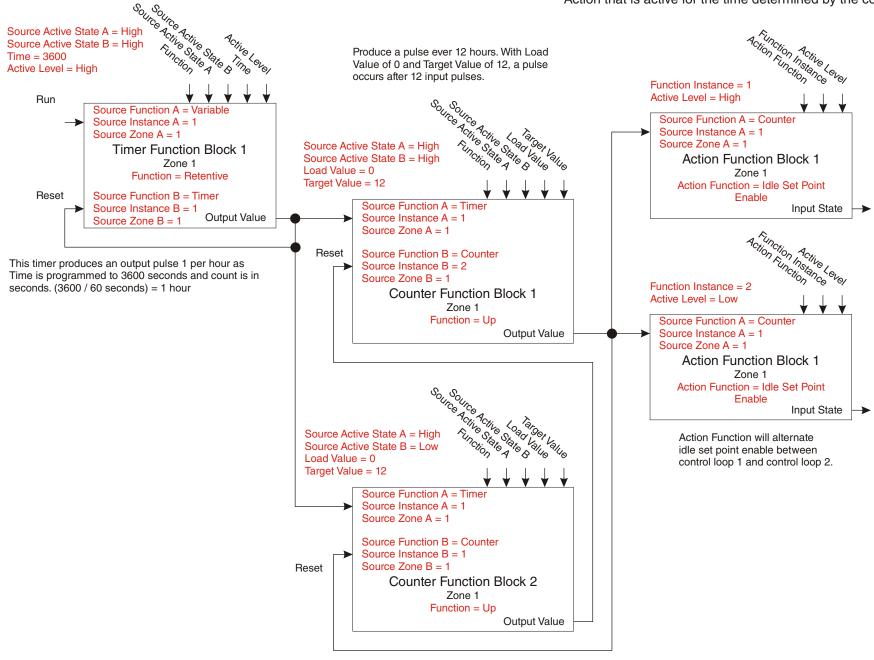
Typical timer application diagram

Example 46 - Using function blocks to switch an output or action on cyclic basis.

Real world example is where a customer wants to control an action in cyclic fashion such as 12 hours on, then 12 hours off and repeat.

Demonstrates use of Timer, Counter, and Action Function blocks.

Theory of operation - Timer 1 is free running timer when Run signal is active. Timer 1 produces pulse when Time in seconds is reached providing reset to self and pulse to Counter 1 and Counter 2. Counter 1 & 2 counts up for each timer pulse starting at Load Value and produces a pulse count when Target Value is reached. Counter 1 pulse will cause Action to occur and will reset Counter 2. Counter 2 will reset Counter 1. The result is an Action that is active for the time determined by the count process, then inactive for the time determined by the count process.



Counter 1 & Counter 2 produce a square wave of 12 hours on, 12 hours off.

