

# canfield connector

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# MODEL MBT

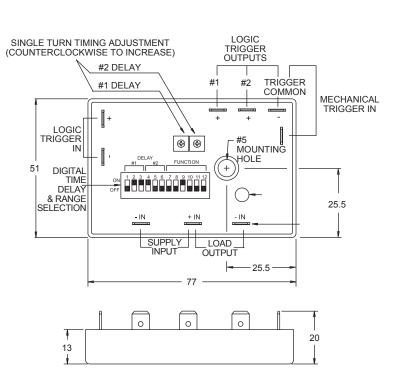
MULTIFUNCTION BLOCK TIMER 12 FUNCTIONS IN 1 TIMER

#### - General Description

The Canfield Connector model MBT Multifunction Block Timer is designed as a full featured multiple mode of operation, multiple voltage, all-in-one timer. The unit is offered in a small epoxy encapsulated housing with on board mode switches and adjustments. The unit has a time range adjustable from 0.1 seconds to 33.3 hours. Features include twelve modes of operation including a multitude of logic function possibilities and an indicator light for fast troubleshooting. The unit can be used to trigger another MBT in a cascade type arrangement, to meet complex functions or longer time ranges. With a voltage range of 12-240 VDC / 24-240 VAC 50/60 Hz, the MBT can instantly handle all mobile, industrial and automation applications right off the shelf. Each timer is 100% tested for function and quality and is resistant to dust, vibration and humidity. Mounting is accomplished by use of a through hole able to accommodate up to a 6mm diameter screw. Electrical connections are .250" AMP Fasten posts for crimp type push-on connectors.

#### Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED



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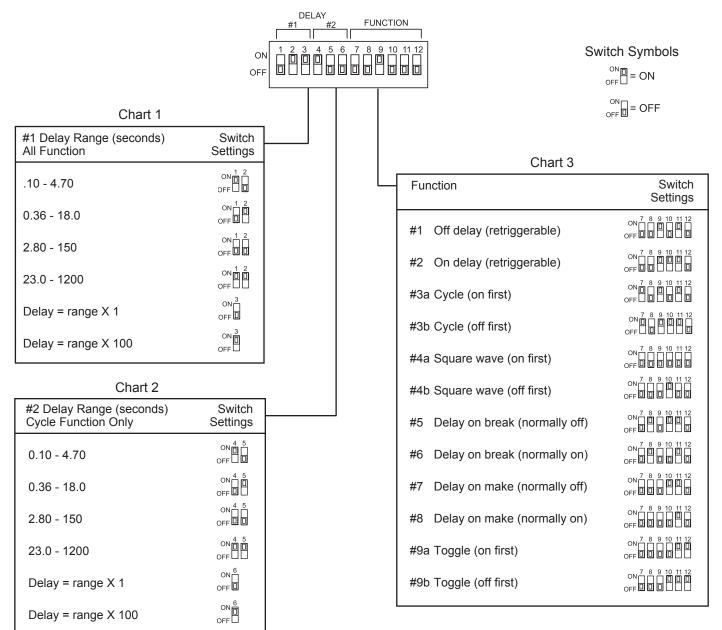
## Features

- · All solid state
- 12-240 Volts in one unit
- Time range .1 sec. to 33.3 hours
- Indicator light
- Transient protection
- Stock one timer for all functions
- Fasten connections
- Cascade trigger
- 12 timing modes in one unit
- On board adjustment

## Technical Data

- Maximum timer current draw: 2 mA (No Load)
- Absolute max. input voltage: 240V AC/DC
- Input voltage range: 24-240 VAC (50/60Hz) 12-240 VDC
- Maximum output current: 1 Amp
- Logic trigger in: 5-48 VDC (10k input impedance)
- Logic trigger out: 5.5 V @ .55 mA max.
- Mechanical trigger in: 80 mA max. current draw

