



Spec. Sheet # 5 LED Indicating Heat Detector

The THERMOFLEX® series of LED Indicating detectors is based on the standard single circuit, normally open unit (see Spec. Sheet #1). The LED Series of detectors provide the customer with the ability to identify a unit that has, for whatever reason, operated on its rate-of-rise and has subsequently reset.

Momentary closure of the contacts (rate-of-rise operation), initiates the Fire Alarm sequence and latches on the red LED which remains lit until the system is reset. The detector can be installed on any system initiating circuit that supports a resistive device such as a smoke detector. Installation procedure is the same as the standard detector, but it features internal circuitry that makes the unit polarity *insensitive*.

In the standby mode, the LED pulses at app. 1pulse per 5 seconds..

The **Model CR 135 LED** pictured above, is by far the most popular unit in the THERMOFLEX® LED Series. It 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 and latches the red LED "on". 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 57° C., (135° 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 LED Series detector is available in any Standard Unit configuration (see Spec. Sheet # 1), with the exception of the Normally Closed (N/C) unit. The LED Series is **not** available as a Multiple Circuit unit (see Spec. Sheet # 3). LED Series units are available as Explosion Proof and Moisture Proof, and the LED suffix forms the last part of the Model Number.

For example: Model CR 200 MP LED is a combination rate-of-rise and fixed temperature detector with a fusible element that will release at 200 °F., containing a LED circuit, enclosed in a moisture proof housing.

Engineering Specification: THERMOFLEX® "LED Series" automatic rate-of-rise heat detectors shall be installed in areas where identification of detectors that have operated on their rate-of-rise function, is required. The CR 135 LED shall be specified in areas where ambient temperatures do not exceed 100 ° F. In areas where ambient temperature is above 100° F., but will not exceed 150° F., specify CR 165 LED units. If ambient temperatures exceed 150 ° F., specify CR200 LED. In areas where sudden increases in ceiling temperature are normal, specify Fixed Temperature Only units, with fusible settings of 135° F., 165° F., 200° F., or 285° 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.

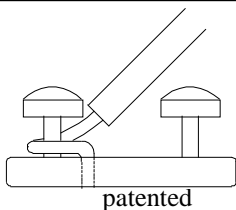
Contact Rating: 3A @ 125 VAC, A @ 28 VDC, 0.3A @ 125 VDC, 0.1 A @ 250 VDC

Operating Voltage: 16 to 27 VDC

Normal Current Consumption (not in alarm): 150 microamps.

Current Consumption (in alarm): 15 to 20 mA.

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. The LED unit is **NOT POLARITY SENSITIVE**. Wiring method is the same as for the standard detector.