



### SPECIFICATIONS

**Display** : Dual(3+3) 7 segment LED display

**Supply** : 85 to 270V AC, 50/60 Hz

**Operating Modes** : 1) On Delay  
2) Interval

3) Cyclic On first

4) Cyclic Off first

**Time Ranges** : 9.99 / 99.9 / 999 sec

9.59 min:sec, 99.9 / 999 min,

9.59 hour:min, 99.9 / 999 hour

**Counting Direction** : Down/Up

**Relay Rating** : 5A @ 250V AC / 28V DC

**Start Input** : Pulse, Gate (Programmable)

**Reset** : On interruption of power, front panel reset & terminal reset

**Outputs** : 2 Relay (SPDT)

**Memory** : 10 years

**Retention Accuracy** : **Setting** :  $\pm 0.05\%$  of set time or 50 msec  
(Whichever is greater)

**Repeat** :  $\pm 0.05\%$

**Temperature** : **Operating** : 0 to 50°C

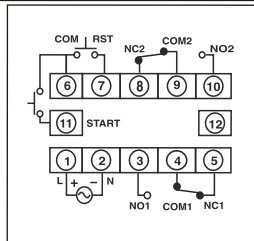
**Storage** : -20 to 75°C

**Humidity** : 95% RH

**Housing** : PC tinted black

**Weight** : 120 gms

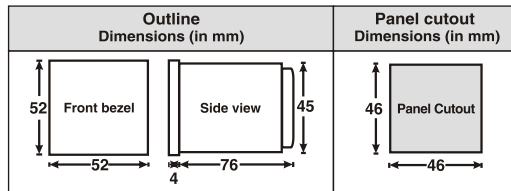
### TERMINAL CONNECTIONS



### MECHANICAL INSTALLATION

For installing the Timer

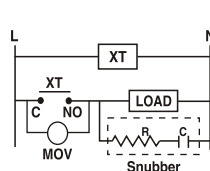
1. Prepare the panel cutout with proper dimensions as shown below :



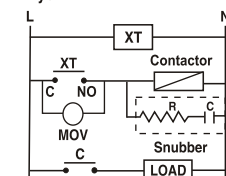
2. Remove the clamp from the controller and push the controller into the panel cutout. Insert the clamp from the rear side until the main is securely fit into the panel.

### LOAD CONNECTIONS

For load current less than 0.5A

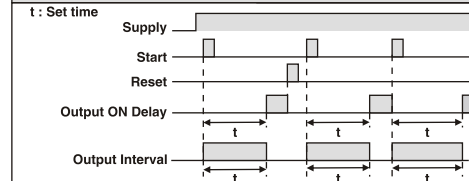


For bigger loads, use interposing relay / contactor

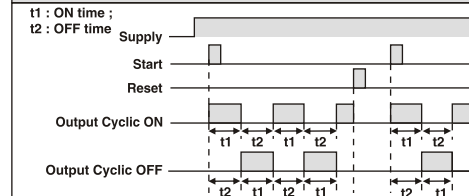


### MODE OF OPERATION

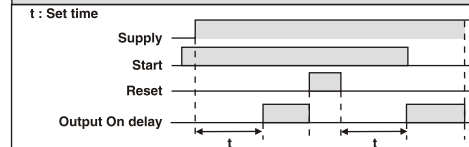
1. On delay, Interval modes :



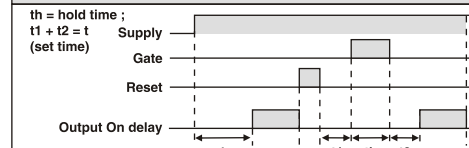
2. Cyclic ON first, Cyclic OFF first modes :



Typical application of Continuous start and reset in On delay mode :



Typical application of Gate start :



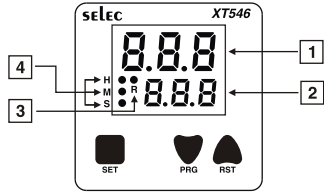
### USER GUIDE

**START** : Pulse / Gate

**A) Pulse** : Timing starts on momentary closure of switch connected between **START** and **COMMON** terminals.

**B) Gate** : Timing starts at power ON. When **START & COMMON** is closed timing freezes and it resumes only when the shorting is opened.

