

Fire Detection Devices

CR/CF-MP Series

Moisture Proof Heat Detectors



Description

The CR and CF-MP Series Moisture Proof Detectors are designed for hazardous locations and Moisture Proof applications. Each Moisture Proof detector is available in single or multiple circuits with open and/or closed contact configurations, and any of the fixed temperature settings including 135, 165, 200 and 285 degrees Fahrenheit.

The Moisture Proof detector is characterized by a black phenol-plastic seal plate and black and white pigtail connections. It is specified for use in high humidity environments and areas that are subject to corrosive elements or spray washing. The suffix "MP" denotes "Moisture Proof".

CR-135MP

The Model CR-135MP 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°C (15°F) 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 135°F (57°C). When released, the plunger strikes the contacts and holds them closed. Spacing on an uninterrupted ceiling is 70 ft. (21.3m) for the rate-of-rise; 40 ft. (12.2m) for the fixed temperature portion.

Features

- Dual Action Rate of Rise & Fixed Temperature
- Detects Rate of Ambient temperature rise of 8°C (15°F)
- Detectors operating on fixed temperatures are only available in two settings of 135°F (57°C) or 200°F (93°C)
- Clear-anodized aluminium finish

CF-135MP

The Model CF-135MP 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 135°F (57°C). When released, the plunger strikes a normally open set of contacts and holds them closed. Spacing on an uninterrupted ceiling is 40 ft. (21.3m). The CF-135MP is identified by a black dot on its heat collector fin.

CR-200MP

The Model CR-200MP is a combination Rate-of-Rise and Fixed Temperature detector that operates in the same way as the CR-135MP, with the exception that the fixed temperature portion releases when the ceiling temperature reaches 200°F (93°C). Spacing on an uninterrupted ceiling is 70 ft. (21.3) for the rate-of-rise, and 25 ft.(7.6m) for the fixed temperature portion (a reduced spacing parameter from the CF-135MP). The CR-200MP is identified by a white dot on its heat collector fin.

CF-200MP

The Model CF-200MP is a Fixed Temperature Only detector. The fixed temperature portion releases when the ceiling temperature reaches 200°F (93°C). Spacing is 25 ft., (7.6m). The CF-200MP is identified by a black dot and a white dot on the heat collector fin.



Contact Configurations

Any Detector in the Moisture Proof Series is available in Normally Open (by far the most common) or Normally Closed, or Multiple Circuit configurations. 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°F., with Normally Closed contacts, assembled with the moisture proof seal plate.

Engineering Specifications

The CR & CF Series Moisture Proof 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. The Moisture Proof 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.

Specifications

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

Dimensions	
Diameter	5.25" (13.4 cm)
Height	2.0" (4.85 cm)
Weight	
0.41 lb. (330 gm)	

Ordering Information

Model	Description
CR-135MP	Rate of Rise & Fixed Temperature to 135°F (57°C) Moisture Proof Heat Detector
CR-200MP	Rate of Rise & Fixed Temperature to 200°F (93°C) Moisture Proof Heat Detector
CF-135MP	Fixed Temperature 135°F (57°C) Moisture Proof Heat Detector
CF-200MP	Fixed Temperature 200°F (93°C) Moisture Proof Heat Detector

