

## TH5C Series Multifunction Digital Timer



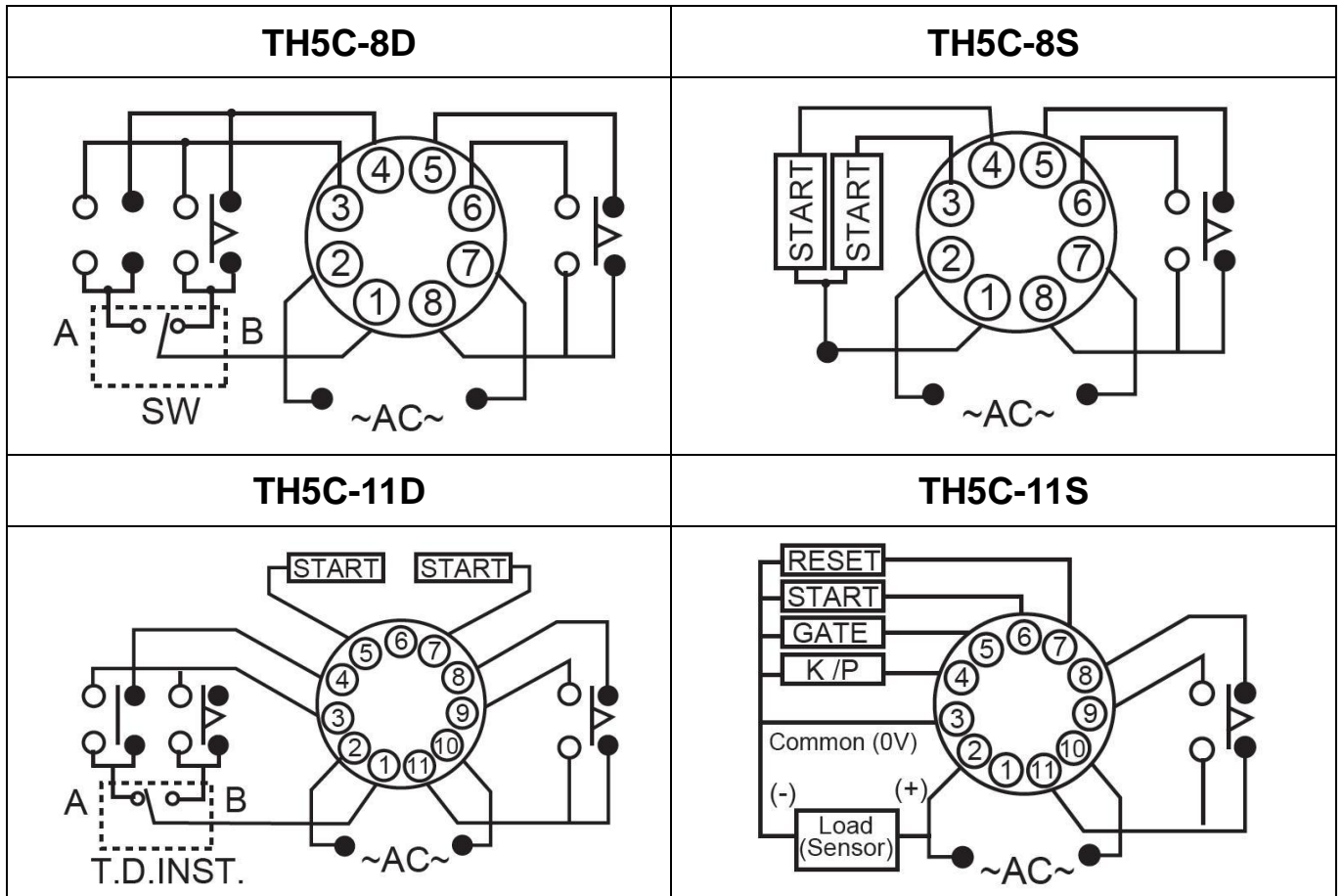
### Features

1. Eleven operating modes: settings of on-delay, off-delay, one-shot, accumulation and flicker.
2. All function parameters are field selectable on the front panel keys
3. Wide time ranges from 0.001 second to 9999 hours
4. Tamper-proof (K/P): providing four levels of protection (TH5C-11S only)
5. Display of elapsed time (up count) / remaining time (down count)
6. Battery-less memory retention
7. Providing 12VDC/50mA insulated power source for external DC sensor (TH5C-11S only)
8. All input signals are opto-isolated from AC power input

