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FEATURES

- Microcontroller Based Circuitry
- Accumulates 1 to 255 Coins
- Encapsulated To Withstand Harsh Environment
- 0.5% Repeat Accuracy
- Contacts Rated Up To 20 amps, 2HP @ 240 VAC
- UL and cUL Recognized
- Last Coin Indication

SPECIFICATIONS

1. Time Delay.

- 1.1 Range: 2 Ranges available (*see ordering information*)
- 1.2 Adjustment: Knob Adjust 1-5 minutes
Dip Switch Adjust 1-1023 seconds
- 1.3 Repeat accuracy: $\pm 0.5\%$ under fixed conditions
- 1.4 Setting accuracy:
Knob $\pm 5\%$
Binary DIP Switch $\pm 1\%$
- 1.5 Recycle time: 1 second
- 1.6 Time delay vs. voltage and temperature: $\pm 2\%$

2. Input.

- 2.1 Operating voltage: 24, 120, 230 & 24/120 VAC
(*see ordering information*)
- 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. non-isolated
- 3.3 Rating: 20 amperes, 1HP @ 120 VAC, 2HP @ 240 VAC
- 3.4 Life: Electrical - full load - 100,000 operations
Mechanical - 1,000,000 operations

4. Last Coin Indicator Output.

- 4.1 Type: Solid State, Halfwave AC
- 4.2 Form: SPST N.O.
- 4.3 Rating: 100mA

5. Count Functions.

- 5.1 Switch Type: Mechanical or Electronic
(*counts on closure of switch, consult factory for proper connections to electronic switches*)
- 5.2 Minimum Switch Closure Time: 25 milliseconds
- 5.3 Minimum Switch Open Time (between closures):
20 milliseconds minimum
- 5.4 Count Range: 1 to 15 switch closures
- 5.5 Count Adjustment: 4 position Binary DIP switch
(*see mode of operation*)

6. Protection

- 6.1 Transient: Movistor protected to 10 joules
- 6.2 Dielectric breakdown: 1500 volts RMS minimum

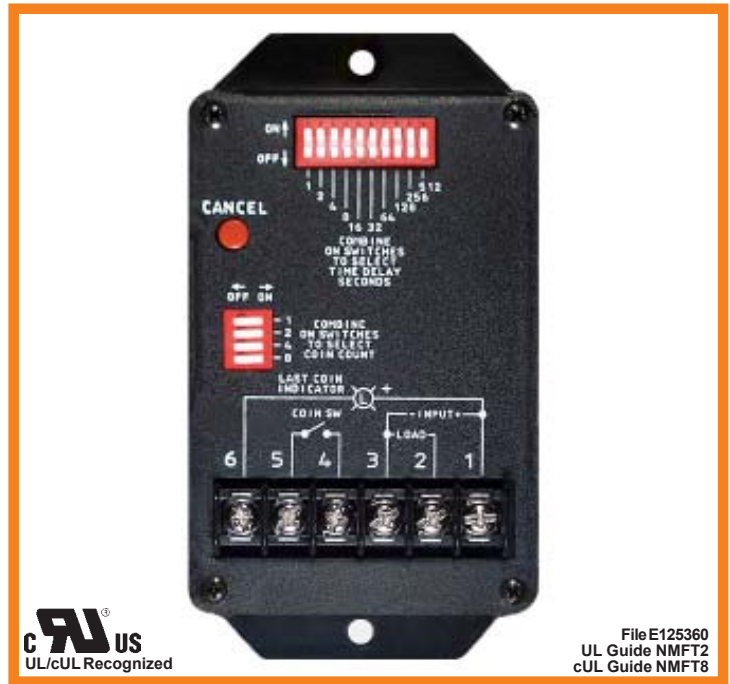
7. Mechanical.

- 7.1 Mounting: End mounting ears
#8 screw clearance (2 places)
- 7.2 Termination: (6) #6 screw terminals

8. Environmental.

- 8.1 Operating temperature: -20°C to $+80^{\circ}\text{C}$
- 8.2 Storage temperature: -30°C to $+85^{\circ}\text{C}$
- 8.3 Humidity: 95% relative non-condensing

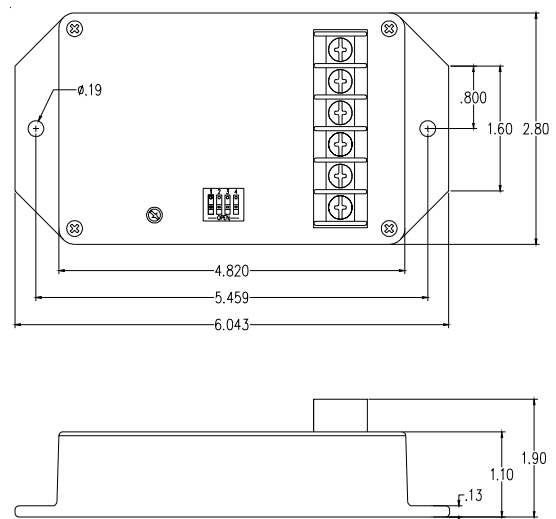
ATCR SERIES ENCAPSULATED ACCUMULATING TIMER



