selec

OP3099-V01

48x48

PARAMETER	SPECIFICATIONS
Display	3 digit,0.56" 7 segment LED display (White)
Supply	90 to 270V AC/DC, 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 / 30V DC
Start Input	Pulse, Gate (Programmable)
Reset	On interruption of power (Selectable), front panel reset & terminal reset.
Outputs	2 Relay (SPDT)
Power Consumption	5VA max @270V AC / DC
Memory Retention	10 years
Accuracy	**Setting** : ± 0.05% of set time or 50 msec (Whichever is greater) **Repeat** : ± 0.05%
Temperature	**Operating** : 0 to 50°C **Storage** : -20 to 55°C
Humidity	95% RH (Non-Condensing)
Housing	PC trance black
Weight	120 gms

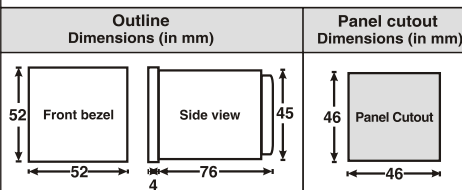## TERMINAL CONNECTIONS
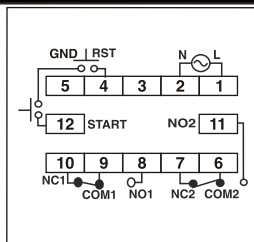
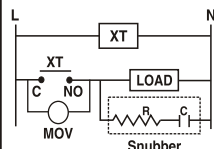## MECHANICAL INSTALLATION

For installing the Timer
1. Prepare the panel cutout with proper dimensions as shown Below :

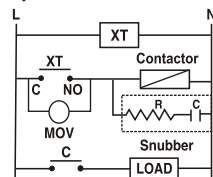| Outline Dimensions (in mm)	Panel cutout Dimensions (in mm)

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
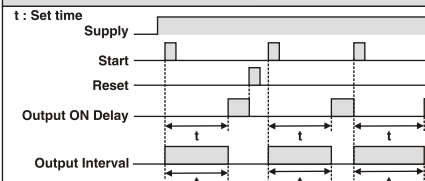
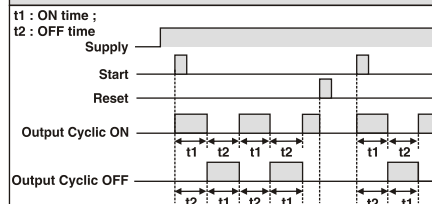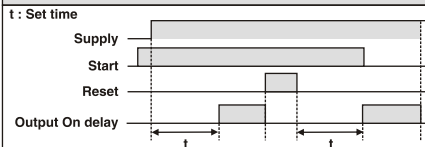| For load current less than 0.5A	For bigger loads, use interposing relay / contactor

MODE OF OPERATION

1.On delay, Interval modes :

t : Set time

2.Cyclic ON first, Cyclic OFF first modes :

t1 : ON time ;
t2 : OFF time

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

t : Set time

Typical application of Gate start :
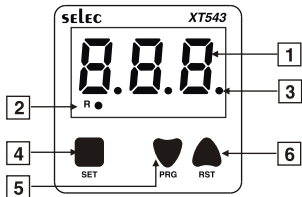
th = hold time ;
t1 + t2 = t (set time)
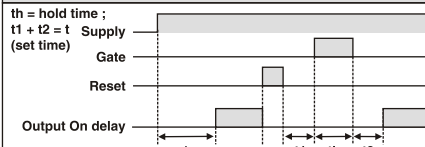
USER GUIDE

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.
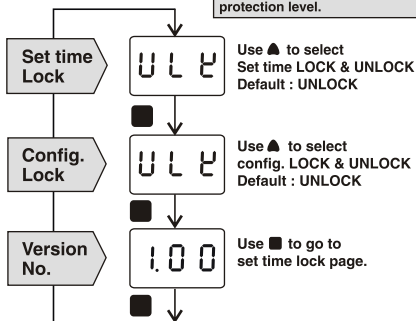
FRONT PANEL DESCRIPTION

#	
1	Process Time
2	Output Status (Lits when Output is ON)
3	Timer Indicator (Blink in online mode)
4	To Set Process time
5	Configuration Mode
6	For Reset

PROTECTION LEVEL

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

Set time Lock
Use ▲ to select
Set time LOCK & UNLOCK
Default : UNLOCK

Config. Lock
Use ▲ to select
config. LOCK & UNLOCK
Default : UNLOCK

Version No.
Use ■ to go to
set time lock page.

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

CONFIGURATION INSTRUCTION

1. Enter configuration by pressing key ▼ for 3 sec.
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.

MODE	DISPLAY	DISCRIPTION
Config Lock	000	Prompt only if configuration Lock enabled in PROTECTION LEVEL Lock code = 85 [Fixed]
Output Modes	on	Use ▲ & ▼ keys to scroll through the various modes. Default : ON Delay
Time Range	r-S 99.9	• This parameter prompted only in On delay & Interval mode. • Default: 99.9s
	OnS 99.9 OFS 9.99	• This parameter prompted only in Cyclic mode • Default: For On time - 99.9s For Off time - 9.99s
Counting Direction	dʏn	Use ▲ & ▼ keys to scroll through the various direction. Default : Down
Start	GAt	Use ▲ & ▼ keys to select gate or pulse. Default : Gate
Front panel reset	YES	Use ▲ & ▼ keys to select yes or no Default : Yes
Power on reset	no	Use ▲ & ▼ keys to select yes or no Default : NO
Default	no	Use ▲ & ▼ keys to select yes or no Default : NO

NOTE : Use ▲ & ▼ keys to scroll through the various time ranges. H, M, S indication will indicate time range.

RESET METHOD

Reset | rSt | Press▲ (RST) key continuously for 3sec. To reset the unit.

The unit will auto exit reset mode after 1sec.

TO PROGRAM SET VALUE

Note 1: Press ■ key continuous for 3 sec to edit the set value.

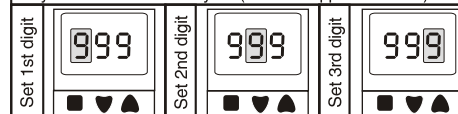**Note 2:** The Corresponding digit will increment or decrement from 0 to 9 using ▲ & ▼ key respectively.

Only if mode selected is on delay / Interval

Set 1st digit: 999
Set 2nd digit: 999
Set 3rd digit: 999
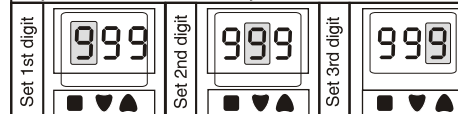
Note : Press ■ key continuous for 3 sec to exit set value function.

Only if mode selected is cyclic (On & Of appears for sec)

Set 1st digit: 999
Set 2nd digit: 999
Set 3rd digit: 999

Note : Press ■ key continuous for 3 sec to store the On time value and move to next parameter that is off time value.

Set 1st digit: 999
Set 2nd digit: 999
Set 3rd digit: 999
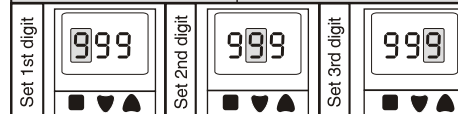
Note :1)Press■ key continuous for 3 sec to exit set value function.
2)If the set value is 000 then timer must hold (not work). &All indications will be OFF.
3)The unit will auto exit set value mode after 30 sec of key inactivity.

(Specifications are subject to change, since development is a continuous process)

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