# Standard Specification

<b>Model No.</b>	TH5C
<b>Rated Supply Voltage</b>	AC (V) : 100VAC~240VAC or DC (V) : 12VDC/24VDC
<b>Operating Voltage Range</b>	85~110% of rated operating voltage
<b>Rated frequency</b>	50/60Hz
<b>Contact rating</b>	250VAC 5A (resistive load)
<b>Reset Time</b>	0.1 sec max
<b>Power Consumption</b>	Approx. 2VA
<b>Endurance</b>	Mechanical : 10,000,000 times
	Electrical : 100,000 times (250VAC/5A , resistive load)
<b>Ambient Temperature</b>	-10°C~+50°C
<b>Ambient Humidity</b>	45~85% RH
<b>Weight</b>	115g
<b>Dimensions</b>	48x48x79mm
<b>Panel Cut-Out</b>	45x45mm

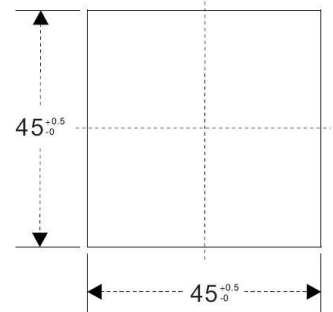
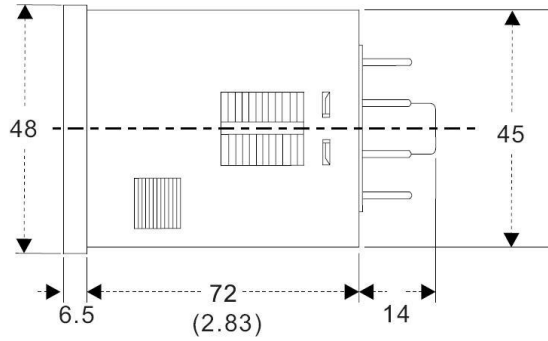
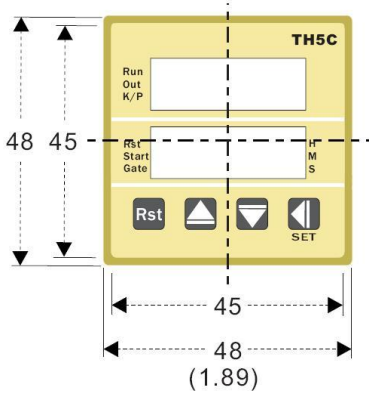
# Wiring Diagram



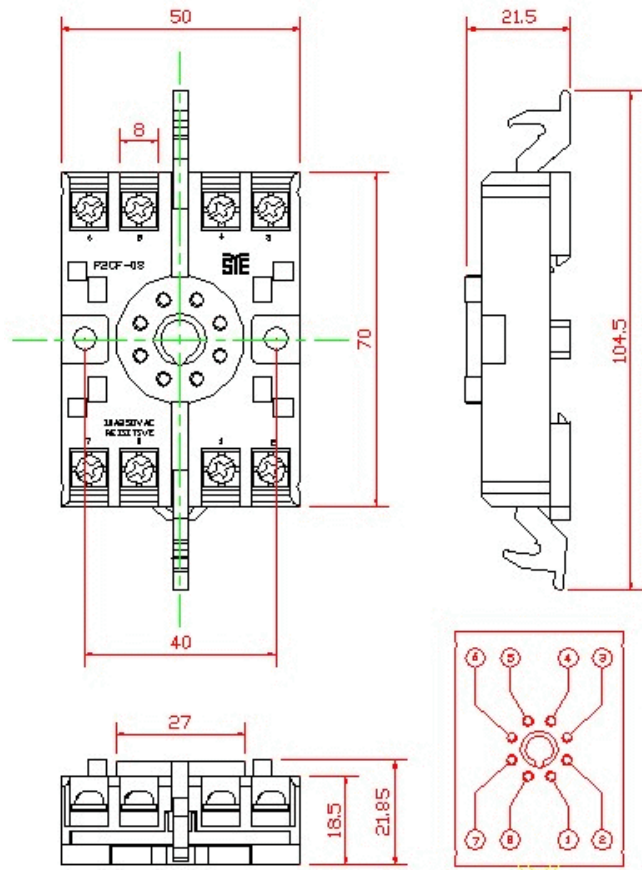
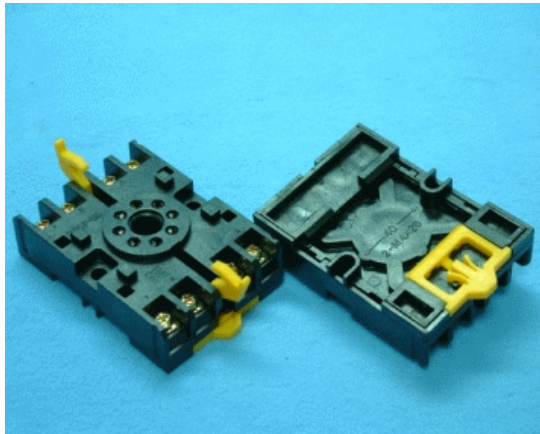
# Dimensions

