

SL-C410 / SL-C415

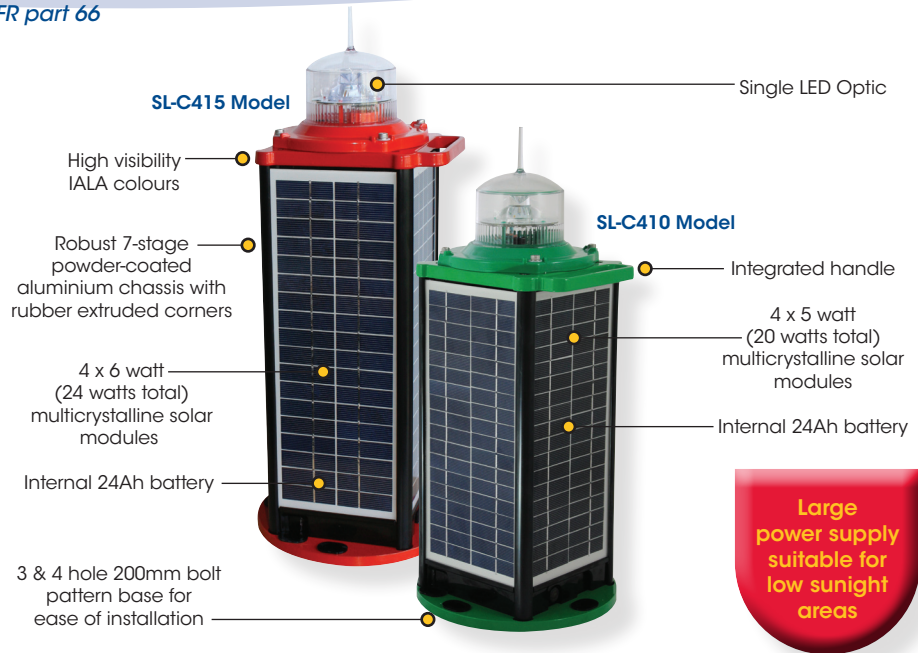
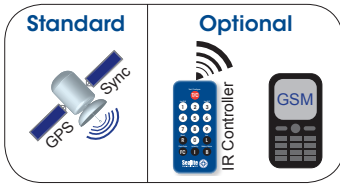
3-5NM+ Solar Marine Lanterns

V3_2014

This equipment complies with requirements of the U.S. Coast Guard in 33 CFR part 66

Next Generation

Single LED Optic ...
Brighter, more efficient



Large power supply suitable for low sunlight areas

The Sealite Advantage

- IR programmable
- Fitted with on-board GPS as standard for synchronised flashing
- Single, high powered LED for superior light output
- Simplicity of design ensures ease of maintenance in the field
- Heavy-duty aluminium construction
- All components user-replaceable in the unlikely event of damage
- 200mm bolt pattern for immediate installation on existing structures
- User-replaceable battery
- 256 IALA flash patterns
- IP68 waterproof
- 3 year warranty

The SL-C410 and SL-C415 are robust, completely self-contained 3-5NM+ Solar LED Lanterns specifically designed to withstand the tough marine environment, providing years of reliable, low-maintenance service. The 3 & 4 hole bolt pattern base fits directly onto existing 200mm bolt pattern industry standard mounts for ease of installation.

The SL-C410 and SL-C415 use the Sealite single-LED optic, and provide the highest power to light output ratio of any light in its class, making it brighter and more efficient. The light will provide up to 156cd (white) or up to 5NM visible range, in a small self-contained package.

The four (4) premium-grade solar modules are integrated into the assembly, and mounted to collect sunlight at all angles. The SL-C410 has a large power supply consisting of four 5 watt panels (20 watt total) and the SL-C415 has four 6 watt panels (24 watt total) making these models perfect for use in lower sunlight areas or where more demanding duty cycles are required.

