

IGNIS - Conventional 4 wire Heat Detector

Product Description: Conventional 4 wire Heat detector IGNIS is a thermal heat detector that uses a static heat element of 57 °C. It is designed to respond when the convected thermal energy of a fire increases the temperature of a heat sensitive element.

The thermal mass and conductivity of the element regulate the rate flow of heat into the element. Heat detector operate when the heat sensitive eutectic alloy reaches the eutectic point changing state from a solid to a liquid. Thermal lag delays the accumulation of heat at the sensitive element so that a fixed-temperature device will reach its operating temperature sometime after the surrounding air temperature exceeds that temperature.

The range of bases allows adapting the entire line of IGNIS detectors to the different installation needs. Its ample interior space makes mounting and electrical connection easier. Its special double-sided nickel-plated phosphor bronze terminals guarantee an optimal and reliable long-term contact with the detector.



Application:

The IGNIS Heat detector is suitable in general applications to help in the reduction of property damage.

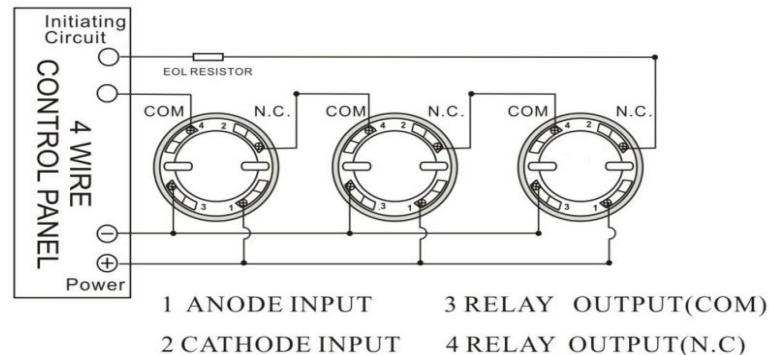
USPs:

- RED LED status indication in case of fire.
- Respond well to Heat Detection.
- Unaffected by wind or atmospheric pressure.
- Light weight.
- Elegant Design.
- Easy Installation.
- Make in India design.

Product Features:

- Thermal heat Detector model IGNIS.
- Available with low profile base and high base with four 20 mm inputs.

- Independent head, bayonet system assembly and extraction lock.
- Nickel-plated phosphor bronze contacts, double-sided double-grip connection.
- SMT Design, High stability.
- Wide supply voltage range.
- Reverse polarity protection.
- 360° visible RED status LED and output for response indicator.
- ABS thermoplastic material and dust protective cover
- Size 100 x 36 (diameter x height)



General specifications	
Detection method	Static Heat Element
Fire Type	Heat
Sensor type	Thermistor
Reset time	15 Sec Maximum
Response time	10 - 30 Sec
Electrical specifications	
Power supply	12Vdc to 30Vdc
Normal Current Consumption	15uA at 24V at 25 °C (95uA at start-up)
Alarm Current	20 mA with R=470Ω at 24 V
Environmental specifications	
Operating temperature	-10 °C to 70 °C
Storage temperature	-10 °C to 80 °C



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Humidity	95% non-condensing
Mechanical specifications	
Protection class	NA
Cabinet material	ABS Thermoplastic
Cable entry	NA
Dimensions	100 x 36 (diameter x height)
Mounting	Ceiling mount
Weight	110 g
Output	PFC output (Normally open or Normally closed dry contact)
Accessories with Unit	2 Screws (25*8 mm) Ravel Plug (25 mm) User Manual

Before cleaning, disable the system to prevent false alarms and inform proper authority.

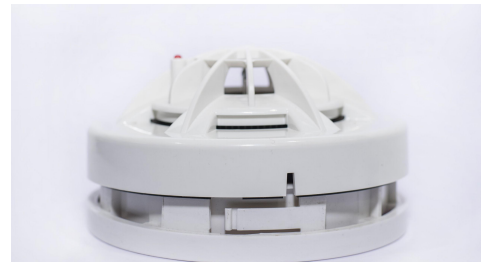
1. Remove the detector to be cleaned from the system.
2. Gently remove the back plate and PCB from the sensor chamber.
3. Use a blower to clean the sensor.
4. Re-insert the PCB & back plate properly.
5. Fit the detector head with the base of the detector.

NOTE: Strictly maintenance to be done by a technically trained person.

Installation Procedure:

Note: Before Installation, this manual should be available with the user of this equipment.

1. IGNIS detectors are intended for mounting on a ceiling or a wall in accordance with requirements.
2. Fit the mounting base to the electrical junction box with the given screws. If a high profile base is used, then a junction box is not required. (High profile base directly comes up as a built-in junction box.)
3. Connect ZONE '+' & '-' to the mounting base pin 1 and 3 respectively (Refer connection diag.)
4. Align detector head notch with mounting base notch as shown in fig.



5. Push the detector head into the base and turn clockwise to secure it in place.

Warranty

We warranty its enclosed detector to be free from defects in materials and workmanship under normal use and product warranty of 12 months from the date of supply. No agent, representative, dealer, or employee of the company has the authority to increase or alter the obligations or limitations of this warranty.

Warning/Caution

- Install and use equipment in accordance with installation instructions manual.
- Do not Paint the Detector.
- Dust cover must be removed before commissioning to avoid detector contamination.
- During maintenance, do not remove the detector before notifying proper authority.

Maintenance