About Dialight
Dialight (LSE: DIA.L) is leading the energy efficient LED lighting revolution around the world for industrial and hazardous areas as well as transportation and infrastructure applications. For 40 years it has been committed to the development of LED lighting solutions that enable organizations to vastly reduce energy use and maintenance needs, improve safety, ease disposal and reduce CO2 emissions.

Features & Benefits
• 5 year full performance warranty
• Resistant to shock and vibration
• High impact polycarbonate lens, UV, scratch & chemical resistant lens coating
• Reduction in expensive tower climbs and maintenance costs / unplanned site visits
• Requires smaller gauge wire
• Smallest Flash Head in the Industry
• Community friendly lighting system

Dialight Timeline
1999 → First ever FAA certified LED L810
2001 → First ever FAA certified LED L864
2007 → First ever FAA certified LED L864/L865
2011 → First ever FAA certified LED L856
2012 → First ever FAA certified L856/L864

Vigilant®
• LED lighting for aviation obstruction lighting

SafeSite®
• LED lighting for hazardous locations

Typical Applications
Regulated Primary Markets
• Telecom
• Broadcast
• Chimney
• Turbines
• Wire Crossings
• Tall Structures
• Obstruction Areas
• Wind
• Marine
• Utilities

View Dialight Case Studies at:
PPL Generation: http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/MDEXMMCMX001.pdf
PPL Power Generation: http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/PPL_Case_Study.pdf
Century: http://www.dialight.com/Assets/Brochures_And_Catalogs/Signaling/MDTFCTRAX001.pdf
SafeSite® L-864 Red LED Beacon
CID2 - VAC versions

Dimensions in Inches [mm]

Certifications & Ratings:
• FAA Approved
  (Check FAA Website for current certification)
• Class I, Div 2, Groups A, B, C, D
• UL1598
• UL844
• IP 66
• NEMA 4X

Compliant to:
• DGAC Mexico
• Canadian Aviation Regulation CAR 621.9 (Transport Canada)

Features & Benefits:
• 5 year full performance warranty
• Uses 90% less energy than an incandescent
• Resistant to shock and vibration
• Lasts years longer than an incandescent
• Flash or steady burn

Application:
Dialight’s L-864 LED Based Class I, Division 2 certified red beacon was designed to easily interface into existing systems or to be provided as a red lighting fixture for new installations. The beacon is used to mark any obstacle that may provide hazards to aircraft navigation. Versions of this fixture are available in 120VAC or 230VAC.

Mechanical Information:

| Unit Weight: | 20 lbs |
| Operating Voltage: | Universal 120-240 VAC 50/60Hz power factor corrected supply |
| Supply Voltage Ranges: | Nominal +/- 10% |
| Effective Intensity: | Red Night 2,000 cd |
| Wattage: | Red Night 20W (Steady Burn) |
| | 3.3W (16.7% duty cycle) |
| | 20 flashes per minute with 0.5 second on time |
| Power Factor: | >0.9 |
| Operating Temp: | -40ºF to +131ºF |
| | (-40ºC to +55ºC) |
| Synchronization: | Multiple unit sync from single controller (Operates with other manufacturers of GPS sync devices) |

Temperature Rating

| Ambient Temperature Range | T4 Temperature Code |
| -40 to +55ºC |

Order Codes

| CID2 Beacon |
| D464-B13-001 | CID2 120 - 230 VAC Beacon |

www.dialight.com
Application:
The all LED Dialight Vigilant® medium intensity white strobe and red beacon is designed for the lighting of communication towers, smoke stacks wind generators and other obstructions to aerial navigation, as specified by the FAA and FCC. The Dual L-864 / L-865 uses LED technology for light output from both the red beacon and white strobe.

Unlike conventional Xenon flashtube technology, little or no maintenance is required during its lifetime. Working voltages of less than 200VDC are significantly less than those of Xenon flashtube designs; therefore, this system represents an advance in safety. The Dialight Dual L-864 / L-865 LED beacon operates from a 48VDC supply. The power supply / control box can be located up to 550 ft away from the light engine, such as at the base of the tower.

