SL-B1060 Spar Buoy

Regulatory and Channel/Navigation Markers

Exhibit 21

Sealite's SL-B1060 Buoy is rotationally-molded in one piece using UV-stabilized polyethylene making them almost indestructible. The buoy is completely foam filled for added strength and buoyancy.

An internal concrete counterweight gives the buoy a lower center of gravity, so the buoy is able to stand more upright on station.

The USCG approved optional, retroreflective bands provide unmatched night time visibility on the regulatory style. The SL-B1060 buoy can be fitted with an SL-15 or SL-60 solar marine lantern for added visibility at night or in foul weather.

Vinyl wraps and decal restoration kits are also available to repurpose existing regulatory style buoys (see back).

- Made from heavy duty one piece, UV-stabilized polyethylene
- Self-righting
- Foam filled with closed-cell polyurethane
- Concrete counterweight for upright performance
- Anchor point recessed in base

Above:
SL-B1060 is available in green can and red nun styles for channel marking configurations (shown in region B colors). Nun shown with optional solar marine lantern and retroreflective tape.

Above:
Integrated stainless steel mooring eye and recessed anchor point allow buoys to stand upright when stored

Features
- Molded from strong, durable UV-stabilized polyethylene
- Recessed anchor point for upright and convenient storage
- Easy mounting of solar marine lanterns
- Regulatory signage available

Cost Effective
- Withstand heavy UV exposure - no peeling or fading

Flexible Configurations
- Channel markers - red or green
- Regulatory buoy - white with orange stripes

Optional
- Mold-in graphics
- Mooring equipment & chains
- Vinyl decal restoration kits and wraps to refurbish or repurpose existing buoys

Applications
- Navigation channels, harbor approaches and port entrances
- Regulatory marking of hazards, mooring fields, cautionary zones

Certifications
- Meets U.S federal, state and local regulations
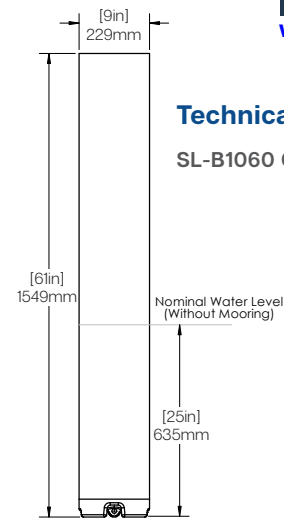
Reliable
- Excellent buoyancy & stability

Technical Specifications*

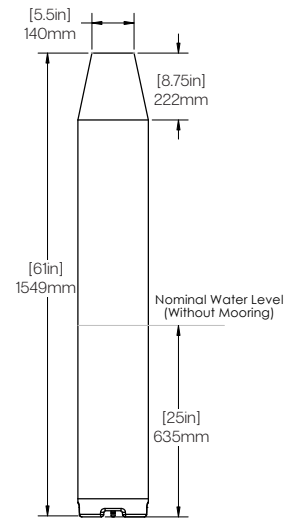| SL-B1060 Buoy	
General Characteristics	
Available Colors	Red, Green, White, Yellow, Orange
Nominal Freeboard (in/mm)	36 (914)
Nominal Draft (in/mm)	25 (635)
Maximum Mooring Load (lb/kg)	12 (5)
Submergence (lb/in, kg/cm)	3 (0.5)
Physical Characteristics	
Material	Rotationally-molded UV-stabilized virgin polyethylene with 316-grade stainless steel mooring eye
Wall Thickness (in/mm)	0.2 (5)
Filling	Closed-cell polyurethane foam
Height (in/mm)	61 (1549)
Net Weight (lb/kg)	63 (29)
Product Life Expectancy	12+ years
Certifications	
Quality Assurance	ISO9001:2015
Intellectual Property	
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty	1 year
Lantern Options	Sealite SL-15 or SL-60*
Options Available	• Custom signage • Vinyl wraps • Reflective band

**The SL-B1060 Nun buoy requires a mounting plate (SL-MC-10) for the SL-60 Lantern.
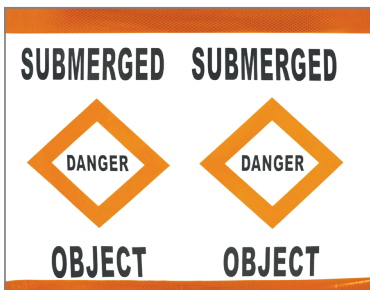
Technical Illustration

