

selec**TT412**
Operating Instructions

36 X 72

SPECIFICATIONS**DISPLAY**

0.3", 7 segment LED (6 digits) For TT412

RANGEa) 99999.9 sec b) 999999 sec c) 99999.9 min
d) 999999 min e) 99999.9 hrs f) 999999 hrs**ACCURACY**

Better than 0.05 %

SETTING

Via key on front panel

INPUT

Potential free contact

RESET

Via rear terminals

RESET TIME

20 ms.

MEMORY RETENTION

10 years

CONFIGURATION LOCK

Via rear terminals to avoid inadvertent change in configured parameters

POWER SUPPLY90 to 270V AC/ DC,
@ 50/60 Hz, 1.0VA 24V AC/DC**MOUNTING**

Panel mounting

OPERATING TEMP.

0 - 50°C

HUMIDITY

95% RH

HOUSING

ABS Plastic

WEIGHT

TT412 - 95gms

PRODUCT CODE:

MODELS	BEZEL SIZE(mm)
TT412	36 X 72

TERMINAL CONNECTIONS

TERMINALS	DESCRIPTION
1	+12V
2	STRT/ HLD
3	+12V supply
3 - 4	Reset input
5	COM (GND)
5 - 6	Short to enter Configuration
10	N-Neutral (-)
12	L-Live (+)

**MECHANICAL INSTALLATION**

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

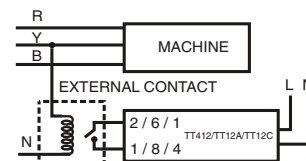
MODELS \ DIM	A	B	C	D	E	F	G
TT412	33	75	74.5	28	3.5	29	71

OPERATION

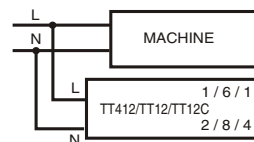
The TT412 totalises time when STRT/HLD terminals are shorted (TT412:1-2). When operated, the display advances by 1 count at every interval of selected least count. The display indicates the cumulative total of the time for which the instrument is operated. The time totaliser is used primarily for measuring running/operating time of continuously operating machines. The connections for such an application is given below :

- 1) The display will be continuously ON.
- 2) The time displayed on TT412 will be indicative of the time for which the machine is ON.
- 3) A PNP proximity sensor can be used instead of

- 4) Connect proximity switch between terminals 1-2 (for TT412)

**CASE2 :** TT412 operated only by mains connection

- 1) Short T1 & T2 terminals.
- 2) Display will be on when power is applied to the machine in this case & will display the time for which the machine is ON.

**RANGE SELECTION PROGRAMMING :**

- 1) Short terminal no 5 & 6
- 2) Turn power on
- 3) Program range setting as per instructions below:

KEY PRESS	DISPLAY	DESCRIPTION
		Blinking ★
Range	1	Least count = 0.1 sec. Range = 99999.9 sec.
Press	2	Least count = 1 sec. Range = 999999 sec.
Press	3	Least count = 0.1 min. Range = 99999.9 min.
Press	4	Least count = 1 min. Range = 999999 min.
Press	5	Least count = 0.1 hrs. Range = 99999.9 hrs.
Press	6	Least count = 1 hrs. Range = 999999 hrs.

After selecting appropriate code:

- 1) Turn power off
- 2) Remove link between terminal no 5 & 6 (For TT412)
- 3) Turn power on. Display resets to 0 & start functioning as per selection.

TO READ RANGE (for 3 sec)

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

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

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