MODEL TMLT
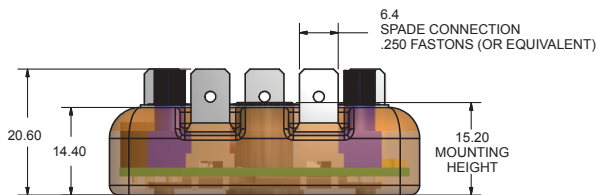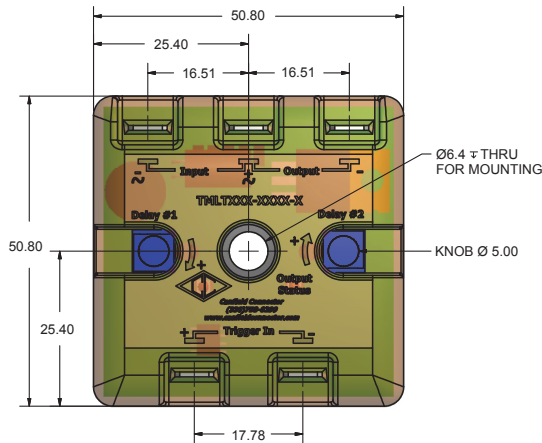
INSTALLATION GUIDE
SINKING OUTPUT

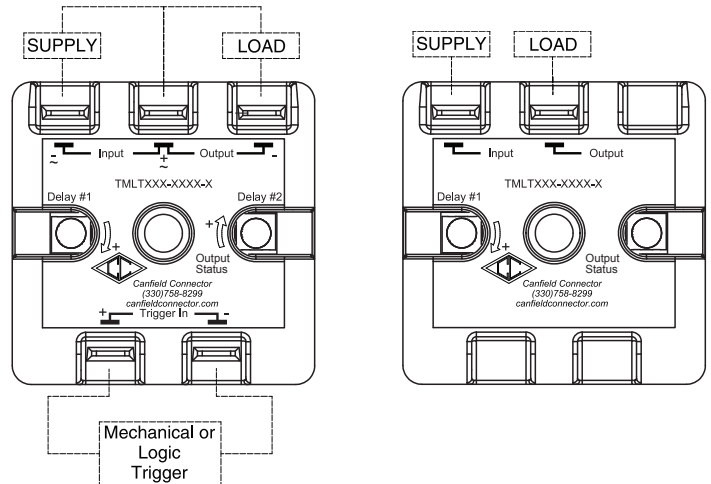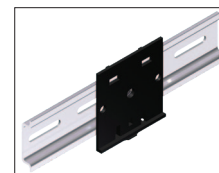## Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

Hand Adjustment Shown

Hook-Up

Note: Failure to connect the timer properly will cause unit failure.

DIN Rail Mounting Adapter - DRM-100

Technical Data

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

- Mechanical trigger rated: 5 VDC, 1mA max
- Ambient temp. range: -20° to +60°C
- Repeat accuracy: ± 0.1% or 10 ms. (whichever is greater)
- Time delay variable over ambient temp. range: +/- 5%
- Enclosure material: Macromelt Thermoplastic Polyamide
- NEMA 1

Operation

Mechanical Trigger Input - A switch closure at this input begins or resets the timing period of any non-cycling TMLT function. Refer to following pages for timing diagrams.
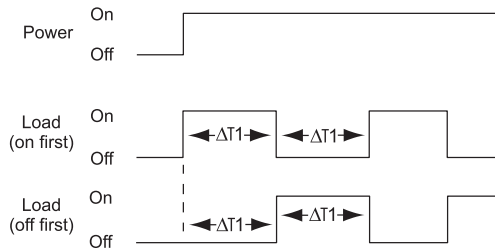
Logic Trigger Input - A sourcing or sinking voltage signal (5 - 48 volts) at this input begins or resets the timing period of any non-cycling TMLT function.   Refer to following pages for timing diagrams.
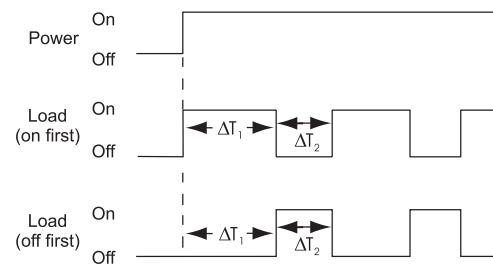
Square Wave
Part Number: TMLTSW_-_00_

Load cycles with equal ΔT_1 time when power is applied. Reset occurs when power is removed.

