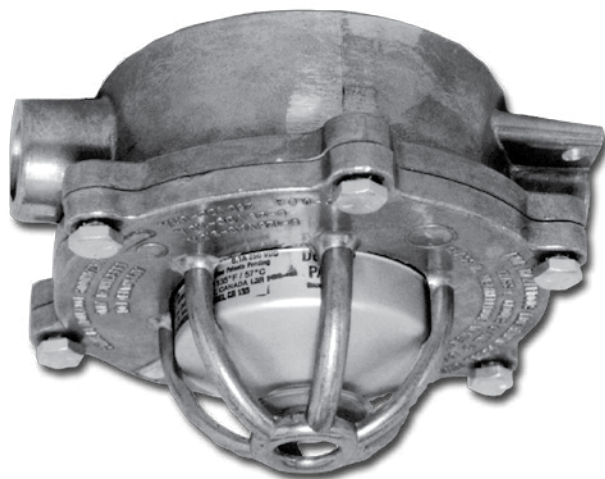


Fire Detection Devices CR/CF-EWT Series Explosion-Proof Heat Detectors



Description

The CR/CF-EWT series of fire alarm Heat Detectors provide reliable fire detection in areas which are classified as hazardous. They are ULC listed for hazardous location Class I, Groups C and D; Class II, Groups E, F and G; Class III Weatherproof, Watertight and Dust-tight applications covered by Special Purpose Enclosures III, IV and V.

All heat detectors in the CR/CF-EWT series are single pole with normally open contacts. The body with its explosion proof cover is made from cast aluminium and houses a thermostat with colour-coded wire leads and sealed terminals. The finish is natural aluminium. Threaded outlets for 1/2" rigid conduit connections are provided.

Two combination rate-of-rise and fixed temperature models are available.

Model CR-135-EWT is rated for 135°F (57°C).

Model CR-200-EWT is rated for 200°F (93°C).

Maximum spacing for both models is 50 feet (15.2m).

Two fixed temperature only models are available.

Model CF-135-EWT is rated for 135°F (57°C).

Model CF-200-EWT is rated for 200°F (93°C).

Maximum spacing for these models is 30 feet (9.1m).

Standard Features

- Class I Groups C & D
- Class II Groups E, F & G
- Class III
- Weatherproof, Water-Tight & Dust-Tight
- Special Purpose Enclosure - III, IV, V
- Wire Leads/Sealed Connection
- Rate-Of-Rise and/or Fixed Temperature
- Single Pole - Normally Open Contact
- Low Profile

Operation

CR-135-EWT and CR-200-EWT Rate-of-Rise

A temperature increase at the detector of 15°F (9°C) or more per minute activates the rate-of-rise feature. This closes the contacts in the detector to transmit the alarm condition to the fire alarm control panel. When the rate-of-rise element alone has been activated, the detector is self-restoring.

CF-135-EWT and CF-200-EWT Fixed Temperature

If the temperature of the centre disk rises to the detector's rated temperature, the fixed temperature element activates. This closes contacts in the detector and transmit the alarm condition to the fire alarm control panel. The fixed temperature element is non-restorable and when activated, the detector must be replaced. The need for replacement is indicated when the centre disk has fallen free from the detector



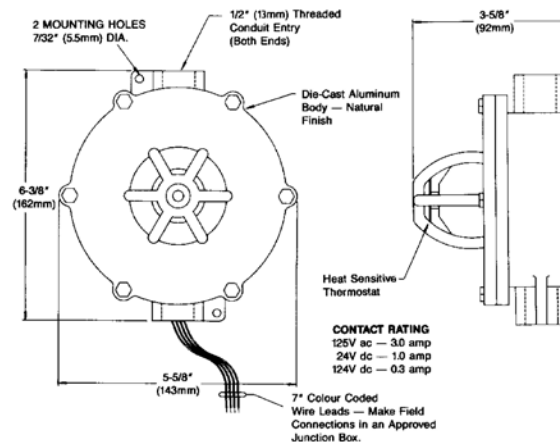
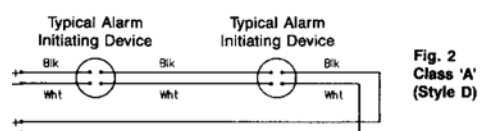
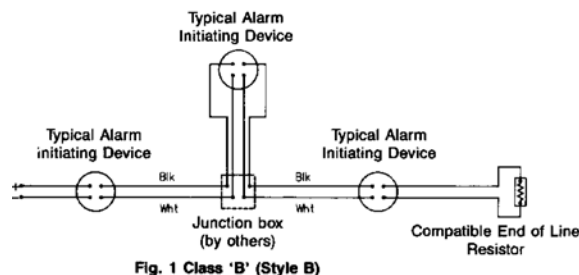
Specifications

Catalogue Number	CR135EWT	CR200EWT	CF135EWT	CF200EWT	CF285EWT
ULC Temperature Rating	135 °F (57 °C)	200 °F (93 °C)	135 °F (57 °C)	200 °F (93 °C)	285 °F (140 °C)
ULC Maximum Ambient Temperature at Ceiling	100 °F (38 °C)	150 °F (66 °C)	100 °F (38 °C)	150 °F (66 °C)	224 °F (107 °C)
Detector Operation	Fixed Temperature and Rate-of-Rise		Fixed Temperature Only		
ULC Recommended Coverage - see note A	2500 ft2 (232m2)		900ft2 (83m2)		
ULC Recommended Spacing	50 ft (15.2m)		30ft (9.1m)		
ULC Maximum Distance from Wall - see note B	25 ft (7.6m)		15 ft (4.6m)		
ULC Approvals	Listed for Hazardous Location Class I, Groups C and D; Class II, Groups E, F and G; Class III Weatherproof, Water-tight and Dust-tight Applications covered by Special Purpose Enclosures III, IV and V				
Other Approvals	C.S.A.; UL				
Contacts	Single Pole Normally Open - Rated at: 3.0 amps at 6 to 125V ac; 1.0 amps at 6 to 28V dc; 0.3 amps at 125V do; 0.1 amp at 250V dc				

Note A - Maximum detector coverage has been determined by ULC to provide detection time equal to sprinkler devices spaced at 10 ft. (3m) intervals on a smooth ceiling 15 ft 9 in. (4.8m) high. Higher ceilings can adversely affect detection time. In some Instances, earlier detection time may be obtained by reducing the spacing between the detectors. Refer to the latest edition of CAN/ULC-S524. Standard for the Installation of Fire Alarm Systems, section on Heat Detectors.

Note B - Maximum distance shown is from any wall partition or ceiling projection extending down more than 12 inches (305mm).

Typical Wiring



Ordering Information

Model Number	Description
CR-135-EWT	Rate of Rise & Fixed Temperature 135°F Explosion Proof Heat Detector
CR-200-EWT	Rate of Rise & Fixed Temperature 200°F Explosion Proof Heat Detector
CF-135-EWT	Fixed Temperature 135°F Explosion Proof Heat Detector
CF-200-EWT	Fixed Temperature 200°F Explosion Proof Heat Detector

