





Universal LED Controller

SL-LED-CTRL Series for rotating or fixed lenses

| | | | | | |
|----------|---|---|----------|---|---|
| Standard |  |  | Optional |  |  |
| | PC Configuration Tool | | | GSM | AIS |

The Universal LED Controller is used in conjunction with Sealite's LED Light Source. The model includes a range of advanced monitoring features and can deliver power up to 270 watts.

Used in conjunction with Sealite's LED Light Source

The LED Light Source is designed to replace traditional lamps in classical lighthouse optics. Their long life and high luminous efficiency makes huge savings in energy and maintenance possible, whilst retaining the heritage value of classical optical apparatus.

1.5 metres of cable supplied as standard (longer lengths available).

Advanced Monitoring

The LED Controller has advanced monitoring capabilities utilising alarm relay and RS232 and RS422/485 to monitor;

- LED status
- Power supply
- Temperature
- Light levels
- Internal fault conditions
- Turntable rotation speed

Advanced Programming

The LED Controller can be configured to suit a range of requirements including partial, phased-in or complete lighthouse modernisation. Sealite's convenient PC Configuration Tool allows a host of features to be set including;

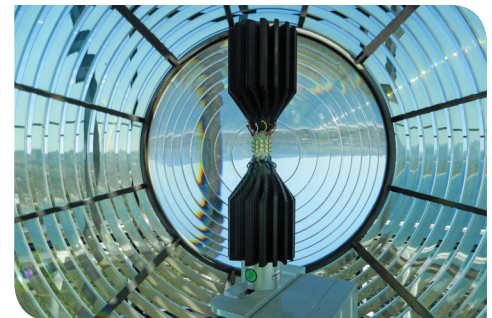
- Multiple intensity settings
- 310 flash settings including custom character
- Adjustable on/off lux levels
- Low battery threshold
- Alarm conditions
- Speed tolerance variation

Redundant Failsafe

The LED controller includes a series of independent driver outputs, providing redundancy as each LED is controlled by a separate output driver.



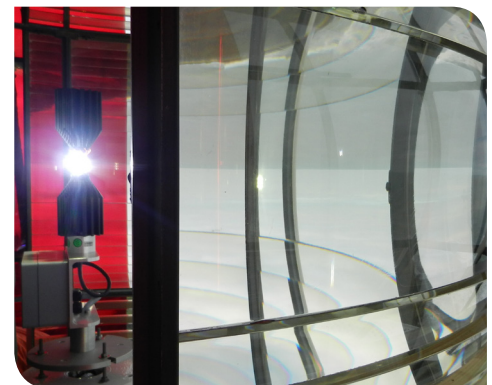
LED Controller with 110/240V supply



LED Controller works in conjunction with Sealite's SL-LED Series Light Source

Optional Add Ons

- Single driver capable of controlling Sealite's range of LED light sources
- Built-in interface for turntable lens rotation monitoring
- PC Programmer for setup, diagnostic & testing
- Built-in Interface in RS232 and RS422/485 format for third party monitoring
- AIS & GSM built-in options available removing the need to interconnect additional devices
- General purpose inputs (two) & outputs (two)
- Alarm contact for remote monitoring
- Built-in interface for external photocell connection
- Built-in temperature sensor
- Lighthouse can now be synchronised to breakwater or buoy channel



Installed Split Point, Australia

Technical Specifications.*

| SL-LED-CTRL Series | |
|--|--|
| Controller Characteristics | |
| No. LED Drivers | Single board: 6 drivers Dual board: 12 drivers |
| Driver output characteristics | SL-LED-CTRL-01: capable of driving up to 21V @ 1.5A SL-LED-CTRL-02: capable of driving up to 15V @ 3A |
| Available Flash Characteristics | Up to 310 including 256 IALA recommended, steady burning & 1 custom |
| Intensity Adjustments | User adjustable |
| Electrical Characteristics | |
| For single board 6-sided version: | |
| Current Draw (A) | VDC Model: Variable up to 11.25A @ 24VDC VAC Model: Variable up to 1A |
| Power (W) | VDC Model: Variable up to 270W VAC Model: Variable up to 240W |
| Circuit Protection | Polarity protected |
| Nominal Voltage | VDC Model: 18–32VDC VAC Model: 110–240VAC |
| Temperature Range | -40 to 60°C |
| External 3rd Party Monitoring | Via RS232/422/485 |
| AIS Connection | Via RS232/422/485 (if built-in module not selected) |
| Alarm Contacts | 1 x Volt free 250VAC @ 5A or 30VDC @ 5A |
| External Inputs | 2 x general purpose digital inputs 3–24VDC |
| External Outputs | 2 x general purpose digital outputs will switch up to 24VDC @ 1A |
| Physical Characteristics | |
| Body Material | Baked enamel coated aluminium |
| Mounting | 4 x 6mm screws (preferred mounting landscape) |
| Height (mm/inches) | 111 / 4 1/4 |
| Width (mm/inches) | 400 / 15 3/4 |
| Depth (mm/inches) | 230 / 9 |
| Weight (kg/lbs) | 5 / 11 |
| Product Life Expectancy | Up to 12 years |
| Environmental Standards | |
| Low Temperature | MIL-STD-810G Method 502.5 |
| High Temperature | MIL-STD-810G Method 501.5 |
| Salt Fog | Rated to withstand continuous exposure to salt water and spray |
| Humidity | 0 – 100%, condensing |
| Certifications | |
| CE & Electrical | FCC Part 15 Rules & ICES-003. EN61000-6-1: 2007 (IEC61000-6-1:2005) Part 6-1 Immunity. EN61000-6-3: 2007 (IEC61000-6-3: 2006) Electromagnetic compatibility (EMC) - Part 6-3 Emission. IEC61000-4-2: 2008 Ed 2 Part 4-2 Electrostatic discharge immunity test Level 4. IEC61000-4-3: 2010 Ed 3.2 Part 4-3. Radiated, radio-frequency, electromagnetic field immunity. IEC61000-4-6: 2008 Ed3. , Electromagnetic compatibility (EMC) - Part 4-6 Immunity. |
| Quality Assurance | ISO9001:2015 |
| Waterproof | IP67 |
| Intellectual Property | |
| Trademarks | SEALITE® is a registered trademark of Sealite Pty Ltd |
| Warranty * | 3 years |
| Options Available | <ul style="list-style-type: none"> • AIS Type 1 or Type 3 • GSM Monitoring & Control System • Solar Power • Float charged battery standby systems • GPS antenna for synchronisation of flashing lights • Single or Dual drive board 24VDC <ul style="list-style-type: none"> - Single drive board with mains power supply - Dual drive board with dual power supply |