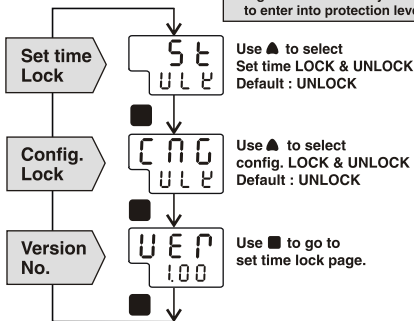
## FRONT PANEL DESCRIPTION



	On line	Config	Lock	For Reset
1	Process Time	Parameter name		
2	Set Time	Parameter setting		
3	Output Status (Lits when Output is ON)			
4	Time Range (Blink in online mode)			

## PROTECTION LEVEL

NOTE : Press **▼** + **▲** together continuously for 3sec. to enter into protection level.

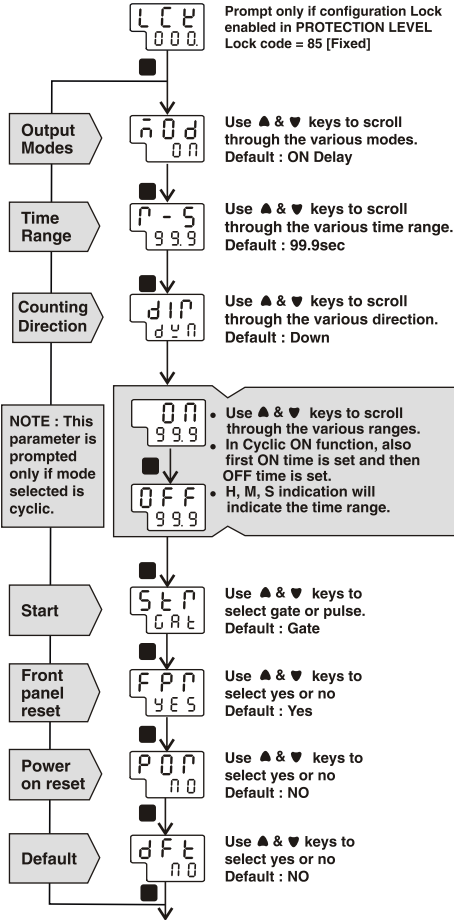


The unit will auto exit lock mode after 30sec. of key inactivity or by pressing **▼** + **▲** keys together continuously for 3sec. to exit the function

## CONFIGURATION INSTRUCTION

1. Enter configuration by pressing key **▼** for 3sec.
2. Scroll various function ranges by pressing **▲** & **▼** key.
3. Scroll various parameter by pressing the **■** key.

The unit will auto exit program mode after 30sec. of key inactivity or by pressing **▼** (PROG) key continuously for 3sec.



## RESET METHOD

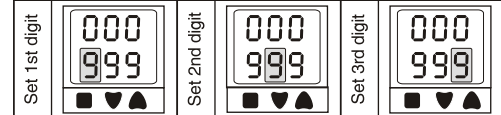
NOTE : Press **▲** (RST) key continuously for 3sec. to enter into function.



## TO PROGRAM SET VALUE

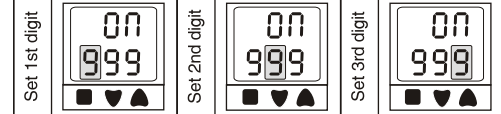
NOTE : Press **■** key continuous for 3 sec to change the set value. The corresponding digit will increment or decrement from 0 to 9 using **▲** & **▼** respectively.

Only if mode selected is on delay / Interval

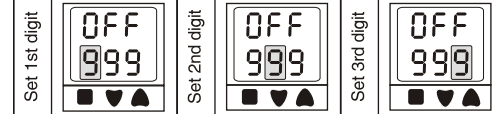


NOTE : Press **■** key to store set value & Press **■** key continuous for 3 sec to exit the set value function .

Only if mode selected is cyclic



NOTE : Press **■** key continuous for 3 sec to register and move to next parameter



NOTE : Press **■** key to store set value & Press **■** key continuous for 3 sec to exit the set value function .

NOTE : If the set value is 000 then timer must hold (not work). All indications will be OFF.

The unit will auto exit set value mode after 30sec. of key inactivity  
( Specifications are subject to change, since development is a continuous process )

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