

## 135°/190° - RATE OF RISE THERMAL DETECTORS

### APPLICATIONS

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.

### 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.

### 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, 35mA 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

### 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:	40mA @ 24 VDC
Surge Current:	160mA max. @ 24 VDC
Alarm Current:	150mA max. @ 24 VDC
Ambient Temperature:	32 to 120°F (0 to 49°C)
Contact Rating:	N/O Contacts 150mA max. @ 24 V
Color & Case Material	Bone PC/ABS Blend

### 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.



### APPROVALS:

- UL Listed - S4067
- FM Approved - 3010873
- CSFM - 7270-0410:151
- City of New York - 284-91E Vol. IV



## ORDERING INFORMATION

Rate of Rise Thermal Detectors	
Fike P/N	Mfg. P/N
60-1029	DCD-135
60-1030	DCD-190
Compatible Bases 6"	
67-1034 (430 W)	NS6-224
67-1035 (220 W)	NS6-220
Compatible Bases 4"	
67-1036 (430 W)	NS4-224
67-1037 (220 W)	NS4-220