SL-B1060 Can Buoy Dimensions
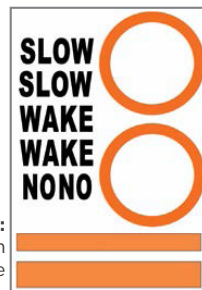

SL-B1060 Nun Buoy Dimensions

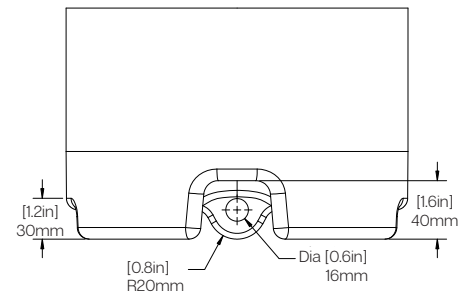| Regulatory Wraps & Restoration Kits		
	Vinyl Wrap Kit (Part No.: SL-BWRAP1060)	**Decal Restoration Kit**
Material	Two USCG approved retroreflective orange bands, regulatory black messages, and orange symbols on heavy-duty white vinyl material	Two each: retroreflective orange bands, regulatory black messages, and orange symbols
Options	Custom graphics or logo Silver retroreflective band	Custom graphics or logo Silver retroreflective band

Left:
Vinyl Wrap Kit example

Right:
Decal Restoration Kit example

SL-B1060 Bottom Eye Dimensions
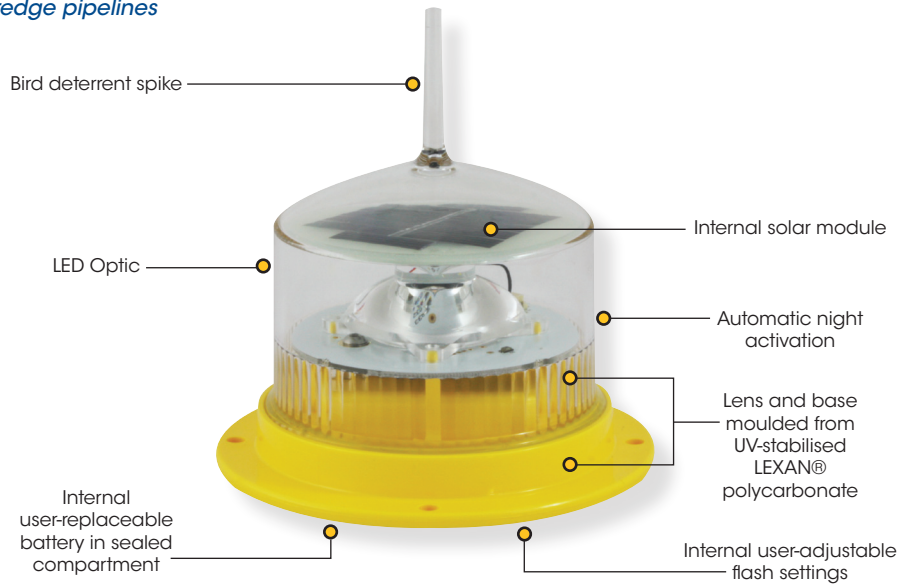
We believe technology improves navigation™

SL-B1060_DATA_EN_V1-0

1–2NM+ Solar Marine Lantern

SL-15

The equipment complies with requirements of the U.S Coast Guard in 33 CFR part 66 for private aid to navigation and 33 CFR part 88.15 for lights on dredge pipelines

IR Programmer

Bird deterrent spike

LED Optic

Internal solar module

Automatic night activation

Lens and base moulded from UV-stabilised LEXAN® polycarbonate

Internal user-replaceable battery in sealed compartment

Internal user-adjustable flash settings

The Sealite Advantage

- **User-adjustable flash characters**
- **User-replaceable battery in sealed battery compartment**
- **NiMH battery for long service life & wide temperature range**
- **Completely sealed & self-contained using advanced UV-sealing**
- **Installs in minutes & operates maintenance-free for up to five years**
- **IP68 waterproof**

The Sealite SL-15 1–2NM+ compact LED light is exceptional value and incorporates some of the most advanced technology available. In the tradition of Sealite lanterns, the SL-15 is designed to be maintenance-free and have a service life of over 5 years.

The SL-15 can be installed in minutes and requires no operator intervention. The SL-15 has a rotary switch to allow users to change the flash character of the light without the need for special tools or programmers.

During daylight hours the solar module will charge the battery, and the lantern will automatically begin operation at dusk – once the ambient light threshold drops sufficiently.

The SL-15 features Sealite's Single LED Optic which boasts exceptional power to light output efficiency. The tough outer polycarbonate lens incorporates an environment-friendly spike – deterring unwelcome bird life.

The internally housed battery is user-replaceable after years of reliable service.

