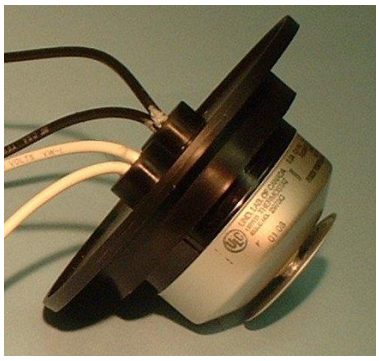
FIRE DETECTION DEVICES LTD.

THERMOFLEX® AUTOMATIC THERMOSTATS
FOR FIRE ALARM SYSTEMS

2005-03-11

CSFM Approved



Spec. Sheet #2 Modified Pigtail (MP) Detector The THERMOFLEX® product group includes standard detectors that have the additional feature of terminal protection from water and condensation. Each MP detector is available in single or multiple circuits with Normally Open and/or Normally Closed contact configurations, and any of the fixed temperature settings including 135°, 165°, 200° and 285° F.

Description: A standard detector is encapsulated in a black phenol-plastic seal plate with black and white pigtail connections.

Application: Unit is suitable for use in high humidity indoor environments and areas that are subject to potential corrosive elements, spray washing and below freezing temperatures. Detectors suitable for **Weather Proof** and **Hazardous Locations** requirements are available, please refer to technical spec. sheet #4.

Shown here is a Modified Pigtail Detector, typically Normally Open, one pair of white pigtails connected to one side of the contact, the black pair connected to the other side to provide "in-out" connections to a Fire Alarm initiating circuit. Two single blue wires (not shown) indicate a Normally Closed set of contacts.

The **Model CR 135 MP** 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., (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 operation.

The **Model CF 135 MP** 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 C., (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' (22.5 m).
The CF 135 is identified by a black dot on its heat collector fin.

The **Model CR 200 MP** 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., (200 degrees F). Spacing on an uninterrupted ceiling is 70' (22 meters) for the rate-of-rise, and ***25' (7.62 meters)*** for the fixed temperature portion (a reduced spacing parameter from the CF 135.)
The CR 200 is identified by a white dot on its heat collector fin.

The **Model CF 200 MP** 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.

Contact Configurations Any Detector in the MP Series is available in Normally Open (by far the most common) or Normally Closed, or Multiple Circuit configurations (see Spec. Sheet #3). The Model Number does not reflect the Normally Open configuration, however the letter "C" denotes Normally Closed.
For example: "CR 135 C MP" describes a rate-of-rise / fixed temperature detector, fusing at 135 º. F., with Normally Closed contacts, assembled with the modified pigtail and seal plate assembly.

Engineering Specification: THERMOFLEX® MP-type detectors shall be installed in areas where corrosive elements exist or washing of walls and ceiling surfaces is commonplace. The fixed temperature portion and the rate-of-rise operation shall be determined by the ambient temperature. THERMOFLEX® MP-type 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 @ 25 VDC * 0.3A @ 125 VDC
0.1A @ 250 VDC

Dimensions
Diameter: 4.375" (11.11 cm)
Height: 2.0" (4.85 cm)

Weight:
0.41 lb. (330 gm)

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