



LIFESAVER 6000WIRM Wireless Interlink Relay Module User Manual

[Home](#) » [LIFESAVER](#) » LIFESAVER 6000WIRM Wireless Interlink Relay Module User Manual 

Contents

- [1 LIFESAVER 6000WIRM Wireless Interlink Relay Module](#)
- [2 Product Information](#)
- [3 Product Features And Specifications](#)
- [4 Operational Features](#)
 - [4.1 LED indication](#)
- [5 Installation Instructions](#)
- [6 Activation and RF Interlink Network](#)
- [7 Warranty and Liability](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)

LIFESAVER

LIFESAVER 6000WIRM Wireless Interlink Relay Module



Product Information

The Wireless Interlink Relay Module Model 6000WIRM is a product designed for use with the LIFESAVER range of smoke alarms and ancillary products. It is an AC mains powered module with a rechargeable battery backup.

- **Part Number:** LIF6000WIRM

Product Features And Specifications:

- Wireless interconnect: up to 24 units
- Compatible models for wireless interconnect: LIF6000WB, LIF6000DCW, LIF6000THL
- Hardwire interconnect: up to 12 units
- Compatible models for hardwire interconnect: LIF5800ACF, LIFCO240, LIF6000/RL, LIFHA240
- Isolation Relay with Normally Closed (NC) and Normally Open (NO) change over contacts
- LED indicators (Red and Green)

Operational Features:

The Lifesaver 6000WIRM is a mains powered wireless interlink module that allows hard wired Lifesaver smoke alarms to be connected to a wireless network. The built-in relay can be activated when smoke alarms or devices are activated. The module is fitted with a rechargeable backup battery. The unit is designed to be mounted on the ceiling or wall.

Installation Instructions:

1. Disconnect mains power before commencing work.
2. Remove the cover to access wire connections.
3. Mount the base plate on the desired location (ceiling or wall).
4. Wire the cables into the appropriate terminals and turn ON the battery switch.

5. Tighten terminal screws to 0.8 N.m max.
6. Re-install the module cover.

Wiring Instructions:

The wireless interlink relay module can be used to signal compatible Lifesaver equipment or activate auxiliary warning devices. It provides isolated, normally open, and normally closed contacts. Ensure that the alarm and relay module wiring installation complies with relevant building regulations and codes of practice.

WARNING:

This product cannot be operated from power derived from a square wave, modified square wave, or modified sine wave inverter. These types of inverters can produce high peak voltages that may damage the device.

Wireless Interlink and Relay Module for LIFESAVER range of smoke alarms and ancillary products. This product is AC mains powered with rechargeable battery backup.

Product Features And Specifications

- **Electrical rating:** 240 V AC 50Hz with 2 X 3V rechargeable battery back up
- **Relay contacts rating:** 240VAC/30VDC 5A.
- **Low Battery:** The red LED flashes once every 30 seconds.
- Multi-purpose green and red LEDs indicate the module is connected to the AC supply, is working normally and wireless link status.
- Link button is used to interconnect wirelessly, and test.
- **Wireless Radio Frequency:** 918 MHz
- Wireless range of < 100 meters in open air (Line of sight)
- **Wireless Interconnect:** up to 24 units
- The module can be interconnected through hardwire or wirelessly
- **Hardwire Interconnect Alarms:** Up to any combination of 12 other non-wireless alarms.
- **Operating Temperature Range:** 0°C to 40°C
- **Selectable relay options:** (1) Smoke Alarm Latching, (2) Smoke Alarm Pulse, or (3) CO latching.
- **Battery Life:** At least 3 days as backup power (without alarms).
- Approved to AS/NZS 4268:2017
- Approved to AS/NZS CISPR 32:2015 AMD 1:2020
- Approved to AS/NZS 62368.1:2018

Operational Features

The Lifesaver 6000WIRM is a mains powered wireless interlink module that allows hard wired Lifesaver smoke alarms to be connected to a wireless network. The built-in relay can be activated when smoke alarms or devices are activated. The module is fitted with a rechargeable backup battery.

The unit is designed to be mounted on the ceiling or wall.

