TISD

Conventional IGNIS Smoke Detector

Vighnaharta™

Product Description: Optical smoke detector IGNIS is a photo-electric smoke detector that uses a state of the art optical sensing chamber. Its advanced design ensures optimal response and stable long-term operation thanks to its self-check functions,automatic sensitivity compensation and status warning.

The IGNIS optical smoke detector indicates a fire alarm in the presence of smoke whose opacity in the air is of the order of 0.12db. IGNIS smoke detector comes up with two different bases, High and Low profile bases.

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 optical detector is suitable in general applications where fire with visible smoke is foreseeable.
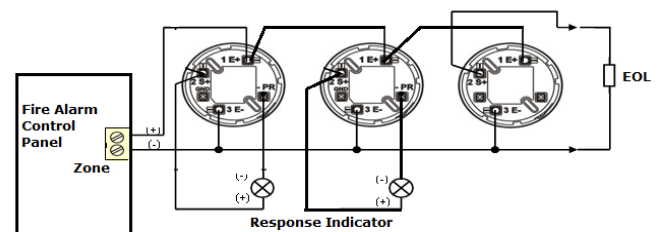
USPs:

- Visual identification for a healthy, alarm and maintenance mode.
- Respond well to slow burning & smouldering fires.
- Unaffected by wind or atmospheric pressure.
- Light weight.
- Elegant Design.
- Easy Installation.
- Make in India design.

Product Features:

- Optical Smoke 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.
- 360˚ visible red status LED and output for response indicator.
- Indication of normal operation by flashing every 4 sec.
- Maintenance mode indication by flashing LED every 14 sec.
- Automatic drift compensation.
- ABS thermoplastic material and dust protective cover.

1. Zone "+"   2. Remote Indicator "+"
3. Zone "-"   4. Remote Indicator "-"

- Size 100 x 36 (diameter x height)

General specifications	
Detection method	Photo-electric Light scattering
Gases detected/Fire Type	Slow burning, smouldering fires
Sensor type	Photo diode
Sensor life span	7 Years
Response time	10 - 30 Sec
Warm-up period	40 Sec
Electrical specifications	
Power supply	9Vdc to 32Vdc
Normal Current Consumption	65uA at 24V at 25 ˚C (95uA at start-up)
Environmental specifications	
Operating temperature	-10 ˚C to 70 ˚C
Storage temperature	-20 ˚C to 80 ˚C
Humidity	95% non-condensing

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Mechanical specifications

Protection class	NA
Cabinet material	ABS Thermoplastic
Cable entry	NA
Dimensions	100 x 36 (diameter x height)
Mounting	Ceiling / Wall Mount
Weight	
Output	Response Indicator
Accessories with Unit	2 Screws (25*8 mm) Ravel Plug(25 mm) User Manual

LED Indication	Detector Status	Chamber Status
Flashing Every 3.5 sec	Smoke Detector Healthy	Normal Operation
Continuous ON	Alarm	Smoke Detected
Flashing every 14 sec	Smoke Detector Healthy	Function correct but requires cleaning
OFF	Detector Defective	Out of range, urgent cleaning or replacement
Flashing every 75 millisec	Alarm after Reset	Out of maximum range (at start-up)

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

Before cleaning, disable the system to prevent false alarm 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 chamber. You can use cotton or soft cloth to clean the chamber.
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 requirement.
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.

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