

500 Series Multiple Input and Output Modules

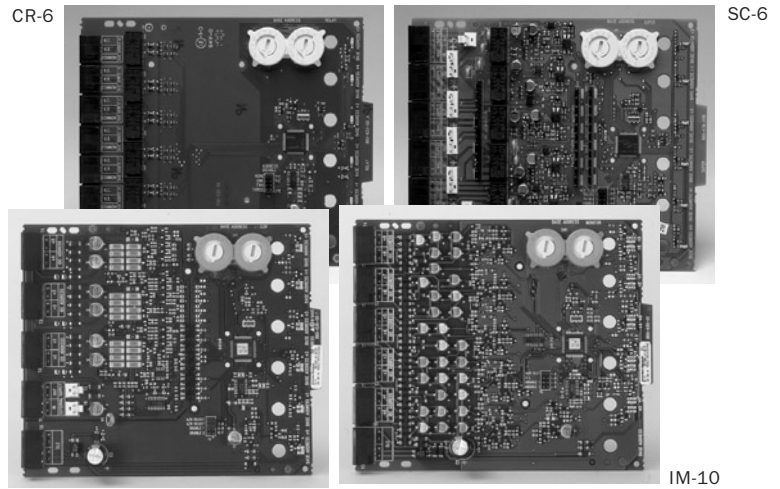


Model

CR-6	Six Relay Control Module
SC-6	Six Supervised Control Module
CZ-6	Six Conventional Zone Interface Module
IM-10	Ten Input Monitor Module

Accessories

SYNC-1	Accessory card used with the SC-6
BB-2	Module enclosure with built-in chassis; holds maximum of two modules
BB-6	Module enclosure, chassis sold separately; holds maximum of six modules
CH-6	Mounting chassis for BB-6 enclosure



Product Overview

Removable 12 to 18 AWG plug-in terminal blocks

Individual LED indicators

Unused addresses may be disabled

Rotary address switches

Class A or B operation

Mount up to two modules in BB-2 enclosure (optional)

Mount up to six modules in BB-6 enclosure with CH-6 chassis (optional)

Mounting hardware included

System Sensor's multiple input and output modules are designed to meet a range of applications in which numerous single modules are used. This design allows for installation ease and time savings. The monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors and more. The conventional zone interface module is ideal for retrofit applications to monitor zones of conventional two-wire detectors. Each module has its own address. Modules are addressed with easy-to-use rotary code switches. Provisions are included for disabling unused addresses. Up to two modules mount in a BB-2 enclosure with built-in chassis and up to six modules mount in a BB-6 enclosure with the CH-6 chassis. Wiring terminals are easily accessible for trouble-shooting purposes.

CR-6 SIX RELAY CONTROL MODULE

The CR-6 Six Relay Control module consists of six Form-C relays. The first address is set from 01 to 94, while the remaining modules are automatically assigned to the next five higher addresses. Provisions are included for disabling a maximum of three unused addresses. A single isolated set of dry relay contacts is provided for each module address which is capable of being wired for either a normally open or normally closed operation. The module allows the control panel to switch these contacts on command. No supervision is provided for the controlled circuit.

SC-6 SIX SUPERVISED CONTROL MODULE

The SC-6 Six Supervised Control module provides 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. The first module is addressed from 01 to 94, while the remaining modules are assigned to the next five higher addresses. Provisions are included for disabling a maximum of three unused modules. Each module has terminals for connection to an external supply circuit for powering devices on its notification appliance circuit. One or multiple power supplies or amplifiers may be used.

There is a short circuit protection monitor 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 will not be allowed to close if a short circuit condition currently exists on the NAC. In addition, an algorithm is incorporated to find a short when the module is active. The module will close all circuits that are not shorted to find the NAC with the problem.

SYNC-1 ACCESSORY CARD

The SYNC-1 is an optional accessory to the SC-6 and is designed to provide a means of synchronizing a series of horns, strobes, and horn/strobes. The SYNC-1 is able to synchronize the temporal-coded horns, the one second flash timing of the strobe, and silencing the horns of the horn/strobe

continued

Product Overview *continued*

combination over a two-wire circuit while leaving the strobes active. Each SYNC-1 accessory card has the capability of synchronizing six Class B circuits or three Class A circuits.

CZ-6 SIX ZONE INTERFACE MODULE

The CZ-6 Six Zone Interface module provides an interface between the intelligent alarm system and a two-wire conventional detection zone. A common SLC input is used for all modules, and the initiating device circuits share a common external supply. Otherwise, each module oper-

ates independently from the others. The first module is addressed from 01 to 94 while the remaining modules are assigned to the next five higher addresses. Provisions are included for disabling a maximum of two unused modules. All two-wire detectors being monitored must be two-wire compatibility listed with the modules. The CZ-6 transmits the status of a zone of two-wire detectors to the fire alarm control panel. Status conditions are reported as normal, open or alarm. The interface module supervises the zone of detectors and the connection of the external power supply.

