

SELEC

TT412B

Operating Instructions



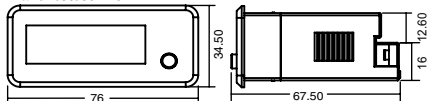
36 X 72mm

## SPECIFICATIONS

Display	6 digit, 0.30" Red 7 segment LED
Supply voltage	90 to 270V AC/ DC @ 50/60 Hz
Time range	a) 99999.9 sec b) 999999 sec c) 99999.9 min d) 999999 min e) 99999.9 hrs f) 999999 hrs
Sensor Supply	12VDC @60mA (use external supply if current>60mA)
Input	Potential free contact
Memory Retention	10 years
Accuracy	±0.05%
Housing	Flame retardant plastic.
Mounting	Panel mounting.
Temperature	Operating : 0 - 50°C Storage : -20 - 75°C
Humidity	95% RH
Weight	85gms

## MECHANICAL INSTALLATION

Panel cutout : 29mm x 71mm



## SAFETY PRECAUTIONS

Please maintain these instructions and review them prior to using the unit :

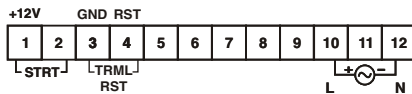
## ⚠ WARNING

- This unit is panel mounted type with its output terminals connecting to the host equipment. Such equipment shall also comply with basic EM/EMC and safety requirements like IEC 61326-1 and IEC 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.

## ⚠ CAUTION

- This unit is not intended for outdoor use.
- The power connection cable must have a cross-section of at least 1sq.mm 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 moist cloth soaked in water for cleaning. Avoid entry of water into the circuitry through the ventilation holes.

## TERMINAL CONNECTIONS



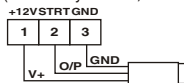
TERMINALS	DESCRIPTION
1	+12V
1 - 2	Start
3 - 4	Terminal Reset
10	L-Live (+)
12	N-Neutral (-)

## TYPICAL APPLICATION

CASE1: Operated by external contact.

- A PNP proximity sensor can be used instead of a switch.
- Connect proximity switch between terminals 1,2 & 3.
- The time displayed on TT412B will be indicative of the time for which the machine is ON(Sensed by Sensor).

PNP Sensor :



CASE2: Operated only by Potential free contact

- Short Terminal 1 & 2 of TT412B.
- Display will be On when power is applied to the machine and TT412B at a same instance. TT412B will display the time for which the machine is ON.

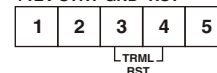
Potential free contact :



## RESET METHOD

By Terminals : Short terminals 3 &amp; 4

+12V STRT GND RST

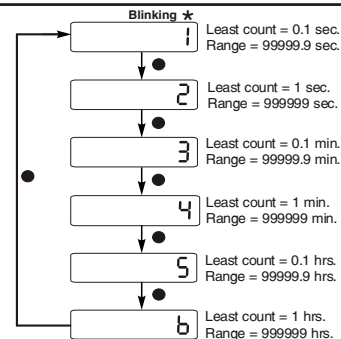


## CONFIGURATION INSTRUCTION

- Press ● key at complete power ON to enter configuration mode
- Scroll various function ranges by pressing ● key.

## Range Selection

Default : 1



The unit will auto exit configuration mode after 15sec of key inactivity or by turn unit OFF & ON

## TO READ RANGE (For Timer Only)

KEY PRESS (MOMENTARY)	DISPLAY	DESCRIPTION
●		Range code is displayed for selected range

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

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