Unit : mm (inch)

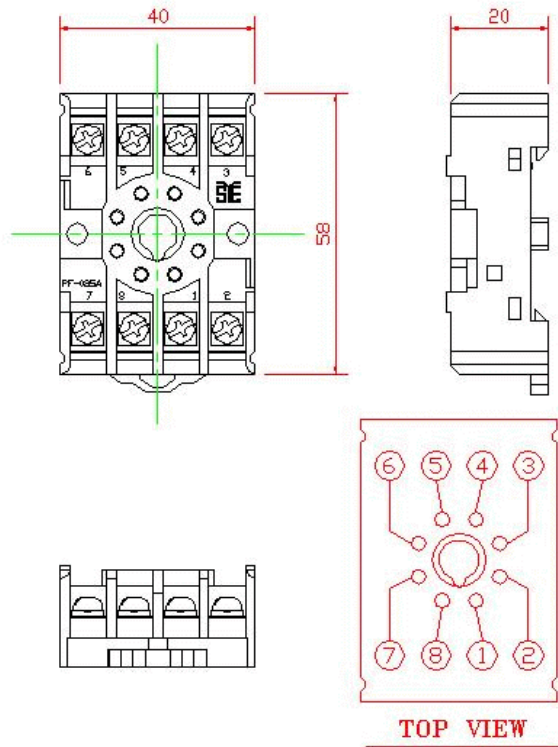
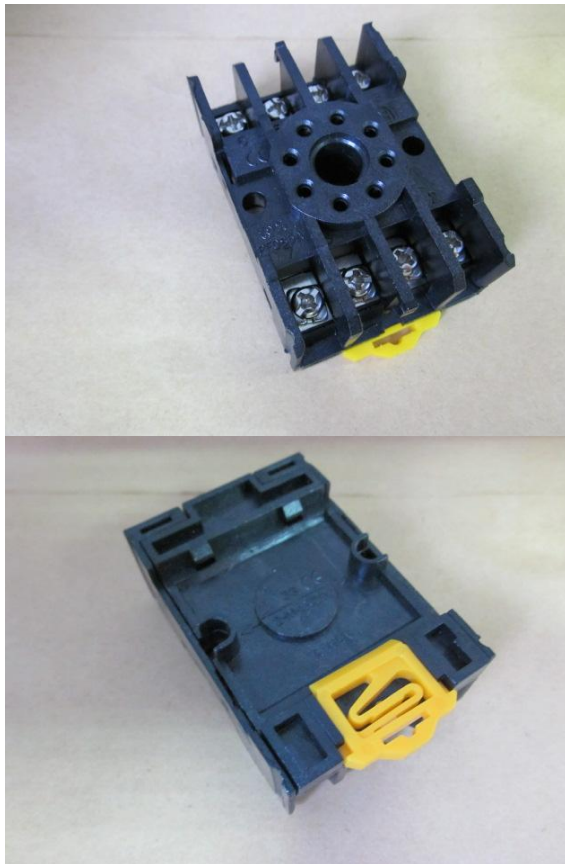
N type (Surface Mounting) : Using P2CF-08, PF085A Socket or PF113A Socket  
(for TH5C-11S/11D use only)



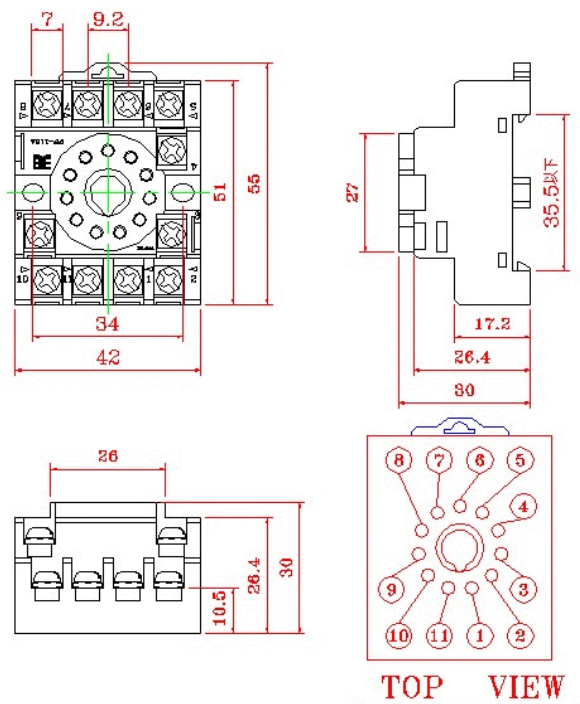
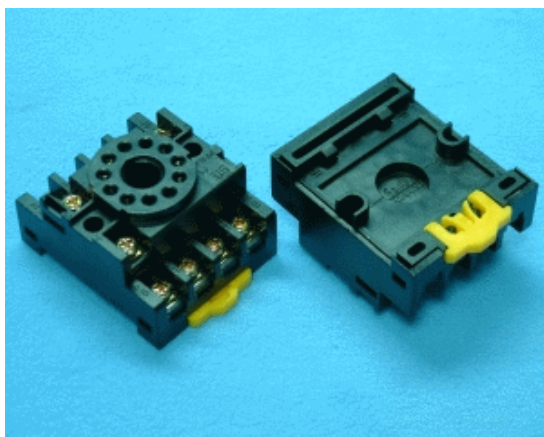
## P2CF-08