Wireless interconnect: up to 24 units, compatible models:

LIF6000WB, LIF6000DCW, LIF6000THL

Hardwire interconnect up to 12 units, compatible models:

LIF5800ACF, LIFCO240, LIF6000/RL, LIFHA240

The Isolation Relay provides a set of Normally Closed (NC) and Normally Open (NO) change over contacts. This enables smoke alarms to trigger auxiliary devices such as strobe lights, sirens, bells, burglar and fire alarm panels, activate emergency lights, shut down air conditioners or release magnetic door holders.

This isolation relay has 3 selectable modes of operation.

Select the mode of operation using the selector switch(See Figure 1).

- **CO Relay(CO):**
 - When CO relay is selected, the relay will latch only when CO alarm is in alarm condition.
- **SM latching Relay(SM-C):**
 - Relay stay latched or continuously activated while smoke and /or heat alarm in alarm condition
- **SM Pulse Relay(SM-P):**
 - Relay activate momentarily for 2 seconds when the smoke and /or heat alarm in alarm condition

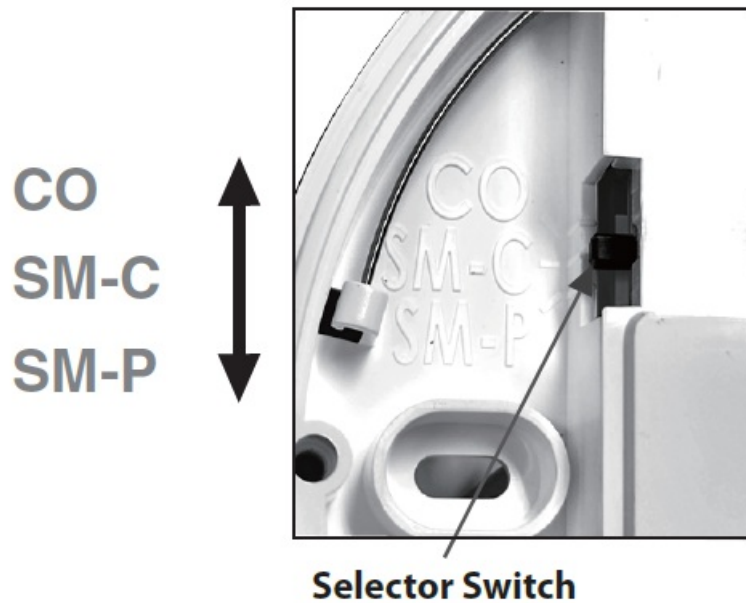


Figure 1

LED indication

- There are two LED indicators. Each of them has a unique function:
- This relay module has two LED indicators (Red and Green).

The LEDs indicate the following:

Green

- ON – AC Power is Present
- OFF – AC Power is not Present

Red

- LED flashes one second ON and one second OFF : Out of box, searching for network, ready to join or create a new network.
- Two quick LED flashes every 2 seconds : CRD – Unit is set as Master

- Three quick flashes every 2 seconds: RFD – Unit is set as Slave
- LED blinks four times twice: Unit is in general reset condition and is now in stand-alone mode
- LED flashes every 2 seconds: Indicates loss of wireless interconnection.
- LED flashes every 30 seconds: Indicates low battery

Installation Instructions

The wireless relay module must be on a circuit breaker and be installed in a suitable location such as the ceiling or wall. Refer to the local building regulations and codes of practice.

Disconnect mains power before commencing work.

- Remove cover (cover screws) to allow access to wire connections. See Figure 2.
 - Use a small screw driver to open the cover.
 - **Please note:** The cover is clipped into place and can only be closed in one direction.