### Mechanical Information:
- **Unit Weight:** 26 lbs
- **Operating Voltage:** Universal 120-240 VAC 50/60Hz power factor corrected supply (see below for options) 48V DC

### Supply Voltage Ranges:
- Nominal +/- 10%

### Effective Intensity:
- White Day: 20,000 cd
- White Night: 2,000 cd
- Red Night: 2,000 cd

### Wattage:
- White Day: 85W (Steady burn)
- White Night: 35W (Steady burn)
- Red Night: 25W (Steady burn)

### Power Factor:
- >0.9

### Operating Temp:
- -40ºF to +131ºF (-40ºC to +55ºC)

### Synchronization:
- Multiple unit sync from single controller (Operates with other manufacturers of GPS sync devices)

### Temperature Rating:

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>T5 Temperature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40 to +55ºC</td>
<td></td>
</tr>
</tbody>
</table>

### Order Codes

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Color</th>
<th>Description</th>
<th>Voltage</th>
<th>Certification / Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1RW-B13-008</td>
<td>Red / White</td>
<td>Class I, Div 2</td>
<td>48V DC</td>
<td>FAA / Class I, Div 2</td>
</tr>
<tr>
<td>D1RW-S13-008</td>
<td>Red / White</td>
<td>Class II, Div 2</td>
<td>48V DC</td>
<td>FAA / Class 2, Div 2 (Pending)</td>
</tr>
<tr>
<td>D1RW-9004</td>
<td>Driver</td>
<td>Driver</td>
<td>120-240V AC/ 48V DC</td>
<td></td>
</tr>
</tbody>
</table>

**Certifications & Ratings**
- FAA Approved
  (Check FAA Website for current certification)
- Class I, Div 2, Groups A, B, C, D
- Class II, Div 2, Groups F, G
- UL1598
- UL8750
- CSA C22.2
- IP 66

**Qualified By**
- Intertek ETL
- CSA
- DGAC Mexico

**Compliant to**
- ICAO Aerodromes Design Manual, Chapter 18
- Canadian Aviation Regulation CAR 621.19 (Transport Canada)
SafeSite® L-810 Red LED Obstruction Lights
CID2, ATEX/IECEx - VAC versions

Mechanical Information:

Single Units:
- Container Dimensions: 16" X 9" X 8" 406mm x 229mm x 203mm
- Container Weight: 7.14 lbs (3.24 kg)
- Mounting: Threaded 1" NPT and 3/4" NPT bottom hub for mounting

Dual Units:
- Container Dimensions: 22" X 17" X 9" 559mm x 432mm x 229mm
- Container Weight: 16.06 lbs (7.28 kg)
- Mounting: Threaded 1" NPT and 3/4" NPT bottom hub for mounting

Electrical specifications: (Per Light):
- Volt Amps: 44 VA (120 VAC Units) ±10% 67 VA (230 VAC Units) ±15%
- Input Power: 14.5 W (120 VAC Units) 16.0 W (230 VAC Units)
- Operating Temp: -67ºF to +131ºF (-55ºC to +55ºC)

Material:
- Housing: Cast aluminum
- Lens: Glass

Accessories (Hardware): Stainless steel

Compliant to:
- Canadian Aviation Regulation CAR 621.9 (Transport Canada)

Features & Benefits:
- 5 year full performance warranty
- Uses 90% less energy than an incandescent
- Weather/corrosion resistant lamp assembly and housing
- Resistant to shock and vibration
- Available as single or dual unit
- Flash models available
- Withstand wind in excess of 150 mph (240 kph), salt fog

Order Codes

<table>
<thead>
<tr>
<th>Class 1, Div 2</th>
<th>CID2 Ver</th>
<th>ATEX/IECEx Ver</th>
</tr>
</thead>
<tbody>
<tr>
<td>860-2R01-001</td>
<td>B60-95R01-001</td>
<td></td>
</tr>
<tr>
<td>860-2R02-001</td>
<td>B60-95R02-001</td>
<td></td>
</tr>
<tr>
<td>860-2R01-002</td>
<td>B60-95R01-002</td>
<td></td>
</tr>
<tr>
<td>860-2R02-002</td>
<td>B60-95R02-002</td>
<td></td>
</tr>
</tbody>
</table>

*Steady Burn

Application:
LED Based L-810 Red Obstruction light certified to meet both the rigorous FAA requirements for red LED obstruction lights for hazardous area lighting locations. It is available in 120VAC or 230VAC versions and can be ordered as single or dual units.

