

Smoke Alarms

180 Series for Security Systems 12VDC

Photoelectric Smoke Alarm Externally Powered with Battery Backup for use with Security Systems

Model EIB186P

- Connects to 12Volt control panel
- Meets BCA 2005 Specification E2.2a requirements
- Suited to smouldering fires.
- Easi-Fit base
- 9V Alkaline Battery back up
- High performance optical chamber with integral stainless steel insect screen
- Test/Hush button
- Advanced suppression and calibration technology
- Interconnectable to other Brooks 180 series alarms
- Low Battery warning
- Alarm output changeover dry contacts 24Vdc 1 amp
- Built-in auto test facility
- ActivFire Listed to AS 3786
- 5 year guarantee (Limited)



Product Description

The EIB186P is a Photoelectric Smoke Alarm that is designed to operate with suitable 10.5 – 15.0 volt control panels (typically a security system control panel), and has a 9V alkaline battery back up in the event of mains failure.

Security systems with smoke detectors have been used as **required** smoke detection and alarm systems for residential accommodation and further they are being certified as Deemed to Satisfy solutions. However without additional measures the vast majority of installations do not comply on the basis that the power supply requirements are not met (ref AS3786) and where both the primary and secondary power is supplied by the security panel, wiring is not supervised.

The EIB186P, in conjunction with an external 12 volt supply from a security panel, provides a truly 'Deemed to Satisfy' Solution without the need to take additional design measures. Photoelectric (Optical) smoke alarms are most suited to fires producing visibly dense smoke, typically given off from smouldering bed linen, plastics, and fused electrical appliances. Visibly dense smoke, which also contains toxic fumes, impairs the occupant's ability to see and make their way to an exit. The design standard AS1670.1 mandates the use of photoelectric smoke detection in all sleeping areas and paths to an exit.

The 9V battery will last for up to 2 years in standby mode, and capable of powering the EIB186P for up to 1 year in the event of external dc power failure.

The EIB186P has soldered alarm sounder contacts to prevent sounder failure due to pressure fit contact corrosion, an identified source of occupant warning failure.

The EIB186P is supplied with the Easi-Fit base that allows very quick and simple installation of the smoke alarm, combined with simple detector head removal and replacement.

The Easi-Fit base automatically connects both the external dc power and battery as the EIB-186P slides on to the Easi-Fit base.

The EIB186P has other advanced features such as high performance optical chambers fitted with integral stainless steel insect screens to reduce the chances of false alarms, as well as the ability to interconnect up to 24 alarms to allow all alarms to sound if just one of the interconnected alarms should be triggered.

The EIB186P has built in circuitry to aid suppression of voltage transients and RF interference to further reduce the chances of false alarms under such conditions.



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Technical Specifications

for further details see the operator and installer manuals

| | |
|----------------------------------|---|
| Sensor: | Optical, uses light scatter from smoke (Note: Sensing chamber meets the 25mm stand-off installation requirements of AS1670.1 and AS1670.6) |
| Ambient Light: | Chamber housing and compensation overcomes possible problems due to stray light |
| Sensitivity: | Complies with AS 3786 (Nominal 10%Obs/m) |
| Source: | Contains NO radioactive material |
| Airspeed: | Essentially immune to the effects of airspeed |
| Test Facility: | Simulates the effect of smoke and checks electronics and horn |
| Automatic Self-Test: | Smoke chamber is tested every 40 seconds and unit beeps (without LED flash) if the sensor is de-graded |
| Insect Screen: | 1mm diameter stainless steel mesh mitigates insect and debris entry into the smoke chamber. |
| Hush Facility: | In "Hush" mode the alarm enters a ten minute period of reduced sensitivity to overcome false alarm conditions, and will then automatically reset itself |
| Primary Supply: | 10.5 to 15.0 Volts dc |
| Power 'ON' Indicator: | Continuous Green LED |
| Secondary Supply: | 9 Volt Alkaline Battery |
| Low Battery Warning: | Beeps every 40 second when the stand-by battery reaches it depletion threshold |
| Alarm Sounder: | Integral electronic piezo horn. |
| Alarm Sounder Connection: | Piezo contacts are soldered to prevent failure due to contact corrosion over time. |
| Alarm Sounder Output: | 85 dB (minimum) at 3m. |
| Alarm Status Indicator: | Red LED in the base latches ON. |
| Alarm Output: | Changeover dry contacts 24Vdc 1 amp |
| Temperature Range: | 0°C to 40°C |
| Humidity Range: | 15% to 95% Relative Humidity. |
| Interconnection: | up to 24. (NOTE: Do not interconnect to other manufacturer's devices) |
| Fixing: | Easi-Fit mounting base. |
| Enclosure Material: | UL94VO flame retardant. |
| Dimensions: | 152mm diameter x 50mm depth. |
| Weight: | 345g |
| Warranty: | 5 year (limited) warranty |
| Approvals: | <i>Australian</i> - Certified to the requirements of AS3786 ActivFire afp 1791, <i>International</i> - Kitemarked to BS5446-1:2000, CE Approved |

Accessories

EIBLOC Alarm Locator



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