

Coin Vending Timer HRV Accu-Vend Vending Control



10 YEAR WARRANTY

Obsolete Specification
Redesigned product is available
see new specifications at:
www.ssac.com/standard/standard.htm

- Accumulating Vending Timer
- Switching Capacity: 30 A, 1 hp
- Vending Time Range: 0.1 to 31.75 m
- Coin Switches: 10 (connected to a Counter)
- AC Contacts

Description

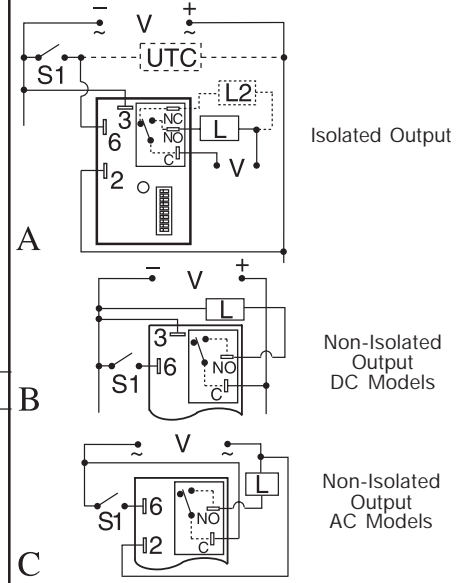
The HRV combines the accuracy of microcomputer based relay circuitry with an electromechanical relay output. The HRV's switching capacity allows direct control of loads like compressors, pumps, motors, heaters, and lighting. The HRV "S" version provides a vend time after the selected number of initiate 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.

Operation

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

Approvals:

Accumulating Vending Timer ("A" Version): Input voltage must be applied prior to & during operation. When the total number of initiate switch closures equals the number to start set on the lower 3 DIP switches, the load is energized & the vending time is started. 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.



Note: SPDT contact is available only on "C" models

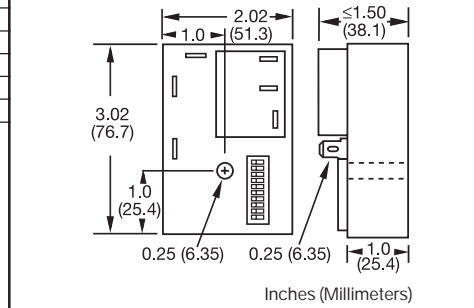
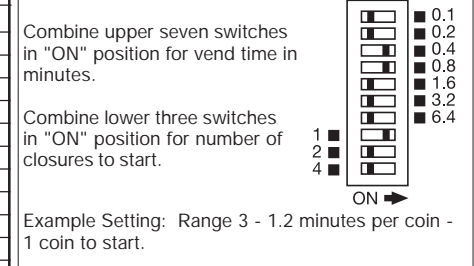
Ordering Table

HRV Series	X Input	X Vend Time	X Mode of Operation	X Output Form & Rating
-1	12 V DC	1 ... 127 s	-S - Coin Totalizer Vending Timer	-C - 20 A SPDT (Isolated)
-2	24 V AC	5 ... 635 s	-A - Accumulating Vending Timer	-E - 30 A SPST-N.O. (Isolated)
-3	24 V DC	0.1 ... 12.7 m		-N - 30 A SPST-N.O. (Non-Isolated)
-4	120 V AC			
-6	230 V AC			

Example P/N: **HRV43SC**

Technical Data

Count Functions/Switch Type		Mechanical (counts on switch closure)	
Minimum Switch Closure Time		≥ 25 ms	
Minimum Switch Open (between closures) Time		≥ 30 ms	
Count Range to start		1 ... 7 counts	
Maximum Counts ("A" Version)		250	
Time Delay/Range ***		Adjustable 1 s ... 31.75 m in 4 ranges	
Adjustment		7 of a 10 position DIP switch	
Setting Accuracy		+2%, -0% or 50 ms, whichever is greater	
Repeat Accuracy		+/-1% under fixed conditions	
Recycle Time		≤ 500 ms	
Time vs. Input Voltage & Temperature		+/-2%	
Input			
Voltage/Frequency		12 or 24 V DC; 24, 120, or 230 V AC/50 ... 60 Hz	
Tolerance		-15% ... +20%	
		-20% ... +10%	
Output/Type			
Form		Isolated SPST-N.O. or SPDT; Non-isolated SPST-N.O.	
Ratings:		UL SPST-N.O. UL SPDT-N.O. CSA SPST-N.O. CSA SPDT-N.O.	
General Purpose	125 V AC	30 A	15 A** 30 A 15 A
General Purpose	240 V AC	30 A	15 A** 10 A 10 A
Resistive	30 V DC	20 A	20 A 15 A 15 A
Motor Load	125 V AC	3/4 hp*	3/4 hp* 1/2 hp 1/2 hp
Motor Load	240 V AC	3/4 hp	3/4 hp 1 hp 1 hp
Definite Purpose	125 V AC	17 FLA, 96 LRA*	20 FLA, 60 LRA*
Definite Purpose	240 V AC	30 FLA, 80 LRA*	20 FLA, 60 LRA*
* SPDT - N.C. Ratings: 10 A at 28 V DC (Resistive) 10 FLA, 30 LRA at 125 V AC/240 V AC (Definite Purpose)			
** SPDT - N.C. Ratings: 10 A at 125 V AC/240 V AC (General Purpose)			
Life		Mechanical -- 1 x 10 ⁶ Electrical -- 1 x 10 ⁵ , *3 x 10 ⁴ , ** 25 x 10 ³	
Protection		Surge IEEE C62.41-1991 Level A	
Circuitry		Encapsulated	
Dielectric Breakdown		≥ 1500 V RMS between to mounting surface	
Insulation Resistance		≥100 MΩ	
Mechanical			
Mounting		Surface mount with one #10 (M5 x 0.8) screw	
Termination		0.25 in. (6.35 mm) male quick connect terminals	
Humidity		95% relative, non-condensing	
Operating/Storage Temperature		-20°C ... +70°C / -40°C ... +85°C	
Weight		≅ 3.9 oz (111 g)	



Accessories

Female quick connect

Quick connect to screw adaptor

P/N: P1015-64 (AWG 14/16)

P/N: P1015-18

Mounting bracket

P/N: P1023-6

DIN rail P/Ns: 17322005 (Steel) C103PM (Al)

DIN rail adaptor

P/N: P1023-20

See accessory pages at the end of this section.