

GENERAL DESCRIPTION

The Canfield Connector TMLT is an ultra-compact all solid state timer incorporated into a vibration and environment resistant composite encapsulant housing. The heart of the timer is a powerful microprocessor that is made in quantity then programmed to become the timer type according to customer specification. Featuring 6 timer modes of operation with two voltage ranges; 12-240V AC/DC or 12-60 VDC and four output options; Sinking ON First, Sinking OFF First, Sourcing ON First, and Sourcing OFF First, and 13 time ranges, from 0.1 to 2000 seconds. The timer is available with screwdriver or hand adjustment, and troubleshooting is a breeze with the onboard indicator light. The TMLT is versatile as well as rugged, and each timer is 100% tested, made in America and resistant to dust, vibration and humidity. Mounting is accomplished by use of a through hole able to accommodate up to a 1/4" (6mm) screw or by use of a DIN rail mount adapter plate. Electrical connections are .250" AMP Faston posts for crimp type push-on connectors.



DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.



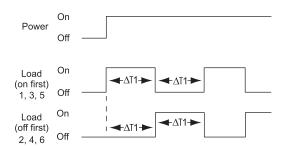
TECHNICAL DATA

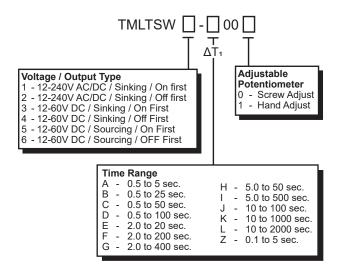
Max. Timer Current Draw	2 mA (no load)
Output Current Max.	1 Amp
Input Voltage Range	12-240V AC/DC, 50/60 Hz or 12-60 VDC
Logic Trigger Rated	5-48 VDC (10k input impedance)
Mechanical Trigger Rated	5 VDC, 1 mA max.
Repeat Accuracy	+/-0.1% or 10ms (whichever is greater)
Time Delay	+/- 5% (Variable over ambient temp. range)
Materials	Enclosure: Macromelt Thermoplastic Polyamide
Temp. Range	-20° to +60°C
Environmental Protection	NEMA 1

TIMING DIAGRAMS / ORDERING INFORMATION

SQUARE WAVE

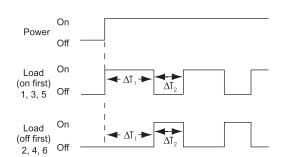
Load cycles with equal ΔT_1 time when power is applied. Reset occurs when power is removed.

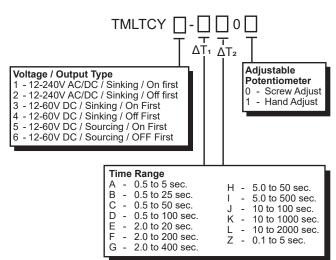




CYCLE

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

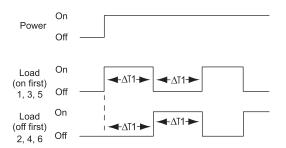




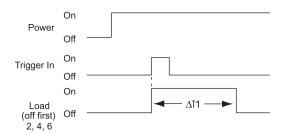
TIMING DIAGRAMS / ORDERING INFORMATION

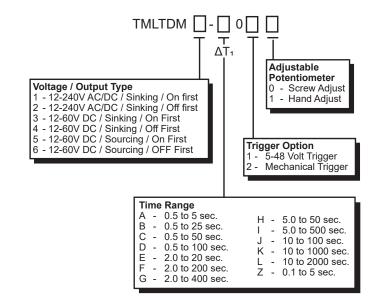
DELAY ON MAKE

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.



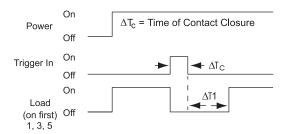
When power is applied, load is off. Load is on for ΔT_1 once the trigger is applied. Reset occurs when load is off and the trigger is re-applied.



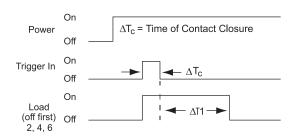


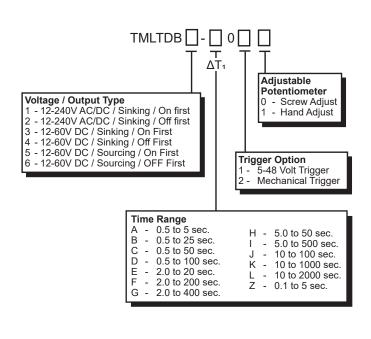
DELAY ON BREAK

When power is applied, load is on. Load is then off for ΔTc + ΔT₁ when trigger is applied then removed. Reset occurs when load is on and the trigger is re-applied.



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

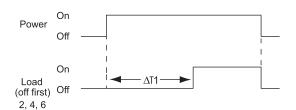




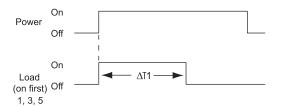
TIMING DIAGRAMS / ORDERING INFORMATION

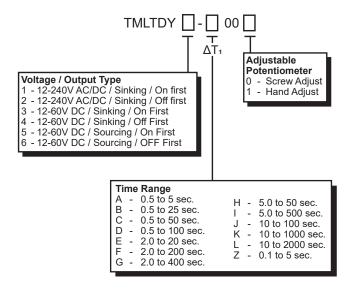
DELAY (NON-TRIGGERABLE)

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



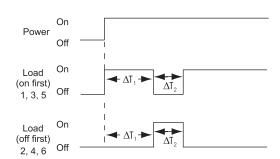
When power is applied, load is on. Load off after $\Delta T_{1}.$ Reset occurs when power is removed





SINGLE CYCLE

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

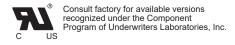


TMLTSC __- _ 0 _ T T $\Delta T_1 \Delta T_2$ Adjustable Voltage / Output Type 1 - 12-240V AC/DC / Sinking / On first 2 - 12-240V AC/DC / Sinking / Off first Potentiometer - Screw Adjust - Hand Adjust 3 - 12-60V DC / Sinking / On First 4 - 12-60V DC / Sinking / Off First 5 - 12-60V DC / Sourcing / On First 6 - 12-60V DC / Sourcing / OFF First Time Range 0.5 to 5 sec. 5.0 to 50 sec. 0.5 to 25 sec. 5.0 to 500 sec. 0.5 to 50 sec. 10 to 100 sec. D 0.5 to 100 sec. K -10 to 1000 sec. 2.0 to 20 sec. 10 to 2000 sec. 2.0 to 200 sec. 0.1 to 5 sec. 2.0 to 400 sec

NOTE: Fixed and custom time ranges available. Consult factory or details.



DIN Rail Mounting Adapter P/N: DRM-100



Ordering Example: TMLTSC1-AB00

12-240 AC/DC, Sinking, Single Cycle 1 (on first), 0.5 to 5 sec., 0.5 to 25 sec., Screw Adjust.