

Etsilon



Time Totaliser HM714

Features

- ▶ 6 digits time totaliser
- ▶ Selectable time range
- ▶ Inbuilt sensor supply
- ▶ CE certified
- ▶ High accuracy
- ▶ Remote reset
- ▶ Compact size
- ▶ 36 x 72mm Size

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A) SAFETY PRECAUTIONS

⚠ SAFETY SUMMARY

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:

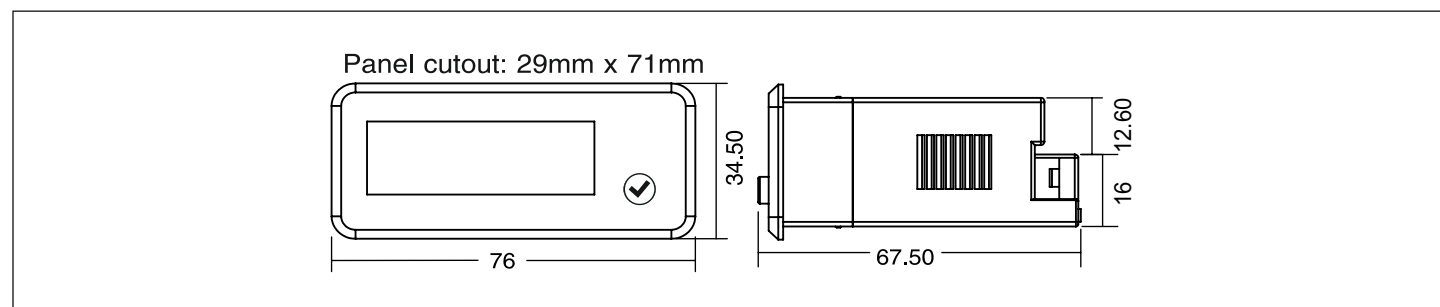
1. This unit is not intended for outdoor use.
2. The power connection cable must have a cross-section of at least 1sq.mm and insulation capacity of at least 1.5kV.
3. The output connections must not be loaded beyond the specified values/range.
4. Avoid inflow of dust and contact of conductive material 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.

B) OVERVIEW

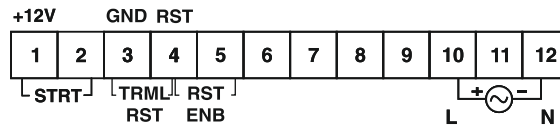
SPECIFICATIONS

Display	6 digit, 0.36" white 7 segment LED
Supply voltage	90 to 270V AC/DC, 50/60 Hz, 5VA max
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	12V DC @30mA (use external supply if current>30mA)
Input	Potential free contact
Memory retention	10 years
Accuracy	±0.05%
Housing	Flame retardant plastic
Mounting	Panel mounting
Temperature	Operating: 0 to 50 °C, Storage: -20 to 75 °C
Humidity	95% RH
Weight	85gm

MECHANICAL INSTALLATION



C) TERMINAL CONNECTION

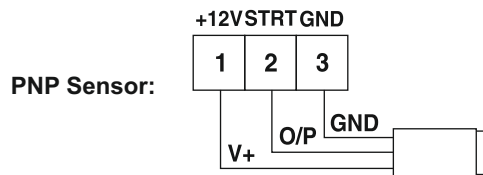


TERMINALS	DESCRIPTION
1	+12V
1-2	Start
3-4	Terminal reset
4-5	Front reset enable
10	L-Live (+)
12	N-Neutral (-)

TYPICAL APPLICATION

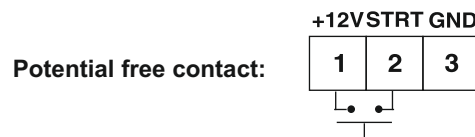
CASE1: Operated by external contact.

- 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 HM714 will be indicative of the time for which the machine is ON (sensed by sensor).

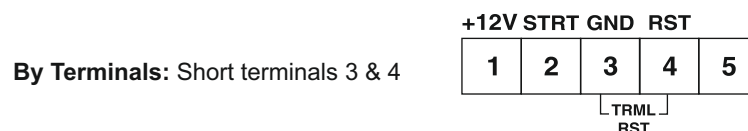


CASE2: Operated only by potential free contact

- 1) Short terminal 1 & 2 of HM714.
- 2) Display will be on when power is applied to the machine and HM714 at a same instance. HM714 will display the time for which the machine is ON.

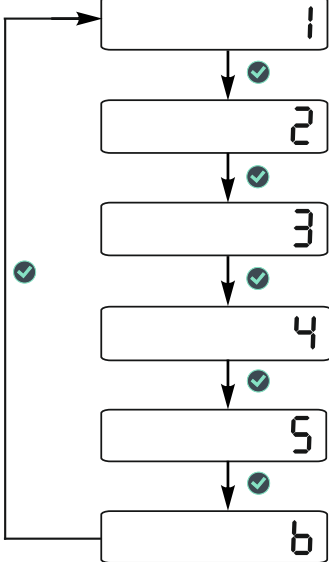


RESET METHOD

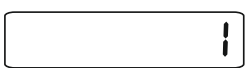


D) PROGRAMMING

- 1) Press  key while power ON to enter configuration mode
- 2) Scroll various function ranges by pressing  key.

Range Selection	Default: 1
Blinking * 	
1	Least count = 0.1 sec. Range = 99999.9 sec.
2	Least count = 1 sec. Range = 999999 sec.
3	Least count = 0.1 min. Range = 99999.9 min.
4	Least count = 1 min. Range = 999999 min.
5	Least count = 0.1 hrs. Range = 99999.9 hrs.
6	Least count = 1 hrs. Range = 999999 hrs.

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

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