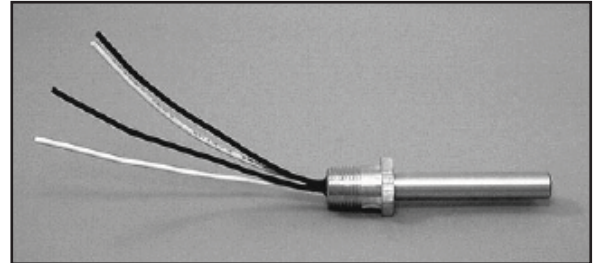# EXPLOSION PROOF THERMAL DETECTORS

THERMOTECH®

DESCRIPTION

The Thermotech 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.

APPLICATION

The Thermotech 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 40 ft. x 40 ft. in accordance with the manufacturer's specified limitations.

SPECIFICATIONS

Part Numbers:	60-008 135°F Ex-Proof Thermal
	60-009 194°F Ex-Proof Thermal
Electric Rating:	6-125 VAC 5 amps
	6-25 VDC 1 amp
	125 VDC 0.5 amp
Area Coverage:	40 ft. x 40 ft. max.

INSTALLATION

Explosion proof for installation in hazardous locations. Has hexagonal grip bushing with 1/2" conduit threads for attachment to threaded hub cover of series JL fixture fitting as manufactured by Killark Electric Co, or equal. Must be hand tightened only. For interior use.

APPROVALS

- U.L. - E19310
- Factory Mutual
- CSFM - 7270-021:001
- New York City MEA - 193-03-E

Form No. E.1.15.01-1

DETECT-A-FIRE®

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 the table below)

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.

APPLICATION

The Detect-A-Fire 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 the table below.

SPECIFICATIONS

Part Numbers:
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

Electric Rating:
125 VAC   5 amps
125 VDC   0.5 amp

°F Setting and Tolerance	Color Coating	Spacings (in feet)		
		UL	FM	ULC
190 + 7/-8	White	50	50	25
225 + 7/-8	White	25	50	25
275 ±10	Blue	25	50	25
325 ±10	Red	50	50	25
450 ±15	Green	25	50	25

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. It has a 1" hexagonal head with 1/2" - 14 NPT thread for mounting.

APPROVALS

• UL - E19310
• Factory Mutual - 0V3 HO.AE
• ULC - CS341-E