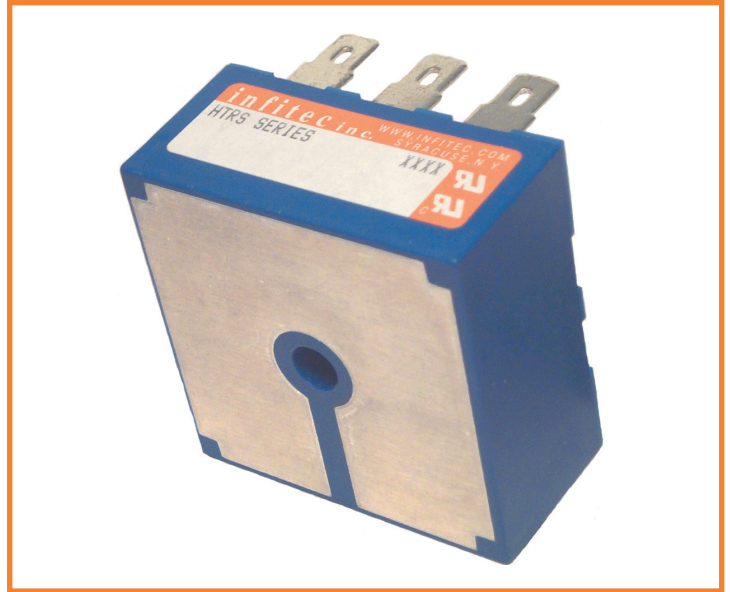




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HTRS SERIES DIGITAL ENCAPSULATED REPEAT CYCLE TIME DELAY MODULE



FEATURES

- C/MOS Digital Circuitry
- Fixed, Independent Local, or External Timing Adjustments
- Time Delays from 0.05 Seconds to 1000 Minutes
- Fully Solid State and Encapsulated
- No First Cycle Effect
- 0.5% Repeat Accuracy
- Low Cost Mounting and Termination
- Output Current Ratings to 25 Amperes Steady State, 250 Amperes Inrush

SPECIFICATIONS

1. Time Delay

- 1.1 Type: C/MOS Digital Circuitry
- 1.2 Range: From 0.05 Seconds to 1000 Minutes
- 1.3 Repeat Accuracy: $\pm 0.5\%$ Under Fixed Conditions
- 1.4 Setting Accuracy: $\pm 10\%$
- 1.5 Reset Time: 100 Milliseconds Maximum
- 1.6 Recycle Time: 150 Milliseconds
- 1.7 Time Delay vs. Voltage and Temperature: $\pm 2\%$
- 1.8 External Resistance (Remote Adjust Only): Max. Delays
 1 Megohm For Ranges 1 - 6H
 3 Megohms for Range 7

2. Input

- 2.1 Operating Voltage: 24, 120, & 230 VAC
- 2.2 Tolerance: $\pm 20\%$ of Nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output

- 3.1 Type: Solid State
- 3.2 Form: SPST
- 3.3 Ratings:
 - A - 6 Amp Steady State, (60 Amp Inrush, 200 mA min.)
 - B - 10 Amp Steady State, (100 Amp Inrush, 225 mA min.)
 - C - 15 Amp Steady State, (150 Amp Inrush, 250 mA min.)
 - D - 2.5 Amp Steady State, (50 Amp Inrush, 150 mA min.)
 - H - 25 Amp Steady State, (250 Amp Inrush, 500 mA min.)
 - Maximum Plate Temperature: 85°C
 - Maximum Plate Temperature: 60°C
- 3.4 Life: 100,000,000 Operations Minimum Under Full Load

4. Protection

- 4.1 Transient: ± 1500 Volts for 150 Microseconds
- 4.2 Dielectric Breakdown: 1500 Volts RMS Minimum

5. Mechanical

- 5.1 Mounting: One #8 or #10 Screw
- 5.2 Termination: 1/4" Quick Connect Terminals
- 5.3 Style: Surface Mount/Encapsulated With Heat Sink Surface (See Dimension Drawing)

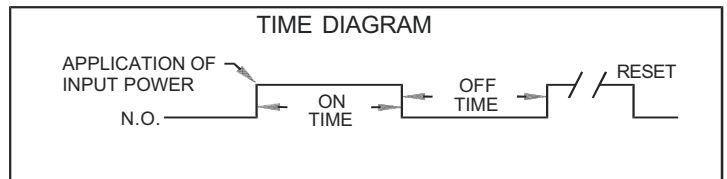
6. Environmental

- 6.1 Operating Temperature: -20°C to +80°C
- 6.2 Storage Temperature: -30°C to +85°C
- 6.3 Humidity: 95% Relative, Non-Condensing

