

**canfield
connector**

5800 SERIES

MINI AND ISO
MICRO LOGIC
TIMER

GENERAL DESCRIPTION

The Canfield Connector 5800 Series Micro Logic Timer is a solid state electronic timing unit incorporated inside the standard MINI and DIN Style "A" EN175301-803 (Formerly DIN 43650) electrical connectors. The MLT allows precise timing and logic functions in a small, easily mounted enclosure. There are eight standard timer types. Each timer incorporates circuitry for AC or DC operation with a wide voltage range.



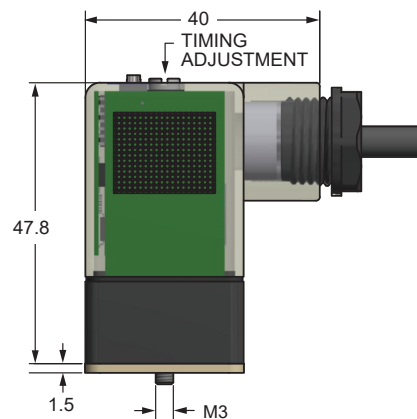
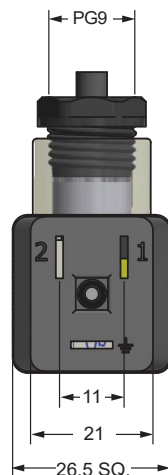
ISO, Lighted version shown above

DIMENSIONAL DATA

All dimensions are in millimeters unless otherwise noted.

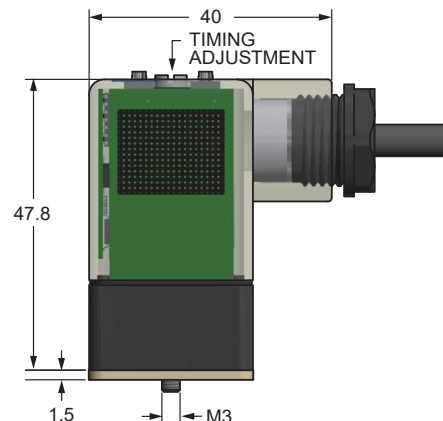
MINI

Ground Down Shown



ISO

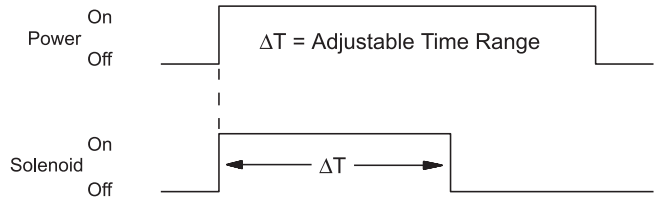
Dual Ground Shown





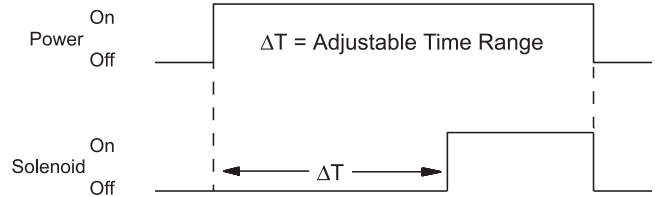
TYPE 1 - INTERVAL DELAY / (ONE SHOT)

Solenoid is energized for ΔT upon application of power. Reset occurs when power is removed.



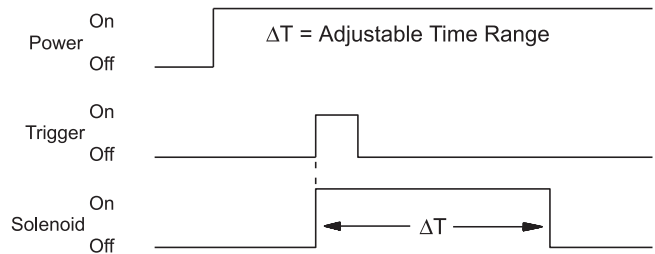
TYPE 2 - ON DELAY / (DELAY ON MAKE)

Solenoid remains OFF for ΔT upon application of power. Reset occurs when power is removed.



