

## The Sealite Advantage

- Synchronisation of flashing SL125 lanterns to clearly mark channels and entrances
- No limitations on distance or objects between lanterns
- Inbuilt, allowing for easy installation and IP68 rating for water immersion
- 256 IALA flash characteristics and 4 intensity settings, user adjustable

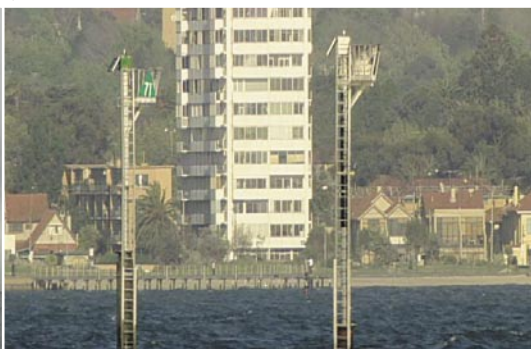
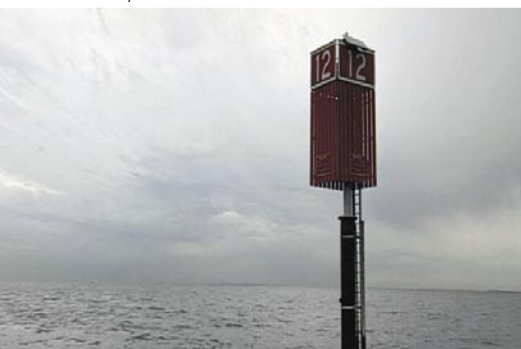
## Utilising latest advancements in GPS technology, Sealite has developed an internal synchronisation system for the popular SL125 5-7 nautical mile range of lanterns.

The SL125-GPS beacon provides the user with the ability to mark a channel, port or river with independently operating lanterns that all flash in synchronisation. This presents a clear outline of the channel each time the lanterns flash, and is particularly effective in overcoming background lighting.

With advances in electronics, Sealite has been able to produce a light that incorporates a Global Positioning System (GPS) receiver. No additional power supplies, aerials or control systems are required. The SL125-GPS is a microprocessor-based system that has been designed to provide maximum reliability and performance of the beacon over a wide range of environmental conditions.

Using overhead satellites, multiple SL125 units set to the same flash pattern will synchronise anywhere in the world.

Synchronised SL125-GPS lanterns, Port of Melbourne, Australia



**Head Office:**  
Sealite Pty Ltd  
AUSTRALIA

Ph. +61 3 5977 6128  
Fax. +61 3 5977 6124  
Internet: [www.sealite.com.au](http://www.sealite.com.au)  
Email: [info@sealite.com.au](mailto:info@sealite.com.au)

USA Customers;  
Sealite USA  
USA (Gifford, NH)

Ph. (603) 524-6066  
Fax. (603) 524-8100  
Internet: [www.sealiteusa.com](http://www.sealiteusa.com)  
Email: [info@sealiteusa.com](mailto:info@sealiteusa.com)

# SL125-GPS Synchronised LED Lantern

## SeaFlare™ Technology

The inbuilt GPS receiver and advanced software of the Sealite synchronised lanterns allow for the adoption of SeaFlare™ channel marking - a unique system that cascades the synchronisation of channel lanterns in a uni or bi-directional flash pattern.

In Australia, the Port of Melbourne Corporation has adopted this technology from Sealite to clearly identify the channel leading into Station Pier - an area that regularly accommodates some of the world's largest passenger vessels including the QE2.

The neighbouring Port of Geelong utilise this technology to safely guide Aframax Tankers among other large sized vessels into harbour.

**Call Sealite for a free DVD documentary of the GPS synchronised lanterns in operation.**

## How does it work?

Synchronisation is achieved using an internal algorithm based on the highly accurate time base and time data received from the satellites. The satellite data is provided from a number of earth stations using atomic clocks as the time base.

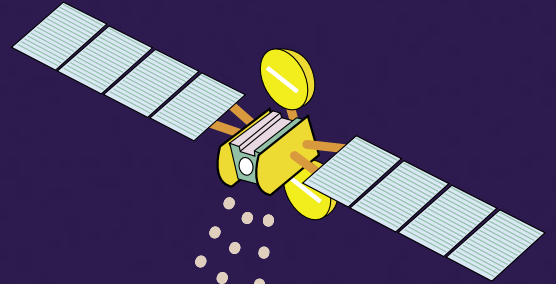
At power-up the microprocessor checks that the internal GPS module is programmed correctly and is able to provide valid time base and time data.

The light then checks for day/night. If it is daylight the internal microprocessor will go to idle mode after approximately 10 seconds. This reduces the overall power consumption when the light is not required.

Each light operates independently and requires no operator intervention.

Three (3) satellites need to be in view for the built-in GPS receiver to collect time data.

At dusk the light sensor will turn the light on. If time data is available the light will come on synchronised to every other light with the same selected flash code.



**Head Office:**  
Sealite Pty Ltd  
AUSTRALIA

Ph. +61 3 5977 6128  
Fax. +61 3 5977 6124  
Internet: [www.sealite.com.au](http://www.sealite.com.au)  
Email: [info@sealite.com.au](mailto:info@sealite.com.au)

USA Customers;  
Sealite USA  
USA (Gilford, NH)

Ph. (603) 524-6066  
Fax. (603) 524-8100  
Internet: [www.sealiteusa.com](http://www.sealiteusa.com)  
Email: [info@sealiteusa.com](mailto:info@sealiteusa.com)

