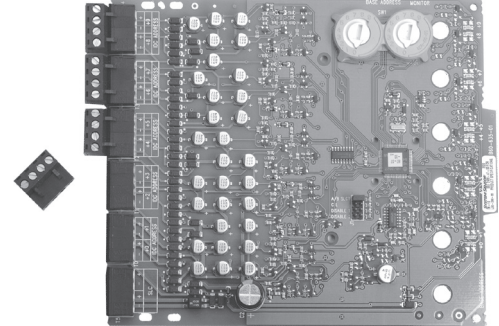


## ANALOGUE - Multiple Input and Output Modules

### Overview

#### Features

- CR-6 Six Relay Control Modules
- SC-6 Six Supervised Control Modules
- CZ-6 Six Conventional Zone Interface Modules
- IM-10 Ten Input Monitor Modules
- Individual LED indicators
- Unused addresses may be disabled
- Rotary address switches
- Class A or B operation
- Removable plug-in terminal blocks



### Description

The easy to install multiple input and output modules are designed for use in applications where numerous single modules are required. The monitor and control modules can be used to supervise and activate sounders, strobes, door closers, break glass call points, waterflow switches and other ancillary devices. For retrofit applications the conventional zone interface module is used to monitor existing zones of conventional two-wire detectors. Each module has its own address, set using rotary decade switches; unused addresses can be disabled.

#### CR-6 Six relay control module

The CR-6 consists of six Form C relays. The first address is set from 01 to 94; the other modules are automatically assigned the next five addresses; up to three unused addresses can be disabled. A single isolated set of dry relay contacts, which can be wired as normally open or normally closed, is provided for each address. The module enables the control panel to switch the contacts on demand. The controlled circuit is not supervised.

#### SC-6 Six supervised control module

The SC-6 provides supervised monitoring of wiring to load devices that require an external power supply to operate. 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 address is set from 01 to 94; the other modules are automatically assigned the next five addresses; up to three unused addresses can be disabled. Each module has termination for connection to an external power supply; one or multiple power sources can be used. The module provides the external power supply with protection

against a short circuit in the Notification Appliance. If the NA has a short circuit fault, the power supply will not be switched on alarm; if a short develops when the module is active, the module will close all circuits that are not shorted to identify the problem NA.

#### CZ-6 Six zone interface module

The CZ-6 provides an interface between the intelligent system and a two-wire conventional detector zone. A common SLC device is shared between all modules and the initiating devices share a common external supply; otherwise, each module operates independently. The first address is set from 01 to 94; the other modules are automatically assigned the next five addresses; up to two unused addresses can be disabled. The zone status: normal, open circuit or alarm/short circuit, is transmitted to the control panel; the interface module supervises the detector zone and the external power supply connection. An alarm condition is generated when a short circuit is present on any of the conventional detector zones.

#### IM-10 Ten input monitor module

The IM-10 provides an interface with normally open contact devices. The first address is set from 01 to 90; the other modules are automatically assigned the next nine addresses; up to four unused addresses can be disabled. The supervised state: normal, open circuit fault or short circuit alarm is sent back to the control panel.

## Architect/Engineer Specifications

Multiple Input and Output Modules

### Electrical Specifications

Operating Voltage Range	15 to 32VDC
Maximum Wiring Resistance	40 Ohms

### Environmental Specifications

Application Temperature Range	-0°C to +50°C
Humidity	10% to 90% relative Humidity (non-condensing)

### Mechanical Information

Size	173mm H x 147mm W x 32mm D
Min/Max Wire Gauge for Terminals	1.0mm <sup>2</sup> to 2.0mm <sup>2</sup>

### CZ - 6

Maximum Standby Current	2.04mA (Blinking LED once every 5 seconds)
Maximum Alarm Current	40mA at 32V assuming all six LEDs solid on
Maximum Loop Wiring Resistance	40 Ohms or Max supervising line wiring resistance 25 Ohms
Min/Max Wire Gauge for Terminals	1.0mm <sup>2</sup> to 2.0mm <sup>2</sup>
External Supply Voltage	DC Voltage: 18–28V power limited Ripple Voltage: 0.1V rms maximum. Current: 480mA at 24V (all six zones in alarm)

### CR - 6

Maximum Standby Current	1.49mA (Blinking LED once every 5 seconds)
Maximum Alarm Current	36mA at 32V assuming all six relays have switched once and all six LEDs solid on
Relay current	30mA/relay pulse 15.6ms duration, pulse under panel control
Relay Contact Ratings	3A at 30VDC Resistive Load
Min/Max Wire Gauge for Terminals	1.0mm <sup>2</sup> to 2.0mm <sup>2</sup>

### SC - 6

Maximum Standby Current	2.34mA (Blinking LED once every 5 seconds)
Maximum Alarm Current	36mA at 32V assuming all six relays have switched once and all six LEDs solid on
Maximum Supervising Line Resistance	1000 Ohms
Relay Contact Ratings	3A at 30VDC Resistive Load
Min/Max Wire Gauge for Terminals	1.0mm <sup>2</sup> to 2.0mm <sup>2</sup>

### IM - 10

Maximum Standby Current	3.50mA (Blinking LED once every 5 seconds)
Maximum Alarm Current	60mA at 32V assuming all ten LEDs solid on
Maximum Supervising Line Wiring Resistance	1000 Ohms
Maximum Line Voltage	11.3VDC
Maximum Line Current	240µA
Min/Max Wire Gauge for Terminals	1.0mm <sup>2</sup> to 2.0mm <sup>2</sup>

### Accessories

797-065	Surface mounting metal box. Holds one module
Dimensions	280 x 229 x 64mm

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Installation information: in order to ensure full functionality, refer to the installation instructions as supplied.