



# LIFESAVER

## PSA LIFESAVER 5800RF Flush Design Photoelectric Smoke Alarm



### Product Description

The PSA Lifesaver 5800RF is a low profile AC/DC powered photoelectric smoke alarm that operates on a 240V power source with a sealed rechargeable lithium battery backup. This advanced smoke alarm has the ability to function as a stand alone unit or in an interconnected system. The PSA Lifesaver 5800RF is compatible with other PSA Lifesaver smoke alarms, heat alarm, visual strobe light and ancillary devices.

This alarm uses photoelectric sensing technology. Photoelectric sensing alarms may detect visible particles (associated with smoldering fires) sooner than ionisation alarms. Ionisation sensing alarms may detect invisible fire particles (associated with flaming fires) sooner than photoelectric alarms.

PSA Products strongly recommends that both ionisation and photoelectric smoke alarms be installed to help ensure maximum detection of the various types of fire that can occur within the home.

PSA Lifesaver model 5800RF is a 240VAC powered alarm that includes a rechargeable lithium battery to provide continuous protection during a power failure and includes a quick connect power harness to make installation simple.

### General:

- ✓ Innovative low profile alarm design
- ✓ Australian Engineered and Design. Patented.
- ✓ Photoelectric Sensing Technology
- ✓ 240VAC with sealed rechargeable lithium battery backup, no longer need to change battery.
- ✓ One button Test and Hush feature.
  - Large easy design button to Test alarm operation and Hush to silence nuisance alarms
- ✓ Two LEDs
  - Blue LED indicates AC condition
  - Red LED indicates alarm condition
- ✓ Alarm memory. Red latching LED

<b>Compatible with</b>	All PSA Lifesaver range of smoke alarms, heat alarm, strobe light and auxiliary devices.
<b>Detection Method</b>	Photoelectric sensing technology
<b>Operation</b>	Stand-alone or interconnect up to 24 units
<b>Power Requirement</b>	240V AC 50Hz sine wave supply.
<b>Power Backup</b>	Sealed rechargeable Sanyo lithium battery
<b>Rating</b>	80mA max per alarm
<b>Alarm sound</b>	85dB at 3m
<b>Low battery indication</b>	Sounds a chirp at 30-40 second intervals, in addition to red LED flashing
<b>Alarm duration</b>	As long as smoke is present, unit automatically resets when smoke clears
<b>Alarm indication</b>	Flashing red LED indicator. Memory latching for 7 minutes on initiating smoke alarm
<b>Temperature Range</b>	4°C to 38°C
<b>Humidity Range</b>	Up to 85% relative humidity (RH)
<b>Size</b>	102mm Wide x 80mm High. 26mm installed.
<b>Wiring</b>	Quick connect 4 pin plug
<b>LED</b>	Blue, power indicator Red, alarm indicator
<b>Warranty</b>	5 years
<b>Compliance</b>	Activfire approved and listed to AS3786: 1993. Australian standards certified product. Australian Electrical Authority Approval. C tick. Australian Design Patent 342090.

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silhouette



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## Flush Design Photoelectric Smoke Alarm

### Architectural and Engineering Specifications

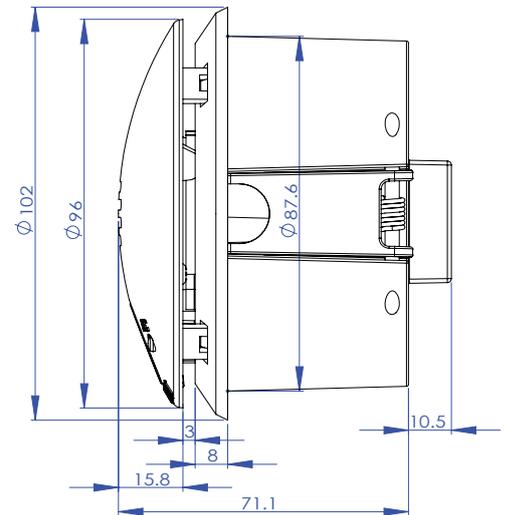
The smoke alarm shall be PSA Lifesaver model LIF5800RF or approved equal. It shall be powered by a 240VAC, 50Hz source along with a fixed rechargeable lithium battery backup. The unit shall incorporate photoelectric sensing technology with insect screen protection. The temperature operation range shall be between 40°F and 100°F (4.4°C and 37.8°C) and the humidity operating range shall be up to 85% relative humidity. The smoke alarm shall be low profile mounted designed with an installed dimension of 102mm wide x 26mm high. The electrical connection (to the alarm) shall be made with a plug-in connector. A maximum of 24 PSA Lifesaver devices can be interconnected in a multiple station arrangement.

The alarm shall include a test button that will electronically simulate the presence of smoke and cause the unit to go into alarm. This sequence tests the unit's electronics, battery and horn to ensure proper operation. The unit shall include a piezoelectric horn that is rated at 85 decibels at 3 metres. Single button operates both Hush and alarm test for easy operation and less confusion. The unit shall also include a low battery warning utilizing a brief alarm chirp every 40 seconds for a minimum of seven (7) days. The unit shall incorporate red and blue LED indicators. The blue LED indicates the status of the alarm. The red LED is a visual indicator of alarm and warning chirps.

Standby Condition: The blue LED will be lit if on AC power or off if on battery backup. Alarm Condition: When the alarm senses products of combustion and enters alarm the red LED will blink in unison with the sounder. The flashing red LEDs and pulsating alarm will continue until the air is cleared. Should the units is in an interconnected system, it will sound an alarm and flash the red LED and the blue LED will remain at its standby state. Alarm Memory: This smoke alarm is equipped with an alarm memory, which provides a visual indication when an alarm has been activated. The red LED will be lit on solid if the unit is the initiating alarm in an interconnected system. All other units will sound and the red LED flashes. Hush Mode: Pressing the Hush button will silence an activated smoke alarm. The smoke alarm will be desensitized to smoke for a period of 5 minutes and then auto resets. The Hush mode will be overridden if there is heavy presence of smoke particles in the air. The unit shall at a minimum meet the requirements of AS3786:1993 and is Activfire listed. It shall also include a 5-year manufacturer's limited warranty.

### Installation of Smoke Alarm

The PSA Lifesaver 5800RF is easy to install by drilling a 90mm hole into the plaster ceiling. The unit is fitted with spring toggle clips to secure the smoke alarm behind the ceiling. The unit is connected to the power using a supplied 4 pin power connector and a 50cm lead with terminal block for safe and easy installation.



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