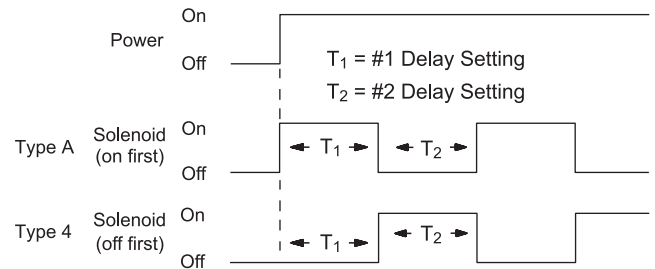
TYPE 3 - OFF DELAY / (TRIGGERED ONE SHOT)

When power is applied, solenoid remains OFF. Solenoid is energized for ΔT only upon closure of a normally open momentary contact switch (trigger). Reset occurs when solenoid is OFF and trigger is re-applied.



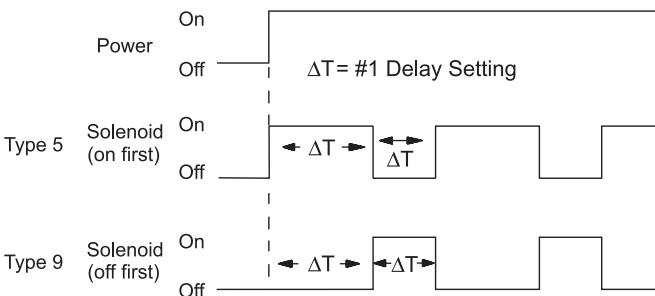
TYPE 4 / A - CYCLE TIMER

Solenoid cycles ΔT_1 OFF and ΔT_2 ON when power is applied. Reset occurs when power is removed. Timer is available in normally on (Type A) or normally off (Type 4) versions.



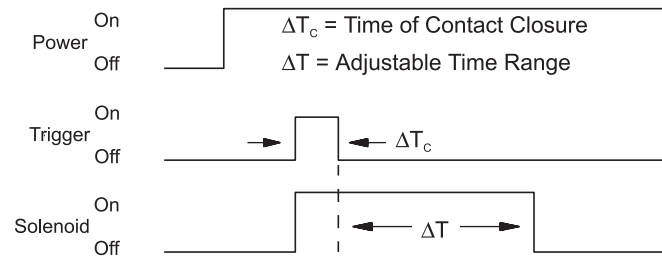
TYPE 5 / 9 - SQUARE WAVE CYCLE TIMER

Solenoid cycles with equal ON and OFF times when power is applied. Reset occurs when power is removed. Timer is available in normally on (Type 5) or normally off (Type 9) versions.



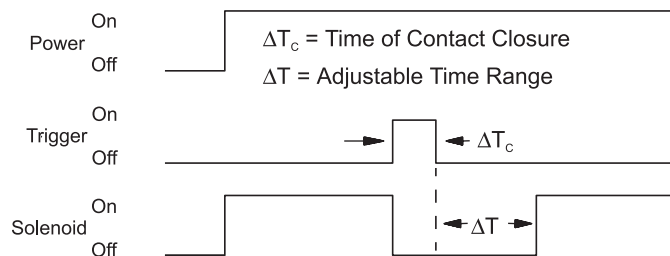
TYPE 6 - DELAY ON BREAK NORMALLY OFF

When power is applied, solenoid remains OFF. Solenoid is energized for $\Delta T_c + \Delta T$ when trigger switch is closed and opened. Reset occurs when solenoid is OFF and trigger is re-applied.



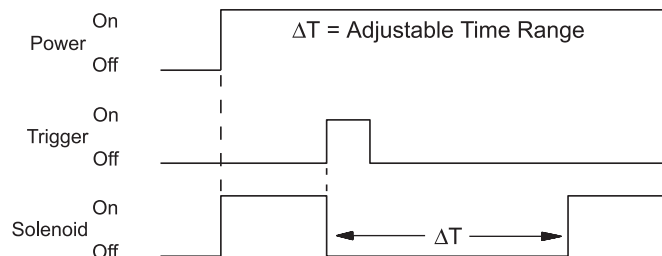
TYPE 7 - DELAY ON BREAK NORMALLY ON

When power is applied, solenoid is energized and remains energized until the trigger switch is closed. Solenoid is then OFF for $\Delta T_c + \Delta T$. Reset occurs when solenoid is ON and the trigger is re-applied.



