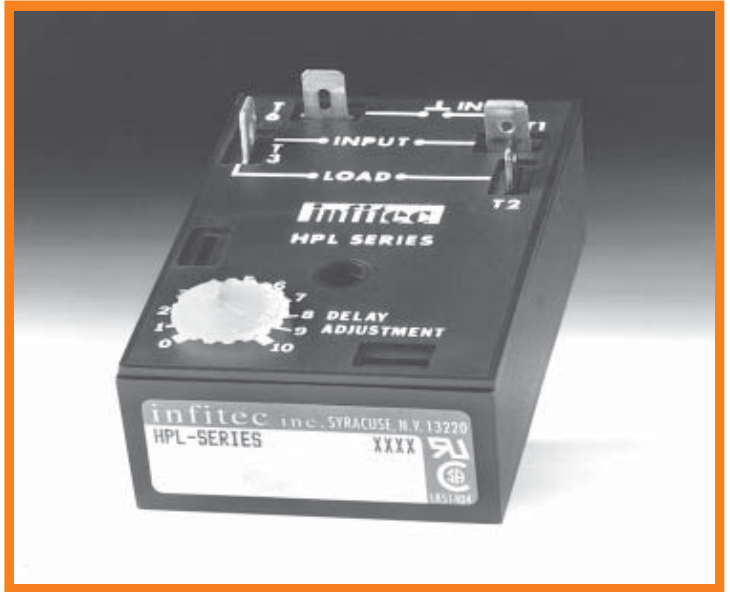




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DISCONTINUED SERIES DISCONTINUED SERIES DISCONTINUED

HPL SERIES ENCAPSULATED LOW PROFILE/HIGH POWER TIMING CONTROL



FEATURES

- C/MOS Digital Circuitry
- 6 Modes of Operation
- Time Delays To 1000 Minutes
- 0.5% Repeat Accuracy
- Wide Voltage Selection: 24-230VAC, 12-28VDC
- Small 2" x 3"x 1" Package
- Dust And Moisture Resistant Enclosure
- No Half Wave Failure
- No Heat Sinking Required
- 30 Amp Inductive Switching
- Controls Motors Up To 2 HP

SPECIFICATIONS

1. Time Delay.

- 1.1 Type: C/MOS digital circuitry
- 1.2 Range: From .05 seconds to 1000 minutes. Fixed delays available (see *time delay range chart*)
- 1.3 Repeat accuracy: $\pm 5\%$ under fixed conditions
- 1.4 Setting accuracy: $\pm 2\%$
- 1.5 Reset time: 100 milliseconds maximum
- 1.6 Recycle time: 150 milliseconds
- 1.7 Time delay vs. voltage and temperature: $\pm 2\%$

2. Input.

- 2.1 Operating voltage: 24, 120 & 230 VAC, 12 & 24/28 VDC
- 2.2 Tolerance: $\pm 20\%$ of nominal
- 2.3 Frequency: 50 - 60 Hertz

3. Output.

- 3.1 Type: High power electromechanical relay
- 3.2 Form: SPST N.O.
- 3.3 Rating: See contact rating table next page
- 3.4 Life: Mechanical - 10,000,000 operations
 Electrical - full load - 100,000 operations
 (See *contact rating table next page*)

4. Protection.

- 4.1 Transient: ± 1500 volts for 150 microseconds
- 4.2 Polarity: DC units reverse polarity protected
- 4.3 Dielectric breakdown: 1500 volts RMS minimum

5. Mechanical.

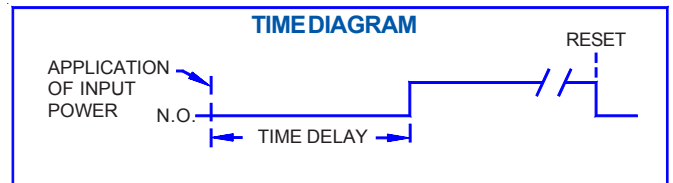
- 5.1 Mounting: One #8 or #10 screw
- 5.2 Termination: 1/4" quick connect terminals
- 5.3 Style: Surface mount encapsulated

6. Environmental.

- 6.1 Operating temperature: -30°C to $+80^{\circ}\text{C}$
- 6.2 Storage temperature: -40°C to $+85^{\circ}\text{C}$
- 6.3 Humidity: 95% relative non-condensing

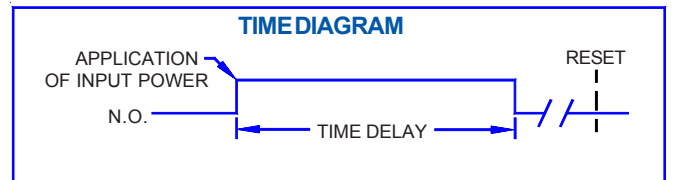
MODE OF OPERATION - SERIES DELAY ON MAKE - HMPL

Upon application of power to the input terminals, the time delay begins. At the completion of the pre-selected time delay, the output contact transfers. Reset is accomplished by removal of input power. There is no false output when reset during timing.



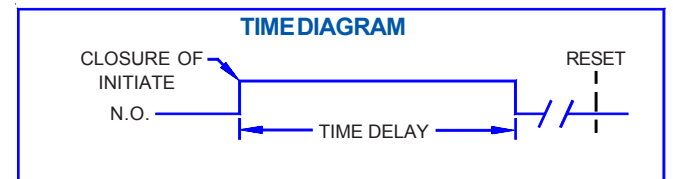
INTERVAL - HIPL

Upon application of power to the input terminals, the output contact immediately transfers and the time delay begins. At the completion of the pre-selected time delay, the output contact reverts to its original position. Reset is accomplished by removal of input power.



