls power with minimal energy loss.
- ✓ Wide Compatibility: Suitable for most AC resistive or inductive loads.
- High Isolation Voltage: 2500V RMS for enhanced safety.

APPLICATIONS:

The MAT Manual Phase Angle TRIAC Trigger Module is perfect for controlling AC power in various settings, including:

- Heating Systems
- Lighting Control
- Motor Speed Control
- Industrial Equipment

The MAT Manual Phase Angle TRIAC Trigger Module is a versatile and compact solution designed for precise power control in AC circuits. This module is ideal for driving standard TRIACs in 230V or 110V AC regulator circuits, making it suitable for a wide range of applications involving resistive or inductive loads. The MAT module is housed in a robust, industrial-grade enclosure that is both safe and tamperproof, ensuring long-term reliability and ease of use in demanding environments. With a built-in manual control potentiometer and minimum output trimmer, it offers users precise control over the phase angle for optimal performance.

The MAT Manual Phase Angle TRIAC Trigger Module is a reliable and efficient choice for professionals seeking precise control over AC power in a wide range of applications. Its compact design, solid-state reliability, and user-friendly controls make it an essential component for industrial, commercial, and residential power management systems.

TECHNICAL SPECIFICATIONS

AC System Line Voltage	110/230V ± 10%
Line Frequency	50/60Hz
Minimum Offset at 110V	0-50%
Minimum Offset at 230V	0-50%
Conduction Phase Angle Typical	0-160°
Controlled Phase Angle Typical	30-160°
Isolation Voltage	2500V RMS
Maximum Leakage Current	6mA
Storage Temperature	0-85°C
Operating Temperature	0-65°C
Mounting Hole Diameter	10mm













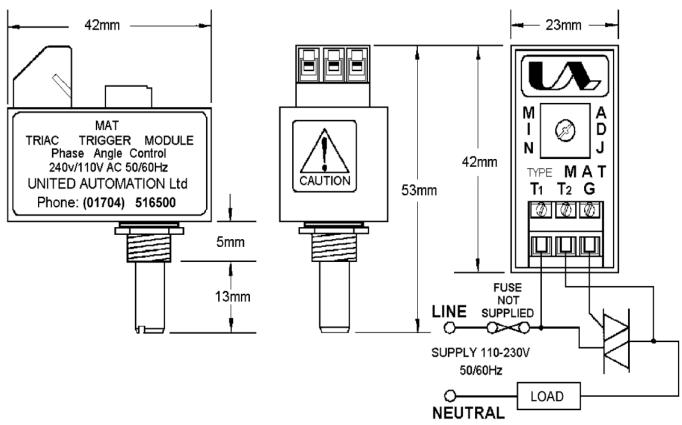


110, 230V

Manual Phase Angle TRIAC Trigger Module

INSTALLATION

DIMENSIONS AND CONNECTIONS



WARNING: LIVE TERMINALS - Switch off mains supply before commencing any service work











110, 230V

Manual Phase Angle TRIAC Trigger Module

RECOMMENDATIONS

FUSING

It is recommended to use semiconductor fast acting type fuses or circuit breakers (Semiconductor-MCB) for unit/device protection. On initial 'switch on' some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. (See the 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
X10378	ILR	Inductive loads remedy sheet for use with phase angle controllers
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
Available on request	TRIAC
Z01062	1g Heatsink compound syringe

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A31414	MAT- Manual Phase Angle TRIAC Trigger Module









