



RELIABILITY
IN OBSTRUCTION
LIGHTING

EDITION 9



FAA OBSTRUCTION LIGHTS

TELECOM

BROADCASTING TOWERS

CHIMNEY

AIRPORT

WINDTURBINES

BUILDINGS



www.obsta.com



Introduction

2



Red lights L-810(L)(F)

12



Medium Intensity lights L-865, L-864, L-865/L-864

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High Intensity lights L-856

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Spherical markers for cables

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Company history

OBSTA, is part of an industrial group that engineers, manufactures and sells obstruction lights for transmission lines, telecom, broadcasting towers and all kind of obstacle to air navigation since more than 30 years. Our obstruction lights are manufactured by us compliant with ICAO annex 14 chapter 6 (International Civil Aviation Organization) recommendations and the FAA (Federal Aviation Administration). OBSTA has manufacturing facilities in France and has sales offices located in France, Germany, USA, and China.



A long history

Before Obsta was part of the company Claude that was manufacturing all kind of lamps. This company was created by Georges Claude (September 24th 1870 – May 23th 1960) a French physicist and chemist :



- 1902** : Extraction of rare gas from the air (neon, argon, xenon..) and creation of the company Air liquide
- 1910** : Invention of the first modern patented discharge lamp tube and creation of Claude company manufacturing all kind of discharge and incandescence lights
- 1960** : Invention of the first balisors for transmission lines
- 2003** : New led NAVILITE obstruction lights red fixed
- 2008** : New obstacle light with linear optic for discharge and LED lights.
- 2012** : New medium and high intensity LED lights.

Specialist in obstruction lighting

Over the years, three large product families (neon xenon and led type) have been developed in the respect of the most severe standards, requested by our customers. OBSTA lights are designed in the respect of the latest international standards that are ICAO and FAA. They constitute a complete range of low intensity or L-810, medium intensity or L-865/L-864 and also high intensity obstruction lights, ideal for broadcasting towers, telecom mast, transmission lines, stacks and wind turbines.



Led NAVILITE® red fixed obstruction lights (low intensity and L-810) since 2003 The NAVILITE series is dedicated to night only obstruction lights especially for telecom mast, buildings close to airports and all kind of obstacle below 45 meters high. Completely molded with 64 leds divided in 16 independent led circuits, they are ideal for all kind of obstacle



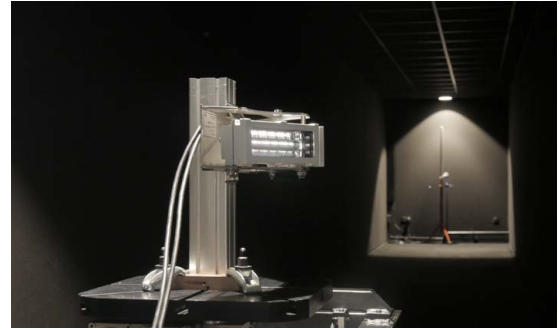
- Led OBSTAFLASH : OBSTAFLASH white and red flashing for high structures medium intensity type A and B/C, L-865/L-864, L-865, L-864 and L-810.
High intensity type A and B



Test facilities

In order to test its products internally for standards compliance and to evolve toward greater reliability OBSTA has several test sites (France, USA) equipped with :

- Photometric band with visible and infrared capability
- 1.2/50-8/20 μ s hybrid wave generators up to 20 kV/10 kA
- HT digital Oscilloscope fast
- Material for test environment (damp heat, climate, shock)