PF085A

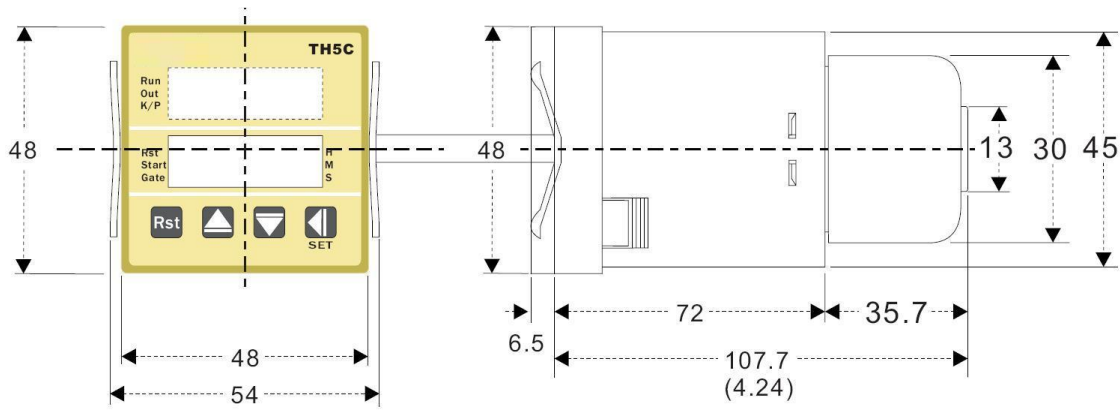


PF113A

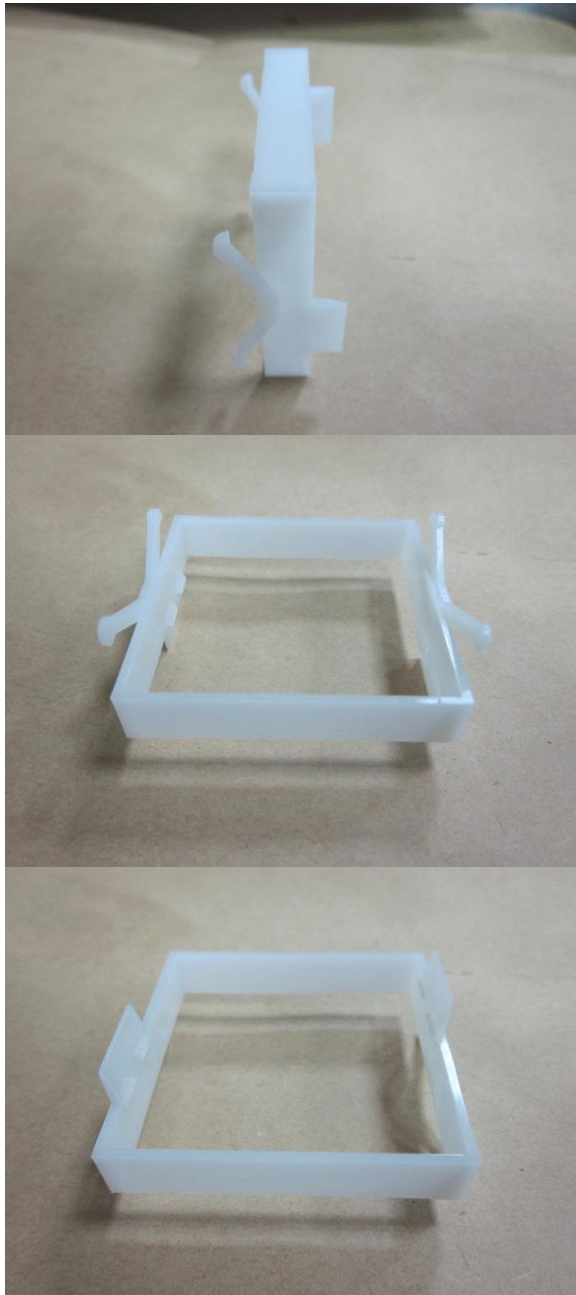




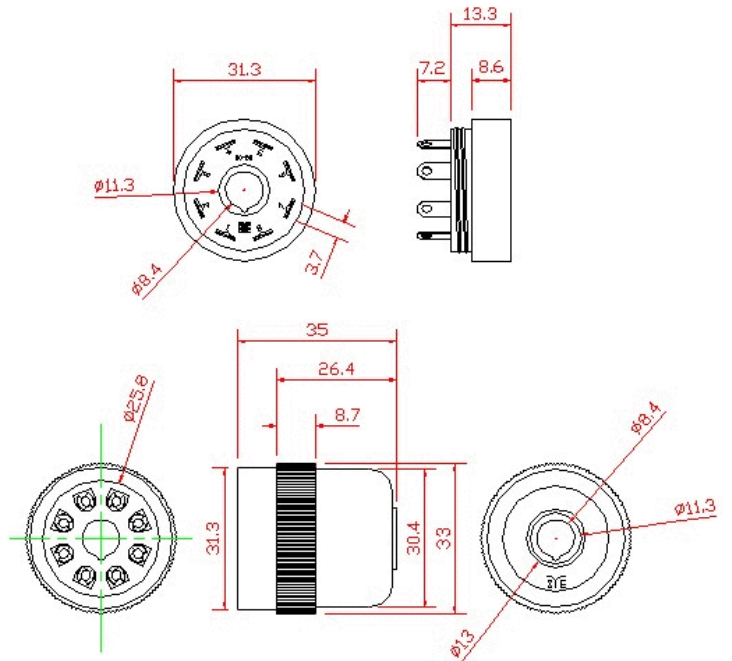
Y type (Flush Mounting) : Using