MODE OF OPERATION

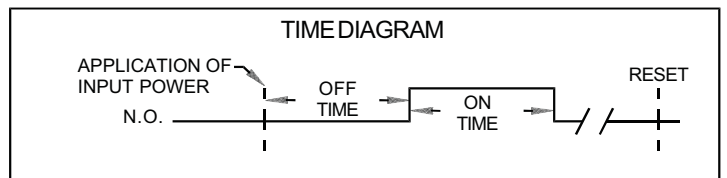
ON/OFF RECYCLE

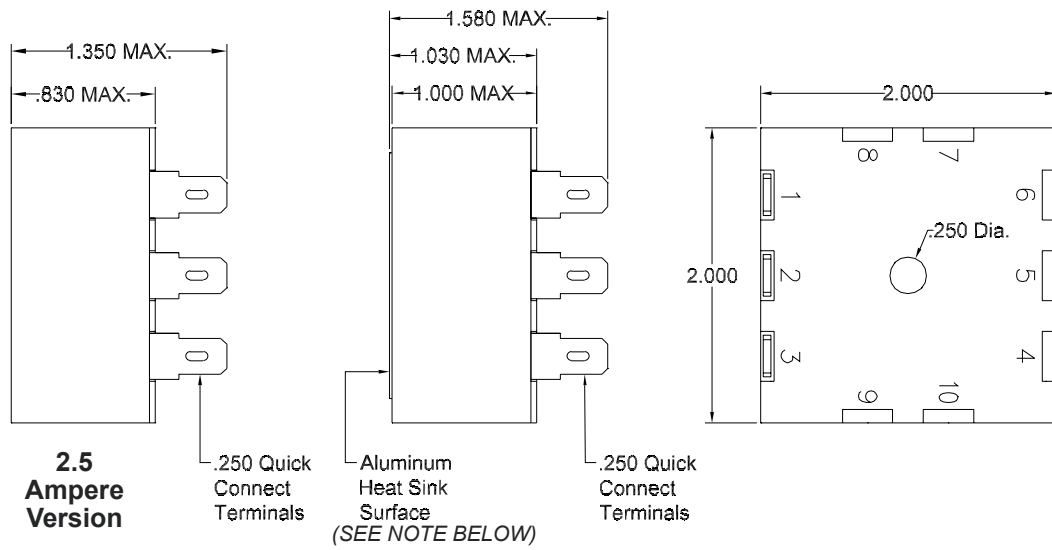
Upon application of power to the input terminals, the ON delay begins and the output contact transfers. Upon completion of the ON delay, the output contact reverts back to its original position and the OFF delay begins. Upon completion of the OFF delay, the output contact again transfers and the cycle repeats. Reset is accomplished by removal of input power.



OFF/ON RECYCLE

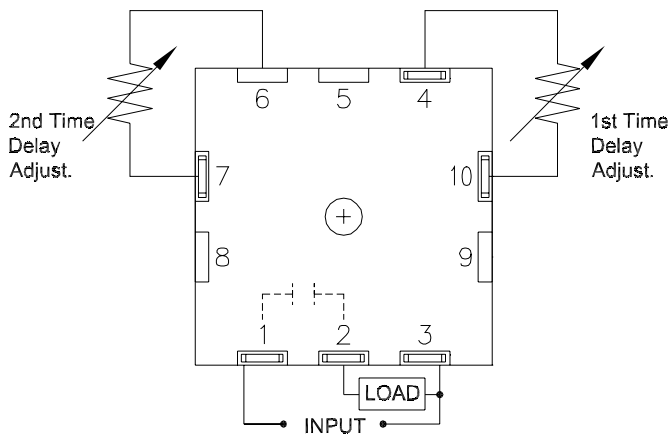
Upon application of power to the input terminals, the OFF delay begins. Upon completion of the OFF delay, the output contact transfers and the ON delay begins. Upon completion of the ON delay, the output contact reverts back to its original position and the cycle repeats. Reset is accomplished by removal of input power.



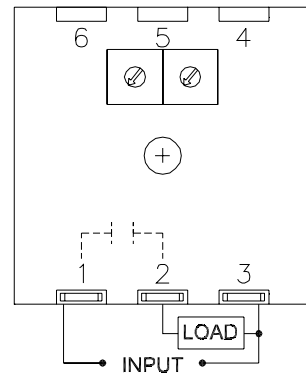


NOTE:

For maximum current rating the unit's metal backing must be installed against an aluminum surface of at least 1/16" thickness. A suitable thermal compound should be applied to the unit's metal surface prior to mounting. Refer to Application Note #AN1001 HEATSINKING HIGH CURRENT SOLID STATE CONTROLS



External Adjustments Shown



Local Adjustments Shown

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	OUTPUT RATING	ADJUSTMENT	CYCLE	1ST TIME RANGE	2ND TIME RANGE
HTRS	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	A - 6 Amp B - 10 Amp C - 15 Amp D - 2.5 Amp H - 25 Amp	0 - Both Delays Local Adj. 0A - 1st Delay Fixed 2nd Delay Local Adj. 0B - 1st Delay Local Adj. 2nd Delay Fixed 0C - 1st Delay Ext. Adj. 2nd Delay Local Adj. 0D - 1st Delay Local Adj. 2nd Delay Ext. Adj. 1 - Both Delays Factory Fixed 1A - 1st Delay Fixed 2nd Delay Ext. Adj. 1B - 1st Delay Ext. Adj. 2nd Delay Fixed. 2 - Both Delays Ext. Adj.	1 - On Time First 2 - Off Time First	See Time Delay Range Chart	