

## 6000PLUS/OPHT/TS - Optical Smoke and Heat Sensor Plus Talking Sounder

- Dual Technology Sensor
- Combined Smoke and Heat Sensor
- Ideal Multi-Application Sensor
- Integrated Voice Enhanced Sounder
- Seven Selectable Voice Messages
- 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



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.

**6000PLUS/OPHT/TS** 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™ 6000PLUS interactive programmable algorithms.

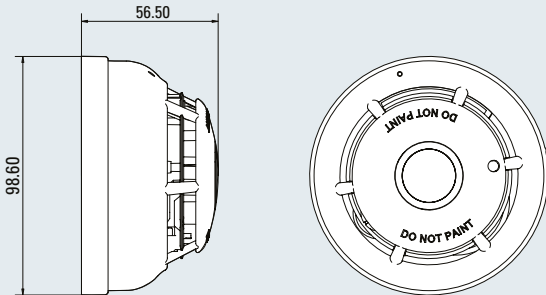
These sensors react across the range of fire products from large visible particles from smouldering fires to open flaming fires producing very hot smaller particles and

are therefore suitable for use in all smoke detection applications. The environmental conditioning algorithms can be selected to filter unwanted alarms and enhance performance.

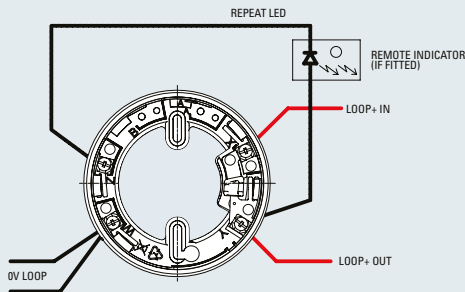
**Sensor Talking Sounder** - For the ultimate method of alerting building occupants of the incidence of an emergency, the Protec Algo-Tec™ 6000PLUS sensor is equipped with an integrated voice enhanced sounder. The talking sounder is capable of delivering synchronised alert and evacuate messages around a building, removing any ambiguity, particularly for anyone unfamiliar with the building alert and evacuation strategy, enabling a more prompt and safe building evacuation.

# 6000PLUS/OPHT/TS Technical Specification

## Dimensions (mm)



## Typical Wiring using 6000PLUS/BASE



## 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         | 8.4mA (10.4mA with Bell Sound)  |
| Loop Voltage            | 18 - 28V  |
| Isolator                | Yes   |
| Sounder Volume          | 85dB(A) (High), 75dB(A) (Mid), 65dB(A) (Low) <i>(measured at one metre)</i>   |
| Device Protocol         | Algo-Tec™ 6000PLUS  |
| Product Approval        | LPCB Certificate No: 201x/04<br>EC Certificate No: 0832-CPD-1173<br>Relevant Standard: EN 54-3, 5, 7 & 17,<br>CE Marked |

## Talking Sounder Message Set

| Message Number | Description                   | Preamble Tone | Duration(s)   | Message Text  |
|----------------|-------------------------------|---------------|---------------|---|
| 1              | Female evacuation V1          | Warble        | 9.4           | Attention please, attention please. Fire has been reported in the building, please leave the building immediately by the nearest exit |
| 2              | Female alert                  | Pulse         | 7.5           | May I have your attention please, an incident has been reported in the building please listen for further instructions                |
| 3              | Female evacuation V2          | Warble        | 7.5           | Attention, attention. This is an emergency. Please leave the building by the nearest available exit                                   |
| 4              | Female test                   | Warble        | 3.5           | This is a test message, no action is required   |
| 5              | Male evacuation V2            | Warble        | 8             | Attention, attention. This is an emergency. Please leave the building by the nearest available exit                                   |
| 6              | Male alert                    | Pulse         | 8.1           | May I have your attention please, an incident has been reported in the building. Please listen for further instructions               |
| 7              | Male test                     | Warble        | 4             | This is a test message, no action is required   |
| 8              | Bell (accessed via msg 14/15) | None          | Until Stopped | None  |
| 9              | No tone or message            | None          | 0             | Used by control panel to allow user to 'turn off' sounder part of a talking sounder beacon  |
| 10             | Bespoke message               | W,P or C      | max 10 sec    | Client defined (must be stated when ordering sounder) additional cost   |
| 11             | Warble electronic tone        | None          | Until Stopped | None  |
| 12             | Pulsed electronic tone        | None          | Until Stopped | None  |
| 13             | Continuous electronic tone    | None          | Until Stopped | None  |
| 14             | Pulsed bell                   | None          | Until Stopped | None  |
| 15             | Continuous bell               | None          | Until Stopped | None  |

The preamble tone is played for 4 seconds, then a 1 second silence, then the message, then silence until the sequence is re-triggered. This sequence trigger is panel adjustable; preset to 15 seconds.

### 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.



LPCB ref. no. 201x/04



Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

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