

L550 D&E SERIES

Medium Intensity LED Aviation Obstruction Lighting Systems
with Optional Integrated Monitoring

TWR

Enlightened Technology



STANDARD FEATURES

- 5-Year warranty
- Single cable, single controller design
- Switch mode power supply for maximum energy efficiency
- 95% lens efficiency minimizes ground scatter
- Automatic failsafe
- Built-in overvoltage protection
- Stabilized intensity across full operational temperature range
- 15-Year field-proven power supply
- 20-Year robust construction design life
- Low total cost of ownership

OPTIONAL FEATURES

- Integrated digital monitoring system
- Infrared output at 850nm
- Internal GPS for synchronized flashing
- Remote photocell control input/override

The L550-D Series (White) and L550-E (Dual Red and White) are FAA L-864/865 medium intensity LED aviation obstruction lighting systems designed for reliable day and night time marking of structures between 200' and 700' AGL (above ground level) that represent a hazard to aviation. The systems meet the FAA AC70/7460-1L specifications and comply with multiple International standards, including ICAO Annex 14, CAR 621 (Canada) and DGAC (Mexico).

The L550 D&E systems feature a single combined power and alarm connection cable for easy installation, a modular designed controller, wireless or TCP/IP monitoring options for monitoring beacon failure, heartbeat (active confirmation), power and photocell functionality, as well as custom NOC software and service options.

The L550 beacon is lightweight and can be used as a standalone light or as part of a system. Designed for a life expectancy of 20 years, the L550 boasts a rugged housing based on 30 years of offshore product design experience. Featured inside the beacon are proprietary optics that produce a highly accurate and uniform narrow light beam, and a robust power supply that does not use electrolytic capacitors, allowing for longer life to match the LED life.

SPECIFICATIONS

		Power Consumption	Flash Rate	Flash Intensity	
L-864	Night (Red)	< 17 W	30 FPM	2,000	CD ± 25%
L-865	Day (White)	< 36 W	40 FPM	20,000	CD ± 25%
	Night (White)	< 7 W	40 FPM	2,000	CD ± 25%

L550 D&E SERIES

Medium Intensity LED Aviation Obstruction Lighting Systems
with Optional Integrated Monitoring

TWR

Enlightened Technology

Operating Voltage	120-230 VAC
Frequency	50-60 Hz
Overvoltage Protection	Built in, designed to meet: Class III according to IEC61643-1, Class D
Beacon Dimensions (LxWxH)	20.1 x 20.1 x 9.5 in. (510 x 510 x 240 mm)
Beacon Weight	26.5 lbs. (12 kg)
Controller Dimensions (LxWxH)	15.46 x 13.15 x 6.25 in. (393 x 334 x 159 mm)
Controller Weight	13.5 lbs. (6 kg)
Protection Rating	IP65/NEMA 4
Operating Temperature Range	-67°F to 130°F (-55°C to 55°C)

CIP400TWR-DM Monitoring System (Optional)

Monitoring Features

- (10) additional alarm inputs
- Cabinet access alarm
- SNMP programming Get/Sets
- SNMP traps for alarms
- System operation event history record
- Manual control override of connected lights
- Cabinet temperature
- Backup battery discharge protection
- Real-time clock / Eprom for configuration
- 0-30 VDC analog monitoring ports

Monitoring Services

- FCC QLI Compliant
- Hark Web Portal to interrogate alarm status
- Automatic email notification of NOTAM status changes
- Online access for the client to research each site being monitored
- TWR NOC full reporting monitoring service
- HIMS (Hark Independent Monitoring Service) (Client-monitored)

Monitoring Options

- GPRS/CDMA wireless modem
- Ethernet TCP/IP modem
- TWR NOC software

SNMP Programming

Realtime to 10.100.1.207 @ 08:57:35

System Status: CIP Beacon System

System Info:
 Site Name: Crown Demo DMICIP Site ID: 800800
 Monitor Model: DMICIP/SNMP MAC Address: 00:40:9d:43:35:97
 Serial Number: 10000802E50A4529 Firmware Version: v1.03
 Description: TWR DMICIP SNMP Interface