Y48 Frame & US-08 Socket P3G-08 Socket or P3G-11 Socket (for TH5C-11S/11D use only)



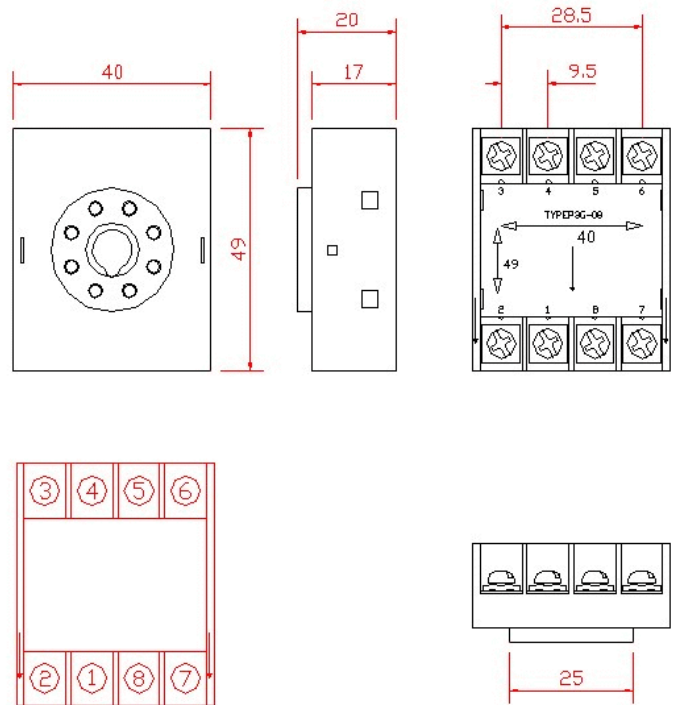
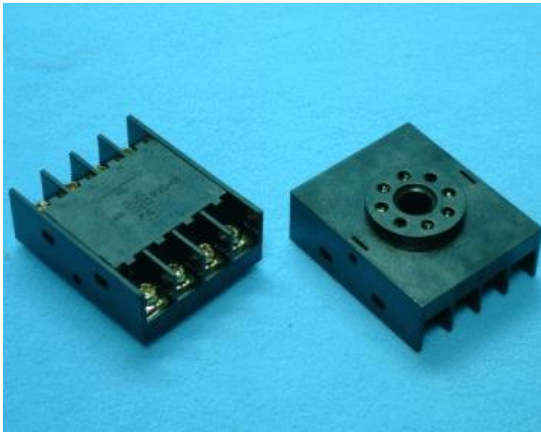
Y48



