

ELMDENE

Protecting People & Property

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240V Mains Switch Unit with Variable Timer

MRT01 Mains Relay Timer

FEATURES

Use to switch 240V loads for preset periods using a low voltage trigger signal from, for example, an alarm control panel.

- On time continuously variable between 2 minutes and 40 minutes (approximately).
- Changeover volt-free tamper contacts.
- +12V trigger enable input.
- Pulse trigger operating mode, selectable by jumper.
- Simple relay changeover operating mode, selectable by jumper.

SPECIFICATION

Maximum Switched Load	3A @ 240Vac
Timer Period	2 minutes to 40 minutes, continuously variable
Timer Enable Input	+12Vdc
Power Supply	12Vdc @ 50mA maximum
Load Fuse	F3A 20mm HRC

CONNECTIONS

TB1 L N E	240V Mains Input
TB2 N E L NO	Switched load N and E Switched load Live, Normally Open - contact closed during timed period in Timer Mode or whilst Trigger Input is high in Relay Mode
L NC	Switched load Live, Normally Closed - contact closed when in reset (untriggered) state in Timer Mode or whilst Trigger Input is low in Relay Mode
TB3 12V 0V R+	+ 12Vdc input supply 0V input supply Trigger input, +12Vdc, referenced to 0V

CONNECTIONS (CONT)

T CO	Lid Tamper (Common)
T NO	Lid Tamper (Normally Open when lid is open)
T NC	Lid Tamper (Normally Closed when lid is open)

MODE SELECTION

JP1	Link = Timer Mode No Link = Relay Mode
JP2	Link = Normal Trigger Mode (Must be fitted for Relay Mode) No Link = Pulse Trigger Mode

Factory Default Setting = Timer with Normal Trigger

OPERATING INSTRUCTIONS

Timer Mode

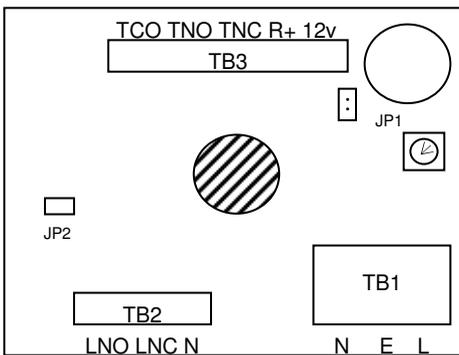
The load output is switched on for the period of time set using the Time Adjustment pot.

In Normal Trigger Mode, the time period starts when the Trigger input is at +12v. If the Trigger input is removed before the timed period ends, the load is switched off and the Timer is reset.

In Pulse Trigger Mode, the time period starts when the Trigger input is momentarily set to +12v. The load will only be switched off at the end of the period set by the Time Adjustment pot.

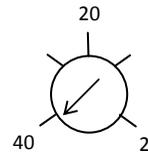
Relay Mode

In Relay Mode, the output is only switched on whilst the Trigger Input is at +12v. When the Trigger input is removed, the load will be switched off. Note: Link JP2 must be fitted when in Relay Mode.



Time Adjustment

Minutes (approx.)



SET-UP

- 1) Select Link JP1 for Timer or Relay operating mode.
- 2) Select Link JP2 for Normal or Pulse Trigger operating mode.
- 3) Connect the Mains Timer to the control panel auxiliary power, trigger and tamper circuits. Note, the control panel trigger output may be denoted as a Ring output.
- 4) Connect the Mains Timer to the 240v mains input. Ensure that the 240v input is isolated before connecting the Timer.
- 5) Connect the switched load.
- 6) Set the desired load switch-on time using the Time Adjustment pot.
- 7) Apply 12v d.c. power to the Mains Timer.
- 8) Trigger the Timer and verify that the load is switched on for the appropriate period of time. Change the Time Adjustment pot. to obtain the time period required.

Warning: This unit contains 240Vac. Isolate before opening cover

DISPOSAL OF PRODUCT AT END OF LIFE

This product falls within the scope of EU Directives 2002/96/EC Waste Electrical and Electronic Equipment (WEEE) and 2006/66/EC (Battery). At the end of life, the product must be separated from the domestic waste stream and disposed via an appropriate approved WEEE disposal route in accordance with all national and local regulations.

For more information see: www.recyclethis.info

*The packaging supplied with this product may be recycled.
Please dispose of packaging accordingly.*