OP1028-V01

selec

TT412B
Operating Instructions

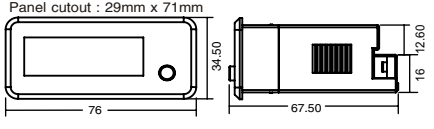


36 X 72mm

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



SAFETY PRECAUTIONS

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

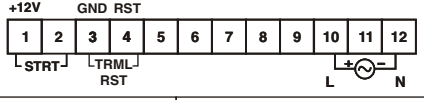
⚠ WARNING

1. This unit is panel mounted type with its output terminals connecting to the host equipment. Such equipment shall also comply with basic EMI/EMC and safety requirements like IEC 61326-1 and IEC 61010 respectively.
2. 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

1. This unit is not intended for outdoor use.
2. The power connection cable must have a cross-section of at least 1sq.mm and insulation capacity of at least 1.5kV.
3. The output connections must not be loaded beyond the specified values/range.
4. Avoid inflow of dust and contact of conductive material with the internal circuitry of the unit.
5. The unit must not operate in presence of heating sources, caustic vapors, oil, steam, vibration or impact etc.
6. Use clean moist cloth soaked in water for cleaning. Avoid entry of water into the circuitry through the ventilation holes.

TERMINAL CONNECTIONS

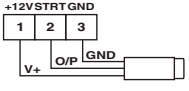


TERMINALS	DESCRIPTION
1	+12V
1 - 2	Start
3 - 4	Terminal Reset
10	L-Live (+)
12	N-Neutral (-)

TYPICAL APPLICATION

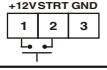
CASE1: Operated by external contact.
1) A PNP proximity sensor can be used instead of a switch.
2) Connect proximity switch between terminals 1,2 & 3.
3) The time displayed on TT412B will be indicative of the time for which the machine is ON(Sensed by Sensor).

PNP Sensor :



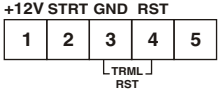
CASE2: Operated only by Potential free contact
1) Short Terminal 1 & 2 of TT412B.
2) Display will be On when power is applied to the machine and TT412B at a same instance. TT412B will display the time for which the machine is ON.

Potential free contact :



RESET METHOD

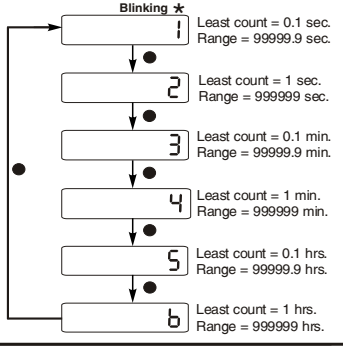
By Terminals : Short terminals 3 & 4



CONFIGURATION INSTRUCTION

1) Press ● key at complete power ON to enter configuration mode
2) 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
●	1	Range code is displayed for selected range

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

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