

## FRCME - FAST RESPONSE CONTACT MODULE



### STANDARD FEATURES

- 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 (FRCME-4 only)
- Single input contact monitor
- Can be programmed to monitor Normally Open (NO) or Normally closed (NC) contacts
- Operates on Class A or Class B SLC loop
- Accepts up to 14 AWG wire
- UL listed UL 864

### SPECIFICATIONS

Rated Voltage: DCP Powered Loop (17~41 VDC)

Average Current Consumption: 550  $\mu$ A (Typical)

Alarm Current: 30mA

Dimensions:

FRCME-4 4.2"W x 4.7"H x 1.4"D

FRCME-S 2.8"W x 1.8"H x 0.7"D

Ambient Temperature: 32°F (0°C) ~ 120°F (49°C)

Humidity: 90% RH, Non-Condensing

Mounting:

FRCME-4: Mounts to double gang/4" square back box

FRCME-S: Mounts inside a single gang back box

*Specifications subject to change without notice.*

### APPLICATION

The Hochiki FRCME 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 FRCME contact monitoring module does not require a separate 24 VDC power source.

The **FRCME-S** is a small package design and is suitable for mounting in a small junction box behind a pull station or other monitored device.

The **FRCME-4** is mounted to a cover plate for a 4" square or double gang junction box. It comes with a visible bi-colored indicating LED to provide module status.

### OPERATION

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 in 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. 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 is sensed by the FRCME, it sends an interrupt to the HAX-2000 control panel indicating that an alarm has occurred.

### PRODUCT LISTINGS

Underwriters Laboratories: S5694

Underwriters Laboratories of Canada: CS943

CSFM #: 7300 - 0410:150

MEA Report #: 284-91-E Vol. IV

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## ENGINEERING SPECIFICATIONS

The contractor shall furnish and install where indicated on the plans, addressable contact monitoring modules Hochiki FRCME-4 or FRCME-S. The modules shall be UL listed and compatible with the Hochiki HAX-2000 fire alarm control panel. The device address shall be electrically programmable and stored in EEPROM. A bi-colored LED shall indicate device status.

The FRCME-S shall fit inside a single gang electrical back box. The FRCME-4 shall be supplied with a plastic cover and shall be suitable for mounting to a 4" square or double gang electrical back box. The FRCME-4 shall provide a monitor LED that is visible from outside the cover plate.



FRCME-4



FRCME-S