



XT246A / XT346A / XT546A
Operating Instructions



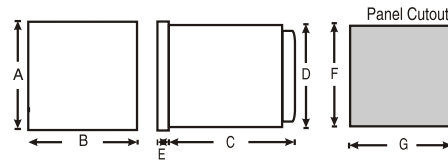
PARAMETER	SPECIFICATIONS
Display	XT246A : Dual LED (3+3) digit, 0.56"+ 0.40" Height, 7 segment. XT346A : Dual LED (3+3) digit, 0.56"+ 0.40" Height, 7 segment. XT546A : Dual LED (3+3) digit, 0.40"+ 0.28" Height, 7 segment. Upper Display : White Lower Display : Green
Supply	90 to 270V AC, 50/60 Hz
Operating 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
Set Point	Single Set Point
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)
LED Indication	Relay Timer Indication
Memory Retention	10 years
Power consumption	5 VA max @270V AC / DC
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 75°C
Humidity	95% RH (non condensing)
Housing	PC trans black
Mounting	Panel Mount
Weight	XT246A : 180 gms XT346A : 200 gms XT546A : 120 gms

MECHANICAL INSTALLATION

PRODUCT CODE

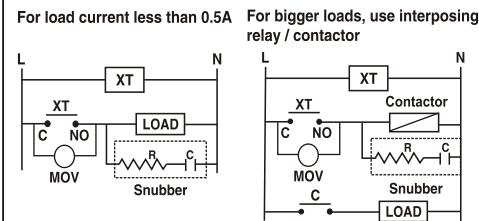
MODELS	DIGITS	BEZEL SIZE(mm)
XT546A	3	48 x 48
XT246A (Self Locking)	3	72 x 72
XT346A	3	96 x 96

OVERALL DIMENSIONS (All dimensions in mm)



MODELS	A	B	C	D	E	F	G
XT546A	52	52	76	45	4	46	46
XT246A	76	76	44	67	4	69	69
XT346A	99	99	39	90.5	3	92	92

LOAD CONNECTIONS



SAFETY PRECAUTIONS

Please maintain these instructions and Review Them prior to using the unit:

⚠ Warning:

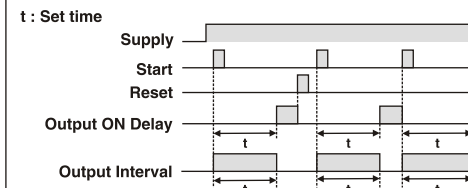
- This unit is panel mounted type with its output terminals getting connected to the host equipment. Such equipment shall also comply with basic EMI/EMC and safety requirements like BS EN 61326-1 and BS EN 61010 respectively.
- To avoid electric shock, power supply of the unit should be kept off while wiring. Wiring should be done Strictly as per the terminal layout, given in the manual.
- Use lugged terminals to meet M3 screws.

⚠ Caution:

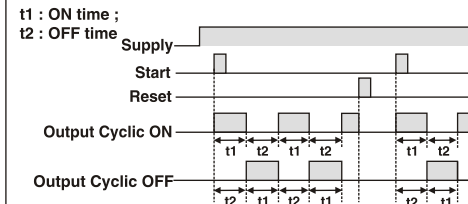
- This unit is not intended for outdoor use.
- The power connection cable must have a cross-section of At least 1mm² and insulation capacity of at least 1.5kV.
- The output connections must not be loaded beyond the specified values/range.
- Avoid inflow of dust and contact of conductive material With the internal circuitry of the unit.
- The unit must not operate in presence of heating Sources, caustic vapors, oil, steam, vibration or impact etc.
- Use clean soft cloth for cleaning. Do not use any Organic solvents like Isopropyl alcohol. Care must be

MODE OF OPERATION

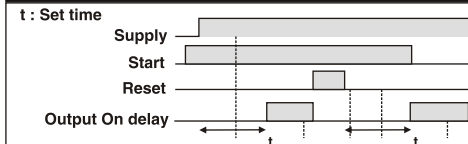
1. On delay, Interval modes :



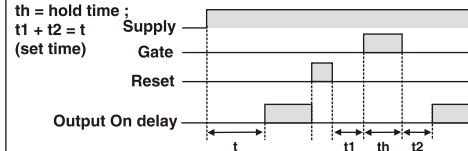
2. Cyclic ON first, Cyclic OFF first modes :