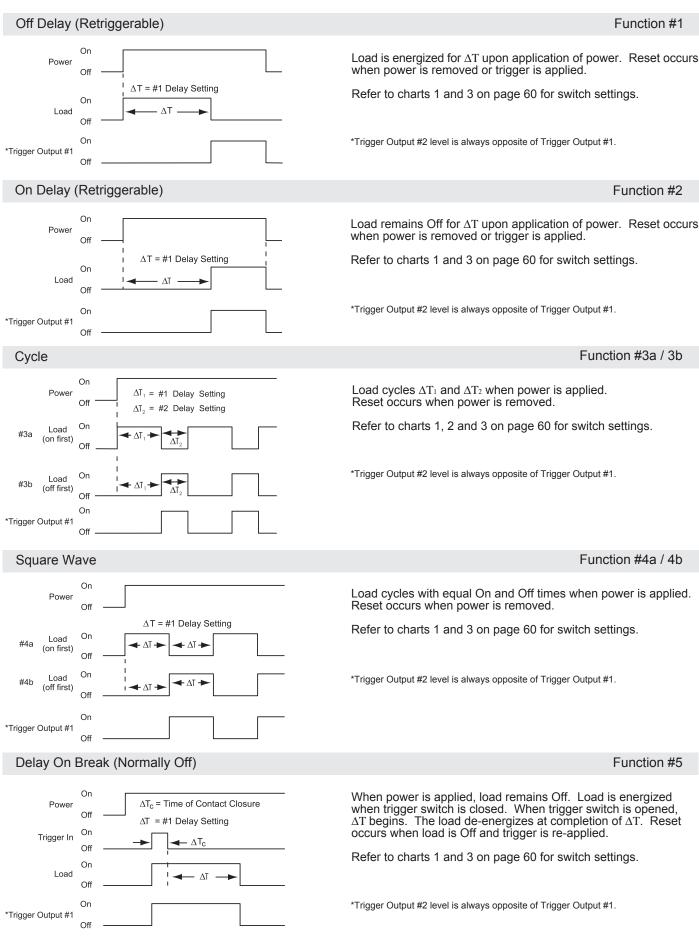
- Ambient temp. range: -20° to +60°C
- Max. reset time: 50 ms
- Repeat accuracy: ± 0.1% or 10 ms. (whichever is greater)
- Time delay variable over ambient temp. range: +/- 2%
- Enclosure material: ABS
- Potting: Epoxy