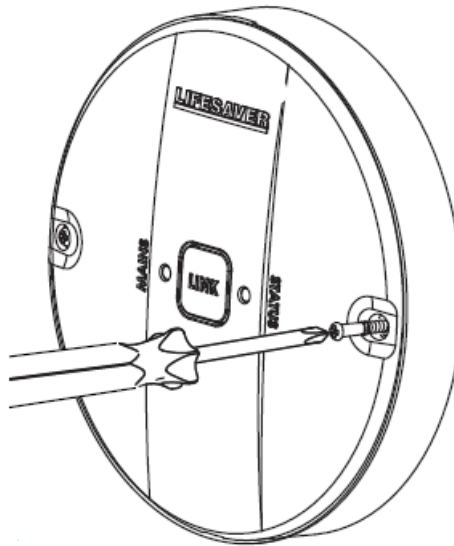
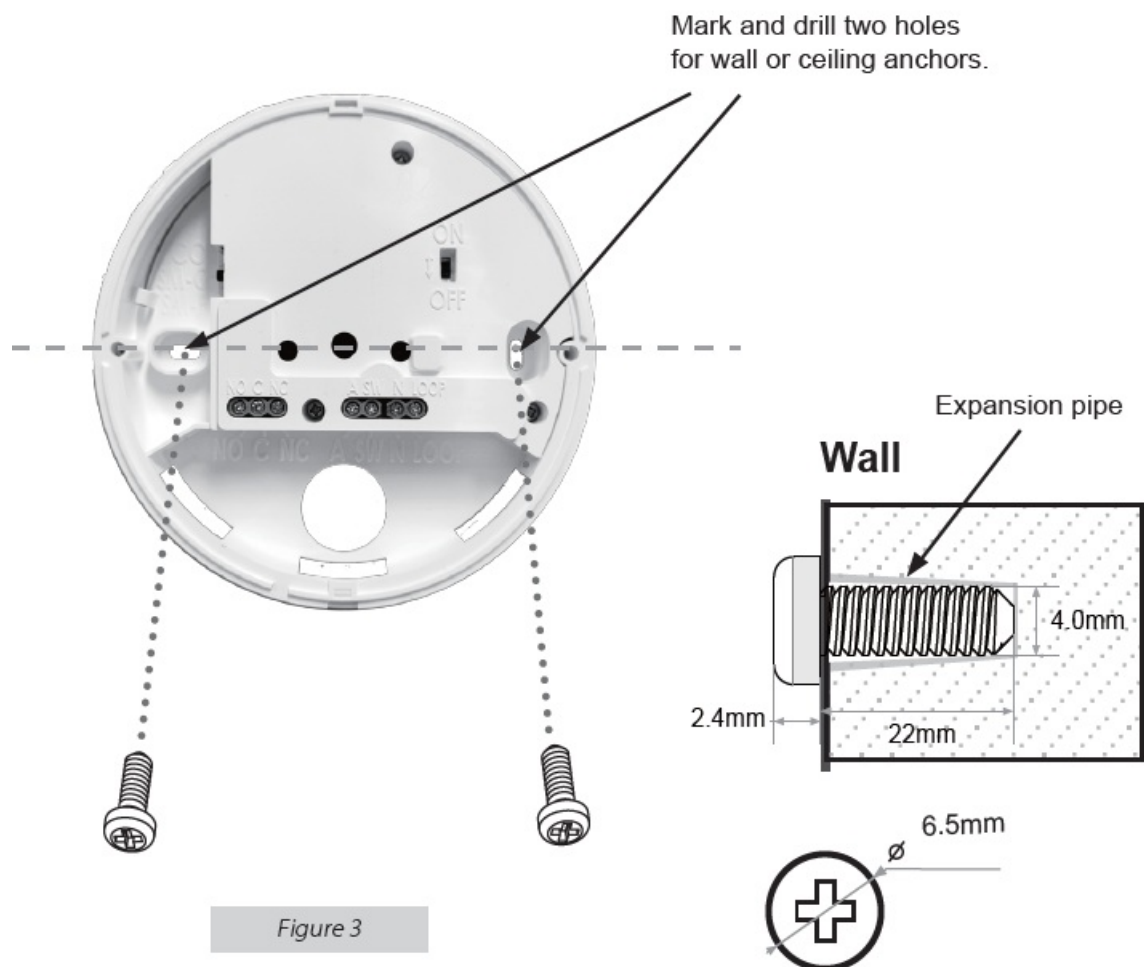
