

DCP-FRCMA/-I - FAST RESPONSE CONTACT MODULE



STANDARD FEATURES

- 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.

SPECIFICATIONS

Supply Voltage (S-SC)	25.3 ~ 39 VDC
Average Current Consumption	630 μ A (Typical) 6.3A (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.

Continued on back.

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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



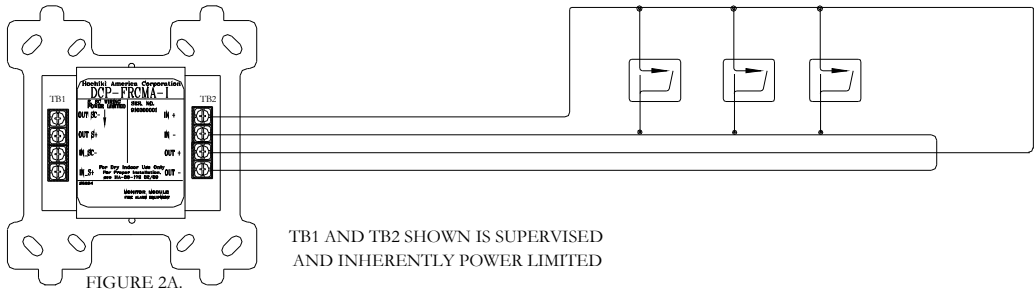
Back side of FRCMA-I

WIRING DIAGRAM

FRCMA/-I:

WIRING DIAGRAMS FOR CLASS A (STYLE D) WIRING

NOTE: CLASS A can only monitor N/O contacts

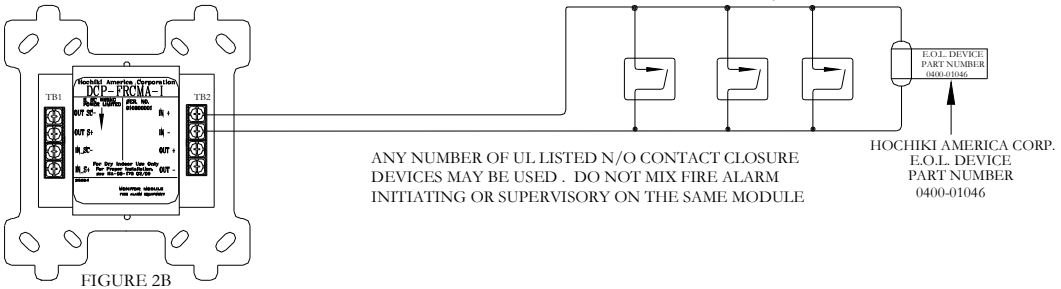


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FIGURE 2A.

WIRING DIAGRAMS FOR CLASS B (STYLE B) WIRING

TYPICAL WIRING FOR N/O CONTACTS IN CLASS B



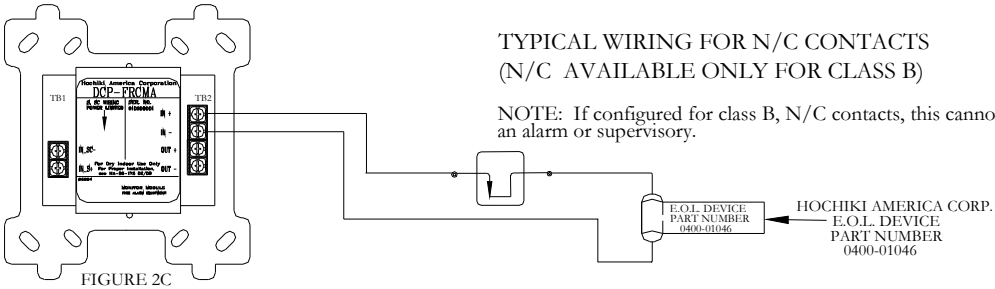
ANY NUMBER OF UL LISTED N/O CONTACT CLOSURE DEVICES MAY BE USED . DO NOT MIX FIRE ALARM INITIATING OR SUPERVISORY ON THE SAME MODULE

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FIGURE 2B

TYPICAL WIRING FOR N/C CONTACTS (N/C AVAILABLE ONLY FOR CLASS B)

NOTE: If configured for class B, N/C contacts, this cannot be an alarm or supervisory.



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FIGURE 2C