Certifications & Ratings:
- FAA Approved
  (Check FAA Website for current certification)
- Class I, Div 2, Groups A, B, C, D
- ATEX/IECEx Zone 2
- IECEx SIR 08.0018X
- Siria 06ATEX4372X
- UL1598
- UL844
- IP 65
- IP 66
- NEMA 4X
- FAA Approved (Check FAA Website for current certification)
- Class I, Div 2, Groups A, B, C, D
- ATEX/IECEx Zone 2
- IECEx SIR 08.0018X
- Siria 06ATEX4372X
- UL1598
- UL844
- IP 65
- IP 66
- NEMA 4X
- FAA Approved (Check FAA Website for current certification)
- Class I, Div 2, Groups A, B, C, D
- ATEX/IECEx Zone 2
- IECEx SIR 08.0018X
- Siria 06ATEX4372X
- UL1598
- UL844
- IP 65
- IP 66
- NEMA 4X

Temperature Rating

<table>
<thead>
<tr>
<th>CID2 Ver</th>
<th>ATEX/IECEx</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature Range</td>
<td>T4 Temperature Code</td>
</tr>
<tr>
<td>-55 to +55°C</td>
<td>-55 to +55°C</td>
</tr>
</tbody>
</table>
Certifications & Ratings:
• FAA AC No. 150/5345-43G
• Class I, Div 2, Groups A, B, C, D
• ATEX/IECEx Zone 2
• IECEx SIR 08.0018X
• Sira 06ATEX4372X
• UL1598
• UL844
• IP 65 / IP 66
• NEMA 4X

Compliant to:
• Canadian Aviation Regulation CAR 621.9 (Transport Canada)
• DGAC Mexico

Features & Benefits:
• 5 year full performance warranty
• Uses 90% less energy than an incandescent
• Weather/corrosion resistant lamp assembly and housing
• Resistant to shock and vibration
• Available as a single or dual unit
* Unique optically designed lens to enhance LED operation and provide 360° visibility

Order Codes

<table>
<thead>
<tr>
<th>Class I, Div 2</th>
<th>Single Unit</th>
<th>Dual Unit</th>
<th>ATEX/IECEx</th>
<th>Single Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>860-2B01-001</td>
<td>Blue 120 VAC</td>
<td>860-2B01-001</td>
<td>Blue 120 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2G01-001</td>
<td>Green 120 VAC</td>
<td>860-2G01-001</td>
<td>Green 120 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2Y01-001</td>
<td>Yellow 120 VAC</td>
<td>860-2Y01-001</td>
<td>Yellow 120 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2W01-001</td>
<td>White 120 VAC</td>
<td>860-2W01-001</td>
<td>White 120 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2B02-001</td>
<td>Blue 230 VAC</td>
<td>860-2B02-001</td>
<td>Blue 230 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2G02-001</td>
<td>Green 230 VAC</td>
<td>860-2G02-001</td>
<td>Green 230 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2Y02-001</td>
<td>Yellow 230 VAC</td>
<td>860-2Y02-001</td>
<td>Yellow 230 VAC, Dual Unit</td>
</tr>
<tr>
<td></td>
<td>860-2W02-001</td>
<td>White 230 VAC</td>
<td>860-2W02-001</td>
<td>White 230 VAC, Dual Unit</td>
</tr>
</tbody>
</table>

Temperature Rating

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>T4 Temperature Code</th>
<th>Ambient Temperature Range</th>
<th>T3C Temperature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-55 to +55°C</td>
<td></td>
<td>-55 to +65°C</td>
<td></td>
</tr>
</tbody>
</table>
Certifications & Ratings

• Class I, Div 2, Groups A, B, C, D
• UL1598
• UL844
• IP 66
• NEMA 4X

Features & Benefits

• 5 year full performance warranty
• Uses 90% less energy than an incandescent
• Weather/corrosion resistant lamp assembly and housing
• Resistant to shock and vibration
• Available as a single unit
• Unique optically designed lens to enhance LED operation and provide 360º visibility

Application:
Dialight’s newest addition to their line of Class I, Division 2 Visual Signal Lights, the FLS Series Flashing Signals are used in a wide range of industries for visual indication in hazardous environments. Versions of this fixture are available in 120VAC or 230VAC.