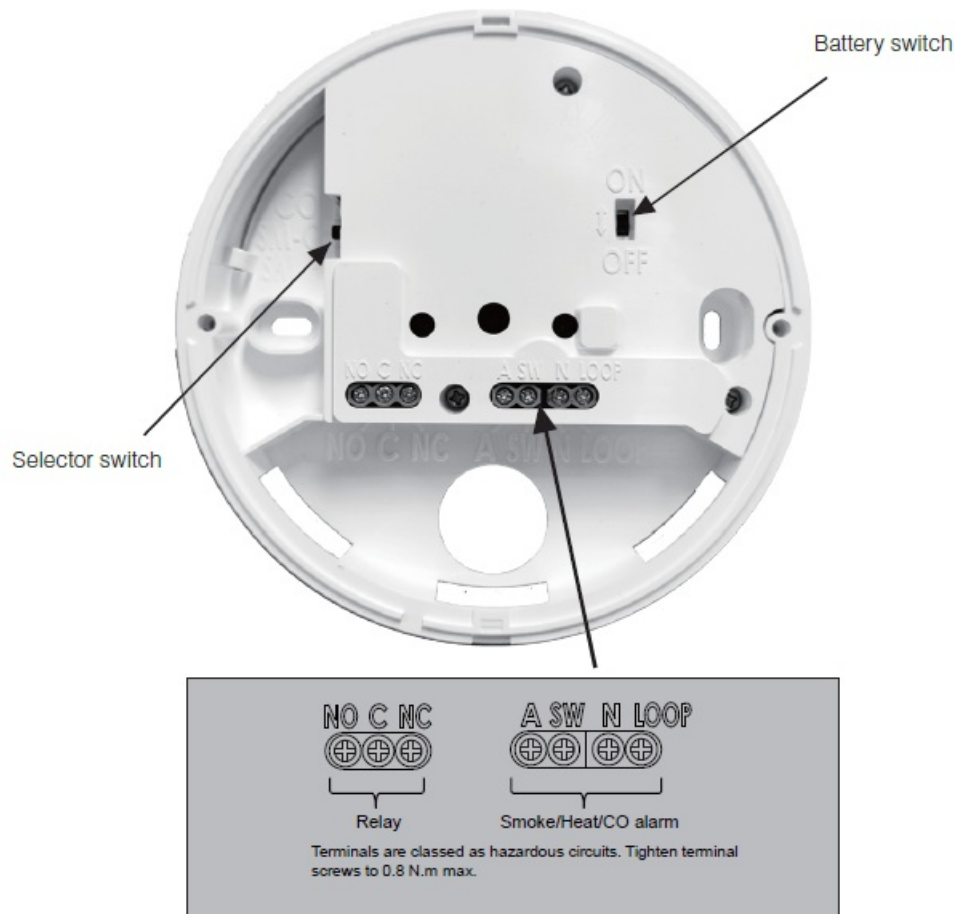