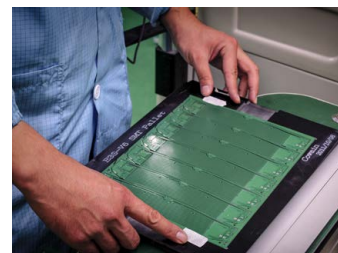
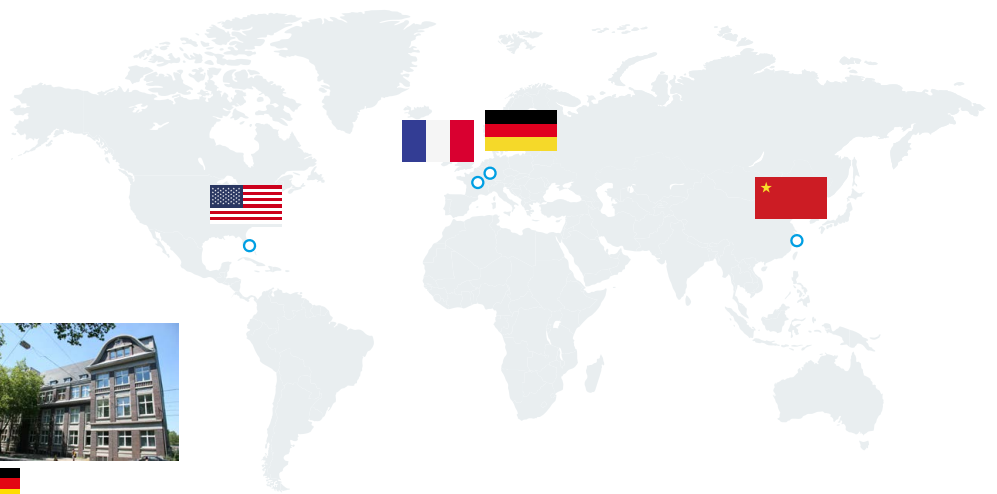
An international company




Sèvres -
 Head Office - France and
 Export Sales Office




Reims -
 Production plant
 and logistics platform





Any object which could represent a hazard for low-flying aircraft must be marked by beacon lights. The ICAO (International Civil Aviation Organization - appendix 14, Chapter 6) and the FAA (Federal Aviation Administration - USA) lay down internationally applicable rules on the characteristics of the beacons and their installation.

Some points of the regulations (depending on the type of obstacles which must be marked), and the corresponding installation rules, are given below.

Intensity	Color	Type		flashes per minute	Night (Cd)	Day (Cd)	Twilight (Cd)
		ICAO	FAA				
LOW	Red	B	L-810	Steady or flashing with L-864	≥ 32.5	light OFF	
MEDIUM	Red	B	L-864	30 fpm	2,000 ± 25%	light OFF	
	Dual Color	A & B	L-865 / L-864	40 fpm (white) 30 fpm (red)	2,000 ± 25%	20,000 ± 25%*	20,000 ± 25%*
	White	A	L-865	40 fpm	2,000 ± 25%	20,000 ± 25%*	20,000 ± 25%*
HIGH	White	A	L-856	40 Fpm	2,000 ± 25%	270,000 ± 25%*	20,000 ± 25%*

* : FAA requires a flash duration of 100ms max with Blondel-Rey formula for effective intensity.
NVG compatible for L-810 and L-864 lights

In order to help you choosing the proper light you need, you will find common configurations.
The recommendations and rules mentioned below **are only given for information based on the FAA circular**

Obstruction light classification

FAA & ICAO type		OBSTA designation	OBSTA part number (FAA)	Compliance statement
L-810	Low intensity type B	NAVILITE-FAA	113969IR	FAA (150-5345-43J) ETL certified + compliant with ICAO low intensity type B
L-865	Medium intensity type A (white flashing light)	Obstafash OF360-WW-240-U; OFI360-WW-240-U; OFI120-WW-048-U; OFI120-WW-048/240-U; OFI120-WW-240-U; OFI-WW-048-U	113723U; 113723UI; 113711U; 113757U; 113713U; 113791U	FAA (150-5345-43J) L-865 ETL certified + compliant with ICAO medium intensity type A
L-864	Medium intensity type B (red flashing light)	Obstafash OF360-R-240; OFI360-R-240; OFI120-R-048-U; OFI120-R-048/240-U; OFI120-R-240-U; OFI-R-048; OFC-RR-240; OFC-RR-048	113724; 113724I; 113710U; 113756U; 113714U; 113790; 113790RR-240; 113790RR-048	FAA (150-5345-43J) L-864 ETL certified + compliant with ICAO medium intensity type B
L-865/L-864	Dual color medium intensity type A and B	Obstafash OF360-RW-240-U; OFI-RW-240-U; OFI120-RW-240-U; OFI120-RW-48/240-U; OFI120-RW-048-U; OFI360-RW-048-U	113725U; 113725UI; 113715U; 113758U; 113712U; 113792U	FAA (150-5345-43J) L-865/L-864 ETL certified + compliant with ICAO medium intensity type A & B
L-864 OFC	Medium intensity type B (red)	Combi lights OFC-RI-240; OFC-RI-048	113790RI-240; 113790RI-048	FAA (150-5345-43J) L-864 ETL certified + compliant with ICAO medium intensity type B
L-856	High intensity	Obstafash OFH-120-WW-240-U	113780U	FAA (150-5345-43J) L-856 pending