Mechanical Information:

| Container Dimensions: | 16” X 9” X 8” |
| Container Weight: | 7.14 lbs (3.24 kg) |
| Mounting: | threaded 1” NPT and 3/4” NPT bottom hub for mounting |

Electrical specifications:

| Volt Amps: | 44 VA (120 VAC Units) +10% |
| Input Power: | 14.5 W (120 VAC Units) |
| | 16.0 W (230 VAC Units) |
| Operating Temp: | -67ºF to +131ºF (-55ºC to +55ºC) |
| Material: | Housing: Cast aluminum |
| | Lens: Glass |
| | Accessories (Hardware): Stainless steel |

Order Codes

<table>
<thead>
<tr>
<th>120 VAC Models</th>
<th>230 VAC Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLS-2B01-001</td>
<td>Class I, Div 2 Blue 120 VAC</td>
</tr>
<tr>
<td>FLS-2G01-001</td>
<td>Class I, Div 2 Green 120 VAC</td>
</tr>
<tr>
<td>FLS-2R01-001</td>
<td>Class I, Div 2 Red 120 VAC</td>
</tr>
<tr>
<td>FLS-2Y01-001</td>
<td>Class I, Div 2 Yellow 120 VAC</td>
</tr>
<tr>
<td>FLS-2W01-001</td>
<td>Class I, Div 2 White 120 VAC</td>
</tr>
</tbody>
</table>

Temperature Rating

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>T4 Temperature Code</th>
<th>Ambient Temperature Range</th>
<th>T3C Temperature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-55 to +55ºC</td>
<td>-55 to +65ºC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SafeSite® FLS LED Flashing Visual Signal Lights
CID2 - DC Versions

Certifications & Ratings:
• Class I, Div 2, Groups A, B, C, D
• UL844
• UL1598A
• UL1598
• IP 66
• NEMA 4X

Features & Benefits:
• 5 year full performance warranty
• Uses 90% less energy than an incandescent
• Weather/corrosion resistant lamp assembly and housing
• Resistant to shock and vibration
• Unique optically designed lens to enhance LED operation and provide 360° visibility

Application:
Dialight's newest addition to their line of Class I, Division 2 Visual Signal Lights, the FLS Series Flashing Signals are used in a wide range of industries for visual indication in hazardous environments. The FLS series incorporates a 4 wire connection for incorporation into a DC supervised alarm systems.

Mechanical Information:
Container Dimensions: 16" X 9" X 8"
406mm x 229mm x 203mm
Container Weight: 7.14 lbs (3.24 kg)
Mounting: Threaded 1" NPT

Electrical specifications:
Operating Voltage: 12-48 VDC (nom) +/- 10%
Input Power: 1.5 W
Operating Temp: -40°C to +65°C
On/Off Time: 100:900ms

Material:
Housing: Powder coated cast aluminum
Lens: Glass
Hardware: Stainless steel

Included Accessories: Threaded 3/4" NPT reducer
Threaded 1" NPT plug
Stainless steel cage

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>T4 Temperature Code</th>
<th>Ambient Temperature Range</th>
<th>T3C Temperature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-55 to +55°C</td>
<td></td>
<td>-55 to +65°C</td>
<td></td>
</tr>
</tbody>
</table>

Order Codes

<table>
<thead>
<tr>
<th>Class I, Div 2 - Single Units</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FLS-2B09-001</td>
<td>Blue</td>
</tr>
<tr>
<td>FLS-2G09-001</td>
<td>Green</td>
</tr>
<tr>
<td>FLS-2Y09-001</td>
<td>Yellow</td>
</tr>
<tr>
<td>FLS-2R09-001</td>
<td>Red</td>
</tr>
<tr>
<td>FLS-2W09-001</td>
<td>White</td>
</tr>
</tbody>
</table>

www.dialight.com
SafeSite® FLS LED Flashing Signal Lights w/ Flat Base Junction Box
CID2 - VAC Versions

Certifications & Ratings:
• Class I, Div 2, Groups A, B, C, D
• UL1598
• UL844
• IP65
• IP66
• NEMA 4X

Features & Benefits:
• 5 year full performance warranty
• Uses 90% less energy than an incandescent
• Weather/corrosion resistant lamp assembly and housing
• Resistant to shock and vibration
• Unique optically designed lens to enhance LED operation and provide 360º visibility

Application:
Dialight’s flat base junction box allows versatility of mounting and installation. It’s flat bottom base design creates the ability to mount the flashing signal against level surfaces such as walls, ceilings and platforms.

Mechanical Information:
Container Dimensions: 16” X 9” X 8”
406mm x 229mm x 203mm
Container Weight: 7.14 lbs (3.24 kg)
Mounting: Threaded 1” NPT on 4 sides and 1 on bottom

Electrical Specifications:
Volt Amps: 44 VA (120 VAC Units)
Input Power: 14.5 W (120 VAC Units)
Operating Temp: -67ºF to +131ºF (-55ºC to +55ºC)

Material:
Housing: Cast aluminum
Lens: Glass
Accessories (Hardware): Stainless steel

<table>
<thead>
<tr>
<th>Temperature Rating</th>
<th>Ambient Temperature Range</th>
<th>Ambient Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>T4 Temperature Code</td>
<td>-55 to +55°C</td>
<td>-55 to +65°C</td>
</tr>
<tr>
<td>T3C Temperature Code</td>
<td>-55 to +65°C</td>
<td></td>
</tr>
</tbody>
</table>

Order Codes

<table>
<thead>
<tr>
<th>Class I, Div 2 - Single Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLS-2B01-005</td>
</tr>
<tr>
<td>FLS-2R01-005</td>
</tr>
<tr>
<td>FLS-2Y01-005</td>
</tr>
</tbody>
</table>
SafeSite® L-810 LED Visual Signal Lights w/ Flat Base Junction Box
CID2 - VAC versions

Certifications & Ratings:
• Class I, Div 2, Groups A, B, C, D
• UL1598
• UL844
• IP 65
• IP 66
• NEMA 4X

Features & Benefits:
• 5 year full performance warranty
• Uses 90% less energy than an incandescent
• Weather/corrosion resistant lamp assembly and housing
• Resistant to shock and vibration
• Unique optically designed lens to enhance LED operation and provide 360° visibility

Application:
Dialight’s flat base junction box allows versatility of mounting and installation. It’s flat bottom base design creates the ability to mount the visual signal against level surfaces such as walls, ceilings and platforms.

Mechanical Information:
- Container Dimensions: 16” X 9” X 8”
  406mm x 229mm x 203mm
- Container Weight: 7.14 lbs (3.24 kg)
- Mounting: Threaded 1” NPT on 4 sides and 1 on bottom

Electrical specifications:
- Operating Voltage: 120V AC -+10% Tolerance
- Volt Amps: 44 VA (120 VAC Units)
- Input Power: 14.5 W (120 VAC Units)
- Operating Temp: -67ºF to +131ºF (-55ºC to +55ºC)

Material:
- Housing: Cast aluminum
- Lens: Glass
- Accessories (Hardware): Stainless steel

Temperature Rating

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>T4 Temperature Code</th>
<th>Ambient Temperature Range</th>
<th>T3C Temperature Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>-55 to +55°C</td>
<td></td>
<td>-55 to +65°C</td>
<td></td>
</tr>
</tbody>
</table>

Order Codes

<table>
<thead>
<tr>
<th>Class I, Div 2 - Single Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>860-2B01-005</td>
</tr>
<tr>
<td>860-2R01-005</td>
</tr>
<tr>
<td>860-2Y01-005</td>
</tr>
</tbody>
</table>

Class I, Div 2 Blue 120 VAC - Flat Base
Class I, Div 2 Red 120 VAC - Flat Base
Class I, Div 2 Yellow 120 VAC - Flat Base
Vigilant® FAA Obstruction Lights for General Aviation Obstruction Applications

Vigilant® LED Based L-856 / L-864 High Intensity (White/Red) Strobe
The Dialight Vigilant® High Intensity Red/White Strobe is the first all LED L-856 / L-864 unit designed for the lighting of communication towers, smoke stacks, broadcast towers and other tall obstructions to aerial navigation, as specified by the FAA. A high intensity system consists of 3 flash heads, 3 power supplies per level and 1 controller for the entire system. The flash heads will be placed on up to six levels of the structure for a maximum of 18 synchronized flash heads for a single tower. The 3 flash heads will provide 360 degrees of coverage.

Vigilant® LED Based L-864 / L-856 Medium Intensity (White/Red) Strobe
The Dialight Vigilant® L-864 / L-865 LED Based Dual Red/White Beacon is designed for the lighting of communication towers, smoke stacks, wind generators and other obstructions to aerial navigation, as specified by the FAA and FCC.

Vigilant® L-864 LED Based Red Medium Intensity Beacon
The Dialight Vigilant Series L-864 LED based medium intensity red beacon utilizes state-of-the-art optical design to achieve the most compact, efficient, FAA compliant L-864 device in the market.

Vigilant® L-810 RTO Red LED Obstruction Lights
Utilizing a unique optical, electrical and mechanical design, Dialight’s Vigilant Series L-810 RTO Red LED Obstruction Light is the most universal, compact and efficient obstruction light in the world. Specified by the FAA.

Vigilant® L-810 Red LED Obstruction Lights
Designed for steady burning, Dialight’s Vigilant Series L-810 Red LED Obstruction Light is used to mark any obstacle that may present a hazard to aircraft navigation. Specified by the FAA.
SafeSite® Series LED Based Signaling
for Hazardous Locations