General Specifications

Operating Voltage

15–32 VDC

Maximum SLC Wiring Resistance

40 Ohms

Temperature Range

32° to 120°F (0° to 49° C)

Relative Humidity

10% to 85% noncondensing

Wire Gauge

12–18 AWG

Dimensions

6.8"H x 5.8"W x 1.25"D

Specifications: CZ-6

Standby Current

2 mA maximum

Alarm Current

40 mA maximum (assumes all six LEDs solid on)

Maximum IDC Wiring Resistance

25 Ohms

External Supply Voltage

DC Voltage: 18–28 volts power limited

Ripple Voltage: 0.1 volts RMS maximum

Current: 90 mA per module

Compatible Detectors

Contact System Sensor for a current list

Specifications: IM-10

Standby Current

3.5 mA maximum

Alarm Current

60 mA maximum (assumes all ten LEDs solid on)

Maximum IDC Wiring Resistance

40 Ohms

Maximum IDC Voltage

12 VDC

Maximum IDC Current

1 mA

Specifications: CR-6

Standby Current

1.45 mA maximum

Alarm Current

32 mA maximum (assumes all six relays have been switched once and all six LEDs solid on)

Maximum IDC Wiring Resistance

40 Ohms

Relay Current

30 mA/Relay Pulse (15.6 mS pulse duration) pulse under panel control

Relay Contact Ratings

30 VDC; 70.7 VAC

IM-10 TEN INPUT MONITOR MODULE

The IM-10 Ten Input Monitor module provides an interface between a control panel and normally open contact devices such as pull stations, security contacts, or flow switches. The first address is set from 01 to 90 and the remaining modules are automatically assigned to the next nine higher addresses. Provisions are included for disabling a maximum of two unused addresses. The supervised state (normal, open or short) of the monitored device is sent back to the panel.

Specifications: SC-6

Standby Current

2.25 mA maximum

Alarm Current

35 mA maximum (assumes all six relays have been switched once and all six LEDs solid on)

Maximum NAC Circuit Wiring Resistance

40 Ohms

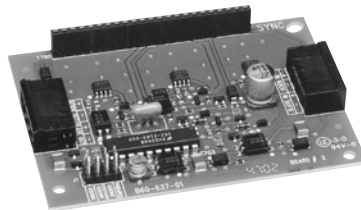
Power Rating Per Circuit

63W @ 70.7VAC

Relay Contact Ratings

30 VDC; 110 VAC

Accessories



SYNC-1 Accessory Card

Specifications: SYNC-1

Operating Voltage

11–30 VDC

Maximum Load on a Loop

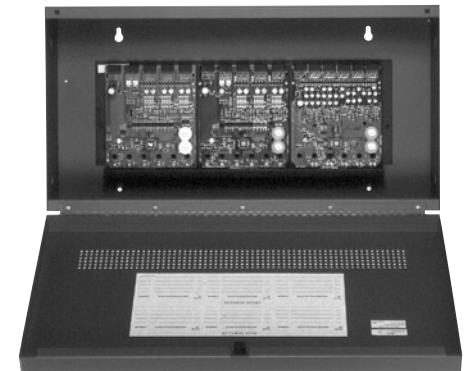
Class A/Style Z: 3A

Class A/Style Y: 3A per pair

Standby Current

(+0 Position): 15 mA

(+2 or +4 Position if connected to supply): 2.5 mA



BB-6 Enclosure with CH-6 Chassis

Specifications: BB-2 Enclosure

Dimensions

12"H x 9"W x 3.67"D

Specifications: BB-6 Enclosure

Dimensions

24"H x 12.55"W x 6.47"D

System Sensor Sales and Service

System Sensor Headquarters

3825 Ohio Avenue
St. Charles, IL 60174
Ph: 800/SENSOR2
Fx: 630/377-6495
Documents-on-Demand
800/736-7672 x3
www.systemsensor.com

System Sensor Canada

Ph: 905.812.0767
Fx: 905.812.0771

System Sensor Europe

Ph: 44.1403.276500
Fx: 44.1403.276501

System Sensor in China

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Ph: 65.6273.2230
Fx: 65.6273.2610

System Sensor – Far East

Ph: 85.22.191.9003
Fx: 85.22.736.6580

System Sensor – Australia

Ph: 613.54.281.142
Fx: 613.54.281.172

System Sensor – India

Ph: 91.124.637.1770 x.2700
Fx: 91.124.637.3118