LED Controller works in conjunction with Sealite's SL-LED Series Light Source



Optional GSM Monitoring & Control

A built-in GSM module for monitoring and control is also available enabling users to access diagnostic data 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.

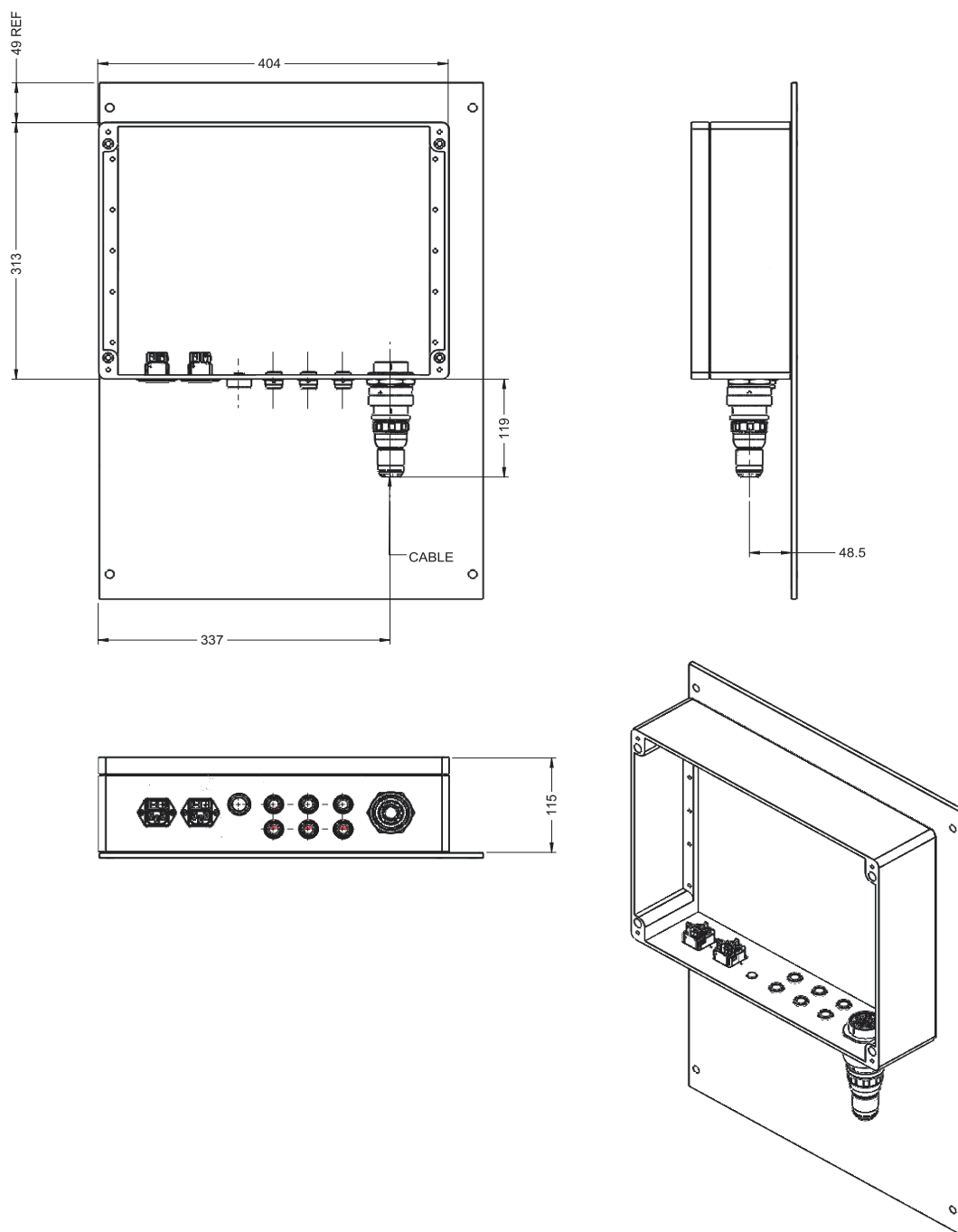
Optional Type 1 or Type 3 AIS

The Universal LED Controller is available with a built-in, low-powered Type 1 or Type 3 AIS. The unit can be monitored both by GSM and AIS.

Optional GPS Antenna

For flashing fixed lens applications the station can now be flashed in synchronisation with a buoy channel or breakwater by fitting an antenna if these channels are already fitted with GPS.

Technical Illustrations



We believe technology improves navigation™