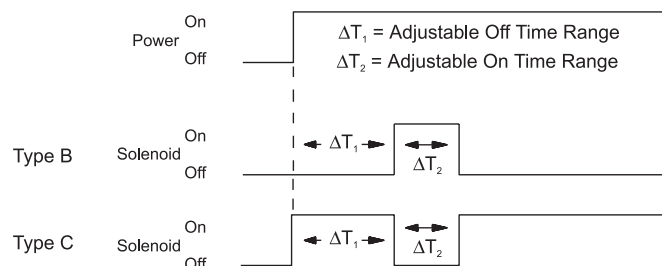
TYPE 8 - TRIGGERED ONE SHOT NORMALLY ON

When power is applied, the solenoid is energized. Solenoid de-energizes for ΔT only upon closure of a normally open momentary contact switch (trigger). Reset occurs when solenoid is ON and the trigger is re-applied.



TYPE B / C - SINGLE CYCLE TIMER

Solenoid cycles ΔT_1 OFF and ΔT_2 ON when power is applied. Reset occurs when power is removed. Timer is available in normally off (Type B) or normally on (Type C).

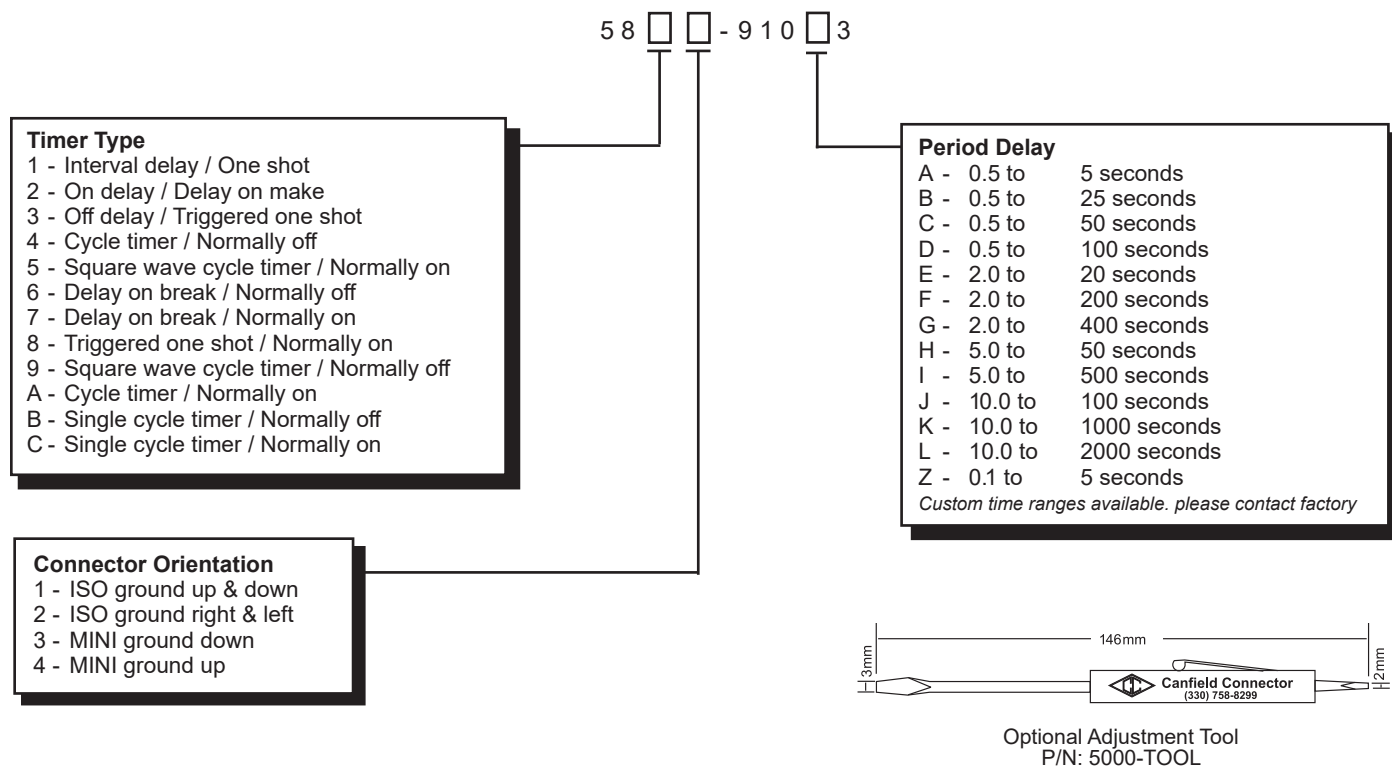


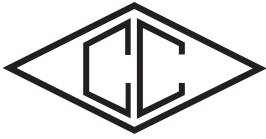
Input Voltage Range	12-240 VDC, 24-240 VAC (50/60 Hz)
Max. Input Voltage	Tolerance: +/-10%
Max. Output Current	1 Amp
Frequency	AC 50/60 Hz or DC
Time Ranges	0.1 sec. to 33 min.; Standard
Timer Repeat Accuracy	+/-0.5%; Under normal conditions
Surge Suppression	MOV
Materials	Housing: PC
Indicator Light	Red
Ambient Rated Temp.	-20° to +60°C
Environmental Protection	IP 65 and NEMA 4
Cable Diameter	0.240"
Cable Conductor Color	Brown, Green, White (Trigger; Yellow, Gray)
Cable Type	Pressure Extruded PVC Jacket
Wire Gauge	20 AWG; Standard
Wire Length	9ft.; Standard

NOTE: Slight discoloration may occur to translucent material after prolonged exposure to UV rays.

ORDERING INFORMATION

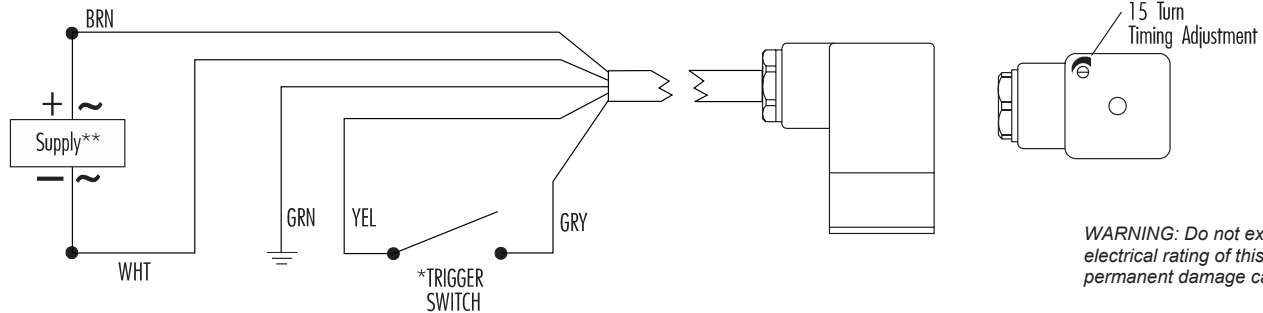
Each connector kit contains screw, washer and gasket assembly.





**SERIES 5800
MICRO LOGIC TIMER (MLT)**

**INSTALLATION GUIDE
FOR 583X / 586X / 587X / 588X**



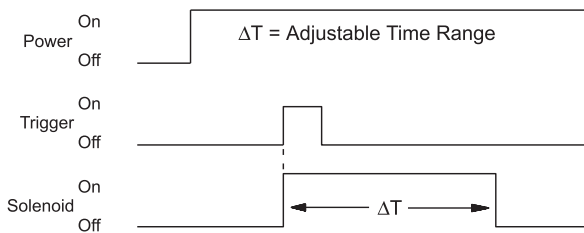
Timing Adjustment:

This timer allows 15 turns of adjustment over the timing range. Divide the selected range by 15. This results in a seconds per turn ratio to aid in your adjustment. The adjustment knob should be turned about 15-20 turns counter-clockwise to insure you are starting at minimum. Add the number of turns clockwise to reach the approximate desired timing. Some additional adjustments may be necessary depending on the desired accuracy.

