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## 『FEATURES

- Microcontroller Circuitry
- Accumulates 1 to 255 Coins
- Multiple Time Delay Selection
- Encapsulated To Withstand Harshest Environment
- 0.5\% Repeat Accuracy
o Contacts Rated Up To 30 amps 2hp @ 240VAC
- UL / cUL Recognized
o CE Marking


## SPECIFICATIONS

1. Time Delay.
1.1 Type: Microcontroller circuitry
1.2 Range: Adjustable 1 second to 254 minutes in 5 ranges (see ordering information)
1.3 Adjustment: 7 positions of 10 position DIP switch (see adjustment information)
1.4 Repeat accuracy: $\pm 0.5 \%$ under fixed conditions
1.5 Setting accuracy: $\pm 1 \%$
1.6 Reset time: 250 milliseconds maximum
1.7 Recycle time: 100 msecs. during timing

250 msecs. after timing
1.8 Time delay vs. voltage and temperature: $\pm 2 \%$
2. Input.
2.1 Operating voltage: 24,120 \& 230 VAC,

12, 24/28 VDC (see ordering information)
2.2 Tolerance: $\pm 20 \%$ 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 Rating: 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

| OUTPUT CONTACT RATING CHART |  |  |  |
| ---: | :---: | :---: | :---: |
|  | 30 VDC | 125 VAC | 240 VAC |
| HIGH POWER |  |  |  |
| N.O. | 20 A | $20 \mathrm{~A}, 1 \mathrm{hp}$ | $20 \mathrm{~A}, 2 \mathrm{hp}$ |
| N.C. | 10 A | $10 \mathrm{~A}, 1 / 4 \mathrm{hp}$ | $10 \mathrm{~A}, 1 / 2 \mathrm{hp}$ |
| HEAVY DUTY |  |  |  |
| N.O. | 30 A | $30 \mathrm{~A}, 1 \mathrm{hp}$ | $30 \mathrm{~A}, 2 \mathrm{hp}$ |

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 to 7 switch closures
5.5 Count Adjustment: 3 positions of 10 position DIP switch (see adjustment information)


## 6. Protection.

6.1 Electrical fast transient Immunity: IEC 61000-4-4
6.2 Surge Immunity: IEC61000-4-5
6.3 Dips,shorts and interuptions Immunimty:IEC61000-4-11
6.4 DC units are reverse polarity protected
6.5 Dielectric breakdown: 1500 volts RMS minimum

## 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: $-20^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
8.2 Storage temperature: $-30^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
8.3 Humidity: $95 \%$ relative, non-condensing

## 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 reapplication 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 controls 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.