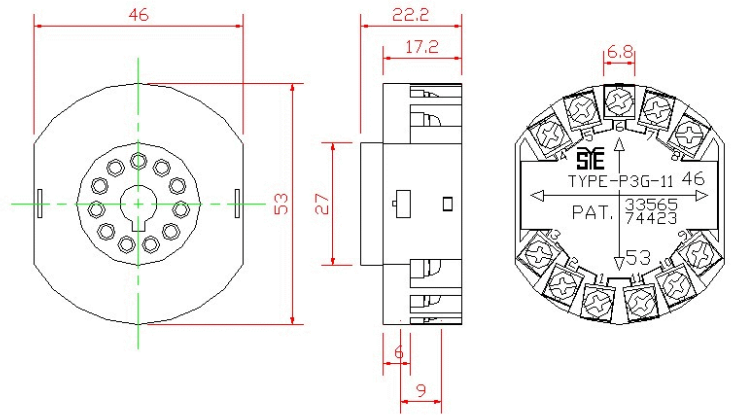
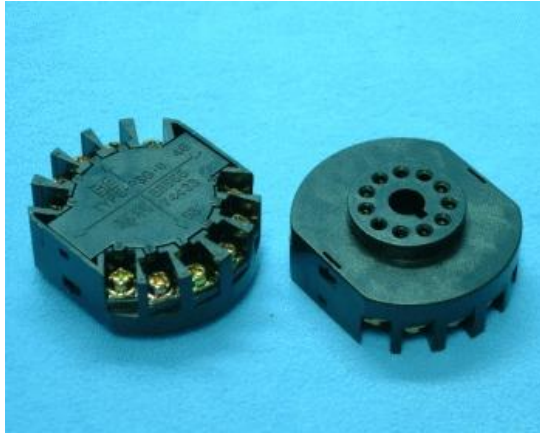
US-08