Health Status:
 Last Cold Start: 12:09:15 01/22/2015
 Last Heartbeat: 08:50:33 02/05/2015
 Heartbeat Counter: 1993
 CIP / RS485 Comms: (Disabled)

Temperature:
 Current Temperature: 99.50 F
 Status: Temp Warm
 Severity: High Warning(4)
 No Severity(0)

Power Status:
 Status: Restored(2)
 Power Failure Counter: 0
 Severity: Informational(4)
 Last Power Failure: 12:10:48 01/22/2015

Battery Backup:
 Current Voltage: 13.55 VDC
 Status: OK
 State: Normal(3)
 Severity: Informational(4)

Photocell Photocell (CIP Controller):
 Status: TWILIGHT
 Counter: 63
 Time in Current State: 31 min
 State: Twilight(2)
 Severity: Informational(4)
 Last Day Mode: 16:44:09 02/04/2015
 Last Night Mode: 16:55:47 01/31/2015
 DC Photocell Value: -----

Auto Refresh: [] Interval: 5 secs Refresh Now

10 Additional Alarm Inputs

Realtime to 10.100.1.207 @ 08:58:35

System Status: CIP Beacon System

Alarm Input Status:

Input #	Current State	Condition	Quality Timer	Severity	State Counter	Active@
Input #1: Sidelights / Fail	Active(1)	Qualified	0.0 s	Major(2)	2	15:09:27 01/30/2015
Input #2: Generator / Running	Active(1)	Inactive@	0.0 s	Informational(4)	1	03:04:50 02/05/2015
Input #11: Battery Fault / OK	Inactive(0)	Qualified	0.0 s	Restore(5)	0	12:10:13 01/22/2015
Input #12: Battery Charger / Idle	Inactive(0)	Inactive@	0.0 s	Informational(4)	16	03:06:21 02/05/2015
Input #13: Cabinet / Open	Active(1)	Qualified	0.0 s	Minor(1)	2	15:11:49 01/23/2015

Auto Refresh: [] Interval: 5 secs Refresh Now

CIP Beacon System Information

Realtime to 10.100.1.207 @ 08:58:05

System Status: CIP Beacon System

CIP System Override Mode:

Number of Beacon Stations:	System Status:	Event(3)
Light Mode / Intensity: Night(1)	Photocell Mode: Twilight(2)	
Last Mode Change: 08:58:05 02/05/2015	Last Failure: 15:06:08 02/02/2015	
Last Event:	Last Restore: 15:07:08 02/02/2015	
Self Test Status: Passed	Last Self Test:	

Photocell Photocell (CIP Controller):
 Status: TWILIGHT
 Counter: 63
 Time in Current State: 32 min
 State: Twilight(2)
 Severity: Informational(4)
 Last Day Mode: 16:44:09 02/04/2015
 Last Day Fall: 16:55:47 01/31/2015
 Last Night Fall: 16:55:47 01/31/2015
 DC Photocell Value: -----

Beacon / Station Status:

Beacon #1: Status:	Normal(1)	Boot Version: v109
Severity: Informational(4) <td>Firmware Version: v105 <td></td> </td>	Firmware Version: v105 <td></td>	
Connection Status: Normal(0) <td>Self Test Status: Passed(2) <td></td> </td>	Self Test Status: Passed(2) <td></td>	
Last Restore: 15:07:08 02/02/2015 <td>Last Event: 16:55:47 01/31/2015 <td></td> </td>	Last Event: 16:55:47 01/31/2015 <td></td>	
Last Failure: 15:06:08 02/02/2015 <td>Last Not Config:</td> <td></td>	Last Not Config:	

Beacon #2: Status: Normal(1)
 Severity: Informational(4)
 Connection Status: Normal(0)
 Last Restore: 15:07:08 02/02/2015
 Last Failure: 15:06:08 02/02/2015

Boot Version: v109
 Firmware Version: v105
 Self Test Status: Passed(2)
 Last Event: 16:55:47 01/31/2015
 Last Not Config:

Auto Refresh: [] Interval: 5 secs Refresh Now