



# FIRE DETECTION DEVICES LTD.

THERMOFLEX® AUTOMATIC THERMOSTATS  
FOR FIRE ALARM SYSTEMS

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**Spec. Sheet #4 Explosion Proof Detector.** A cast aluminum housing encloses a standard THERMOFLEX heat detector making it suitable for use in Hazardous Locations including those requiring detectors that are Explosion proof, Water (and dust) Tight. The suffix EWT denotes a unit that is suitable for areas described as:

- Class I, Groups C and D.
- Class II, Groups E, F and G.
- Class III
- Applications requiring Special Purpose Enclosures Types III,IV and V, Weatherproof, Water-tight and Dust-tight.

The **Model CR 135 EWT** is a combination Rate-of-Rise and Fixed Temperature detector in a cast aluminum housing suitable for use in the Hazardous Locations described above. 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 contact 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 57 degrees Celsius, (135 degrees F). When released, the plunger strikes the set of contacts and holds them closed.

**Spacing** between detectors on an uninterrupted ceiling is 50' (15.2m ) for the Rate-of-Rise; 30' (9.1 m) for Fixed Temperature portion. Distance from any wall or partition is 25' (7.5 m) and 15' (4.5 m) respectively.

Note 1 : **The designation "CF" in the model number** denotes "Fixed Temperature Only" operation. The three-digit number following denotes the temperature at which the plunger is released ( 135, 165, 200 or 285 degrees F.), permanently operating the contacts.

*For Example: CF 200 EWT describes a detector that is Fixed Temperature Only, fusing at 200 degrees F., with one N/O contact, contained in an Explosion proof, Water (and dust) Tight enclosure.*

Note2: All **Multiple Circuit** detectors (see Spec sheet #3), are available as **Hazardous Location** detectors. Specify with the suffix **EWT**.

*For example: CR 135-2 EWT describes a detector that is a combination rate-of-rise and fixed temperature unit, fusing at 135 degrees F., with two N/O contacts, contained in an Explosion, Water (and dust) Tight enclosure.*

The EWT enclosure has two openings tapped for 1/2" rigid conduit. The unit is fastened to the ceiling surface by means of two mounting holes that are 3/16" (5 mm) in diameter. Pigtail leads are provided for connection to the Fire Alarm initiating circuit and/or any ancillary device. After connections are made, the unit is re-assembled using the six machine-thread bolts provided. The black wires are solder-connected internally to one side of the contacts and the white wires are connected to the other side in the same way.



**Contact Rating**

3A @ 125 VAC \* 1A @ 28 VDC \* 0.3A @ 125 VDC  
0.1A @ 250 VDC

**Dimensions**

Diameter: 5.50" (14.0 cm)  
Height: 3.6" (9.2 cm)

**Weight:**

1.7 lb. (800 gm)