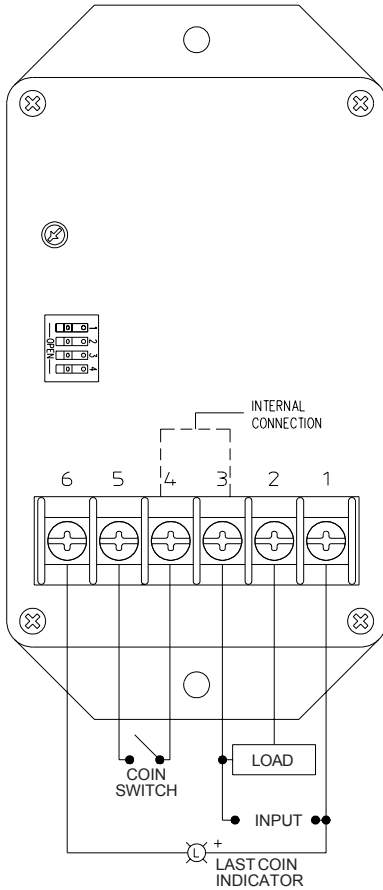
MODE OF OPERATION: ACCUMULATING VENDING TIMER

Power is applied to the unit at all times prior to and during timing. Coin switch closures are counted until their total equals the dip switch setting. At this point the output contact transfers and the time delay begins. For every coin switch closure counted, prior to or during timing, the unit adds the time set to the total vending time. When the remaining time is less than the set time, the last coin indicator output is energized. If additional coins are added, the last coin indicator output is de-energized until the remaining time is again less than the set time. Upon completion of the pre-selected time delay, the output contact reverts back to its original position and the control resets. Reset is also accomplished by removal of input power.

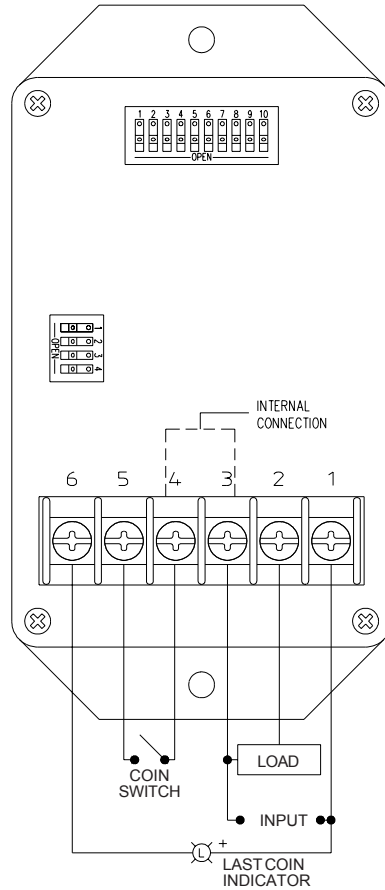
DIMENSIONS



CONNECTION DIAGRAM

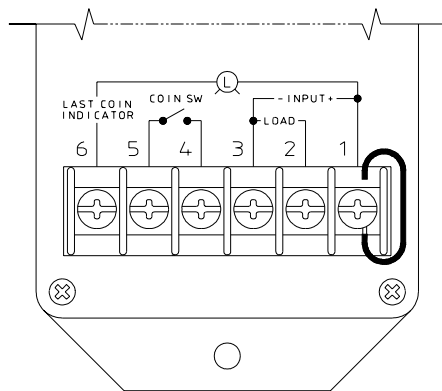


Knob Adjustment

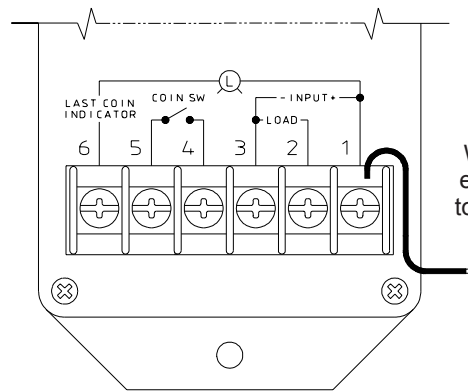


Binary Dip Switch Adjustment

INPUT VOLTAGE OPTION 8 - 24 / 120VAC CONNECTION DIAGRAM



Connect wire to
Terminal 1 for 24VAC
24VAC CONNECTION



Wire not used for 120VAC
120VAC CONNECTION

NOTE
When using 120VAC
ensure wire **does not**
touch any surrounding
metal or terminals

ORDERING INFORMATION

SERIES	INPUT VOLTAGE	ADJUSTMENT	CANCEL BUTTON
ATCR	4 - 24 VAC 5 - 120 VAC 6 - 230 VAC 8 - 24/120 VAC	0 - Knob (1 - 5 Minutes)	N/A
		4 - Binary Dip Switch (1 - 1023 Seconds)	C