Figure 2

- Mount base plate on proper location.



- Wire the cables into the appropriate terminals. Then turn ON the battery switch.



- After the cables are connected, re-install the module cover. See Figure 5 below.

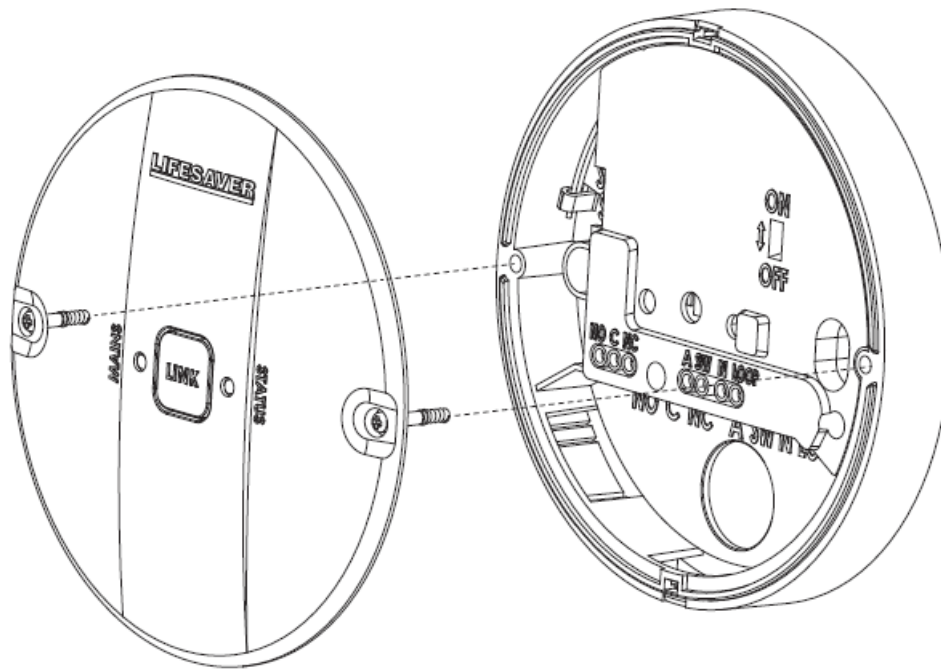


Figure 5

Wiring Instructions

The wireless interlink relay module can be used for signalling compatible Lifesaver equipment or to activate auxiliary warning devices such as external bells and sirens, hallway or stairwell lighting. It provides isolated (no internal connection to 240 volts AC), normally open, and normally closed contacts.

WARNING!

Alarm and relay module wiring installation must comply with the current edition of AS3000 and Wiring Regulations and all appropriate prevailing local regional / national building regulations / codes of practice.

To be installed by a qualified electrician.

Failure to install this product correctly may expose the user to electric shock or fire risk hazards. This relay module is not rated as waterproof and must not be exposed to dripping or splashing water. The relay module must be installed correctly in order to function. The electrical circuit used to power the alarms and the relay module must be 240 volt AC 50Hz. This relay module has a rechargeable battery backup to allow it to function in the event of mains power outage.

WARNING:

This product cannot be operated from power derived from a square wave, modified square wave or modified sine wave inverter. These type of inverters are sometimes used to supply power to the structure in 'off grid' installations, such as solar or wind derived power sources. These power sources produce high peak voltages that can damage the device.

IMPORTANT:

Whenever alarms and relay modules are interconnected they must be powered on a single circuit. It is recommended to connect the module and alarms to a dedicated circuit that is separately electrically protected. This helps minimise interference (EMI) on alarm interconnect line from CFL's, dimmers, LV transformers etc.

- This 6000WIRM relay module will not detect smoke or heat and must be installed in conjunction with the

specified alarms. Only connect to the specified models of smoke or heat alarm. Do not connect to any other brand of alarm/auxiliary device unless approved by PSA.

- The earth terminal connection provided is for termination purposes only and is NOT electrically connected within the sealed alarm / base units.

WARNING: THIS WIRELESS MODULE MUST BE INSTALLED BY QUALIFIED (LICENSED) ELECTRICIANS ONLY.

- In the interests of safety, this wireless module and all wiring must be installed by a licensed electrician in accordance with the relevant requirements of the SAA Wiring Rules – AS3000.
- This wireless module can only interconnect with compatible smoke alarms. Interconnection with other brands may cause damage, result in electric shock, fire risk and void warranty.
- It is important that the alarm be wired correctly to ensure correct operation. Incorrect wiring to the Smoke Alarm will damage the unit and void the warranty.
- Terminals on the module are marked as follows:

MARKINGS

NO	Normally Open	}	Relay (select settings page 3)
C	Common		
NC	Normally Closed		
A	ACTIVE	}	Smoke/Heat/CO alarm
SW	SWITCH WIRE (FOR INTERCONNECTION ONLY)		
N	NEUTRAL		
LOOP	DEAD TERMINAL		

WARNING:

Connecting the Switch wire terminal to any other supply conductor may result in damage to the alarm, failure to operate or shock hazard and void the warranty of the alarm.

RELAY OPERATION

The wireless relay may take a few seconds to operate when the smoke alarm or carbon monoxide alarm is activated. This is due to the time to receive the wireless signal. Conversely, when the smoke alarm or carbon monoxide deactivates, the relay may take a few seconds to deactivate.

The wiring connecting the module with the external device is not supervised. Be sure to test the operation of all the devices controlling the module or controlled by the module. Devices controlled by the module can be tested by pushing the Link button on the relay and verifying that the controlled device responds in the desired manner. Devices controlling the module can be tested by activating the device and verifying that all of the interconnected alarms enter into alarm.

