



Vigilant[™] Series LED Based Obstruction Lights



Certified to:

FAA AC NO: 150/5345-43F FAA Engineering Brief No. 67

Compliant to:

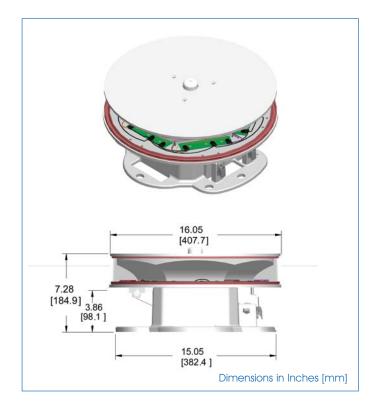
ICAO Annex 14, 4th Edition, July 2004 ICAO Aerodromes Design Manual, Chapter 18 Canadian Aviation Regulation CAR 621.19 (Transport Canada) DGAC Mexico

Qualified By:

Intertek ETL

US Patent #7,281,821 other patents pending

Vigilant[™] LED Based L-864/L-865 Flashing Dual (White/Red) Strobe



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 L864 / L865 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 L864 / L865 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.

Order code:

D1RW-C13-008 D1RW-C13-008-EU	48VDC FAA OEM 100-240VAC, European Version	
Flashhead Weight:	26 lbs	
Operating Voltage:	Universal 100/240 VAC 50/60Hz power factor corrected supply	
Candela:	White Day White Night Red Night	20,000 cd 2,000 cd 2,000 cd
Wattage:	White Day White Night Red Night	90W 35W 25W
Power Factor:	>0.9	
Operating Temp:	-40°F to +131°F (-40°C to +55°C)	

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

Flip top design for simple installation

Vigilant[™] LED Based L-864/L-865 Flashing Dual (White/Red) Strobe

FEATURES	BENEFITS
Industry's Longest Warranty	- Complete performance 5 year warranty (Xenon technology only 2 years)
All LED Flash Head = 10+ Years Life Expectancy	- Long life and resistant to shock and vibration Resistant to shock and vibration Reduction in expensive tower climbs and maintenance costs / unplanned site visits
No More Dangerous High Voltage Power Supply Required	 Enables the use of low voltage flexible cable Eliminates the need to send high voltage up a tower Provides considerable safety advantages Uses standard low voltage supply Eliminates corrosion due to ozone effects
Designed to Withstand IEC61000-4-5, 6kV/3000A, 1.2/50s, 8/20s, 2 ohm Output Impedance, Combination Wave, Line-Line and Line-Ground	- Provides excellent protection against lightning and surges
Smallest Flash Head in the Industry, 7.28" High	- Significantly less wind loading than Xenon dual strobes
Very Precise Optics (Patented)	- Minimum ground scatter light - Community friendly lighting system
Uses State-of-the-Art High Flux LED Technology	 - Replaces high maintenance Xenon tubes - Resistant to shock and vibration (no fragile Xenon tubes)
LED's Produce No Radio Frequency Blast	- Eliminates RF interference with cell networks associated with Xenon technology
IP66	- Completely sealed from the outside environment
Lightest Flash Head in the Industry - 26lbs	-Easy to Handle and Install





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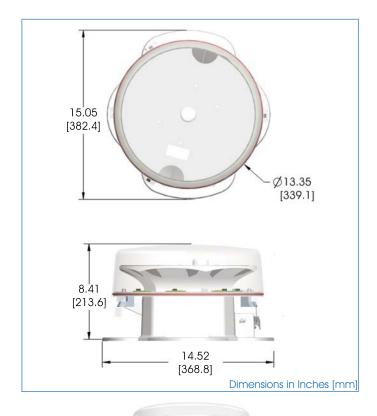
Qualified By: Intertek ETL

Compliant to:

ICAO Annex 14, 5th Edition, 2009 ICAO Aerodromes Design Manual, Chapter 18 Canadian Aviation Regulation CAR 621.19 (Transport Canada) DGAC Mexico US Patent # 7,281

US Patent # 7,281,821 Other Patents Pending

Vigilant[™] LED Based L-864 Red Medium Intensity Beacon

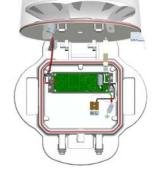


Application:

The Dialight Vigiant™ D464 Series LED based medium intensity red beacon utilizes state-of-the-art optical design to achieve the most compact, efficient, FAA compliant L864 device in the market. While it readily interfaces into existing installations, its robust, low power design will provide years of maintenance free service.

