



Phillips / Sisson Industries Inc.

## Model 210A Conflict Monitor

- High speed CMOS microprocessor and support circuitry
- EPROM nonvolatile memory for error retention
- Synchronized onboard AC generator for line voltage comparison
- Out-of-Phase detection between cabinet power and signal heads
- Automatically resettable solid-state fuse
- Error display indicator LEDs

### Description

The Model 210A Conflict Monitor is designed around the 68HC11 microprocessor, implemented for its high reliability with internal Watchdog circuitry to keep itself in check.

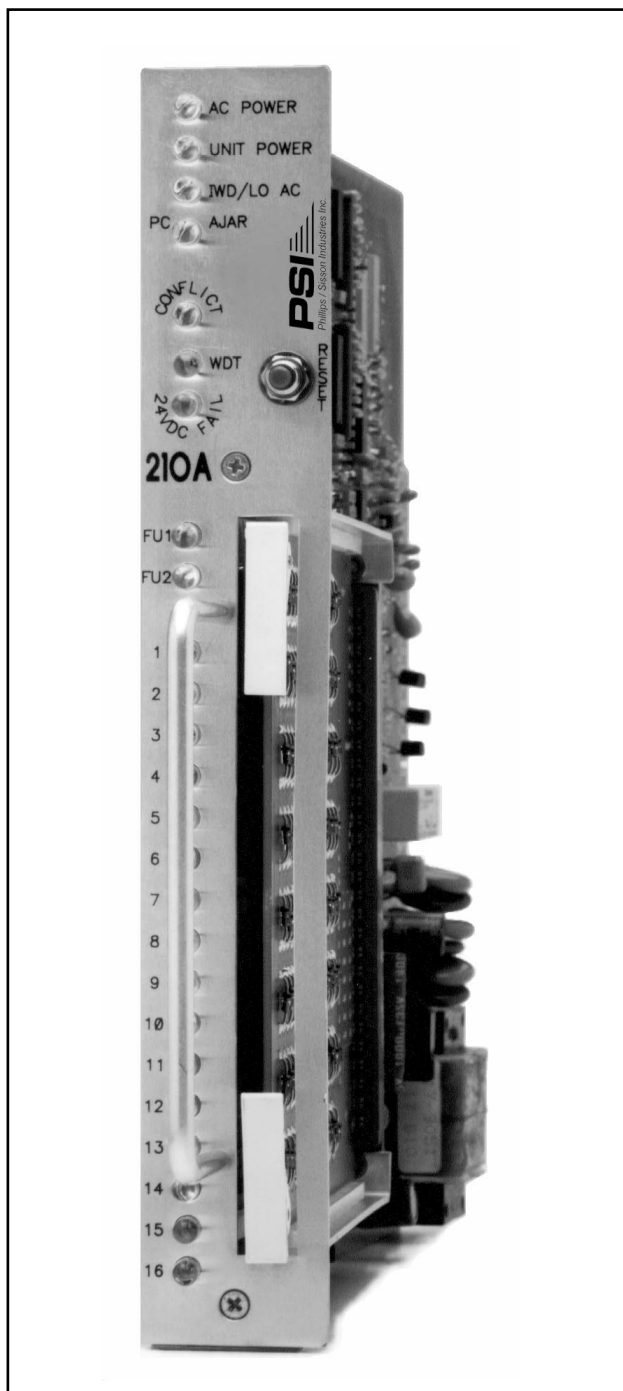
The Conflict Monitor is designed to monitor conflicting green, walk and yellow traffic indications, and place the intersection in a flashing condition in the event of a conflict. Conflicts are typically caused by malfunctioning signal equipment.

Visual indications are provided by light-emitting diodes, which remain on even though the conflicting inputs are removed.

In addition to monitoring conflicting signal indications, the Model 210A also monitors the cabinet 24 Vdc supply and the Controller Watchdog output. If the cabinet power supply drops below the preset threshold level of 18 Vdc, the monitor will place the intersection in a flashing condition and turn off the "Control Power" indicator.

The Watchdog Timer Circuit monitors the controller by requiring the controller to provide pulses at a rate of 1 per second. If pulses are not received or are spaced at intervals greater than 1 per second, the monitor will place the intersection in a flashing condition, and turn on the "Watchdog" indicator.

Safety features incorporated into the Model 210A Conflict Monitor will place the intersection in a flashing condition if the program card is removed, there is a loss of dc supply voltage, or the front panel fuse is blown.



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