Cycle
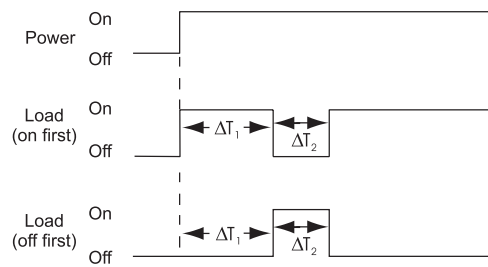**Part Number:** TMLTCY_-_ _0_

Load cycles ΔT_1 and ΔT_2 when power is applied. Reset occurs when power is removed.

Single Cycle Timer
Part Number: TMLTSC_-_ _0_

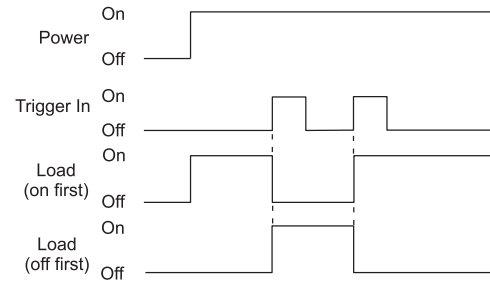Solenoid cycles ΔT_1 and ΔT_2 when power is applied. Reset occurs when power is removed.

Toggle
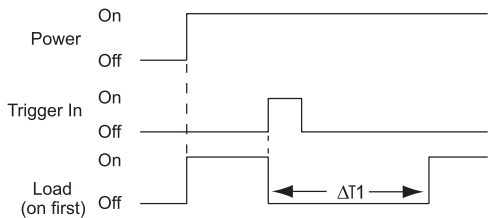**Part Number:** TMLTTO_-00_0

When power is applied, load is On. Load switches state (On/Off) with each application of trigger.
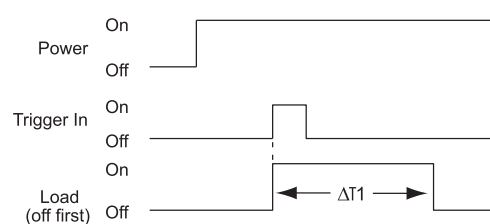

Delay On Make
Part Number: TMLTDM_-_0_ _

When power is applied, load is on. Load is off for ΔT_1 once the trigger is applied. Reset occurs when load is on and the trigger is re-applied.
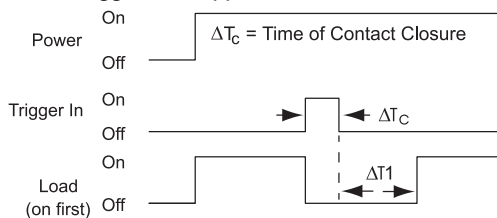

When power is applied, load is off. Load is on for ΔT_1 once the trigger is applied. Reset occurs when load is off and the trigger is re-applied.


Delay On Break
Part Number: TMLTDB_-_0_ _

When power is applied, load is on. Load is then off for $\Delta T_c + \Delta T_1$ when trigger is applied then removed. Reset occurs when load is on and the trigger is re-applied.

ΔT_C = Time of Contact Closure

When power is applied, load is off. Load is on for $\Delta T_c + \Delta T_1$ when trigger is applied then removed. Reset occurs when load is off and the trigger is re-applied.

ΔT_C = Time of Contact Closure
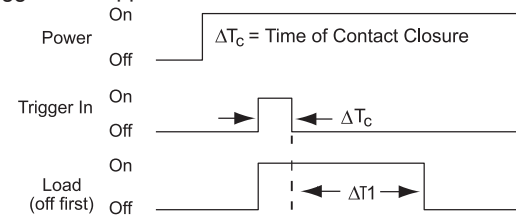
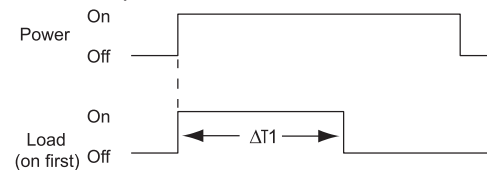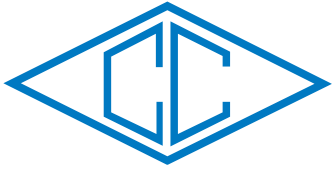### Delay (Non-Triggerable)
Part Number: TMLTDY_-_00_

