



A Bosch Company

- Dual Technology Sensor
- Combined Smoke and Heat Sensor
- Ideal Multi-Application Sensor
- Integrated Electronic Sounder
- Loop Powered
- Low Current
- Programmable Volume Control
- Integral Short Circuit Isolator
- Protec Algo-Tec™ 6000PLUS Protocol
- Devices Display Address Number
- FAST™ Addressing
- Reduced False Alarms
- AS 1670 Compliant

## 6KPAUS/OPHT/S Optical Smoke & Heat Sensor Plus Sounder



The Protec Algo-Tec™ 6000PLUS sensor range has been developed to incorporate advanced fire sensing technology, electronic sounders, high intensity LED warning beacons and speech enhanced talking sounder capability, all integrated within the sensor head and powered from the loop.

**6KPAUS/OPHT/S** Interactive addressable high performance optical smoke and heat multi-sensor.

The dual technology multi-criteria fire detector uses detection of smoke by scattering of infra-red within the optical chamber coupled with thermal enhancement of the optical sensitivity, as well as providing temperature detection equivalent to grade A2. The smoke and heat channels can be controlled independently for day/night operation with intelligent data being evaluated by the Protec Algo-Tec™ 6000 interactive programmable algorithms.

These sensors react across the range of fire products from large visible particles from smouldering fires to open flaming fires producing very hot smaller particles and are therefore suitable for use in all smoke detection applications. The environmental conditioning algorithms can be selected to filter unwanted alarms and enhance performance.

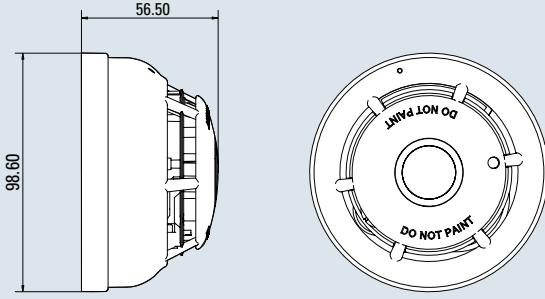
**Sensor Sounder** - The Protec Algo-Tec™ 6KPAUS/OPHT/S sensor is equipped with an integrated loop powered electronic sounder with two programmable sounder tones: ISO Alert and ISO Evacuation compliant with AS 1670, selectable by the control panel along with adjustable volume control. A loop short circuit isolator is also incorporated within the head. The sensor sounder tones are compatible with the full range of Protec 6000 electronic sounders.

# Technical Specification

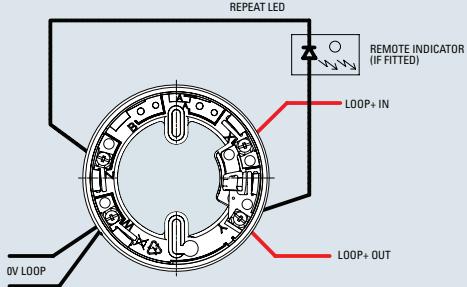
PRODUCT CERTIFICATION



## Dimensions (mm)



## Typical Wiring using 6000PLUS/BASE



## FAST™ Addressing

FAST™ (Firmware Addressed Secure Technology). Each Algo-Tec™ 6000 device is manufactured with a unique serial number factory programmed (firmware embedded) and device label. The label includes the serial number on two bar-coded segments, two of which are removable by the installer (one is a spare). The label is attached to an address location booklet, which is handed to the engineer prior to commissioning. During commissioning the engineer scans the address location booklet to download the loop, address and serial number details. The downloaded data is then checked and stored within the secure non-volatile memory of the control panel and the addressing is complete. FAST™ and easy eliminating troublesome and time consuming setting of address cards and DIL switches. FAST™ addressing is more secure than 'SOFT ADDRESSING' and easier to extend or amend, allowing greater flexibility and reduced costs.

## RVAV™

RVAV™ (Remote Visual Address Verification). Once the system has been FAST™ addressed the correct location of each Algo-Tec™ device can be easily identified, using the device's in-built LED to indicate the device address number. The LED has a simple coded pulse, making it quick and easy to count. Because the control panel sends the RVAV™ signal to each device, the RVAV™ walk test is confirming that the devices are correctly addressed and correctly communicating. As-fitted Drawings and device labels can also be checked during RVAV™ walk test, without the disruption of activating devices commonly associated with other types of system.

## Technical Specification:

Environment	-10°C to +50°C (95% R.H. non condensing)
Ingress Protection	IP41
Weight (excluding base)	105g
Loop Powered	Yes
Loop Standby Load	0.4mA
Loop Alarm Load	5.4mA
Loop Voltage	18 - 28V
Isolator	Yes
Sounder Volume	85dB(A) (High), 75dB(A) (Mid), 65dB(A) (Low) (measured at one metre)
Device Protocol	Algo-Tec™ 6000PLUS
Relevant Standard	AS 7240 Part 15 (5&7)

## BASE Options:

### 6000PLUS/BASE

- Low profile common mounting base

### 6000PLUS/FFBASE

- Fast fixing semi recessed base

Note - base options above are included in the product approval.

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