

SMOKE DETECTORS

Model No.--NSD-66A

Smoke detector/heat detectors are using for detecting the Smoke/heat in early stage of fire .Early detection & prevention of fire is best way of protection before it goes to disaster level. Keeping that point in focus National Security Devices(NSD) present heat, smoke & multi detectors .

Detectors from National Security Devices are made with Virgin ABS plastic body , best quality of brass/ stainless Steel parts & advanced microprocessor based SMD mounting technology. Microprocessor technology is well Proven method of fast , accurate , long life & versatile for Various kind of environment.

There are different types detectors made by National Security Devices.

1:-Optical (photoelectric) Detector.

2:-Heat Detector.

3:-Multi Criteria Detector.

4:-Battery Operated Detector.



Optical (Photoelectric) Detector

It has a dual chamber inside consists of a photo diode technology called optical sensing that constantly shoots a beam of Light and a “photocell” that senses light from darkness. When there is smoke into the chamber of detector ,the Beam of light is scattered by smoke particles, and the Scattered light hit the alarm & it is initiated. Its Operating voltage varies from DC 9 volt to 33 volt .

Technical Data

Operating voltage	:	9-33 Vdc
Remote Output	:	Open collector NPN
Quiescent current	:	50 microamp
Alarm Current	:	30 milliamp
LED Normal	:	blink Red
LED Alarm	:	Study Red
Temprature	:	-10 to 60 degree celsious
Weight	:	100 gram
Colour	:	Ivery white
Material	:	Poly Carbonate

Features

- Dual LED for 360 visibility
- Maintenance.
- Lockable standard base



HEAT DETECTORS

Model No.--NSD-66 H

Heat Detector



Heat Detector

Heat detectors are made for two criteria of detecting fire. Rate of rise & Fix temperature. If surrounding temperature rise by 3 degree Celsius per minute then detector detect it as fire .It is depend on rising of temperature gradient. In case of fix temperature detection 56 degree Celsius & above temperature measure as fire. In this case if the temperature rises more then 56 degree Celsius it realized as fire.

Technical Data

Operating voltage	9-33 Vdc
Remote Output	Open collector NPN
Quiescent current	50 microamp
Alarm Current	30 milliamp
LED Normal	blink Red
LED Alarm	Study Red
Response temp.	56 Degree Celsius (Fix)
Response Temp.	3Degree Celsius /Minute
Temperature	-10 to 60 degree Celsius
Weight	100 gram
Colour	Ivery white
Material	Poly Carbonate

Features

- Dual LED for 360° visibility.
- Advanced detection.
- Simple installation and easy to maintain.
- Economical price.

Multi Criteria Detectors

Model No.--NSD-66M

Multi Detector



MULTI CRITERIA DETECTOR

Multi criteria detector are the combination function of heat & smoke detectors. This detectors comes with dual chamber detection for smoke detection & thermistor for heat detection. Normal case its twin LED's are blinking & in case of fire LED's are study ON. Its internal processor is program in specific way so it can detect smoke & heat simultaneously.

Technical Data

Operating voltage	9-33 Vdc
Remote Output	Open collector NPN
Quiescent current	50 microamp
Alarm Current	30 milliamp
LED Normal	blink Red
LED Alarm	Study Red
Response temp.	56 Degree Celsius (Fix)
Response Temp.	3Degree Celsius /Minute
Temperature	-10 to 60 degree Celsius
Weight	100 gram
Colour	Ivery white
Material	Poly Carbonate

Features

- Dual LED for 360° visibility.
- High efficiency and quality.
- Simple installation.
- Easy to maintain.



Battery Operated Detectors

Multi Detector



Battery Operated Detectors

Battery Operated detectors function is same as photo detector(optical detector). The difference is it has inbuilt Buzzer for sound in case of smoke & powered by a 9 volt inbuilt battery. This is standalone device and not used with a fire alarm panel.

Battery operated detector are mostly used in single room or in house .

Technical Data

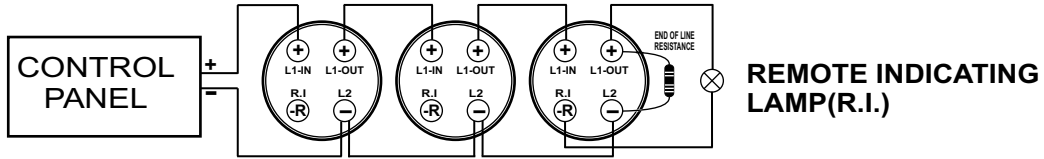
Operating voltage	9 Volt Battery
Remote Output	Open collector NPN
Quiescent current	50 microamp
Alarm Current	30 milliamp
LED Normal	blink Red
LED Alarm	Steady Red
Temperature	-10 to 60 degree celsius
Weight	100 gram
Colour	Ivery white
Material	Poly Carbonate

Features

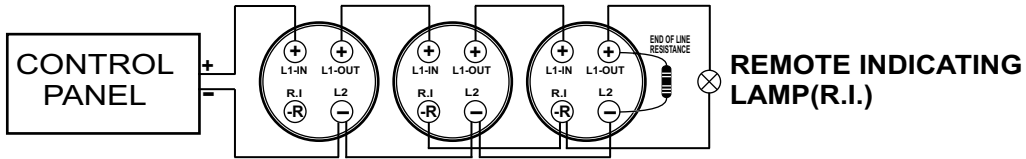
- Dual LED for 360° visibility.
 - Simple installation and easy to maintain.
 - Battery operated (9v battery included).
- Activate the alarm system and also their in built buzzer.

SCHEMATIC WIRING DIAGRAM

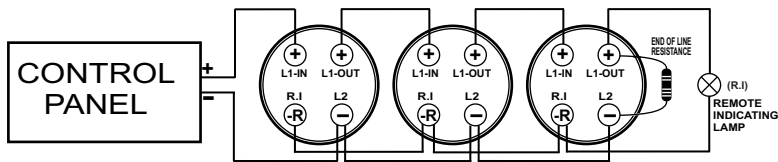
Function Of (-R) : Remote Indicating Lamp Show Fire Signal At Another Place. Detector Has (-R) Contact To Connect A Remote Indicating Lamp(R.I.).



One Detector Connect (-R) Remote Indicating Lamp.



One (-R) Remote Indicator With More Then One Detector.



Detector without Connect (-R) Remote Indicating Lamp.