When power is applied, load is off. Load on after ΔT_1. Reset occurs when power is removed
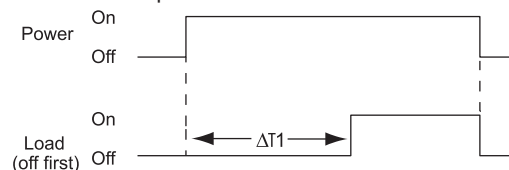
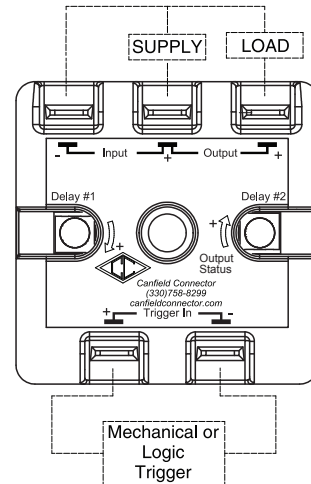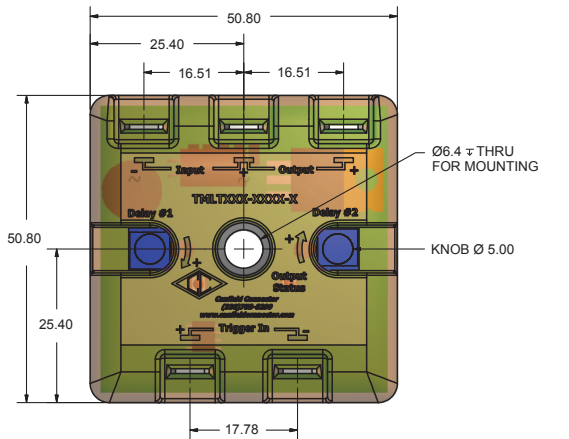When power is applied, load is on. Load off after ΔT_1. Reset occurs when power is removed
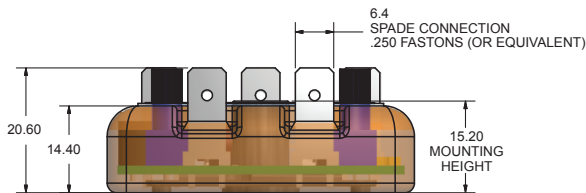
MODEL TMLT

INSTALLATION GUIDE
SOURCING OUTPUT

Dimensional Data

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

- 50.80
- 25.40
- 16.51
- 16.51
- 50.80
- 25.40
- Ø6.4 ⊤ THRU FOR MOUNTING
- TMLTXXX-XXXX-X
- Delay #1
- Delay #2
- KNOB Ø 5.00
- Output Status
- Canfield Connector (330)758-8299 www.canfieldconnector.com
- Trigger In
- 17.78

- 6.4 SPADE CONNECTION .250 FASTONS (OR EQUIVALENT)
- 20.60
- 14.40
- 15.20 MOUNTING HEIGHT

Hand Adjustment Shown

Hook-Up

SUPPLY   LOAD

Input   Output

Delay #1   Delay #2

Output Status

Canfield Connector (330)758-8299 canfieldconnector.com

Trigger In

Mechanical or Logic Trigger

Note: Failure to connect the timer properly will cause unit failure.
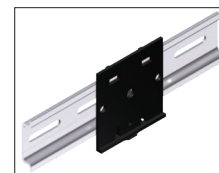
DIN Rail Mounting Adapter - DRM-100

Technical Data

- Maximum timer current draw: 2 mA (No Load)
- Absolute max. input voltage: 60 VDC
- Input voltage range: 12-60 VDC
- Maximum output current: 1 Amp
- Logic trigger in: 5-48 VDC (10k input impedance)
- Mechanical trigger rated: 5 VDC, 1mA max

- Ambient temp. range: -20° to +60°C
- Repeat accuracy: ± 0.1% or 10 ms. (whichever is greater)
- Time delay variable over ambient temp. range: +/- 5%
- Enclosure material: Macromelt Thermoplastic Polyamide
- NEMA 1

Operation

Mechanical Trigger Input - A switch closure at this input begins or resets the timing period of any non-cycling TMLT function. Refer to following pages for timing diagrams.
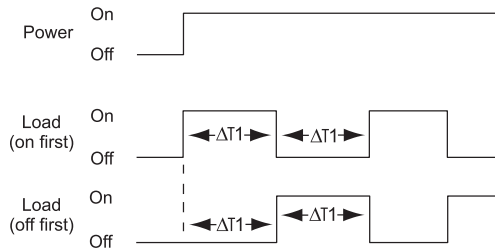
Logic Trigger Input - A sourcing or sinking voltage signal (5 - 48 volts) at this input begins or resets the timing period of any non-cycling TMLT function.   Refer to following pages for timing diagrams.

