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#### **FEATURES**

- Microcontroller Circuitry
- Accumulates 1 to 255 Coins
- Multiple Time Delay Selection
- · Encapsulated to Withstand Harshest Environments
- 0.5% Repeat Accuracy
- Contacts Rated Up to 30 Amps, 2HP @ 240 VAC
- UL/cUL Recognized
- CE Marking

#### **SPECIFICATIONS**

#### 1. Time Delay

- 1.1 Type: Microcontroller Circuitry
- 1.2 Range: Adjustable 1 Second to 254 Minutes in 9 Ranges (See Ordering Information)
- 1.3 Adjustment: Via DIP Switch

(See Adjustment Information)

- 1.4 Repeat Accuracy: ±0.5% Under Fixed Conditions
- 1.5 Setting Accuracy: ±1%
- 1.6 Reset Time: 250 Milliseconds Maximum
- 1.7 Recycle Time: 100 Milliseconds During Timing 250 Milliseconds After Timing
- 1.8 Time Delay vs Voltage & Temperature: ±2%

2. Input

- 2.1 Operating Voltage: 24, 120, 240 VAC, 12, 24/28 VDC (See Ordering Information)
- 2.2 Tolerance: ±20% Of Nominal 2.3 Frequency: 50 60 Hertz

3. Output

- 3.1 Type: Electromechanical Relay
- 3.2 Form: SPST or SPDT (See Ordering Information)
- 3.3 Ratings: See Output Rating Chart

**Note:** Available with isolated or non-isolated contacts.

3.4 Life: Electrical - Full Load - 100,000 Operations Mechanical - 10,000,000 Operations

#### 4. Last Coin Indicator Output ('L' Mode Only)

4.1 Type: Solid State

4.2 Form: SPST, N.O.

4.3 Rating: AC: 500 mA RMS, Half-wave

DC: 500 mA DC

#### 5. Coin Count Functions

5.1 Switch Type: Mechanical or Electronic

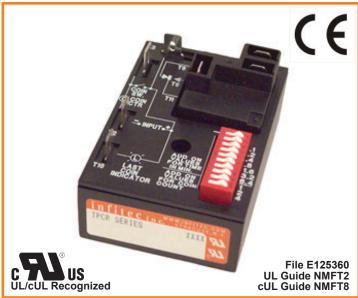
(Counts On Closure) Consult factory for proper connections to electronic switches

- 5.2 Minimum Switch Closure Time: 25 Milliseconds
- 5.3 Minimum Switch Open Time (Between Closures): 20 Milliseconds minimum
- 5.4 Count Range: 1 7 or 1 15 Closures
- 5.5 Count Adjustment: Via DIP Switch (See Adjustment Information)

#### 6. Protection

- 6.1 Electrical Fast Transient Immunity: IEC 61000-4-4
- 6.2 Surge Immunity: IEC 61000-4-5
- 6.3 Dips, Shorts, & Interruptions Immunity: IEC 61000-4-11
- 6.4 DC Units Are Reverse Polarity Protected
- 6.5 Dielectric Breakdown: 1500 Volts RMS Minimum

# TPCR SERIES COIN VENDING TIMER



#### 7. Mechanical

- 7.1 Mounting: One #8 or #10 Screw
  - 7.2 Termination: 1/4" Quick Connect Terminals
  - 7.3 Style: Surface Mount / Encapsulated

#### 8. Environmental

- 8.1 Operating Temperature: -20°C to +80°C
- 8.2 Storage Temperature: -30°C to +85°C
- 8.3 Humidity: 95% Relative, Non-Condensing

OUTPUT CONTACT RATING CHART							
	30 VDC	125 VAC	240 VAC				
HIGH POWER							
N.O.	20A	20A, 1hp	20A, 2hp				
N.C.	10A	10A, 1/4hp	10A, 1/2hp				
HEAVY DUTY							
N.O.	30A	30A, 1hp	30A, 2hp				

# **MODE OF OPERATION**STANDARD COIN TOTALIZER & VENDING TIMER

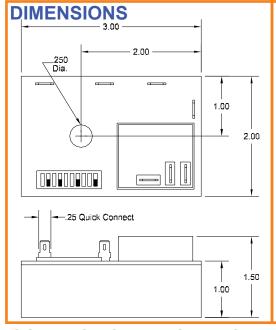
Power is applied to the unit at all times prior to and during timing. Coin switch closures are counted until their total equals the dip switch setting. At this point the output contact transfers and the time delay begins. Upon completion of the pre-selected time delay the output contact reverts to its original position and the control resets. Removal and re-application of input power will reset the control.

