

Multiple Input and Output Modules



Features:

- 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



Description:

The 500 Series multiple input and output modules, for use with the FX2003 Addressable Transmitter, 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.



KFSC-6 Six Supervised Control Module

The KFSC-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 KFSC-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.



KFCZ-6 Six Zone Interface Modules

The KFCZ-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 operates 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 KFCZ-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.



BB-2S Enclosure

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KFCR-6 Relay Control Module

The KFCR-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.



BB-6S Enclosure with CH-6 chassis



KFIM-10 Ten Input Monitor Module

The KFIM-10 Ten Input Monitor Module is intended for use in an intelligent alarm system. Each monitor module is intended to interface between a control panel and normally open contact devices, such as pull stations. A common SLC input is used for all modules, and the initiating device loops share a common supervisory supply and ground. Otherwise, each monitor operates independently from the others. Each module has its own unique address.

A pair of rotary code switches is used to set the address of the first module from 01 to 90. The remaining modules are automatically assigned to the next nine higher addresses. Provisions are included for disabling a maximum of two unused modules to release the addresses to be used elsewhere. Each module also has panel controlled green LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

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Specifications:

General Specifications: 15-32 VDC **Operating Voltage:** Max. 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 6.8"H x 5.8"W x 1.25"D **Dimensions**: **KFCR-6** Specifications: 1.45 mA maximum **Standby Current:** Alarm Current: 32 mA maximum (assumes all six relays have been switched once and all six LEDs solid on) Max .IDC Wiring Resistance: 40 Ohms 30 mA/Relay Pulse (15.6 mS pulse duration) pulse under panel control **Relav Current: Relay Contact Ratings:** 30 VDC; 70.7 VAC **KFSC-6 Specifications: Standby Current:** 2.25 mA maximum 35 mA maximum (assumes all six relays have been switched once and Alarm Current: all six LEDs solid on) Max. NAC Wiring Resistance: 40 Ohms **Power Rating Per Circuit:** 63W @ 70.7VAC 30 VDC; 110 VAC **Relay Contact Ratings: KFCZ-6** Specifications: **Standby Current:** 2 mA maximum Alarm Current: 40 mA maximum (assumes all six LEDs solid on) Max. IDC Wiring Resistance: 25 Ohms **External Supply Voltage: DC Voltage:** 18-28 volts power limited Ripple Voltage: 0.1 volts RMS maximum **Current:** 90mA per module Compatible Detectors Contact King-Fisher Co. Inc. **KFIM-10 Specifications: Standby Current:** 3.5 mA maximum Alarm Current: 60 mA maximum (assumes all ten LEDs solid on) Max. IDC Wiring Resistance: 40 Ohms Maximum IDC Voltage: 12 VDC **Maximum IDC Current:** 1 mA **BB-2S Enclosure Specifications: Dimensions:** 12"H x 9"W x 3.67"D **BB-6S Enclosure Specifications: Dimensions:** 24"H x 12.55"W x 6.47"D

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| ORDERING INFORMATION | | |
|----------------------|---------|--|
| KCi # | Model # | Description |
| 52125 | KFIM-10 | Ten Input Monitor Module |
| 52126 | KFCZ-6 | Six Conventional Zone Interface Module |
| 52127 | KFCR-6 | Six Relay Control Module |
| 52128 | KFSC-6 | Six Supervised Control Module |
| 52150 | KFBB-2S | Module Enclosure with built-in chassis; holds maximum of two modules |

Mounting chassis for BB-6 enclosure

Specification Data Sheet

Module Enclosure, chassis sold separately; holds maximum of six modules

King-Fisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with King-Fisher Company, inc., standard terms and conditions

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KFCH-6S

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