Order codes:

D464-A13-001 D464-A13-001EU	120 / 240 VAC FAA 120 / 240 VAC ICAO
Unit Weight:	20lbs (9Kg)
Supply Voltage:	120-240 VAC Universal Input
Watts:	20W Rated (10 Watts EQ)
Operating Temp:	-40°F to +131°F (-40°C to +55°C)
Power Factor:	>0.9



Flip top design for simple installation

Vigilant[™] LED Based L-864 Red Medium Intensity Beacon

FEATURES	BENEFITS
Industry's Longest Warranty	- Complete performance 5 year warranty (Xenon technology only 2 years)
All LED Flash Head = 10+ Years Life Expectancy	- Long life and resistant to shock and vibration Reduction in expensive tower climbs and maintenance costs / unplanned site visits
Uses State-of-the-Art High Flux LED Technology	- Replaces high maintenance, fragile incandescent bulbs and xenon tubes
Environmentally Friendly (20 Watt Power Consumption)	- Lowest power consumption L864 on the market Over 90% more efficient than incandescent
Very Precise Optics (Patented)	- Minimum ground scatter light Community friendly lighting system
Smallest Flash Head in the Industry, 8.41" high	- Significantly less wind loading than a xenon or incandescent
New Hindged Lid Design	- Easy access to terminal block wiring
IP66	- Completely sealed from the outside environment
Lightest Flash Head in the Industry - 20LBS	- Easy to handle and install

Dialight's LED Technology Inovations Over the Years













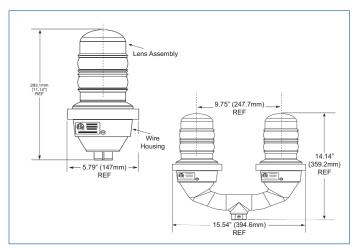
Meets:

FAA AC NO: 150/5345-43F FAA Engineering Brief No. 67 ICAO Annex 14, 4th Edition, July 2004 ICAO Aerodromes Design Manual, Chapter 18 Canadian Aviation Regulation CAR 621.9 Nachrichten für Luftfahrer Teil I Langen, 6. Januar 2005 German Air Traffic Control Notices For Pilots Part I 6, January 2005

Qualified By: Intertek ETL Lighting Sciences Canada

Patents Pending

Vigilant[™] L-810 860 Series Red LED Obstruction Lights



Dimensions in Inches [mm]

Features & Benefits:

- \triangleright Available as a single or dual unit
- Available in 12VDC, 24VDC, 48VDC, 120VAC, and 220VAC versions (50 or 60HZ)
- Unique optically designed lens to enhance LED operation and provide 360° visibility
- ▷ Weather/corrosion resistant lamp assembly andhousing
- ▷ Self-contained wiring compartment eliminates additional boxes
- ▷ Threaded 1" and 3/4" bottom hub for mounting
- ▷ Can be operated steady or flashed (controller not supplied)
- ▷ 5 year warranty
- ▷ Resistant to shock and vibration
- ▷ IP 65 / IP 66 / NEMA 4X rated

Application:

The Dialight Vigilant[™] 860 series is the FAA type L810 red LED obstruction light. Designed for steady burning, this fixture is used to mark any obstacle that may present hazards to aircraft navigation. The US patent office has issued patent number 6,425,678 B1 for this series.

Order codes:

860-1R01-001 860-1R03-001 860-1R04-001 860-1R05-001 860-1R02-001 860-5R02-001 860-1R02-001-EU 860-4R02-001-EU	Singl Singl Singl Singl Singl	e Fixture, FAA, 120 VAC e Fixture, FAA, 12 VDC e Fixture, FAA, 48 VDC e Fixture, FAA, 24 VDC e Fixture, 230 VAC e Fixture, ICAO, 230 VAC, 10 cd e Fixture, European Ver, 230 VAC e Fixture, European Ver, 230 VAC, 50cd
860-1R01-002 860-1R03-002 860-1R05-002 860-1R02-002 860-5R02-002 860-6R01-002 860-7R02-002 860-1R02-002-EU 860-4R02-002-EU	Dual Dual Dual Dual Dual Dual Dual	Fixture, FAA, 120 VAC Fixture, FAA, 12 VDC Fixture, FAA, 48 VDC Fixture, FAA, 24 VDC Fixture, 230 VAC Fixture, ICAO, 230 VAC, 10 cd Fixture, ICAO, 230 VAC, 100 cd Fixture, CASA, 230 VAC, 100 cd Fixture, European Ver, 230 VAC Fixture, European Ver, 230 VAC, 50cd
Container Dimensi	ons:	16.0" x 9.0" x 8.0" (Single Unit) 406mm x 229mm x 203mm
		22.0" x 17.0" x 9.0" (Dual Unit) 559mm x 432mm x 229mm
Container Weight:		7.14lbs (Single Unit) 16.06lbs (Dual Unit)
Supply voltage ran	ges:	Nominal +/- 10%
Watts (Typ):		15 / 120mA (120 VAC Units) 16 / 120mA (230 VAC Units - 60 Hz) 16 / - (230 VAC Units - 50 Hz) 24 / 2.0A (12 VDC Units - Standard) 8 / .62A (12 VDC Units - Low wattage) 20 / 920mA (24 VDC Units) 13 / 2175mA (48 VDC Units)
Power Factor:		.2 (FAA - 120 VAC Units) .17 (FAA - 230 VAC Units - 60 Hz)
Operating Temp:		-67°F to +131°F (-55°C to +55°C)



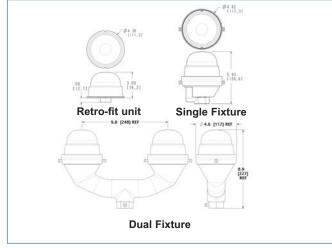
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Qualified By: Intertek ETL Lighting Sciences Canada DGAC Mexico

