Rate-of-rise/Fixed Temperature Heat Detectors

CR/CF Series

S2406

Overview

CR/CF Series heat detectors offer fixed temperature or combination rate-of-rise and fixed temperature detection.

RATE-OF-RISE: A temperature increase at the sensor of 15°F (9°C) or more per minute activates the rate-of-rise feature. This closes the contacts in the sensor to transmit the alarm condition to the fire alarm control panel. When the rate-of-rise element alone has been activated, the sensor is self-restoring.

FIXED TEMPERATURE: If the temperature of the center disk rises to the sensor's rated temperature, the fixed temperature element activates. This closes contacts in the sensor and transmits an alarm condition to the fire alarm control panel. The fixed temperature element is non-restorable and, when activated, the detector must be replaced. The need for replacement is indicated when the center disk has fallen free from the detector.

Standard Features

- Double pole — normally open contact
- Low profile
- Aluminum finish
- Mounting flexibility with screw terminals
- Positive alarm indication — for fixed temperature element
- 70 ft. spacing (CR models only)

Application

Heat detectors are most suitable for environments where rapid fire development can be expected. When selecting the location on the ceiling for the heat sensor, do not locate it in direct path of hot or cold air flow. Refer to the detector specifications for the recommended maximum spacing. Earlier detector response may be obtained by reducing the spacing between detectors.

DATA SHEET 85001-0367
Not to be used for installation purposes. Issue 2.1

Contact us...

Email: edwards.fire@fs.utc.com
Web: *www.est-fire.com*

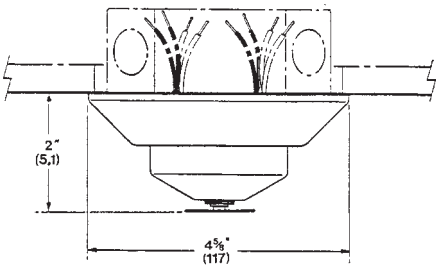
EST is an **EDWARDS** brand.

1016 Corporate Park Drive
Mebane, NC 27302

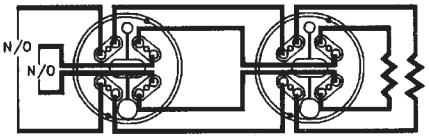
In Canada, contact Chubb Edwards...
Email: inquiries@chubbedwards.com
Web: *www.chubbedwards.com*

Mounting

CR/CF Series heat detectors are supplied with a metal mounting plate. The plate installs directly to a standard North American 3¼ or 4 inch octagon box. Once the mounting plate is fixed, a simple twist will hold the detector in place.



Wiring



DOUBLE CIRCUIT NORMALLY OPEN

Specifications

Catalog Number	CR135-2	CR200-2	CF135-2	CF200-2
UL Temperature Rating	135°F (57°C)	200°F (93°C)	135°F (57°C)	200°F (93°C)
UL Max Ambient Temp. at Ceiling	100°F (38°C)	150°F (66°C)	100°F (38°C)	150°F (66°C)
Detector Type	Fixed Temperature and Rate-of-Rise Rate-of-rise: 15° F (9° C), self restoring		Fixed Temperature Only	
UL Recommended Coverage*	4,900 ft.² (456 m²)		1,600 ft.² (149 m²)	
UL Recommended Spacing	70 ft. (21.3 m)		40 ft. (12.2 m)	
UL Maximum Distance from Wall	35 ft. (10.5 m) from any wall or projection extending down from the ceiling more than 12 inches (305 mm)		20 ft. (6 m) from any wall or projection extending down from the ceiling more than 12 inches (305 mm)	
Contacts – Rating	Single Pole Normally Open 3.0 amps at 125 Vac; 1.0 amp at 28 Vdc; 0.3 amps at 125 Vdc; 0.1 amps at 250 Vdc			
Operating Environment	Indoor – Dry			
Agency Listings	UL, ULC			

** Maximum detector coverage has been determined by UL to provide detection time equal to sprinkler devices spaced at 10 ft (3.05 m) intervals on a smooth ceiling 15 feet 9 inches (4.8 m) high. Higher ceilings may adversely affect detection time. Earlier detection may be obtained by reducing the spacing between sensors. (See NFPA 72, Chapter 5)*

WARNING – Use For Property Protection Only: Heat sensors do not protect life against fire and smoke. In most fires, hazardous levels of smoke, heat and toxic gases can build up before a heat detector would initiate an alarm. Independent studies indicate that heat detectors should only be used when property protection alone is involved. In cases where life safety is a factor, the use of smoke detectors is recommended.

Under no circumstances should heat detectors be relied upon as the sole measure to ensure fire safety. However, if they are spaced in accordance with the directions in the Specifications table, these sensors can contribute, within an overall fire safety program, to reducing the risk of avoidable property losses.

Ordering information

Catalog Number	Description	Ship Wt. lb. (kg)
CR135-2	Heat Detector, 135°F (57°C), Combination Rate-of Rise and Fixed Temperature	1.0 lb (0.5 kg)
CR200-2	Heat Detector, 200°F (93°C), Combination Rate-of Rise and Fixed Temperature	
CF135-2	Heat Detector, 135°F (57°C), Fixed Temperature Only	
CF200-2	Heat Detector, 200°F (93°C), Fixed Temperature Only	