THERMOFLEX® AUTOMATIC THERMOSTATS
FOR FIRE ALARM SYSTEMS

2003-09-30

CSFM Approved

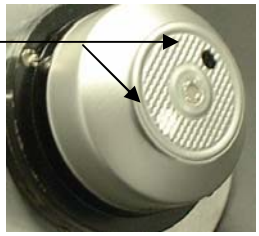
Spec. Sheet # 1 Standard Heat Detector Fire Detection Devices Ltd., is an all-Canadian company that manufactures a complete line of Fire Alarm Heat Detectors for the world market. The THERMOFLEX® product group includes standard detectors as well as detectors for hazardous locations and moisture proof applications. Each detector is available in single or multiple circuits with open and/or closed contact configurations. The prefix "CR" in the model number denotes rate-of-rise *and* fixed temperature operation. The prefix 'CF" denotes fixed temperature only. The standard fixed temperature settings are 135º and 200º F. Units set at 165º F, and 285º F, are also available. **The suffix "W" denotes the white finish (as shown here).**

The **Model CR 135** is a combination Rate-of-Rise and Fixed Temperature detector. A set of normally open contacts will close when the ceiling temperature increases at a (minimum) rate of 8.4 Celsius degrees (15 F. degrees) per minute. Closing the contacts initiates the fire alarm sequence. Independent of the rate-of-rise operation, the fixed temperature portion consists of a spring-loaded plunger retained by a fusible alloy that releases when the ceiling temperature reaches 57º C, (135º F). When released, the plunger strikes the contacts and holds them closed.
Spacing on an uninterrupted ceiling is 70' (22 m) for the rate-of-rise; 40' (12.5 m) for Fixed Temperature portion.

The **Model CF 135** is a Fixed Temperature Only detector. The fixed temperature portion consists of a spring-loaded plunger retained by a fusible alloy that releases when the ceiling temperature reaches 57º Celsius, (135 º F). When released, the plunger strikes a normally open set of contacts and holds them closed. Spacing on an uninterrupted ceiling is 40' (12.5 m). **The CF 135 is identified by a black dot on its heat collector fin**.

The **Model CR 200** is a combination Rate-of-Rise and Fixed Temperature detector that operates in the same way as the CR 135, with the exception that the fixed temperature portion releases when the ceiling temperature reaches 93º C., (200º F).. Spacing parameters for the rate-of-rise is 70' (22 meters). Fixed Temperature portion is 25' (7.62 meters). **The CR 200 is identified by a white dot on its heat collector fin.** For the **CR 200 W** (white detector) the white dot on the heat collector fin appears as a black circle. ◯

The **Model CF 200** is a Fixed Temperature Only detector. The fixed temperature portion releases when the ceiling temperature reaches 93º C., (200º F). Spacing is 25' (7.62 meters)..
The CF 200 is identified by a black dot and a white dot on the heat collector fin.

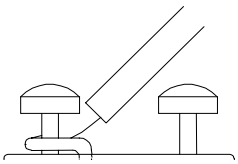


Normally Closed Contacts Any Detector in this Series is available in Normally Open or Normally Closed contacts. The Model Number does not reflect the Normally Open configuration, however the suffix "C" denotes Normally Closed, for example "CR 135 C" describes a rate-of-rise / fixed temperature detector, fusing at 135 ºF., with one set of Normally Closed contacts.

Engineering Specification: THERMOFLEX Model CR 135 automatic rate-of-rise heat detectors shall be installed in areas where ambient temperatures do not exceed 100 degrees F. In areas where ambient temperature is above 100º F., but will not exceed 150º F., specify CR 165 units. If ambient temperatures exceed 150º F., specify CR200 or CF285. In areas where sudden increases in ceiling temperature are normal, specify Fixed Temperature Only units, with fusible settings of 135º F.,165º F., 200º or 285º F. The rate-of-rise operation responds to temperature increases of 15 Fahrenheit degrees., (8.4 Celsius degrees.), per minute. THERMOFLEX detectors shall be installed in areas where environmental conditions including dust, vapours, insects, etc., would cause an ionization or photoelectric type detector to initiate a false alarm.

Contact Rating: 3A @ 125 VAC, 1A @ 28 VDC, 0.3A @ 125 VDC, 0.1 A @ 250 VDC

Dimensions: Diameter - 5.25" (13.4 cm) **Height** - 2.0" (4.85 cm) **Weight**: 0.41 lb. (330 grams).



All wiring must be installed in compliance with the local Electrical Code using approved cable, AWG 18 minimum. Begin electrical connections by stripping approximately 1" (2.5 cm.) from the end of each wire. Insert the stripped end into the wire-retaining hole in the terminal bar, wrap clockwise around the terminal screw, and tighten. Circuit wiring must be broken at each terminal to ensure proper supervision.

patented

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