The unit is sealed using advanced UV-sealing, enabling a rugged and complete waterproof seal capable of prolonged and deep immersion (IP68).
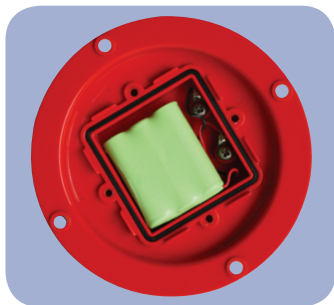
Optional ON/OFF Switch

The SL-15 is also available with an optional ON/OFF switch for temporary installations such as worksites. Please note the printed circuit board also has an ON/OFF switch as standard. This is used for switching off lanterns placed in storage.
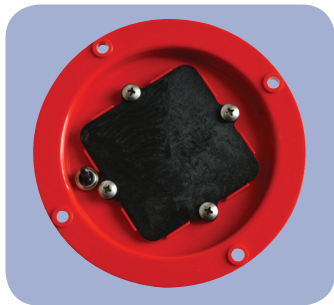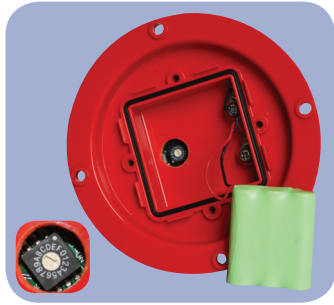
1–2NM+ Solar Marine Lantern
SL-15

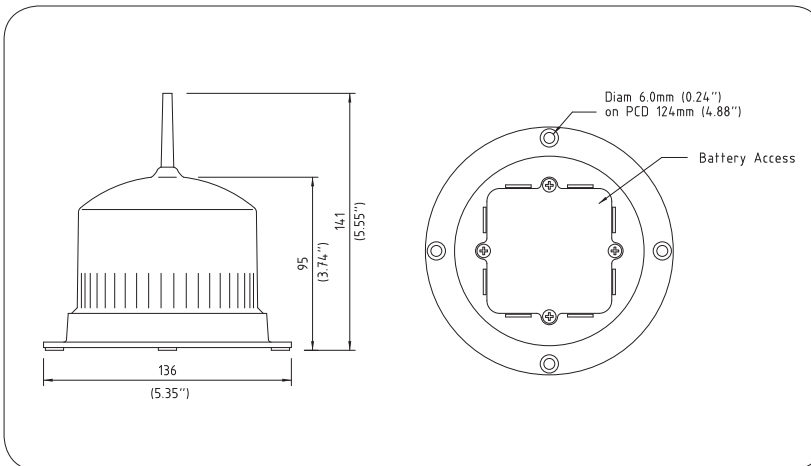User-replaceable battery

SL-15 with optional ON/OFF switch

Flash characteristic is selected via internal rotary switch located in the battery compartment

Diam 6.0mm (0.24") on PCD 124mm (4.88")

Battery Access

User-Adjustable IALA Flash Characteristics

FLASH SETTING CODE	Flash Sequence (on, off, on...)
0	STEADY LIGHT (intensity reduced)
1	0.5, 1.0
2	0.5, 3.5
3	1.0, 3.0
4	0.5, 5.5
5	0.3, 0.7
6	0.3, 0.7, 0.3, 0.7, 0.3, 0.7, 0.3, 15.7
7	0.3, 1.7
8	0.3, 2.2
9	0.5, 2.0
A	0.3, 2.7
B	0.5, 2.5
C	0.7, 2.3
D	0.5, 4.5
E	1.0, 4.0
F	Custom Setting

Other flash patterns are available on request

SPECIFICATIONS • *   SL-15

Light Characteristics
Light Source	LED
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd)†	Red - 6.2 Green - 7.6 White - 6.8 Yellow - 5.9
Visible Range (NM)	AT @ 0.74: 1–2+ AT @ 0.85: 1.1–2.3+
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	7
Reflector Type	Single LED Optic
Available Flash Characteristics	16 user-adjustable IALA flash characteristics (other flash patterns available on request)
Intensity Adjustments	32 automatic step-down settings based on power demand of flash code selection
LED Life Expectancy (hours)	>100,000

Electrical Characteristics
Current Draw (mA)	Refer to Sealite Power Calculator
Circuit Protection	Integrated
Nominal Voltage (V)	3.6
Autonomy (days)	>50 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C

Solar Characteristics
Solar Module Type	Multicrystalline
Output (watts)	0.45

Power Supply
Battery Type	High grade NiMH
Battery Capacity (Ah)	2.4
Nominal Voltage (V)	3.6

Physical Characteristics
Body Material	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	98 / 3$^7/_8$
Lens Design	Single LED Optic
Mounting	4 x 6mm mounting holes
Height (mm/inches)	141 / 5$^1/_2$
Width (mm/inches)	136 / 5$^3/_8$
Mass (kg/lbs)	0.5 / 1$^1/_8$
Product Life Expectancy	Up to 12 years ^

Certifications
CE	EN61000-6-1:2007. EN61000-6-3:2007
IALA	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO 9001:2015
Waterproof	IP68

Intellectual Property
Patents	US Pat. No. 6,667,582. AU Pat. No. 778,918
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd

Warranty *
3 years

Options Available
- ON/OFF switch
- Custom flash patterns
- 50mm pole mount adapter plate
- IR Remote Programmer

CE

- • Specifications subject to change or variation without notice
- * Subject to standard terms and conditions
- † Intensity setting subject to solar availability
- ^ Refer to the Sealite website under the warranty section