# Coin Vending Timer <br> HRV Accu-Vend <br> Vending Control 



Approvals: ©

## Accessories



See accessory pages for specifications.

## Description

The HRV combines the accuracy of microcontroller based circuitry with an electromechanical relay output. The HRV's switching capacity allows direct control of loads like compressors, pumps, motors, heaters, and lighting. The HRV "S" version provides a vend time after the selected number of initiate switch closures to start is reached. The HRV "A" version includes all of the "S" features and allows the total vend time to be extended for each additional initiate switch closure. The HRV is ideal for cost sensitive single coin or token vending machines. The electronic circuitry is encapsulated to protect against humidity and vibration.

## Operation

Coin Totalizer \& Vending Timer ("S" Version): Input voltage must be applied prior to \& during operation. When the total number of S1 initiate switch closures equals the number to start set on the lower 3 DIP switches, the load energizes and the vending time set on the upper 7 DIP switches begins. At the end of the vending time, the load de-energizes and the vending time is reset. Closing the initiate switch during vend timing will have no affect on vend time delay.

## Accumulating Vending Timer ("A" Version):

Input voltage must be applied prior to \& during operation. When the total number of S1 initiate switch closures equals the number to start set on the lower 3 DIP switches, the load energizes and the vending time starts. For every initiate switch closure, the HRV unit adds one time per coin period, as set on the upper 7 DIP switches, to the total vending time.
Operation Note: If S1 is closed when input voltage is applied, the output remains de-energized and the S1 counter remains at zero closures. At least one "vend time" and one "closures to start" DIP switch must be in the "ON" position for proper operation. Reset: Removing input voltage resets the vend time delay, the S1 closure counter, and de-energizes the output relay.

## Connection



Isolated Output


Non-Isolated Output

$$
V=\text { Voltage } \quad \text { S1 }=\text { Initiate Switch } L=\text { Load }
$$

UTL = Optional Untimed Load

## Function



## Ordering Table

| HRV | X | X | X |
| :---: | :---: | :---: | :---: |
| Series | Input | Vend Time | Mode of Operation |
|  | -1-12 V DC | -1-1... 127 s | -S - Coin Totalizer |
|  | -2-24VAC | -2-5... 635 s | Vending Timer |
|  | -3-24VDC | -3-0.1.. 12.7 m | -A - Accumulating |
|  | -4-120 V AC | -4-0.25 .. 31.75 m | Vending Timer |
|  | -6-230 V AC |  |  |

## X <br> Output Form \& Rating <br> C-30 A SPDT-N.O. <br> (Isolated) <br> -E - 30 A SPDT-N.O. <br> (Isolated) <br> -N - 30 A SPDT-N.O. <br> (Non-Isolated)

Example P/N: HRV43SC, HRV62AN

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## Technical Data


***For CE approved applications, voltage must be removed when a switch position is changed.

## Switch Adjustment



## Mechanical View