*Consult factory for hook-up to PLC or other solid state devices used for triggering.
**Polarity must be observed for DC but not for AC operation.

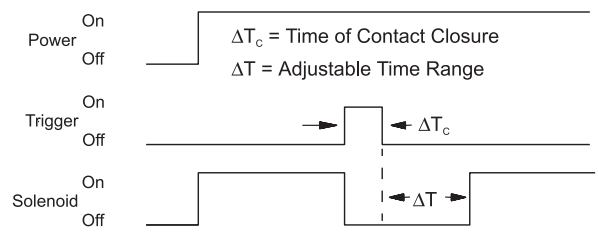
Timing Diagrams

Off Delay/(Triggered One Shot) - Timer Type 3



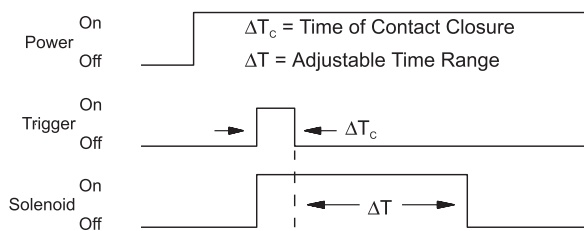
When power is applied, solenoid remains OFF. Solenoid is energized for ΔT only upon closure of a normally open momentary contact switch (trigger). Reset occurs when solenoid is OFF and trigger is re-applied.

Delay On Break Normally On - Timer Type 7



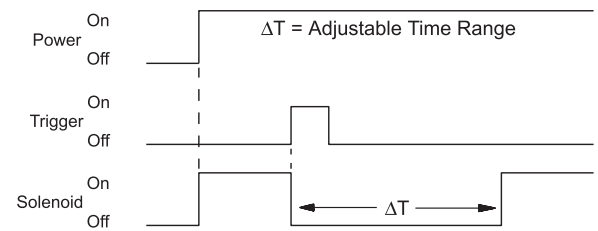
When power is applied, solenoid is energized and remains energized until the trigger switch is closed. Solenoid is then OFF for $\Delta T_c + \Delta T$. Reset occurs when solenoid is ON and the trigger is re-applied.

Delay On Break Normally Off - Timer Type 6

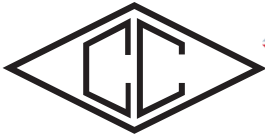


When power is applied, solenoid remains OFF. Solenoid is energized for $\Delta T_c + \Delta T$ when trigger switch is closed and opened. Reset occurs when solenoid is OFF and trigger is re-applied.

Triggered One Shot Normally On - Timer Type 8

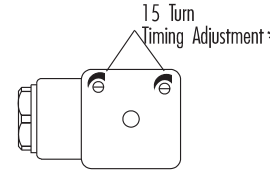
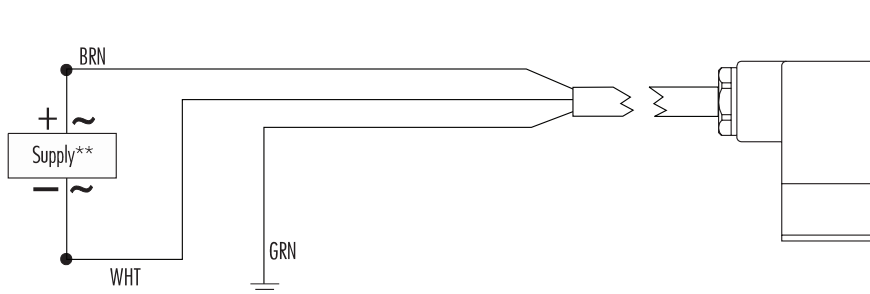


When power is applied, the solenoid is energized. Solenoid de-energizes for ΔT only upon closure of a normally open momentary contact switch (trigger). Reset occurs when solenoid is ON and the trigger is re-applied.