Use cases for towers with red and white painted bands
Night only operation



1 OBSTAFASH RED COMPACT
Medium Intensity Red only
L-864



2 NAVILITE
Low Intensity Red
L-810(F)

350-700 ft
(107-213 m)

1 TOP LEVEL

From 700 feet to 2200 feet
L-864 at every levels

150-350 ft
(46-107m)

1 TOP LEVEL

1 MID LEVEL

2 MID LEVEL

Up to 150 ft
(up to 46m)

TOP LEVEL **2**

A2

A1

Controler + photocell

A0



Use cases for towers without painting bands
Day and Night operations (white color only)

1 OBSTAFLASH
Medium Intensity white
L-865

2 OBSTAFLASH WHITE
Medium intensity
L-865

350-700 ft
(107-213 m)

1 OR **2** TOP LEVEL (3 METERS BELOW THE TOP)

200-350 ft
(61-107m)

1 TOP LEVEL

1 OR **2** MID LEVEL

2 power supplies at the bottom
+ 1 photocell

power supply + day/night
photocell at the bottom

D1

D2



Use cases for towers from 45m to above 105m
Day and Night operations (white day, red at night)

350-700 ft (107-213 m)

- 1 TOP LEVEL
- OR
- 3 3 meters below the top

200-350 ft (61-107m)

- 1 OR 3 TOP LEVEL

MID LEVEL

- 1 OR 3

- 2 MID LEVEL

E2

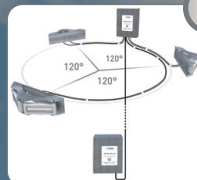
E1



1
113725UI
Dual color medium intensity



2
113969
NAVILITE
Low Intensity Red L-810(F)



3
113758U
OBSTAFLASH120 KIT
dual color medium intensity



Stack without red & white stripes 45 to 105 meters high. Lights operating Day and night.

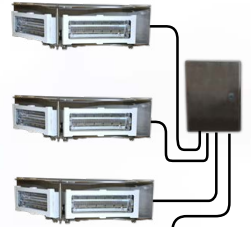
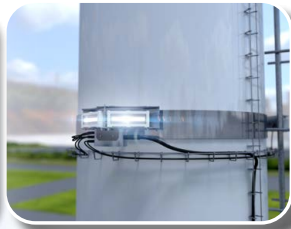


**3 LED OBSTAFLASH120 dual color medium intensity
L-865 / L-864 20 feet max**
2-6 meters below the top to avoid the smoke to hide the lights

