

Sealite Port Entry Light Systems

Sealite's range of LED Port Entry Lights and Leading Lights are typically installed to indicate a clear line of passage for vessels. Port Entry Lights are available in many configurations and are low-powered, high intensity precision secto lighting suitable for day and night time use with convenient remote monitoring and control options.



High Precision, Long Range LED Optics

Providing over 120,000cd (10 degree Model) and over 500,000cd (5 degree Model) at 30 watts, the Sealite PEL is extraordinarily efficient and ideal for solar power systems. The light is designed to suit high-precision sector applications and provides a measured changeover between colour sectors of typically one minute of arc.

Robust, with Ultra-Low Power Consumption

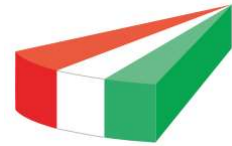
The Sealite PEL is extremely robust and of high-quality construction. The unit is built from CNC machined marine grade aluminium alloy, subject to 7-stage powder coating. The IP67 rated enclosure with anti-reflection coated achromatic lenses offers maximum resistance to weather.

AIS & GSM Ready

The Sealite PEL comes ready for interfacing with Sealite Type 1 or Type 3 AIS solutions, to allow port operators convenient remote monitoring of the unit via AIS message 6. In addition, important AIS message 21 information such as the name, type, and position of the navigation aid may be broadcast to mariners within the region.

GSM monitoring facilities also allow the light to be remotely monitored and controlled by maintenance personnel through their cellular phones or web portal.

Sealite's PEL also has alarm relay contacts for remote monitoring to alert to fault conditions.



High-precision light sectoring

Sectored Port Entry Light Sealite SL-PEL-5 the 5 degree model

Light Characteristics

Light Source: LED

Available Colours: Red, Green, White

Typical Maximum Peak Intensity (cd)*: Red 380.000, Green 345.000, white 505.000

Visible range @ 0.74: White sector, nighttime up to 23.5 NM

Visible range @ 0.85: White sector, nighttime up to 37.5 NM

Vertical divergence: @ 50% peak intensity 0.85 degrees.

Beam width overall: 5 degrees

Minimum sector: 0.5 degree

Available flash characteristics: User adjustable

Intensity Adjustments: Fully adjustable

LED Life Expectancy >50.000 hours.

Electrical Characteristics

Power: 30 watts peak x character ratio

Voltage range: 12-24 Vdc

Nominal voltage range: 12.5 Vdc

Temperature range: -40 to +80 °C

Physical characteristics:

Body material: Marine grade aluminium alloy, & carbon fibre, enamel baking.

Lens material: Anti-reflection coated glass.

Mounting: 4 x 12mm slotted holes equally spaced on 200mm PCD with additional front mounting plate consisting of 16mm slotted holes.

Length: 1272mm / 50 inches.

Mass: 20 kg / 44 Lbs.

Product life expectancy: Up to 12 years*

*Refer to the Sealite website under the warranty sector.

Certifications

Quality Assurance: CE EN61000-6-1: 2007, EN61000-6-3: 2007, IALA Signal colours compliant to IALA E-200-1, Waterproof IP67, AS 60529-2004 (IEC 60529:2001).

Options:

Type 1 or Type 3 AIS class leading & low-powered. GSM remote monitoring & control capabilities. GPS enables reliable flash synchronisation with multiple units & other AtoNs. Hard-wired or GPS synchronisation to omni-directional Sealite lanterns, variety of solar/battery configurations.



Connection for power, RS232, GPS antenna output and USB configuration.



Anti-reflection coated achromatic lens to give maximum resistance to weather conditions.

Sectored Port Entry Light Sealite SL-PEL-10 the 10 degree model

Light Characteristics

Light Source: LED

Available Colours: Red, Green, White

Typical Maximum Peak Intensity (cd)*: Red 95.000, Green 85.000, white 120.000

Visible range @ 0.74: White sector, nighttime up to 20 NM

Visible range @ 0.85: White sector, nighttime up to 31.3 NM

Vertical divergence: @ 50% peak intensity 1.7 degrees.

Beam width overall: 10 degrees

Minimum sector: 1 degree

Available flash characteristics: User adjustable

Intensity Adjustments: Fully adjustable

LED Life Expectancy >50.000 hours.

Electrical Characteristics

Power: 30 watts peak x character ratio

Voltage range: 12-24 Vdc

Nominal voltage range: 12.5 Vdc

Temperature range: -40 to +80 °C

Physical characteristics:

Body material: Marine grade aluminium alloy subject to enamel baking.

Lens material: Anti-reflection coated glass.

Mounting: 4 x 12mm slotted holes equally spaced on 200mm PCD.

Length: 756mm / 29.3/4 inches.

Mass: 12 kg / 26.1/2 Lbs.

Product life expectancy: Up to 12 years*

*Refer to the Sealite website under the warranty sector.

Certifications

Quality Assurance: CE EN61000-6-1: 2007, EN61000-6-3: 2007, IALA Signal colours compliant to IALA E-200-1, Waterproof IP67, AS 60529-2004 (IEC 60529:2001).

Options:

Type 1 or Type 3 AIS class leading & low-powered. GSM remote monitoring & control capabilities. GPS enables reliable flash synchronisation with multiple units & other AtoNs. Hard-wired or GPS synchronisation to omni-directional Sealite lanterns, variety of solar/battery configurations.



Environmental Factors:

Driving Rain: MIL-STD-810F Method 506.4, Low Temperature: MIL-STD-810G Method 502.5, High Temperature: MIL-STD-810G Method 501.5, Humidity: MIL-STD-810F Method 507.4, Salt Fog: MIL-STD-810F Method 509.4, Shock: IEC 60068-2-29 Test Eb, Vibration: ASTM D4169-05 cl.12.3