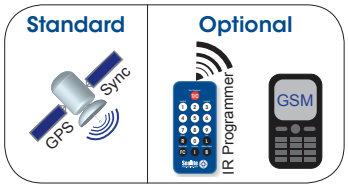
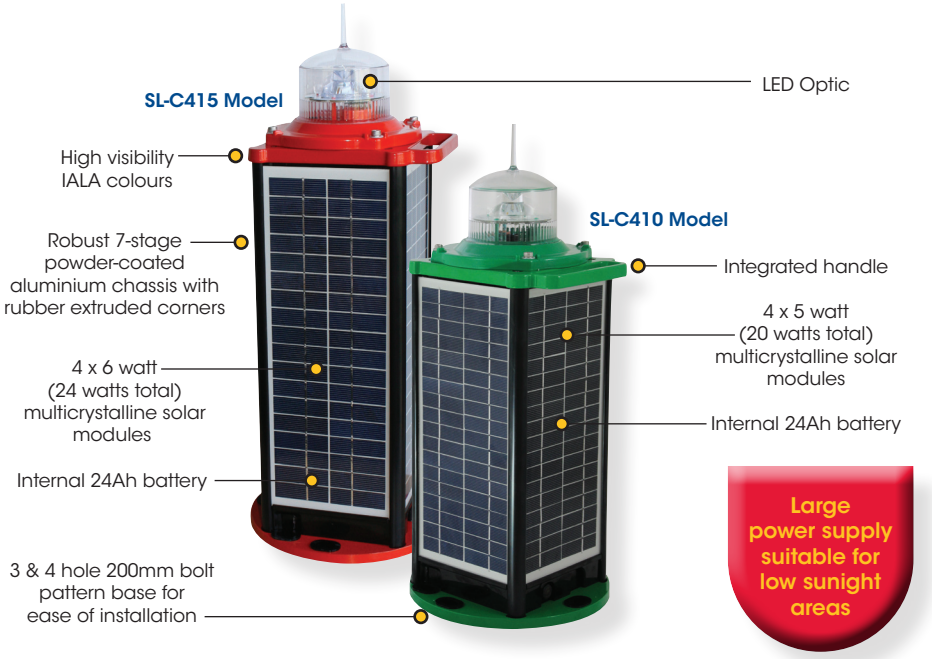
3–5NM+ Solar Marine Lantern

SL-C410 / SL-C415

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





The Sealite Advantage

- IR programmable
- Fitted with on-board GPS as standard for synchronised flashing
- 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

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 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 model 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.

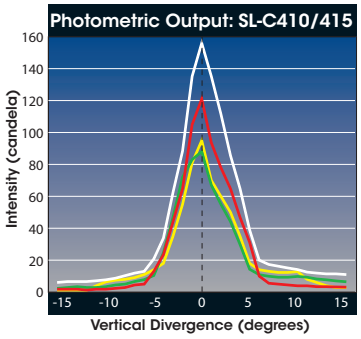
GPS Synchronisation as Standard

Sealite has utilised the latest advancements in GPS technology to develop an internal synchronisation system that is incorporated into the SL-C410 and SL-C415 lanterns. 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 navaids and confusing background lighting – ideal for rivers, marina entrances, channel marking and aquaculture.

High Intensity Mode

For high sunlight regions or low duty-cycle applications, the model may be user-set to operate in high-intensity mode by the IR programmer.



Typical Maximum Flashing Intensity (cd)	
SL-C410 / SL-C415	
RED	121
GREEN	88
WHITE	156
YELLOW	95

Current at 3NM Steady	
SL-C410 / SL-C415	
RED	24mA
GREEN	32mA
WHITE	20mA
YELLOW	34mA

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3–5NM+ Solar Marine Lantern

SL-C410 / SL-C415

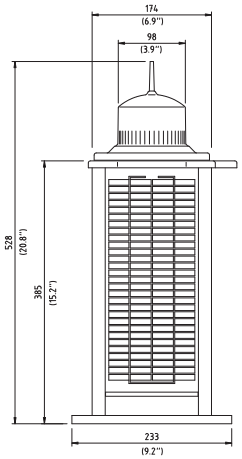
V1_2015

Optional GSM Monitoring & Control System

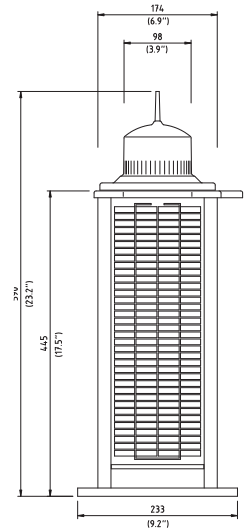
The SL-C410 and SL-C415 may also be fitted with GSM Cell-Phone Monitoring and Control – enabling users to access real-time diagnostics data and change lantern settings via a cell-phone. The system can also be configured to send out alarm SMS text messages to designated cellular telephone numbers. Users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

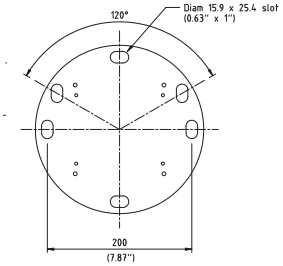
SL-C410 model shown with optional GSM Module

SL-C410 Model



SL-C415 Model





SPECIFICATIONS • *	SL-C410	SL-C415
Light Characteristics		
Light Source	LED	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)	AT @ 0.74: 3–5+ AT @ 0.85: 3.5–6.3+	AT @ 0.74: 3–5+ AT @ 0.85: 3.5–6.3+
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		
Current Draw (mA)	Refer to Sealite Power Calculator	Refer to Sealite Power Calculator
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	Gel SLA	Gel SLA
Battery Capacity (Ah)	24	24
Nominal Voltage (V)	12	12
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	Sinlge LED Optic	Sinlge LED Optic
Mounting	3 & 4 hole 200mm bolt pattern	3 & 4 hole 200mm bolt pattern
Height (mm/inches)	528 / 20 3/4	590 / 23¼
Width (mm/inches)	233 / 9 1/5	233 / 9 1/5
Mass (kg/lbs)	13.9 / 30½	14.6 / 32¼
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
IALA	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
Quality Assurance	ISO9001:2008	ISO9001:2008
Waterproof	IP68	IP68
Intellectual Property	Signal colours compliant to IALA E-200-1	Signal colours compliant to IALA E-200-1
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	• 50mm pole mount adapter plate • IR Programmer • 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	• 50mm pole mount adapter plate • IR Programmer • 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

CE

• 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

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