

DCP-FRCMA/-I - FAST RESPONSE CONTACT MODULE



STANDARD FEATURES

- ٠ Single input contact monitor
- Fast, reliable contact monitoring utilizing the Hochiki DCP (Digital Communications Protocol)
- Two different mounting configurations
- 127 devices can be used per DCP loop
- Bi-colored indicating LED provides module status (Both Models)
- Yellow LED indicates a short circuit condition (FRCMA-I only)
- · Can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts in Class B
- Operates on Class A or Class B SLC loop
- Accepts up to 14 AWG wire
- UL 864 Listed



Specifications subject to change without notice.

Hochiki America Corporation

7051 Village Drive, Suite 100 Buena Park, CA 90621-2268 Phone: 714/522-2246 Fax: 714/522-2268 Technical Support: 800/845-6692 or technical support@hochiki.com

SPECIFICATIONS

Supply Voltage (S-SC)		25.3 ~ 39 VDC
Average Current Consumption		630μA (Typical)
		6.3mA (Alarm)
SCI On Resistance		
40m ohm Max. (Normal Condition)		
SCI Fault Detection Threshold		12 volts (Typical)
SCI Isolation Current		
(Short Circuit Condition)		10mA (Typical)
Maximum Quantity Per Loop		127
Dimensions	4.2"W x 4.7"H x 1.4"D	
Ambient Temperature	32°F (0°C) ~ 120°F (49°C)	
Mounting	4" square electrical box	
Relative Humidity	90% RH Non-condensing	

DESCRIPTION

The Hochiki FRCMA/-I Fast Response Contact Monitoring Modules are designed to be used with pull stations, water flow switches, and other applications requiring the monitoring of dry contact alarm initiating devices. The interrupt driven Digital Communications Protocol (DCP) combines maximum communication reliability and fast response to emergency conditions. Two different mounting configurations are provided to meet a wide range of applications. The FRCMA/-I contact monitoring module does not require a separate 24 VDC power source.

Each addressable contact monitoring module is programmed with its own unique Signaling Line Circuit (SLC) loop address. The device address is electrically programmable and stored on onboard EEPROM. Up to 127 devices can be placed on the Hochiki DCP SLC loop. The module supervises the wiring to the contact with an End Of Line (EOL) resistor in Class B mode. It can be programmed to monitor Normally Open (NO) or Normally Closed (NC) contacts. If a fault condition occurs in the wiring, the module sends a trouble status signal to the fire alarm control panel. When a change of status (contact changes state) is sensed by the FRCMA/-I, it sends an interrupt to the Fire Alarm Control Panel indicating that an alarm has occurred. FRCMA-I version has built-in integrated SCI circuitry. In the event of a short on the S-SC line, the SCI circuit will activate and its yellow LED indicator will be turned on steady and the module will report the short circuit condition to the Fire Control Panel.

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Find latest revision at www.hochiki.com

ISO

ENGINEERING SPECIFICATIONS

The contractor shall furnish and install where indicated on the plans, addressable contact monitoring modules Hochiki DCP-FRCMA/-I. The modules shall be UL listed and compatible with the Fire alarm control panel. The device address shall be electrically programmable and stored in EEPROM.

The FRCMA/-I shall be supplied with a plastic face plate and shall be suitable for mounting to a 4" square or double gang electrical back box. The FRCMA/-I shall provide a monitor LED that is visible through the face plate. FRCMA-I shall provide a SCI LED that is visible through the face plate.



Back side of FRCMA

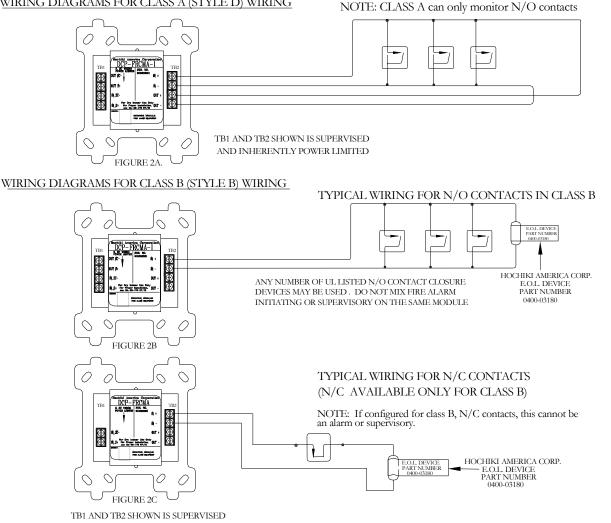
Back side of FRCMA-I

DCP-FRCMA-I

WIRING DIAGRAM

FRCMA/-I:

WIRING DIAGRAMS FOR CLASS A (STYLE D) WIRING



AND INHERENTLY POWER LIMITED Hochiki America Corporation DCP-FRCMA/A-I