



## **Product**

Intelligent Six Supervised Control Module

## **Architect and Engineering Specifications**

Intelligent six supervised control module shall be a System Sensor model number SC-6. Addressable control modules are intended for use in an intelligent fire alarm system and are intended for switching applications involving AC, DC, or audio, which require wiring supervision. Each module shall provide supervised monitoring of wiring to load devices that require an external power supply or amplifier to operate, such as horns, strobes, speakers or bells. Upon command from the control panel, the SC-6 will disconnect the supervision and connect the external power supply across the load device. A common signaling line circuit (SLC) input is used for all modules. Each module shall have terminals for connection to an external supply circuit for powering devices on its notification appliance circuit (NAC).

There shall be a short circuit protection for each module. This is provided to protect the external power supply against short circuit conditions on the NAC. When an alarm condition occurs, the relay which connects the external supply to the NAC shall not be allowed to close if a short circuit condition currently exists on the NAC. In addition, an algorithm shall be incorporated to find a short when the module is active. The device opens all circuits were a fault is detected, individually analyzes them for fault condition, and closes all circuits that are not shorted to identify the affected NAC.

Each module shall have its own address. A pair of rotary code switches shall be used to set the address of the first module from 01 to 94. The remaining modules shall be automatically assigned to the next five sequential addresses. Because of the possibility of installation error, systems that use binary jumpers or dipswitches to set the module address are not acceptable. Provisions are included for disabling a maximum of three unused modules to release the addresses to be used elsewhere. The modules shall also store an internal identifying code that the control panel shall use to identify the type of module. Systems that require a special programmer to set the module address (including temporary connection at the panel) are labor intensive and not acceptable. Each module responds to regular polls from the system and reports its type and status.

Each module address shall have an associated LED that is controlled by the panel to indicate module status. Coded signals, transmitted from the panel, can cause the LED to blink, latch on, or latch off. Refer to the control panel technical documentation for module LED status operation.

Audio/visual power shall be provided by a separate supervised power loop from the main fire alarm control panel or from a supervised, UL listed remote power supply. The module will use plug-in terminal blocks for easy wiring. Wiring terminals shall be easily accessible for troubleshooting while installed.

## **Meets Agency Standards**

- ANSI/ UL 864- Control Units and Accessories for Fire Alarm Systems
- ULC S527- Control Units for Fire Alarm Systems
- FM- NFPA 72- National Fire Alarm Code