Connecting to Auxiliary Devices, see Figure 6.

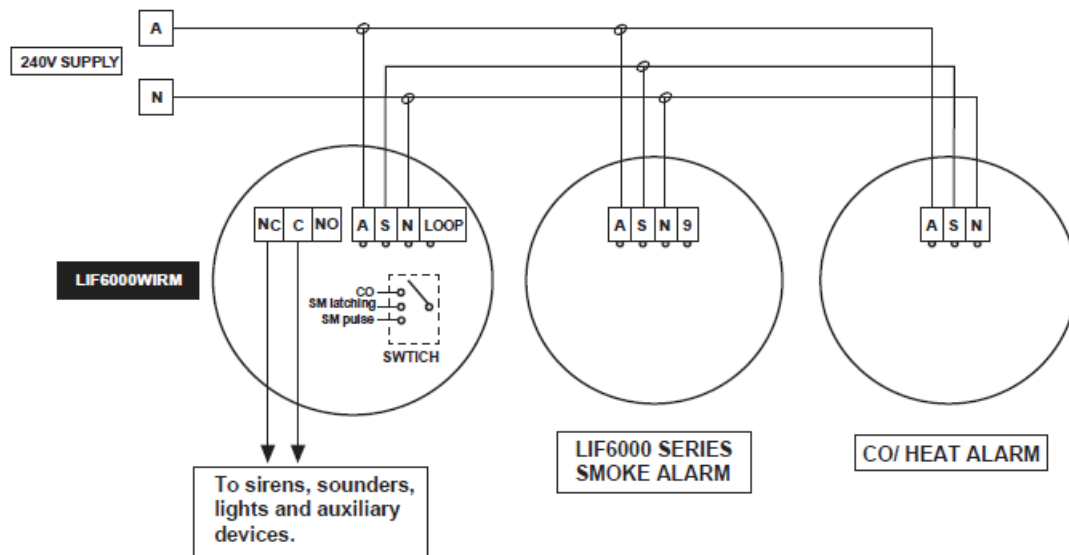


Figure 6

By installing the LIF6000WIRM in this manner it will allow you to operate devices such as sirens, strobes, bells, lights, air conditioners or any devices which do not exceed 240VAC @ 5 Amps.

Connect all the wireless devices using only the Active & Neutral lines. Do not connect to the SW terminal. See Figure 7 below.

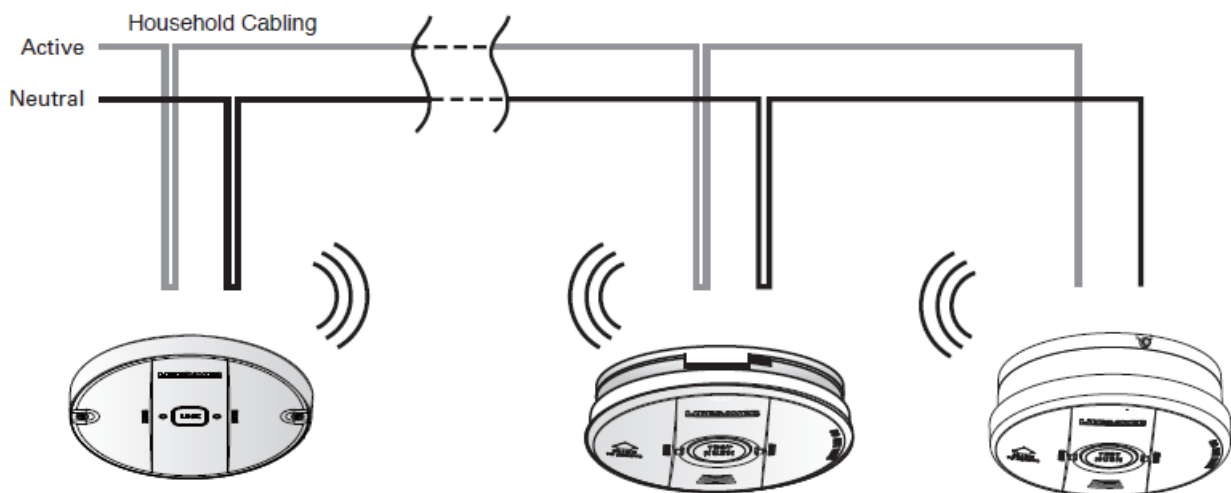


Figure 7

To connect a hardwired device such as a heat alarm to a wireless network, install the wireless module onto the heat alarms. See Figure 8.