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



Typical application of Gate start :

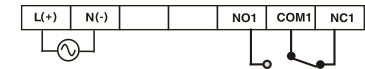


USER GUIDE **START : Pulse / Gate**

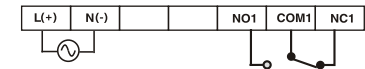
- A) Pulse** : Timing starts on momentary closure of switch Connected between **START** and **COMMON** terminals.
B) Gate : Timing starts at power ON. When **START & COMMON** is Closed timing freezes and it resumes only When the shorting is opened.

TERMINAL CONNECTIONS

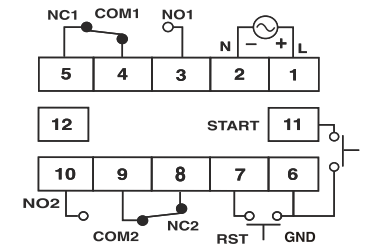
XT246A



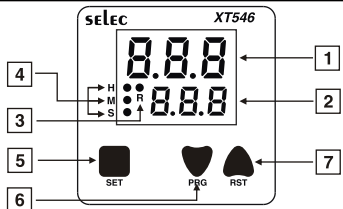
XT346A



XT546A



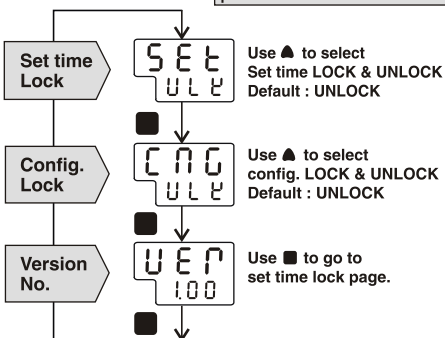
FRONT PANEL DESCRIPTION



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

PROTECTION LEVEL

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



Description	Display	Default Value	Range
Set time Lock	SEt ULt	UNLOCK	LOCK/ UNLOCK
Config. Lock	CnG ULt	UNLOCK	LOCK/ UNLOCK

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

RESET METHOD



The unit will auto exit reset mode after 1sec.

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.

MODE	DISPLAY	DISCRIPTION
	LCU 000	Prompt only if configuration Lock enabled in PROTECTION LEVEL Lock code = 85 [Fixed]
Output Modes	On On	Use ▲ & ▼ keys to scroll through the various modes. Default : ON Delay
Time Range	P-5 99.9	<ul style="list-style-type: none"> This parameter prompted only in On delay & Interval mode. Default: 99.9s
	On 99.9	<ul style="list-style-type: none"> This parameter prompted only in Cyclic mode Default: For On time - 99.9s
	Off 99.9	<ul style="list-style-type: none"> Default: For Off time - 9.99s
Counting Direction	dIn d=On	Use ▲ & ▼ keys to scroll through the various direction. Default : Down
Start	SEt GAt	Use ▲ & ▼ keys to select gate or pulse. Default : Gate
Front panel reset	FPr YES	Use ▲ & ▼ keys to select yes or no Default : Yes
Power on reset	POn No	Use ▲ & ▼ keys to select yes or no Default : NO
Default	dFt No	Use ▲ & ▼ keys to select yes or no Default : NO

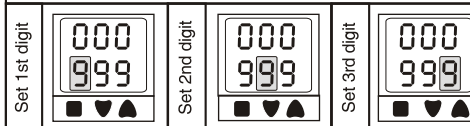
TO PROGRAM SET VALUE

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.

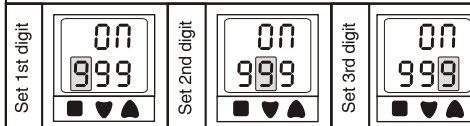
Note 3: Press **■** key to shift the Digit.

Only if mode selected is on delay / Interval

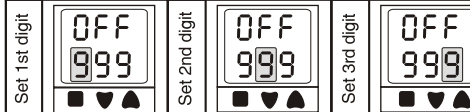


Note : Press **■** key continuous for 3 sec to exit set value function.

Only if mode selected is cyclic



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



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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