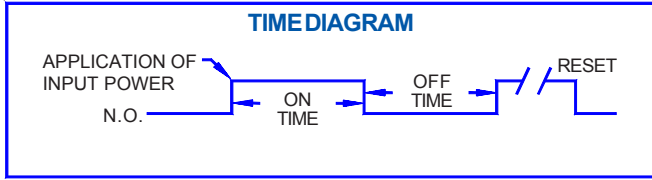
SINGLE SHOT - HSPL

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contact transfers and the time delay begins. At the completion of the pre-selected delay period, the output contact reverts to its original position. Removal of input power will reset the control.



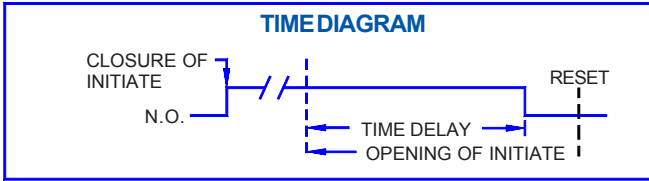
RECYCLE - HRPL

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. **Note: On and Off delays are equal**



DELAY ON BREAK - HBPL

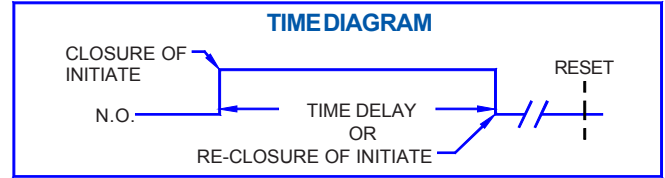
Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch, the output contact transfers and remains transferred if no further action is taken. When the initiate switch is opened, the time delay begins. At the completion of the pre-selected delay period the output contact reverts to its original position. Removal of input power will reset the control.



TOGGLE - HTPL

Power must be applied to the input at all times prior to and during timing. Upon closure of the initiate switch (momentary or maintained) the output contact transfers and the time delay begins. Upon re-closure of the initiate switch or at the completion of the pre-selected delay period, the output contact reverts to its original position.

**Can be ordered as toggle relay without time delay (See ordering information)

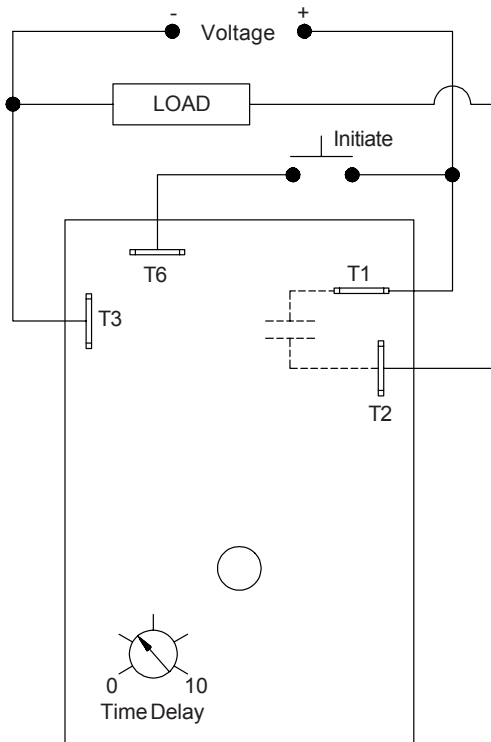


DISCONTINUED SERIES DISCONTINUED SERIES

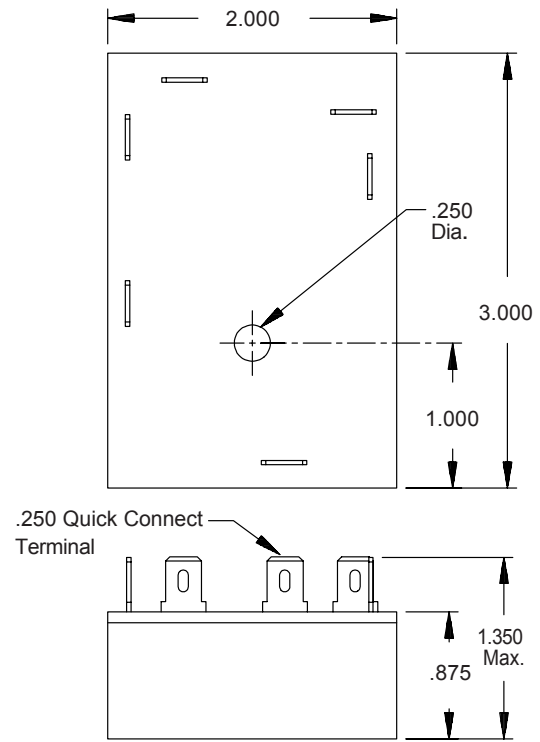
HPL CONTACT RATING

LOADTYPE	RATING
Inductive or Resistive @ 125 or 240VAC	30 AMPS
Inductive or Resistive @ 277VAC	12 AMPS
Inductive or Resistive @ 30VDC	20 AMPS
Motor Load @ 240VAC	2 HP
Motor Load @ 125VAC	1 HP
Ballast @ 125 or 277VAC	6 AMPS
Pilot Duty @ 125 or 240VAC	470 VA
LRA @ 240VAC	80 AMPS
FLA @ 240VAC	30 AMPS

CONNECTION DIAGRAM



DIMENSIONS



ORDERING INFORMATION

SERIES	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY RANGE
HBPL	1 - 12 VDC	0 - Knob	See Time Delay Range Chart On Page B8
HIPL	2 - 24/28 VDC	1 - Fixed	
HMPL	4 - 24 VAC	2 - External Adjust	
HRPL	5 - 120 VAC		
HSPL	6 - 230 VAC		
HTPL			

**Place an 'X' In Place Of Time Delay On HTPL For Toggle Relay Only