The base and top of the lanterns are made from cast aluminium, subject to 7-stage powder-coating in high visibility IALA colours for daytime recognition, with UV-stabilised rubber corners and gaskets providing a superior IP68 waterproof rating – the best in the industry. A handle is incorporated into the chassis for safe lifting.

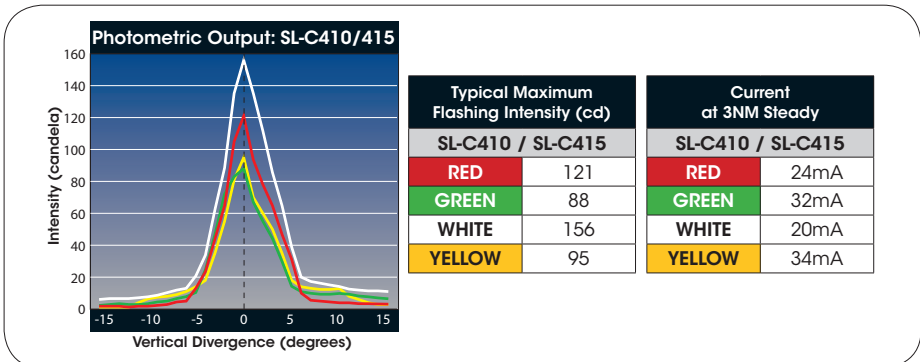
The tough, polycarbonate lens is specifically designed for use with LEDs and incorporates an environment-friendly spike – deterring unwelcome bird life. The lens design also ensures that vessel operators clearly see the light from above when passing the AtoN.

The SL-C410 and SL-C415 come with standard rotary switches for convenient in-field changes of flash characters and intensity selection. In addition, the unit may be provided with an IR programmer for added functionality. Programmable features include; flash code adjustment, battery diagnostics and lux adjustment.

GPS Synchronisation

Sealite has utilised the latest advancements in GPS technology to develop an internal synchronisation system that is incorporated into the SL-C410 lantern. Using overhead satellites, lights set to the same flash pattern will flash in unison.

When lanterns flash in synchronisation they can be clearly distinguished from other nav aids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.



SL-C410 / SL-C415

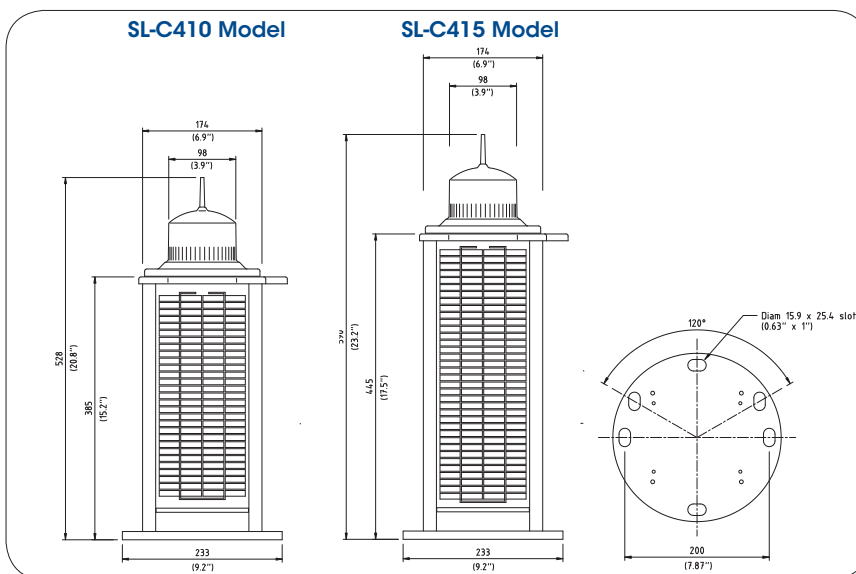
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Optional GSM Monitoring & Control System

The SL-C410 and SL-C415 may also be fitted with GSM Cell-Phone Monitoring and Control – enabling users to access real-time diagnostics data and change lantern settings via cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users can also have alarms and reports sent to designated email addresses.