RED AT NIGHT



WHITE AT DAY



3 L-810 (F) at mid level

RED FIXED AT NIGHT



DAY OFF



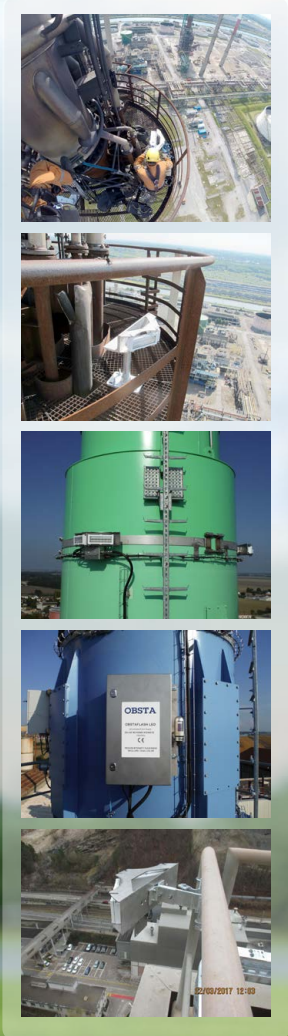
FAA L-810 (F)
type with
NPT pipe



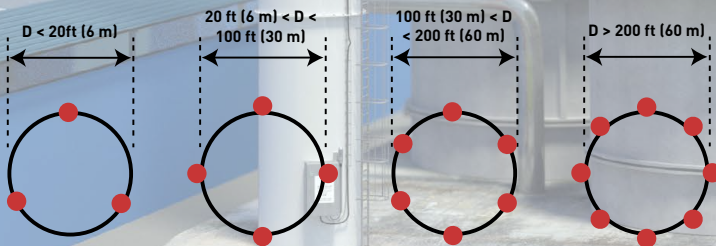
Photocell
north oriented



110 to 240 VAC



Number of lights per level depending on the diameter of the chimney



These configurations
can be modified if stack
are close to each other



Use case for crane with yellow markings



L-864 on the top of the tower crane

**L-810 on the jib and counter jib
and at mid level of the tower crane**



TOP LEVEL



NVG compatible

Red compact medium intensity L-864

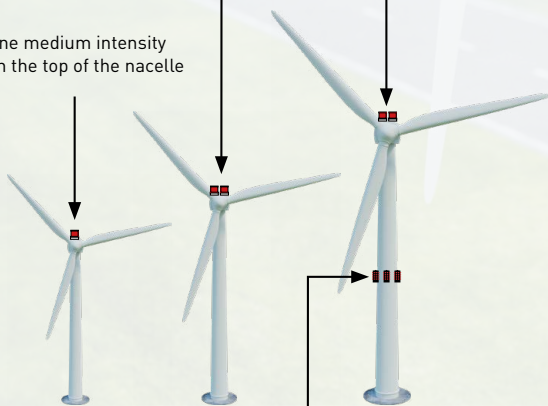


NIGHT OPERATION

Two medium intensity light mounted on opposite rear sides of the nacelle



One medium intensity on the top of the nacelle



3 or more FAA L-810(F) spaced around the mast configured to flash in sync with red medium intensity



MID LEVEL



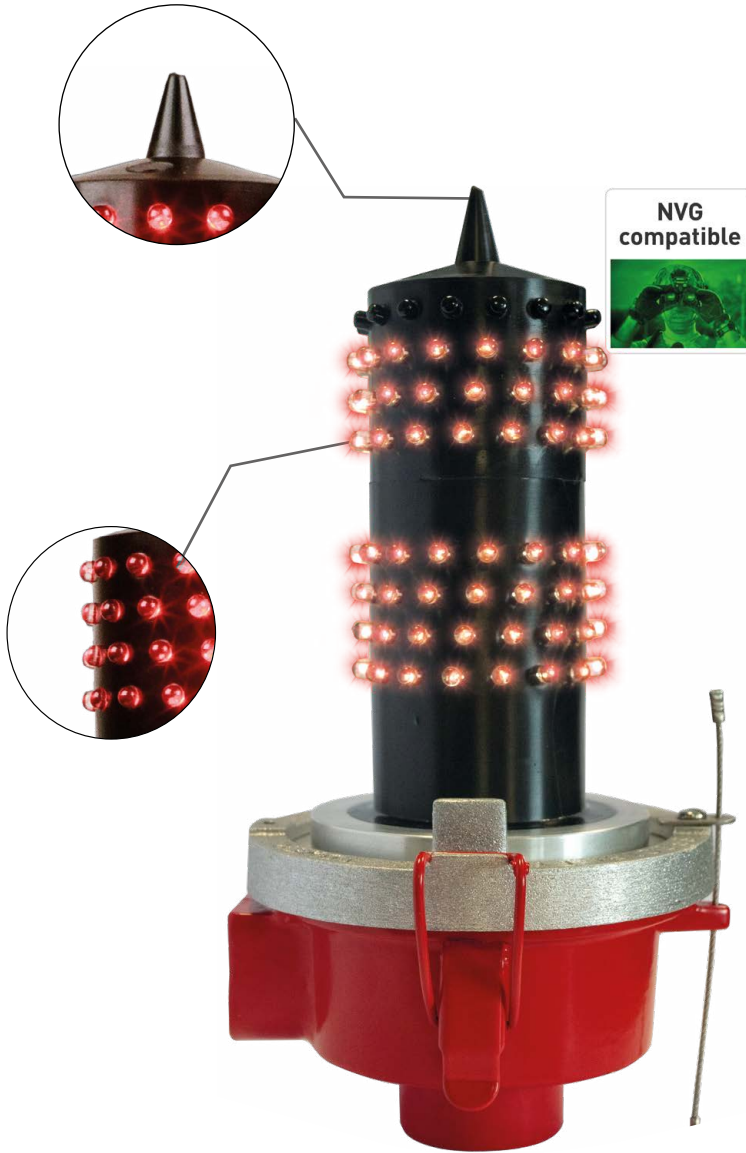
In option Navilite low intensity L-810(F)

For FAA, 1 or 2 L-864 flashing red light at the top of the nacelle depending on the height of the windturbine :

- 1 single FAA type L-864 if **windturbine ≤ 499ft (152m)**
- 2 FAA type L-864 if **499ft (152m) ≤ windturbine ≤ 699ft (213m)**
- 3 or more FAA type L-810(F) spaced around mast at mid level for **turbine > 699ft (213m)**.

