

### *CO<sub>2</sub> Suppression Systems*

#### APPLICATION

The Thermotec<sup>®</sup> explosion-proof thermal detectors are used to detect the presence of heat beyond the detector's temperature set-point for the purpose of activating a fire alarm and/or automatic suppression system. The detectors are explosion rated for Class I and Class II hazardous environments. The maximum area coverage for each detector is rated at 50 ft. x 50 ft. in accordance with the manufacturer's specified limitations.

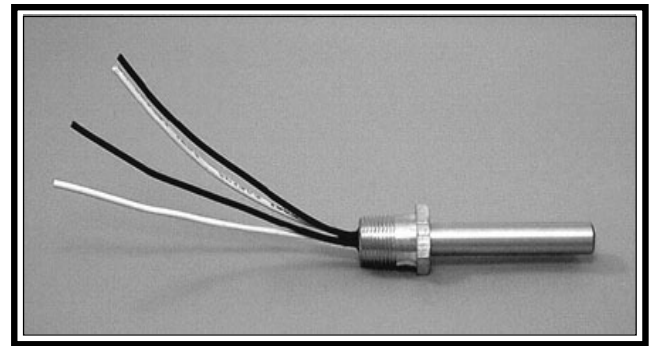
#### DESCRIPTION

The Thermotec thermal detectors are normally open devices designed especially for fire detection and alarm systems. The detectors are a rate anticipation type that operate immediately whenever the ambient area temperature reaches the preset temperature setting of the detector, regardless of how fast or slow the temperature rises. When the temperature drops back down below the set-point, the detector will reset itself.

Under rapid heat increase situations, the rate anticipation feature allows the detector to respond one to three degrees ahead of the set-point. However, the detector does not respond to momentary fluctuations of temperatures below that of the alarm setting, thus eliminating false alarms.

#### SPECIFICATIONS

PartNo.: 60-008 135° F Ex-Proof Thermal  
60-009 194° F Ex-Proof Thermal  
Approvals: U.L. E19310  
Factory Mutual  
C.S.F.M. (No 7270-021:001)  
Elec. Rating: 6-125 VAC 5 amps  
6-25 VDC 1 amp  
125 VDC 0.5 amp  
Area Coverage: 50 ft. x 50 ft. max.



#### APPLICATION

The Detect-A-Fire<sup>®</sup> explosion-proof thermal detectors are used to detect the presence of heat beyond the detector's set-point for the purpose of activating a fire alarm and/or automatic suppression system. The detectors are explosion rated for Class I, Groups B, C and D and Class II, Groups E, F and G hazardous environments. The maximum spacings for each detector are as shown in Table 1.

#### DESCRIPTION

The Detect-A-Fire thermal detectors are normally open devices designed especially for fire detection and alarm systems. The detectors come in a range of temperature settings from 190°F to 450°F. Each is color coded to visually indicate its temperature setting. (Refer to Table 1)

The detectors are a rate compensation type that operate immediately whenever the ambient area temperature reaches the preset temperature setting of the detector, regardless of how fast or slow the temperature rises. When the temperature drops back down below the set-point, the detector will reset itself. However, the detector does not respond to momentary fluctuations of temperatures below that of the alarm setting, thus eliminating false alarms.

## SPECIFICATIONS

PartNo.: 60-021 190°F Ex-Proof Thermal  
 60-018 225°F Ex-Proof Thermal  
 60-038 275°F Ex-Proof Thermal  
 60-022 325°F Ex-Proof Thermal  
 C60-007 450°F Ex-Proof Thermal

Approvals: U.L. E19310  
 Factory Mutual  
 U.L.C.

Elec. Rating: 125 VAC 5 amps  
 125 VDC 0.5 amp

## INSTALLATION

The detectors are rated explosion-proof for installation in hazardous environments. Therefore, all installation practices must be in accordance with all applicable codes by using hazardous rated enclosures, conduit seals, etc., as needed.

°F Setting and Tolerance	Color Coding	Spacings (in feet)		
		U.L.	F.M.	U.L.C.
190 + 7 / -8	White	50	25	50
225 + 7 / -8	White	25	25	50
275 +/- 10	Blue	25	25	50
325 +/- 10	Red	50	25	50
450 +/- 15	Green	25	25	50

**Table 1**