#### Operation

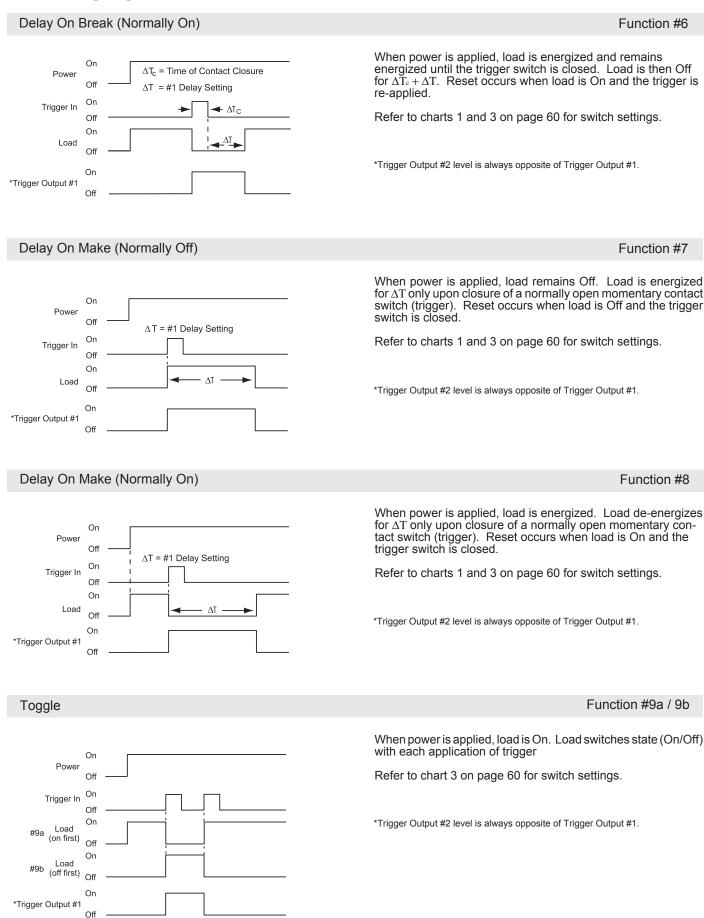
- General Description The MBT is a solid state timer/ toggle latch, programmable in 12 modes of operation (refer to chart 3). It can be operated individually or cascaded to perform virtually any timing sequence desired.
- **Mechanical Trigger Input** A switch closure at this input begins or resets the timing period of any non-cycling MBT function. Refer to pages 61-62 for timing diagrams.
- **Logic Trigger Input** A sourcing or sinking voltage signal (5 48 volts) at this input begins or resets the timing period of any non-cycling MBT function. Refer to pages 61-62 for timing diagrams.
- Logic Trigger Outputs The logic output produces a voltage signal in sync with the timing cycle (see timing diagrams, pages 61-62). Timers can be cascaded when the logic output of one timer is connected to the logic input of other timers. The logic signal output is inactive when power is initially applied to the timer. The #1 logic output produces a voltage level opposite the #2 logic output.
- **Cascading Multiple Timers** There is no limit to the number of MBTs that can be cascaded in series (the logic output of one MBT connected to the logic input of another MBT). However the number of parallel MBTs (the same logic output connected to the logic input of more than one other MBT) should be limited to 10 MBTs.

#### **Timing Diagrams**

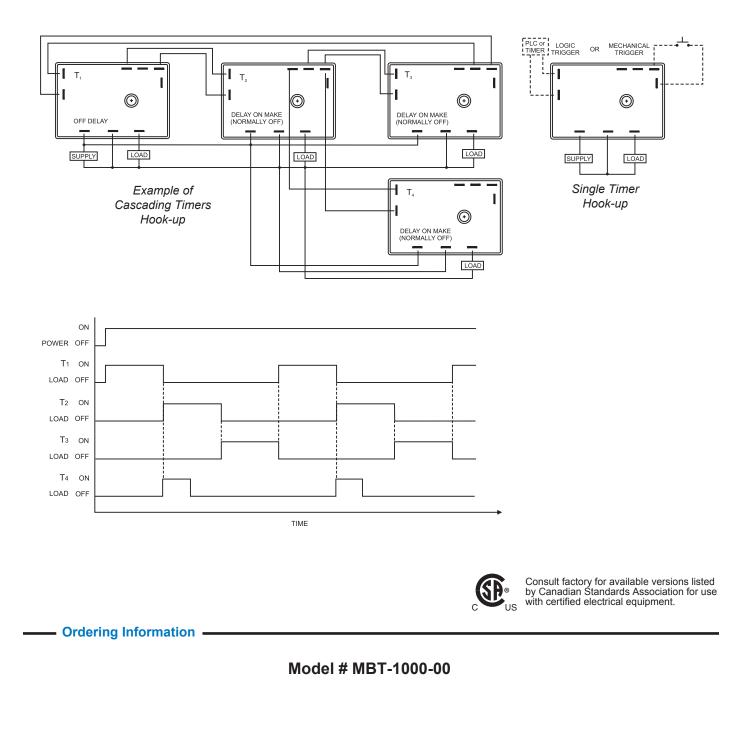


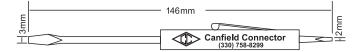
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#### - Timing Diagrams con't



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Optional Adjustment Tool part # 5000-TOOL

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