NAVILITE-IR-FAA-120-240V

L-810(L)(F) as per FAA 150-5343J ETL certified



**Night Vision Goggles
compatible according to FAA**

One-piece molded

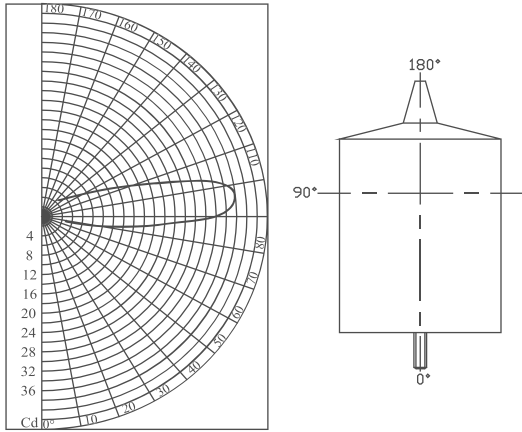
- Light perfectly waterproof
- no corrosion risk
- no losing parts
- bird spike
- 2 x1" NPT threaded holes

Key points

- L-810(L)(F) type
- Light part completely molded with 4 levels of leds
- Redundant circuits for LED's: 28 circuits of 4 red leds and 4 circuits of 4 infrared leds
- Surge protection and alarm included
- 3/4" NPT threaded holes for mounting or stainless bracket
- No losing part during installation
- Flashing mode (F) activated with red only L-864 medium intensity P/N113790RI-240, P/N113756U & P/N113714U and dual color L-865/L-864 medium intensity P/N113725UI, P/N113751U & P/N113758U

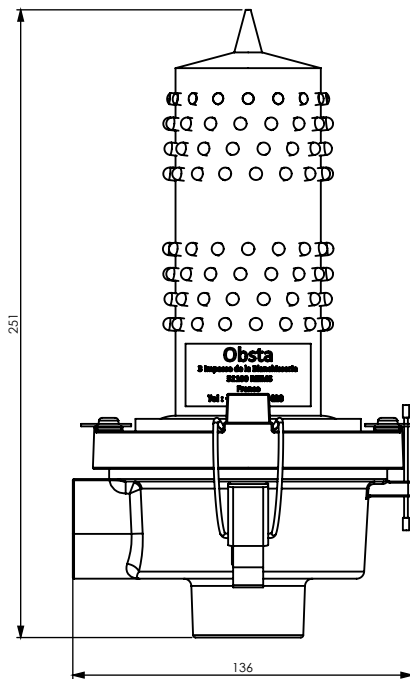


LIGHT INTENSITY DIAGRAM



	NAVILITE L-810
IP degree	65 in vertical position
Operating temperature	-40° to + 55°C
Power supply	110 VAC to 240VAC
Weight (light + base)	1.4 kg (fixed through vertical or horizontal NPT)

DIMENSIONS (IN MM)



ACCESSORIES

- Support for horizontal or vertical attachment

MAIN REFERENCE

Designation	Part number	Power supply	Luminous intensity + infrared	Average Wattage
NAVILITE-IR-FAA-100-240V	113969IR	110 VAC to 240 VAC	As per FAA (150-5345-43J)	8 W (fixed mode)



OBSTAFLASH COMPACT OFC

L-864 FAA (AC 150/5345-43J) ETL certified
ICAO Red Medium intensity type B & C / CAA compliant (fixed mode)



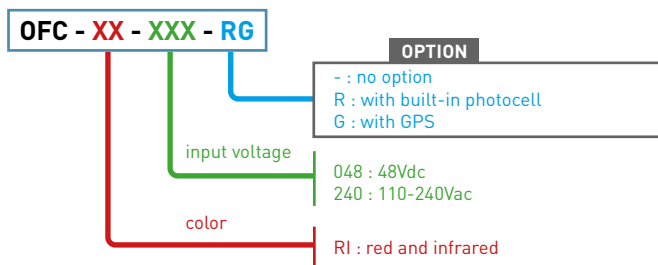
Characteristics

- Hard glass cover (no plastic) and aluminum based
- Easy installation with only captive parts
- 2 LED circuits
- Alarm in case of light or power failure
- Low consumption
- Surge protection included
- "Night Vision compatible" as per Swiss directive and FAA regulation 150/5345-43J
- Photocell and GPS built-in in option