Patents Pending

Vigilant[™] L-810 RTO Series Red LED Obstruction Lights



Order codes:

RTO-1R07-001	Single Fixture, FAA, 120-230 VAC
RTO-6R07-001	Single Fixture, TC, 120-230 VAC
RTO-1R06-001	Single Fixture, FAA, 277 VAC
RTO-1R08-001	Single Fixture, FAA, 12-48 VDC
RTO-1R07-001-EU	Single Fixture, European Ver, 120-230 VAC
RTO-1R07-002	Dual Fixture, FAA, 120-230 VAC
RTO-6R07-002	Dual Fixture, TC, 120-230 VAC
RTO-1R06-002	Dual Fixture, FAA, 277 VAC
RTO-1R08-002	Dual Fixture, FAA, 12-48 VDC
RTO-1R07-002-EU	Dual Fixture, European Ver, 120-230 VAC
RTO-1R07-004	Single Retro-Fit Fixture, FAA, 120-230 VAC
RTO-6R07-004	Single Retro-Fit Fixture, TC, 120-230 VAC
RTO-1R06-004	Single Retro-Fit Fixture, FAA, 277 VAC
RTO-1R08-004	Single Retro-Fit Fixture, FAA, 12-48 VDC
RTO-1R07-004-EU	Single Retro-FitFixture, European Ver, 120-230 VAC

Dimensions in Inches [mm]

Features & Benefits:

- ▷ Available in 120 277 VAC and 12 48 VDC
- ▷ Simple retro-fit using existing wiring and housing
- ▷ Weather/corrosion resistant lamp assembly and housing
- ▷ Self-contained wiring compartment eliminates additional boxes
- ▷ Threaded 1" and 3/4" bottom hub for mounting
- ▷ Can be operated steady or flashed
- ▷ Uses 95% less energy than incandescent
- ▷ 5 year warranty
- Resistant to shock and vibration
- ▷ IP65 / IP66 / NEMA 4X

Application:

The Dialight Vigilant™ RTO Series obstruction light utilizes a unique optical, electrical and mechanical design. The RTO series is the most universal, compact and efficient obstruction light in the world. ETL Certified to the FAA requirements, the RTO series fixture is also ICAO and Transport Canada compliant. Also available as a single fixture for direct replacement of incandescent lamp/lens technology.

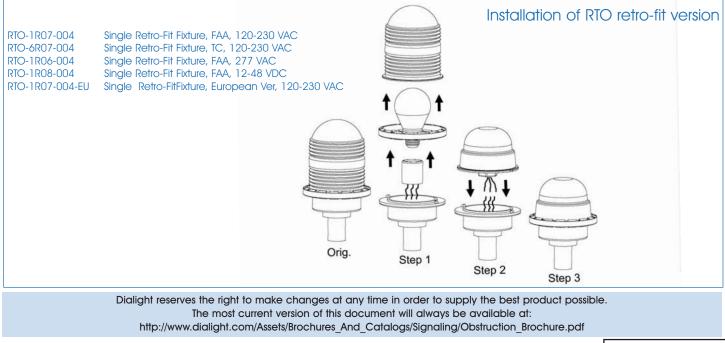
Container Dimensions:	7.60″ x 5.25″ x 5.75″ (Retro Unit) 193mm x 133mm x 146mm
	7.60" x 5.25" x 5.75" (Single Unit) 193mm x 133mm x 146mm
	18.6" x 12.5" x 6.40" (Dual Unit) 472mm x 318mm x 163mm
Container Weight:	1.25lbs (Retro Unit) 2.00lbs (Single Unit) 4.60lbs (Dual Unit)
Supply Voltage Ranges:	Nominal +/- 10%
Nominal Input Power:	6.5 (FAA - 120/230 VAC Units) 8.5 (TC - 120/230 VAC Units) 8.0 (FAA - 277VAC Units) 3.5 (FAA - 12-48 VDC Units)
Power Factor:	>0.9 (All AC units)
Operating Temp:	-40°F to +131°F (-40°C to +55°C)

Vigilant[™] L-810 RTO Retro-Fit Series Red LED Obstruction Lights RETRO INSTALLATION STEPS:

- Remove existing lens and clamp from existing fixture
- ▶ Do not discard clamp 6 since it will be used to secure light assembly
- Remove and discard all internal components required for use with incandescent bulb
- Leave only the source wires that lead into the existing base
- Electrically connect the supply wires to the light assembly wires
 same as SINGLE FIXTURE installation
- Tuck the connected wires inside the existing base
- Place light assembly on existing base and secure using existing clamp
- Restore power and verify operation

RETRO ONTO 3/4-14 NPT CONDUIT INSTALLATION STEPS:

- Electrically connect the supply wires to the light assembly wires (same as SINGLE FIXTURE installation)
- ▶ Use a 1-1/4" wrench to tighten and attach the light assembly to the conduit
- Restore power and verify operation Please refer to product data sheet for electrical parameters if required



Obstruction_Brochure_D