SERIES 5800 MICRO LOGIC TIMER (MLT)

INSTALLATION GUIDE FOR 58AX / 58BX / 58CX / 581X / 582X / 584X / 585X / 589X



WARNING: Do not exceed the electrical rating of this device or permanent damage can result.

Timing Adjustment:

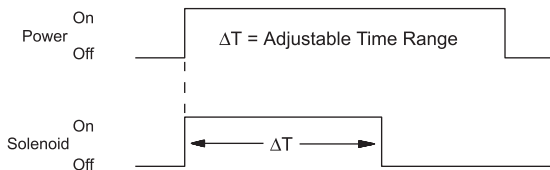
This timer allows 15 turns of adjustment over the timing range. Divide the selected range by 15. This results in a seconds per turn ratio to aid in your adjustment. The adjustment knob should be turned about 15-20 turns counter-clockwise to insure you are starting at minimum. Add the number of turns clockwise to reach the approximate desired timing. Some additional adjustments may be necessary depending on the desired accuracy.

*Two adjustments for cycling timers only.

**Polarity must be observed for DC but not for AC operation.

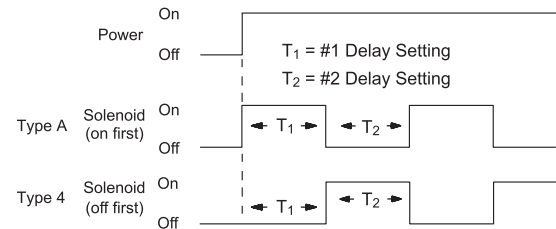
Timing Diagrams

Interval Delay / (One Shot) - Timer Type 1



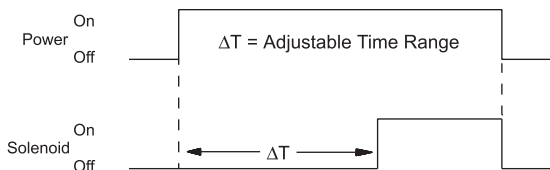
Solenoid is energized for ΔT upon application of power. Reset occurs when power is removed.

Cycle Timer - Timer Type 4 / Type A



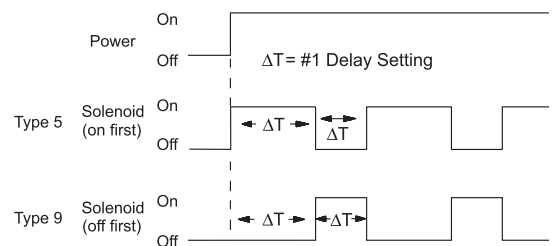
Solenoid cycles ΔT_1 OFF and ΔT_2 ON when power is applied. Reset occurs when power is removed. Timer is available in normally on (Type A) or normally off (Type 4) versions.

On Delay / (Delay On Make) - Timer Type 2



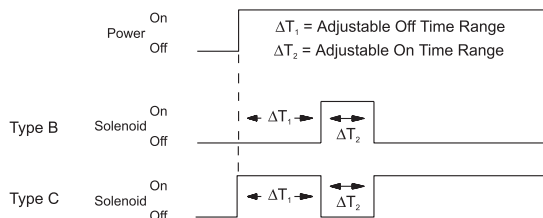
Solenoid remains OFF for ΔT upon application of power. Reset occurs when power is removed.

Square Wave Cycle Timer - Timer Type 5 / Type 9



Solenoid cycles with equal ON and OFF times when power is applied. Reset occurs when power is removed. Timer is available in normally on (Type 5) or normally off (Type 9) versions.

Single Cycle Timer - Timer Type B / C



Solenoid cycles ΔT_1 OFF and ΔT_2 ON when power is applied. Reset occurs when power is removed. Timer is available in normally off (Type B) or normally on (Type C) versions.