SL-C410 model shown with optional GSM Module



SPECIFICATIONS* * SL-C410 SL-C415

Light Source	1 LED	1 LED
Available Colours	Red, Green, White, Yellow, Blue	Red, Green, White, Yellow, Blue
Typical Maximum Flashing Intensity (cd)†	Red - 121 Green - 88 White - 156 Yellow - 95	Red - 121 Green - 88 White - 156 Yellow - 95
Visible Range (NM)	3-5+	3-5+
Horizontal Output (degrees)	360	360
Vertical Divergence (degrees)	>7	>7
Available Flash Characteristics	Up to 256 IALA recommended (user adjustable)	Up to 256 IALA recommended (user adjustable)
Intensity Adjustments	Multiple intensity settings	Multiple intensity settings
LED Life Expectancy (hours)	>100,000	>100,000
Electrical Characteristics		
Night Off Current (Eclipse) (mA)	2.5	2.5
Day Off Current (mA)	0.6	0.6
Circuit Protection	Integrated	Integrated
Nominal Voltage (V)	12	12
Autonomy (nights)	>110 (14 hour darkness, 12.5% duty cycle)	>110 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C	-40 to 80°C
Solar Characteristics		
Solar Module Type	Multicrystalline	Multicrystalline
Output (watts)	20 (4 x 5 watt)	24 (4 x 6 watt)
Charging Regulation	Microprocessor controlled	Microprocessor controlled
Power Supply		
Battery Type	SLA (Sealed Lead Acid)	SLA (Sealed Lead Acid)
Battery Capacity (Ah)	24	24
Nominal Voltage (V)	12	12
Battery Service Life	Average 5 years	Average 5 years
Physical Characteristics		
Body Material	7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets	7-stage powder-coated aluminium chassis with UV-stabilised rubber corners & gaskets
Lens Material	LEXAN® Polycarbonate – UV-stabilised	LEXAN® Polycarbonate – UV-stabilised
Lens Diameter (mm/inches)	98 / 3 7/8	98 / 3 7/8
Lens Design	Single LED Optic	Single LED Optic
Mounting	3 & 4 hole 200mm bolt pattern	3 & 4 hole 200mm bolt pattern
Height (mm/inches)	528 / 20 3/4	590 / 23 1/4
Width (mm/inches)	233 / 9 1/5	233 / 9 1/5
Mass (kg/lbs)	13.9 / 30 1/2	14.6 / 32 1/4
Product Life Expectancy	Up to 12 years	Up to 12 years
Certifications		
CE	EN61000-6-3:1997. EN61000-6-1:1997	EN61000-6-3:1997. EN61000-6-1:1997
Quality Assurance	ISO9001:2008	ISO9001:2008
Waterproof	IP68	IP68
Intellectual Property		
Trademarks	SEALITE® is a registered trademark of Sealite Pty Ltd	SEALITE® is a registered trademark of Sealite Pty Ltd
Warranty* *	3 years	3 years
Options Available	<ul style="list-style-type: none"> • 50mm pole mount adapter plate • IR Controller • GSM Monitoring & Control System* • External ON/OFF Switch • External Battery Charging Port • GPS Synchronisation: enable/disable • 5° Lens • Higher current setting available for high sunlight regions 	<ul style="list-style-type: none"> • 50mm pole mount adapter plate • IR Controller • GSM Monitoring & Control System* • External ON/OFF Switch • External Battery Charging Port • GPS Synchronisation: enable/disable • 5° Lens • Higher current setting available for high sunlight regions

* Specifications subject to change or variation without notice
 * Subject to standard terms and conditions
 † Intensity setting subject to solar availability
 # Contact Sealite for solar sizing information to ensure suitability in your region

