FIRE DETECTION DEVICES LTD.

Durable . Reliable . Trusted . Canadian

## Model CR 135-2C MP, CR 165-2C MP and CR 200-2C MP

**Description: Heat Detector,** Moisture-proof **, Combination Rate-of-Rise and Fixed Temperature, 135°F, 165°F and 200°F respectively. Detector has 2 sets contacts; Both Normally Closed (N/C).**

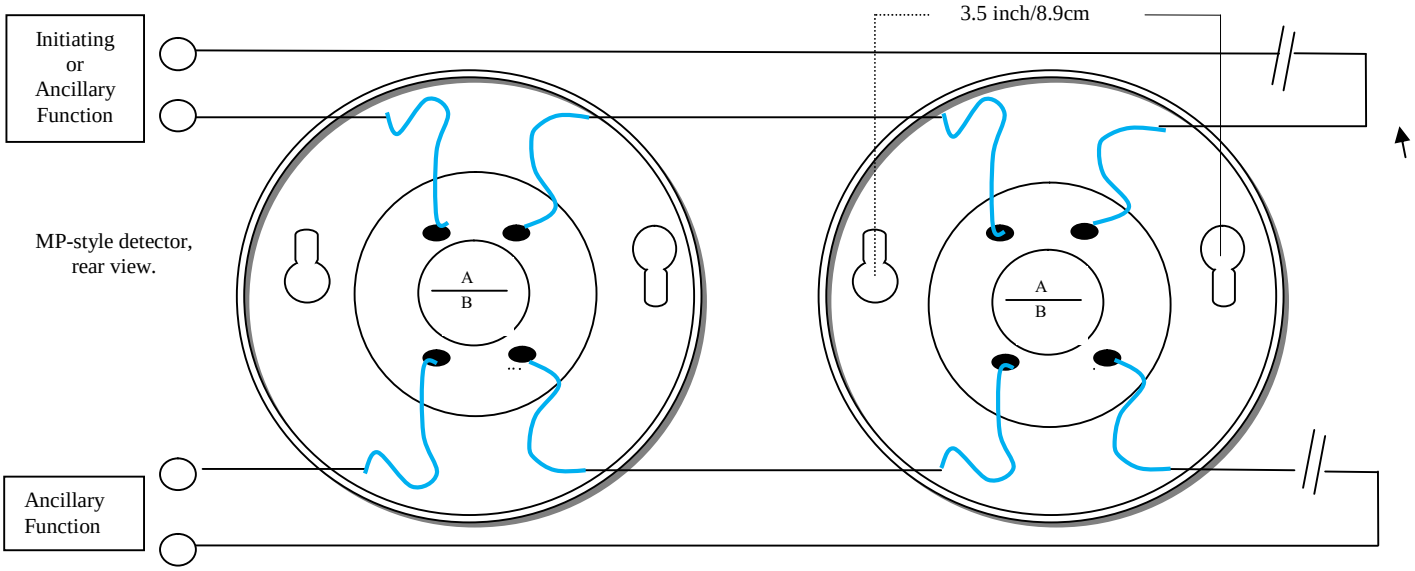
These detectors are *combination* Rate-of-Rise and Fixed Temperature,(sometimes referred to as "Dual Action"), incorporating wire leads that are connected to the two (2) internal sets of contacts, and a seal plate to prevent moisture from damaging the unit. Both N/C sets of contacts will operate when the ceiling temperature **increases** at a (minimum) **rate** of 8.4 Celsius degrees (15 F°) per minute. Both N/C contacts will open, one set may be used to initiate an alarm, the other set will also open which can operate an ancillary function. If the detector operates on its Rate-of-Rise only, the detector will reset as it cools.

The fixed temperature portion consists of a non-restorable, spring-loaded plunger retained by a fusible alloy that releases when the ceiling temperature reaches 57° C, (135° F) or 71°C (165°F) or 93°C (200°F). When released, the plunger strikes the contacts and permanently holds the two sets of contacts in the open position.

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

| Model # | Release Temp. F | Release Temp. C | Color dot on fin | Spacing between detectors* |
|---|---|---|---|---|
| CR 135-2C MP | 135 | 57 | None | 70ft/12m |
| CR 165-2C MP | 165 | 71 | Grey | 70ft/12m |
| CR 200 -2C MP | 200 | 93 | White | 70ft/12m |

* assuming a flat, uninterrupted ceiling not exceeding 10ft/3m in height.




Notes to the Installer

1. This detector incorporates two (2) sets of wire leads labeled Circuit A and Circuit B. Both sets of contacts are Normally Closed (N/C).
2. Circuit A may connect onto the Fire Alarm initiating circuit, although most fire alarm initiating circuits are Normally Open, looking for a closure. One blue wire is connected to one side of the closed contacts, the other blue wire is connected to the other side. With the detector in the normal state, a reading of 0Ω will be taken across the 2 blue leads for each circuit.
3. The rate-of-rise function may be tested by heating the unit with a controlled heat source such as a hair dryer held at a distance of 20 to 30 cm. for a period of 10 to 20 seconds. When the detector operates, either on its rate-of-rise (which will restore when the detector cools), or if the detector operates because the fusible link has released (this means that the detector cannot be restored), then the detector will go into the alarm mode opening both circuits, A and B.
4. Open flame devices should not be used to test the detector as the fusible link might operate causing permanent contact closure.

Fire Detection Devices Ltd.; 90 Nolan Court, Unit 34; Markham, ON, Canada; L4A 1E3; 1-800-267-3473;
www.firedetectiondevices.com