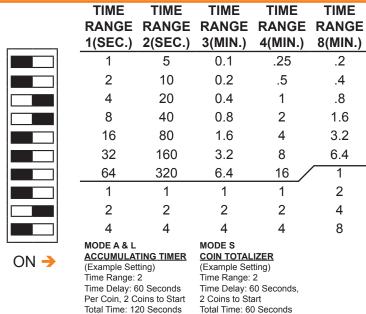
#### **ACCUMULATING VENDING TIMER**

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. Upon completion of the time delay, the output contact reverts to its original position and the control resets. Removal and re-application of input power will reset the control.

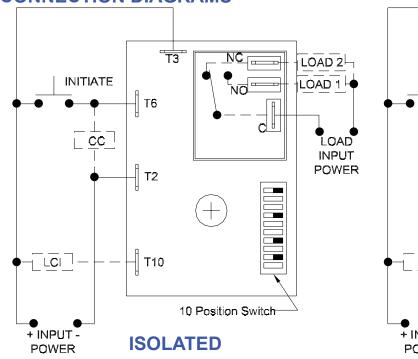
#### ACCUMULATING VENDING TIMER/ LAST COIN INDICATOR

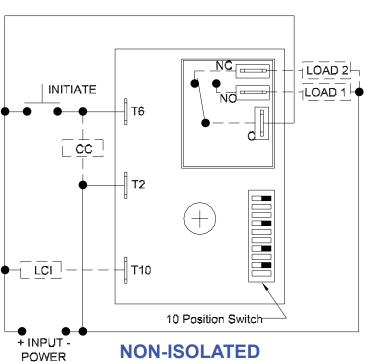
Same as ACCUMULATING VENDING TIMER except when the remaining time is less than the set time, the last coin indicator is activated. If additional coins are added the last coin indicator is deactivated until the remaining time is again less than the set time.





## **CONNECTION DIAGRAMS**





ADD 'ON' VALUES AS

**INDICATED** 

FOR TIME IN

SECONDS (OR MINUTES)

ADD 'ON'

VALUES FOR

COINT COUNT

### **OPTIONAL OUTPUTS / LOADS**

LOAD 2 - Auxiliary Load (Off During Timing)

CC - Coin Counter

LCI - Last Coin Indicator ('L' Mode Only - Must Be Same Voltage As Input Voltage)

ORDERING INFORMATION							
SERIES	INPUT VOLTAGE	RATING	TIME DELAY RANGE		MODE		
TPCR	1 - 12 VDC 2 - 24/28 VDC 4 - 24 VAC 5 - 120 VAC 6 - 230 VAC	B - High Power, SPDT, (Isolated) C - Heavy Duty, SPST, (Isolated) F - High Power, SPDT, (Non-Isolated) G - Heavy Duty, SPST, (Non-Isolated)	1 - 1 - 127 SECONDS 2 - 5 - 635 SECONDS 3 - 0.1 - 12.7 MINUTES 4 - 0.25 - 31.75 MINUTES 5 - 2 - 254 MINUTES 6 - 0.5 - 63.5 HOURS 7 - 0.1 - 12.7 SECONDS		S - Standard Coin Totalizer/Timer A - Accumulating Timer L - Accumulating Timer w/Last Coin Indicator Output		
			COIN COUNT	TIME DELAY RANGE			
			1-15	<b>8 -</b> 0.2 - 12.6 MINUTES <b>9 -</b> 2 - 126 SECONDS			