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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)

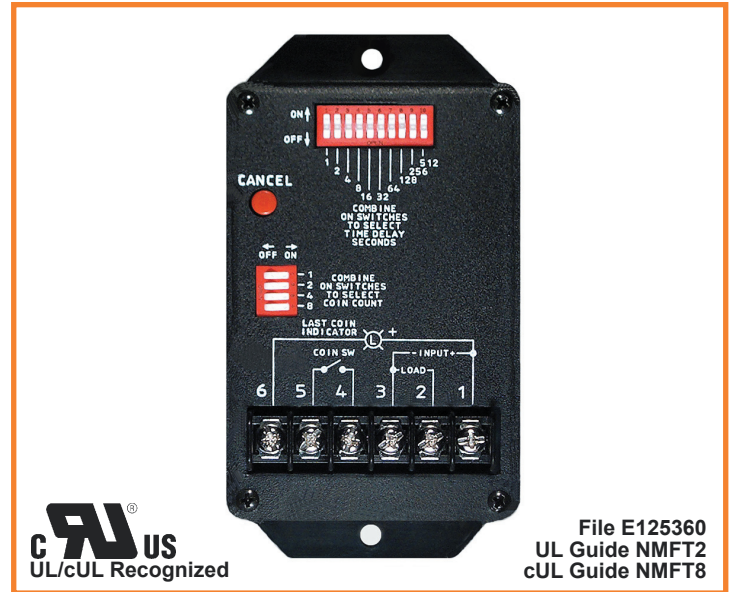
6. Protection

- 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

ATCR SERIES ENCAPSULATED ACCUMULATING TIMER



File E125360
 UL Guide NMFT2
 cUL Guide NMFT8

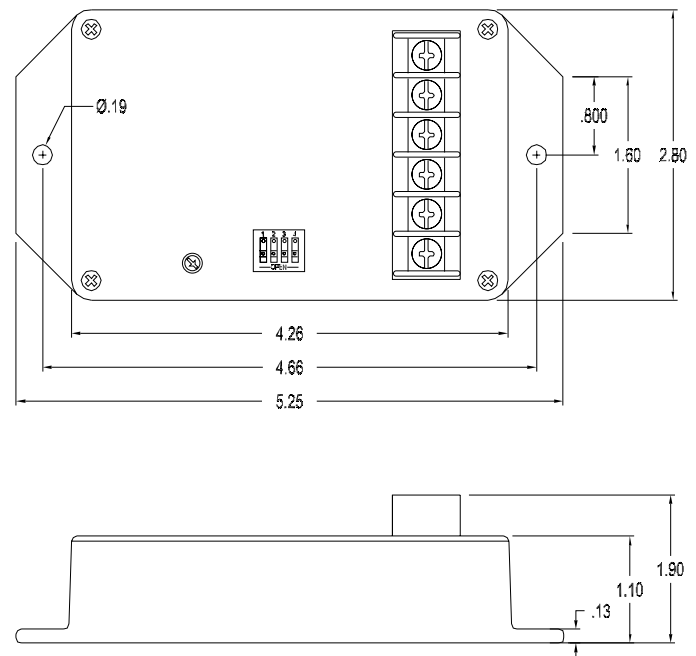
8. Environmental

- 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

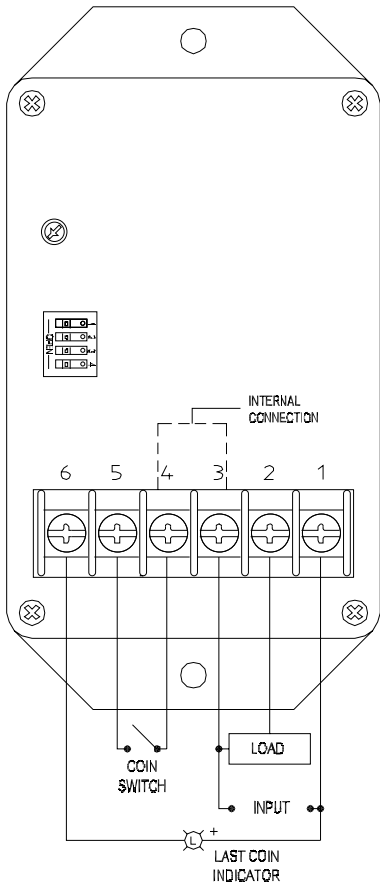
MODE OF OPERATION ACCUMULATING VENDING TIMER

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.

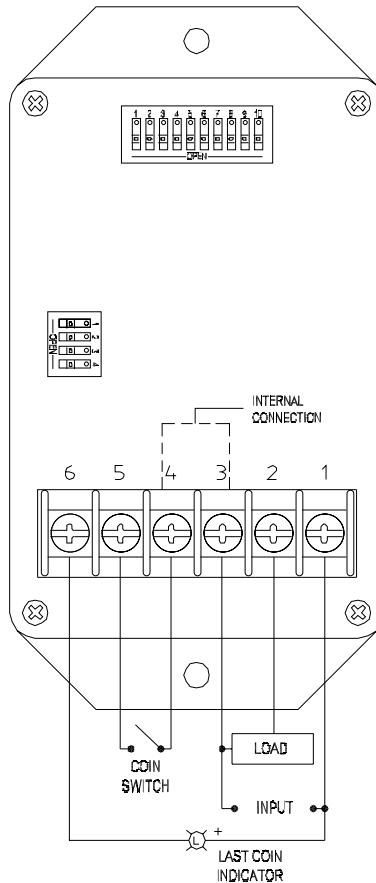
DIMENSIONS



CONNECTION DIAGRAMS

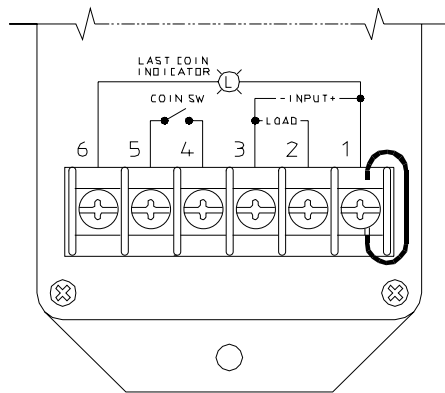


KNOB ADJUSTMENT

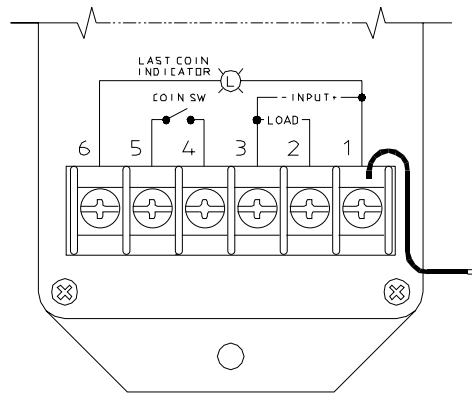


BINARY DIP SWITCH ADJUSTMENT

INPUT VOLTAGE OPTION 8 - 24/120VAC



24VAC CONNECTION
Connect wire to Terminal 1 for 24VAC



120VAC CONNECTION
Wire is not used for 120VAC

NOTE
When using on 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 to 5 Minutes)	N/A
		4 - Binary Dip Switch (1 to 1023 Seconds)	C