135°/190° - RATE OF RISE THERMAL DETECTORS

CATALOG NUMBER 1175

Fike® Protection Systems

Architect and Engineering Specification

Shown with 6" base.

P/N 60-1029 (135°)
P/N 60-1030 (190°)

U L Listed - S4067
FM Approval - in process
CSFM - 7270-0410:151
MEA - 284-91E Vol. IV

APPLICATION

The 135°/190° fixed temperature/rate-of-rise heat detectors are suited for installation where high heat output fires are expected or in areas where ambient conditions would not allow use of other detection methods. Heat detectors are intended for protection of property. **Do not rely on heat detectors for life safety protection.** Where life safety is a concern, smoke detectors must also be used. A UL listed fire alarm panel must electronically supervise the heat detectors.

STANDARD FEATURES

- 135°F or 190°F fixed temperature
- Both detectors employ a 12°/minute rate of rise function
- UL Listed spacing up to 60' by 60'
- 2 or 4 wire base compatibility, relay bases available
- Highly stable operation, RF/Transient protection
- Low standby current, 35µA nominal
- Two built-in power/alarm LEDs for 360° viewing
- Fully Electronic Operation
- Power/Alarm LEDs confirm detector status
- Compatible with 63-1024 and 67-1033 detectors and their bases

COMPATIBLE BASES 6"	
New Product	**Existing Product**
67-1034 (430 Ω)	67-1027 (430 Ω)
67-1035 (220 Ω)	67-1010 (220 Ω)
COMPATIBLE BASES 4"	
New Product	**Existing Product**
67-1036 (430 Ω)	67-1028 (430 Ω)
67-1037 (220 Ω)	67-1017 (220 Ω)

SPECIFICATIONS

Response:	Temperature	135° ± 7.5°F
	Temperature	190° ± 7.5°F
Rated Voltage		17.7 - 30.0 VDC
Working Voltage		15.0 - 33.0 VDC
Maximum Voltage		42 VDC
Supervisory Current		40µA @ 24 VDC
Surge Current		160µA max. @ 24 VDC
Alarm Current		150mA max. @ 24 VDC
Ambient Temperature		32°F to 120°F (0°C to 49°C)
Contact Rating		N/O Contacts 150mA max. @ 24 V
Color & Case Material		Bone PC/ABS Blend

OPERATION

The fixed temperature/rate-of-rise heat detectors are suited to detect in the presence of slow or fast rising temperatures due to burning combustibles. The construction of these models incorporate a thermistor heat element protected from damage by the built-in, durable plastic guard. These electronic heat detectors incorporate two power/alarm LEDs for 360° indication of status. In standby condition the power LEDs flash *Green*. In an alarm condition the LEDs latch on *Red*. The electronic heat detection circuitry performs the same function as a Mechanical Device but with Electronic Precision. If the heat rise is *less* than 12°/minute the detector will not alarm until it reaches its alarm temperature (135° or 190° ± 7.5°F). If the heat rise is *greater* than 12°/minute the detector will alarm immediately giving an early warning signal and latching the *Red* alarm LEDs on.

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ENGINEERING SPECIFICATIONS

Automatic heat detectors where ambient temperatures do not exceed 120°F shall be the 60-1029 fixed temperature/ rate-of-rise heat detector rated at 135°F. For areas where ambient temperatures exceed 120°F, but not 160°F, the 60-1030 fixed temperature/rate-of-rise heat detector rated at 190°F shall be used.

Heat detectors shall be installed in accordance with National Fire Protection Association Standard 72, the spacing assigned by Underwriters Laboratories and in accordance with the rules and regulations set forth by the local authorities having jurisdiction. Automatic heat detectors shall be Underwriters Laboratories listed.