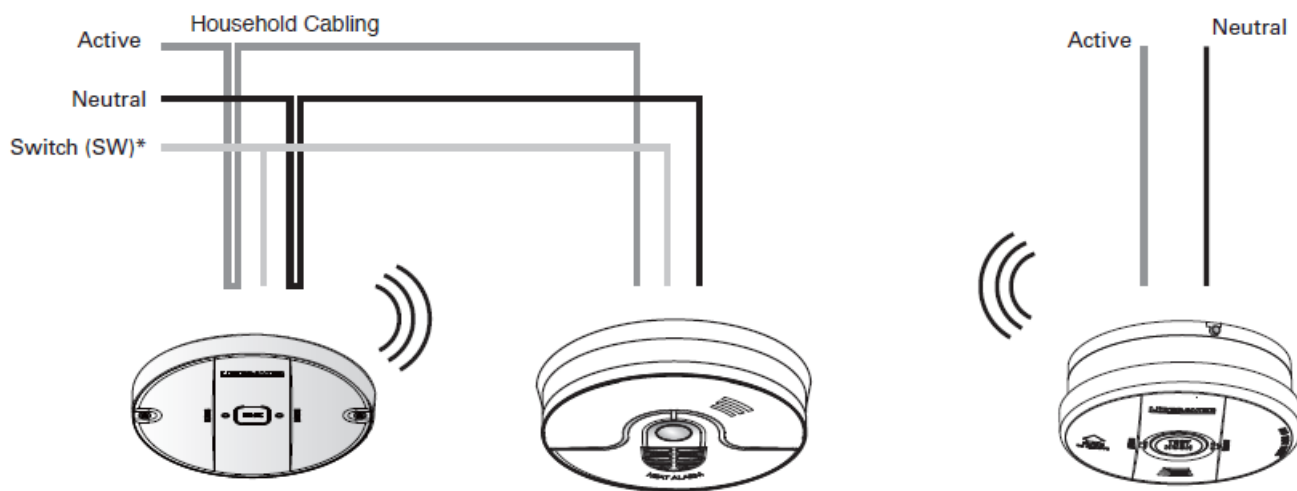


Figure 8

Activation and RF Interlink Network

Setting Up(6000WIRM) an RF Interlink Network

For easy first time setup, we recommend unpacking all the units together on a desk or counter. Regarding 6000WIRM relay module please refer to below steps table.

	User Input	Detector Response	Timeout
Step 1	Unpack all units and power up the units on backup battery.	Flash one second ON one second OFF	Searching network
Step 2	Create a network & Join mode (Set device as CRD). The unit will automatically search for other wireless devices.	Two quick flashes every 2 seconds.	Join Mode will timeout in 15 minutes
Step 3	Connect other wireless devices and activate join mode to create a network.	Connected devices will blink 3 times when connected as RFD.	<ul style="list-style-type: none"> – Network should be open and in join mode. – Join Mode will timeout in 15 minutes.
Step 4	Close the network, press the LINK button twice on cover.	All LEDs are Off	The unit will enter Standby Mode.

Adding A Device (6000WIRM) To An Existing RF Interlink Network

At some point, you might want to add another unit to your existing RF interlink network. Follow the steps in the following table.