P3G-08

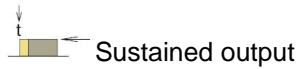


# P3G-11

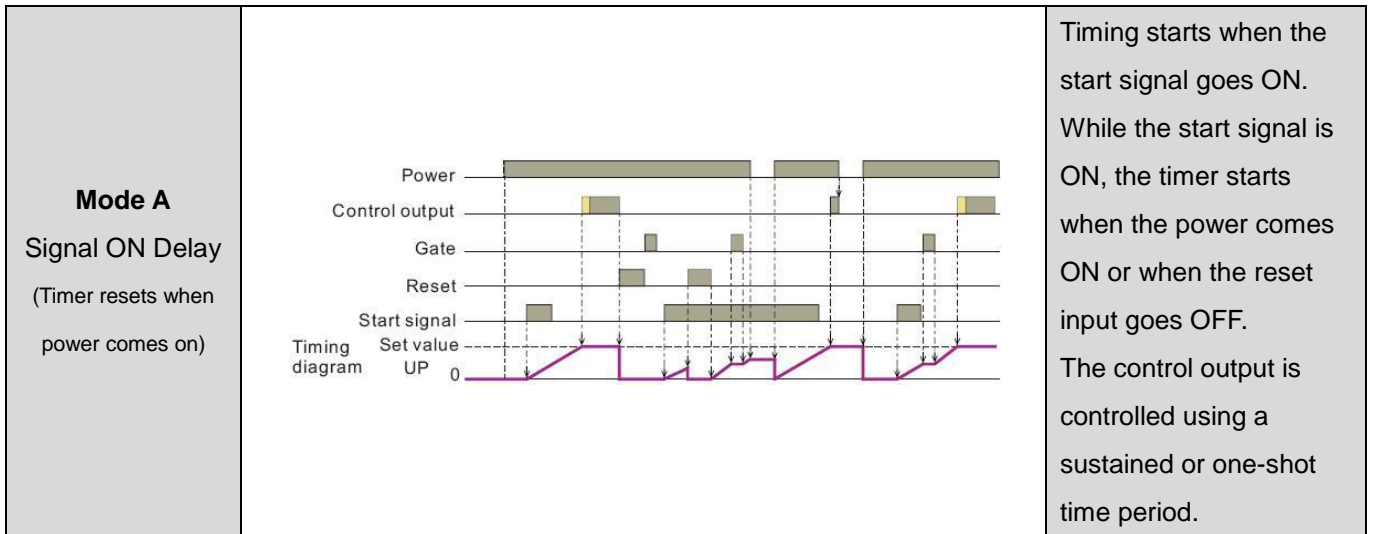


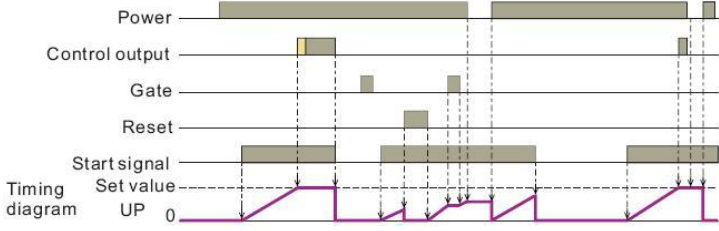
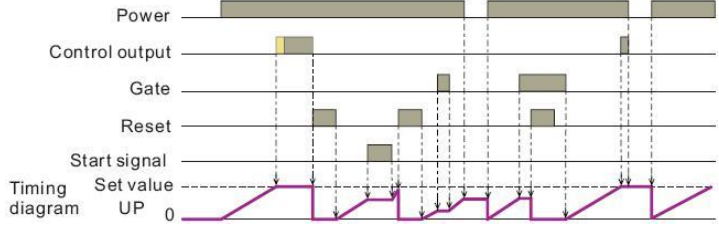
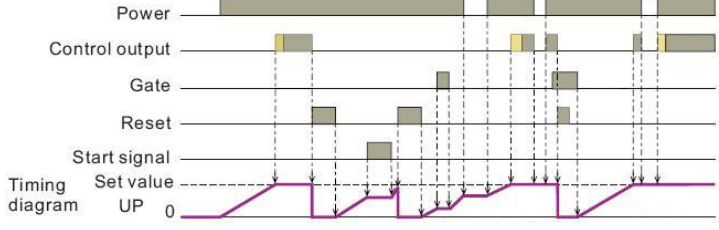
## Timing Charts

One-shot output

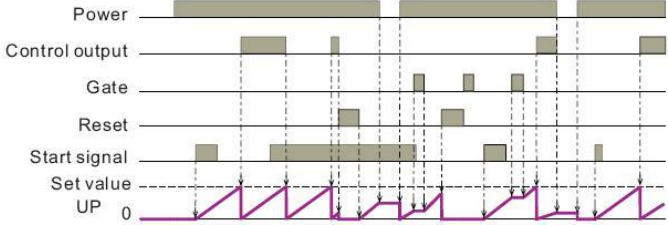
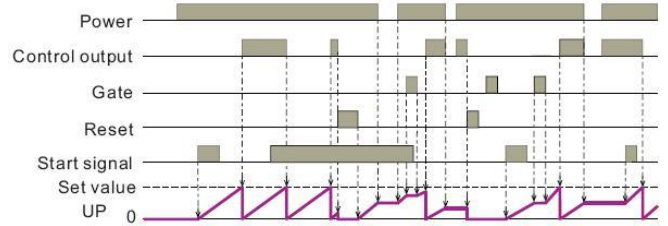
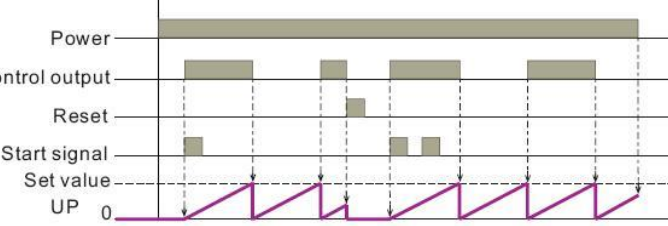
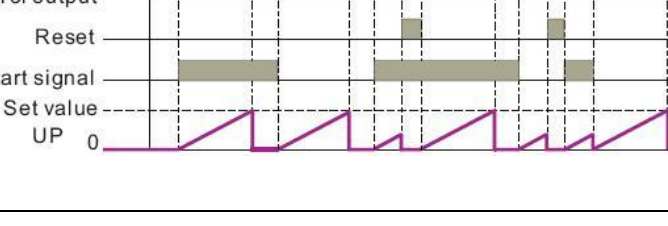


