

RATE -OF-RISE/FIXED TEMPERATURE HEAT DETECTOR

PRODUCT INTRODUCTION

This heat detector offers fixed temperature or combination rate-of-rise and fixed temperature detection, suitable to any household or commercial applications. The detector is made up of an externally mounted thermistor with a specially designed cover that protects the thermistor while allowing maximum air flow. The thermistor reads the temperature from the air it takes in and transmits a signal representing the temperature to the panel. If the temperature reaches or exceeds the trip point or the temperature increase reaches or exceeds the rate-of-rise, the detector is triggered. The status LED lights in red and alarm signal is output. The detector is an ideal unit to detect rapid fire developments in houses, shops, hotels, restaurants, offices, schools, banks, libraries and etc.

PRODUCT FEATURE

- SMT ADOPTED, HIGH STABILITY
- LOW STANDBY CURRENT
- ANTI-RFI & ANTI-EMI
- 9-35VDC WIDE VOLTAGE
- ALARM RELAY N.C./N.O.OPTIONAL (4 WIRE)
- REMOTE LED INDICATOR OUTPUT (2 WIRE)

TECHNICAL SPECIFICATION

PRODUCT CATEGORY	2 wire	4 wire
OPERATING VOLTAGE	DC 9V~35V	
STANDBY CURRENT	50uA	2 mA(relay N.O.) 12mA(relay N.C.)
ALARM CURRENT	35mA@DC12V 83mA@DC24V	15mA(relay N.O.) 5mA(relay N.C.)
ALARM INDICATION	RED LED ON	
ENVIRONMENT	-10°C~+50°C, Humidity ≤ 95%RH	
TEMP. TRIP POINT	57 °C (135 °F)	
RATE OF RISE	8 °C (15 °F) / MIN	
DETECTING RANGE	50 m ² at 6-12m Installation Height	
ALARM OUTPUT	REMOTE LED	RELAY OUTPUT
CONTACT RATING	N/A	0.5A@DC28V
STANDARD	EN54-5,UL521,GB4716-2005	
DIMENSION	100 mm diameter*48mm deep	

TEST

Simulate an environment to test the detector: put the detector into a chamber with thermometer and use a heat-creation device to rise the air temperature in the chamber. When the temperature reaches the trip point, the detector LED lights continuously in red and the alarm signal is output.

NOTICE

1. The detector can not be installed in places exposed to direct sunshine or heat sources.
2. It is advised to install the detector nearby a smoke detector.
3. Make the base fixed firmly and all wires connections right.
4. Test the detector every three months.

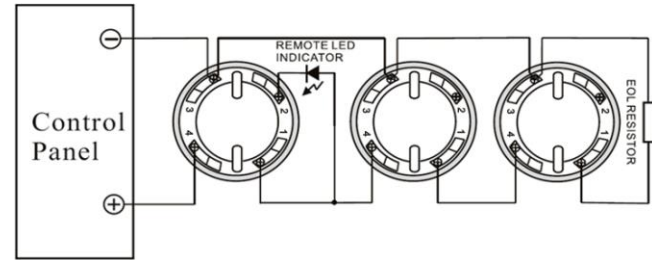
INSTALLATION

1. Connect the wires to the mounting base.
2. Select a proper place (normally mounted on the center of ceiling). Fix the mounting base and then put the detector into the base and twist to fasten it.

CONNECTION DESCRIPTION

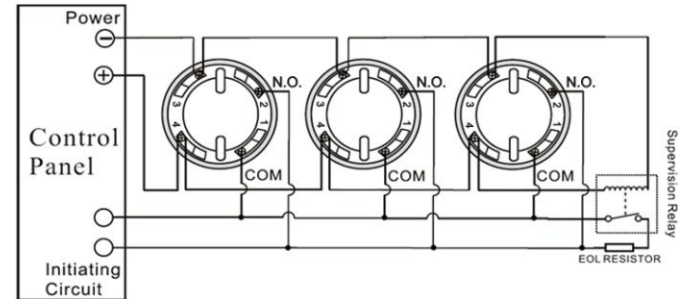
1. 2 wire: base terminals "3" and "4" for DC power input, non-polarized. When remote indicator is used, "4" in must be connected to the positive line in. "2" for remote indicator cathode.
2. 4 wire: base terminals "3" and "4" for DC power input, non-polarized. "1" for relay output com, "2" for relay output N.C. or N.O.

WIRE DIAGRAM



2 WIRE BASE TERMINALS

- | | |
|--------------------------|-----------------------------|
| 3. POWER(-) INPUT | 2. REMOTE LED OUTPUT |
| 4. POWER(+) INPUT | 1. POWER(+) OUTPUT |



4 WIRE BASE TERMINALS

- | | |
|--------------------------|-------------------------------|
| 3. POWER(-) INPUT | 2. RELAY OUTPUT (N.O.) |
| 4. POWER(+) INPUT | 1. RELAY OUTPUT (COM) |