	User Input	Detector Response	Timeout
Step 1	Press the LINK button twice on any existing unit to open the network.	Unit will respond with two quick flashes every 2 seconds if it is the Coordinator of the Network; Three quick flashes every 2 seconds if it is a RFD in the Network – Join Mode is open.	– All devices interconnected will turn ON LED – Join mode will be open – Join Mode will timeout in 15 minutes
Step 2	Connect the 6000WIRM and turn on the module.	Unit will flash one second ON and one second OFF. Unit will automatically join the network. And if successful, its Red LED will flash three times every 2 seconds. This indicates it is configured (as a RFD) in the network.	Join Mode will timeout in 15 minutes after last unit joins.
Step 3	Single press.	Number of blinks corresponds to number of connected wireless devices.	– Network should be open and in join mode. – Join Mode will timeout in 15 minutes.
Step 4	Close the network, press the LINK button twice on cover.	OFF	The unit was transfer to standby mode.

Resetting The Wireless Connection

This section explains how to perform a general reset on a 6000WIRM unit. This restores the unit to when it was first powered up. This procedure can also remove a 6000WIRM from a network.

Follow the steps below to resolve any of these situations:

- If you have problems connecting the 6000WIRM to a wireless network. Or if the network configuration has become confused.
- If a 6000WIRM is consistently out of range, and needs to be removed from the wireless network.
- If you decide to transfer a 6000WIRM from your network to another wireless network (eg. at your friend's or family's place).

	User Input	Detector Response	Timeout
Step 1	Press the LINK button twice on any existing 6000WIRM (or other wireless smoke alarm) unit.	The unit will enter Join Mode and flash its Red LED either: (1) Twice every 2 seconds – denotes Coordinator (2) Three times every 2 seconds – denotes RFD OR (3) 1 second ON, then 1 second OFF – denotes Network Search.	
Step 2	Press and hold its LINK button for at least 4 seconds to reset the 6000WIRM unit.	The Red LED will blink four times, which is repeated, to indicate the unit has been reset. It is now in standalone mode, and will not be part of any network until its LINK button is pressed twice to re-enter Join Mode.	
Step 3	Press the LINK button twice on any other wireless unit to close the Join Mode.	Red LED on each unit will power off indicating Standby Mode	
Step 4	To re-join a network, please start over with Section 4.2 If any issues occur, please call PSA Technical Support.		

Warranty and Liability

PSA Products Pty Ltd (ABN: 99 076 468 703) of 17 Millicent Street, Burwood 3125 Victoria, Australia warrants this product for a period of 2 years from the date of purchase, as reflected on the Authorised Reseller's or Distributor's invoice / receipt provided to you. PSA Products Pty Ltd will repair or replace the product (at the option of PSA Products) due to any manufacturing defect, at the cost of PSA Products Pty Ltd (excluding any labour costs relating to removal or re-installation of product, and transport costs).

This warranty shall not apply to the product if it has been damaged, modified, abused or altered after the date of purchase, or if it fails to operate due to improper maintenance. To the extent permitted by law, the liability of PSA Products Pty Ltd arising from the sale or under the terms of this limited warranty shall not in any case exceed the cost of replacement and subject to this clause. In no case shall PSA Products Pty Ltd be liable for consequential loss or damages resulting from the failure of the product or breach of this, or: Any other warranty, express or implied, loss or damage caused by failure to abide by the instructions supplied in the leaflets.


To the extent permitted by law, PSA Products Pty Ltd., makes no warranty, expressed or implied, written or oral, including that of merchantability or fitness for any particular purpose, with respect to the consumer replaceable battery if any. This warranty is provided in addition to other rights and remedies you have under law:

- Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. What constitutes a major failure is set out in the Australian Consumer Law.
- To make a claim under warranty, take the product (with a proof of purchase) to the store where you purchased the product or contact PSA Products Pty Ltd. Phone (03) 9888 9889. or Email: enquiry@psaproducts.com.au with details, proof of purchase or expense claim in writing.

Another Quality Product by:

- 17 Millicent Street, Burwood Victoria 3125 Australia
- **Telephone:** (03) 9888 9889
- **e-mail:** enquiry@psaproducts.com.au.
- **web-site:** www.psaproducts.com.au.

Documents / Resources

	<p>LIFESAVER 6000WIRM Wireless Interlink Relay Module [pdf] User Manual 6000WIRM, LIF6000WIRM, 6000WIRM Wireless Interlink Relay Module, Wireless Interlink Relay Module, Interlink Relay Module, Relay Module</p>
---	--

References

-  [Home - PSA Products](#)