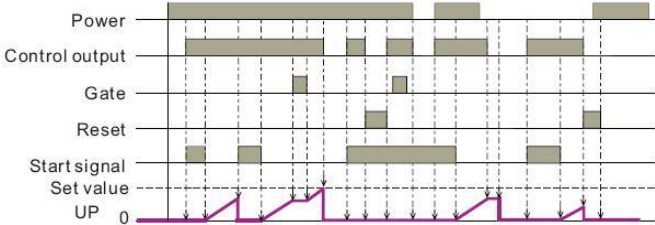
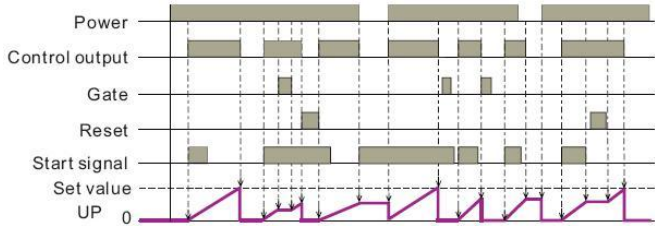
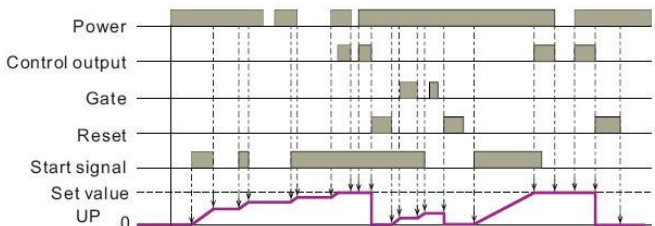
P.S. Either one-shot output or sustained output can be selected



<p><b>Mode A1</b> Signal ON Delay2 (Timer resets when power comes on or when START signal goes off)</p>		<p>Timing starts when the start signal goes ON. and is reset when the start signal goes OFF While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF. The control output is controlled using a sustained or one-shot time period.</p>
<p><b>Mode A2</b> Power ON Delay (Timer resets when power comes on)</p>		<p>Timing starts when the start signal goes ON. The start signal disables the timing function (i.e., same function as the gate input) The control output is controlled using a sustained or one-shot time period.</p>
<p><b>Mode A3</b> Signal ON Delay (Timer does not reset when power comes on)</p>		<p>Timing starts when the start signal goes ON. The start signal disables the timing function (i.e., same function as the gate input) The control output is controlled using a sustained or one-shot time period.</p>



<p><b>Mode B</b></p> <p>Repeat Cycle 1 (Timer resets when power comes on)</p> <p>Output can be sustained or one-shot.</p>		<p>Timing starts when the start signal goes ON.</p> <p>The status of the control output is reversed when time is up (OFF at start)</p> <p>While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.</p>
<p><b>Mode B1</b></p> <p>Repeat Cycle 2 (Timer does not reset when power comes on)</p> <p>Output can be sustained or one-shot.</p>		<p>Timing starts when the start signal goes ON.</p> <p>The status of the control output is reversed when time is up (OFF at start)</p> <p>While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.</p>
<p><b>Mode B2</b></p> <p>Repeat Cycle ON start (Timer does not reset when power comes on)</p> <p>Output can be sustained or one-shot.</p>		<p>Timing starts when the start signal goes ON.</p> <p>The status of the control output is reversed when time is up (OFF at start)</p> <p>While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.</p>
<p><b>Mode C</b></p> <p>Signal ON/OFF delay (Timer reset when power comes on)</p>		<p>Timing starts when the start signal goes ON or OFF.</p> <p>The status of the control output is ON when the start signal goes ON or OFF.</p>

<p><b>Mode D</b> Signal OFF delay (Timer resets when power comes on)</p>		<p>The control output is ON when the start signal is ON (except when the power is OFF or the reset is ON).</p>
<p><b>Mode E</b> Interval (Timer resets when power comes on)</p>		<p>Timing starts when the start signal comes ON. The control output is reset when time is up. While the start signal is ON, the timer starts when the power comes ON or when the reset input goes OFF.</p>
<p><b>Mode F</b> Cumulative (Timer does not reset when power comes ON.)</p>		<p>Start signal enables Timing ( timing is stopped when the start signal is OFF or when the power is OFF) A sustained control output is used.</p>

# Contact

## Taipei World Trade Center

Add: 3C25, Taipei World Trade Center, No. 5, Sec. 5, Hsin Yi Rd. Taipei Taiwan, R.O.C.

Tel: 886-2-27206601 (Rep.)

Fax: 886-2-23455120

E-mail: [gitta@ms9.hinet.net](mailto:gitta@ms9.hinet.net)

<http://www.maxthermo.com>

## Factory

Add: 11F., No.168, Jiankang Rd., Zhonghe City, Taipei County 235, Taiwan (R.O.C.)

Tel: 886-2-22287950 (Rep.)

Fax: 886-2-22286140

## Thailand Office - THAI MAXIMUM ELECTRONIC CO., LTD

Add: 86/132-133 m.7 Samaedum Bangkoontien Bangkok 10150 Thailand.

Tel: +662-415-8318 , +662-417-2548-49

Fax: +662-415-8798

<http://www.thaimaximum.com>