

# DIGITAL ADDRESSABLE MULTI- DETECTOR (OPTICAL/HEAT)

**MODEL: AS-607-PTH-EIA**



## Description:

Digital Addressable Multi-Sensor integrates photoelectric detection and fixed temperature detection technology by combining smoke sensor and semi-conductor heat sensor in mechanism and circuitry structure. Just because of the combination of smoke detection and heat detection, it not only overcomes the disadvantage that detectors using common infrared scattering technology are insensitive to black smoke with small particles but also can pick up the fire with obvious temperature such as alcohol flame, thus extending its application range.

## Features :

- Compatibility with ASES digital addressable FACP
- Address programmable through Dip Switches
- Combined smoke and heat algorithm greatly improves optical sensitivity.
- Removable innovative sensing chamber, easy for maintenance.
- Dual LED design provides 360° viewing.
- Remote indicator output available.
- Fix temperature at 58°C
- Easy installation, Removable innovative sensing chamber, easy for maintenance.
- Reliable fire detection in areas with a wide temperature range from -10°C to +60°C
- Alarm flag for fast alarm reporting
- Responds well to slow burning, smouldering fires

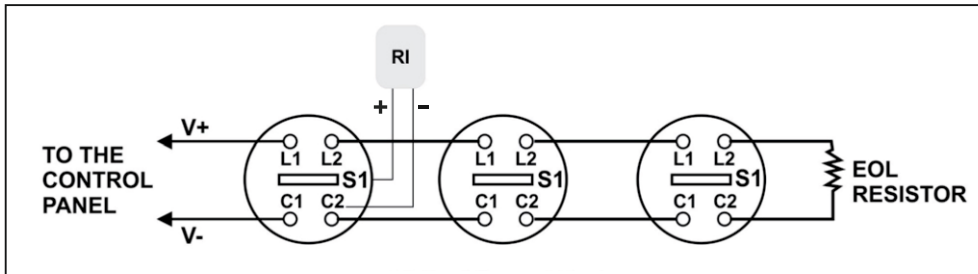
## Recommended Cabling:

1.5mm<sup>2</sup> or above fire cable is recommended, laid through metal or flame-retardant conduit, but subject to local codes. Note: Different color cables are used to avoid wiring mistakes.

## Specification

Operating Zone Voltage	19-24 Vdc
Standby Current	40 µA
Alarm Current	24 mA ≥ (without remote indicator)
Fire LED	Green. Flashes every 3s normally. RED Steadily
Remote Indicator Output	Illuminates after alarming. Directly connecting with indicator Quiet in normal condition; flashes in alarm.
Programming Method	Programming from DIP SWITCHES
Wiring	Non Polarized 2-core for a Zone, Polarized 2-core for the remote detector.
Detection principle	Smoke: Photo-electric detection of light scattered by smoke particles Heat: Temperature-sensitive resistance.
Chamber configuration - smoke element only	Horizontal optical bench housing an infrared emitter and sensor arranged
Sensor	Silicon PIN photo-diode
Response Temperature	Response Temperature: 58°C
Environment Temperature	-10°C to +60°C)
Relative Humidity	5%-95% Rh
Material of Enclosure	ABS

## Connection and Cabling:



There are five terminals with numbers on the base.

- L1 (+) : Zone +
- C1 (-) : Zone -
- S1 (+) : REMOTE INDICATOR
- C2 (-) : REMOTE INDICATOR

## Notice:

1. The detector can not be installed under worse environment e.g. Coldest and dusty. Do not remove the dust proof cover until use the detector.
2. Make sure that there is no block within 0.5m form detector .
3. Keep the distance between detector and wall more than 0.5m.
4. Detector should be install Horizontally. If need, to be installed slantingly please keep the angle less than 45 degrees.
5. Make sure the distance between detectors be less than 3.5m. And the distance between detector and corner must be less than half of the one between detectors.
6. Detectors base be installed solid. Wire connection must be reliable.
7. Recommendations should be carried out every six months a simulated fire test, the detectors are working properly.
8. For various reason like change in environmental condition, electric disturbance and tampering, the product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and protection of his/her property.

## Detector base image for wiring:

