Dialight® LED Obstruction Systems
D1CW-C13-409 SYS and D1CW-C14-409 SYS
Technical Specification Sheet - Medium Intensity Dual Red/White with Infrared (IR)
Vigilant® LED Strobe
Medium Intensity (White/Red)

Mechanical Information:
- Weight: 21 lbs (9.5 kg)
- Mounting Details: Standard FAA 3 hole & 4 hole pattern
- Impact Rating: IK10
- Protection Rating: IP66
- Included Hardware: 1/2" NPT cable gland, mounting kit (bolts, nuts, etc.)
- Cable Entry Size: 1/2" NPT
- Aerodynamic Wind Area: 0.6 ft²

Electrical Specifications:
- Operating Temperature: -40°F to +131°F (-40°C to +55°C)
- Power Factor: > 0.9
- Power Consumption:
  - Day (White): 36 W (System = 75 W)
  - Night (White): 4 W (System = 10 W)
  - Night (Red-IR): 15 W (System = 28 W)
- Input Current:
  - 120-277 VAC, 50/60 Hz (1.6 A peak)
  - 48 VDC (2.2 A peak)
- Construction:
  - Housing Material: Powder coated, copper-free, marine grade aluminum
  - Lens Hardware: Polycarbonate, UV stabilized & hard coated
  - Mounting (Two Sets): Hot dipped galvanized & stainless steel
  - Latches: Stainless steel

Photometric Information:
- Flash Intensity (nominal):
  - Day (White): 20,000 cd
  - Night (White): 2,000 cd
  - Night (Red): 2,000 cd
  - IR Wavelength: 850nm
- Flash Rate:
  - Day (White): 40 flashes per min.
  - Night (White): 40 flashes per min.
  - Night (Red): 20/30/40 flashes per min.
  - IR Pulse Rate: 20/30/40 flashes per min.
- Expected Lamp Life: 100,000 hours (approx. 10 years)

All values typical unless otherwise stated (tolerance +/- 10%)
Vigilant® LED Based Side Markers
Low Intensity (Red)

Certifications & Ratings
• 5 year warranty
• FAA AC 150/5345-43H
• FAA AC 70/7460-1L
• FAA Engineering Brief 67D
• ICAO Annex 14
• Transport Canada CAR 621.19
• CE

Single Fixture

Dimensions in inches [mm]

Dual Fixture

Dimensions in inches [mm]

FAA L-810 / ICAO Low Type B+E

Mechanical Information:
- Weight:
  - Single unit - 2.00 lbs (0.91 kg)
  - Dual unit - 4.60 lbs (2.09 kg)
- Mounting Details:
  - NPT 3/4" and 1" NPT
- Impact Rating: IK10
- Protection Rating: IP66
- Included Hardware: 1" NPT plug
- Cable Entry Size: NPT 3/4" and 1" NPT
- Aerodynamic Wind Area: 0.15 ft²

Electrical Specifications:
- Operating Temperature: -40°F to +131°F (-40°C to +55°C)
- Power Factor: > 0.9
- Power Consumption:
  - Single & Dual Units - 5.0 W (DC version)
  - 5.5 W (AC version)
- Input Current:
  - 120-240 VAC, 50/60 Hz (55mA nominal)
  - 12-48 VDC (63mA nominal)

Photometric Information:
- Flash Intensity (nominal):
  - Night (Red): 32 cd
  - IR Wavelength: peak @ 850nm
- Flash Rate:*:
  - Night (Red): 20/30/40 flashes per min
  - IR Pulse Rate: 20/30/40 flashes per min
- Expected Lamp Life: 100,000 hours (approx. 10 years)
  - *Can also operate as steady burn

All values typical unless otherwise stated (tolerance +/- 10%)
Vigilant® LED Controller
Medium Intensity (White/Red)

Controller:
- **Weight:** 49.5 lbs (22.5 kg)
- **Operating Temperature:** -40°F to +131°F (-40°C to +55°C)
- **Protection Rating:** IP66, NEMA 4X
- **Material:** Powder coated, copper-free, marine grade aluminum
- **Cable Entry:**
  - Size: 3/4" NPT
  - Number of openings: 6
- **Included Hardware:** 3/4" NPT cord grips & plugs
- **Configurable Options:**
  - Set the Tower Style ex. E2
  - Flash rates
  - Conduct lighting
  - Inspections

All values typical unless otherwise stated (tolerance +/- 10%)
Light Output Charts

Medium Intensity Dual Strobe - White Day

[Graph showing light output over distance for White Day mode]

Medium Intensity Dual Strobe - White/Red-IR Night

[Graph showing light output over distance for White/Red-IR Night mode]
Light Output Charts

Low Intensity (Red) Side Marker

Infrared Wave Length
# Ordering Information: D1CW-C13-409 SYS and D1CW-C14-409 SYS

## Flash Head (L-864/ L-865)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>D1CWFH409</td>
<td>Dual Red/White Medium Intensity Flash Head w/ IR</td>
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</table>

## Side Markers (L-810)

<table>
<thead>
<tr>
<th>Input</th>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>12-48 VDC</td>
<td>RTOCR08001</td>
<td>L-810 Low Intensity Side Marker w/ IR: DC Input</td>
</tr>
<tr>
<td>120-240 VAC</td>
<td>RTOCR07001</td>
<td>L-810 Low Intensity Side Marker w/ IR: AC Input</td>
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</table>

## Controllers

<table>
<thead>
<tr>
<th>Input</th>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>48 VDC</td>
<td>D1CWCTR449</td>
<td>Dual Red/White Medium Intensity Controller w/ IR: DC Input</td>
</tr>
<tr>
<td>120-277 VAC</td>
<td>D1CWCTR409</td>
<td>Dual Red/White Medium Intensity Controller w/ IR: AC Input</td>
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</tbody>
</table>

## Power Supply

<table>
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<tr>
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<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>48 VDC</td>
<td>D1CWPS9449</td>
<td>Dual Red/White Medium Intensity Power Supply w/ IR: DC Input</td>
</tr>
<tr>
<td>120-277 VAC</td>
<td>D1CWPS9409</td>
<td>Dual Red/White Medium Intensity Power Supply w/ IR: AC Input</td>
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</tbody>
</table>

## Photocell

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>D2566000PEC</td>
<td>Photocell: Single 3/4&quot; NPT Entry</td>
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</tbody>
</table>
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