Timing Diagrams

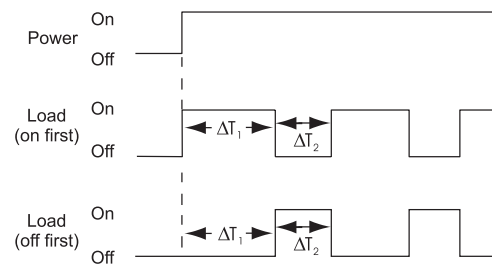### Square Wave
Part Number: TMLTSW_-_00_

Load cycles with equal ΔT_1 time when power is applied. Reset occurs when power is removed.

Power — On / Off
Load (on first) — On / Off — $\Delta T1$ $\Delta T1$
Load (off first) — On / Off — $\Delta T1$ $\Delta T1$

Cycle
Part Number: TMLTCY_-_ _0_

Load cycles ΔT_1 and ΔT_2 when power is applied. Reset occurs when power is removed.

Power — On / Off
Load (on first) — On / Off — ΔT_1 ΔT_2
Load (off first) — On / Off — ΔT_1 ΔT_2

Single Cycle Timer
Part Number: TMLTSC_-_ _0_

Solenoid cycles ΔT_1 and ΔT_2 when power is applied. Reset occurs when power is removed.

Power — On / Off
Load (on first) — On / Off — ΔT_1 ΔT_2
Load (off first) — On / Off — ΔT_1 ΔT_2

Toggle
Part Number: TMLTTO_-00_0

When power is applied, load is On. Load switches state (On/Off) with each application of trigger.

Power — On / Off
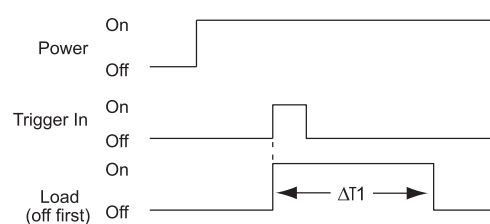Trigger In — On / Off
Load (on first) — On / Off
Load (off first) — On / Off

Delay On Make
Part Number: TMLTDM_-_0_ _

When power is applied, load is on. Load is off for ΔT_1 once the trigger is applied. Reset occurs when load is on and the trigger is re-applied.

Power — On / Off
Trigger In — On / Off
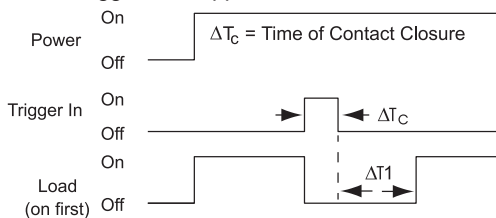Load (on first) — On / Off — $\Delta T1$

When power is applied, load is off. Load is on for ΔT_1 once the trigger is applied. Reset occurs when load is off and the trigger is re-applied.

Power — On / Off
Trigger In — On / Off
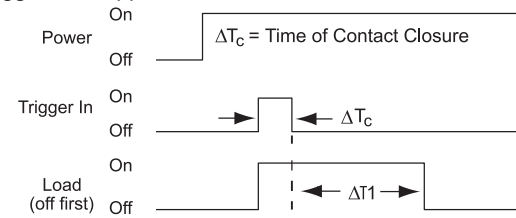Load (off first) — On / Off — $\Delta T1$

Delay On Break
Part Number: TMLTDB_-_0_ _

When power is applied, load is on. Load is then off for $\Delta T_c + \Delta T_1$ when trigger is applied then removed. Reset occurs when load is on and the trigger is re-applied.

Power — On / Off — ΔT_C = Time of Contact Closure
Trigger In — On / Off — ΔT_C
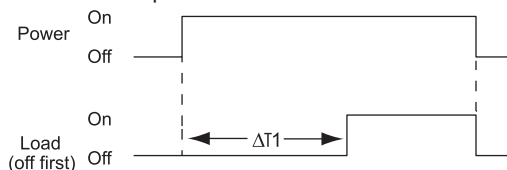Load (on first) — On / Off — $\Delta T1$

When power is applied, load is off. Load is on for $\Delta T_c + \Delta T_1$ when trigger is applied then removed. Reset occurs when load is off and the trigger is re-applied.

Power — On / Off — ΔT_C = Time of Contact Closure
Trigger In — On / Off — ΔT_C
Load (off first) — On / Off — $\Delta T1$

Delay (Non-Triggerable)
Part Number: TMLTDY_-_00_

When power is applied, load is off. Load on after ΔT_1. Reset occurs when power is removed

Power — On / Off
Load (off first) — On / Off — $\Delta T1$

When power is applied, load is on. Load off after ΔT_1. Reset occurs when power is removed

Power — On / Off
Load (on first) — On / Off — $\Delta T1$