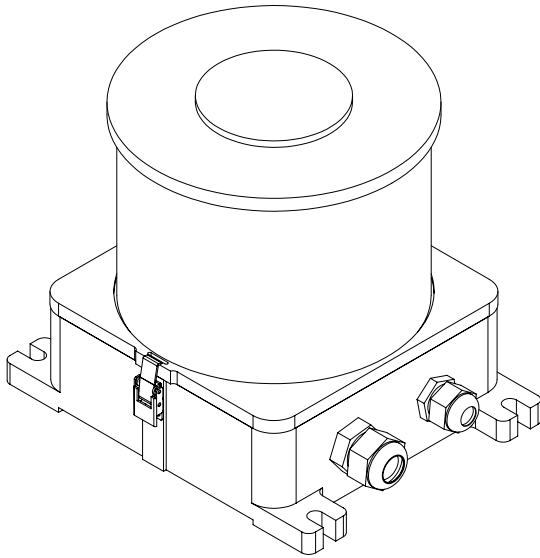
Night Vision Goggles compatible according to FAA

Product range OBSTAFLASH COMPACT OFC ICAO Red Medium intensity type B & C / L-864 / CAA





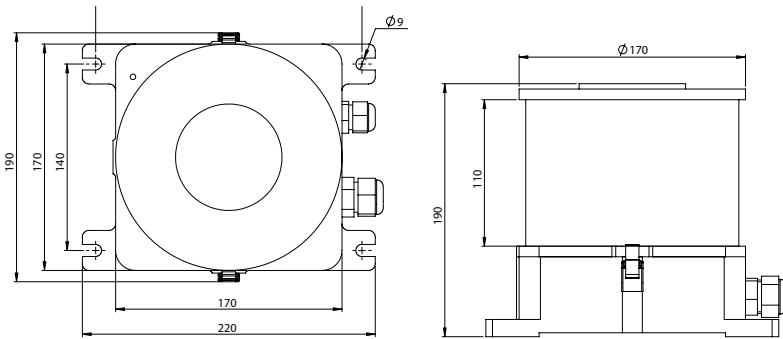
WEIGHT & DIMENSIONS (IN MM)



	OFC
IP degree	66
Operating temperature	-40°C to +55°C
Cable entries	2 nickel-plated brass
NVG compatible for OFC-RI	
IR intensity and wavelength	600mW/sr @ 800-900nm
Weight	5kg

ACCESSORIES

- Built in GPS for wireless synchronisation
- Built in Photocell for night only operation
- Optional wiring accessories
- junction box part number 113943-AL
- monitoring box for OFC & Navilite



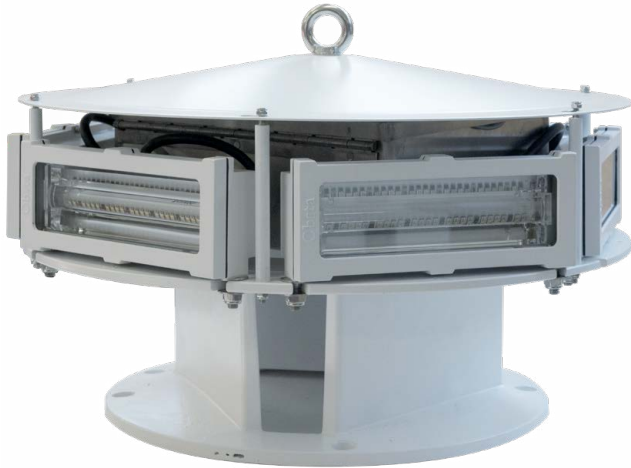
MAIN REFERENCE FOR OFC-RI-XXX / FAA L-864

designation	part number	Voltage	Color	IR intensity and wavelength	Luminous intensity	Flashes per minute	Average power consumption
OFC-RI-048	113790RI-048	48Vdc	red	600mW/sr @ 800-900nm	2000cd RMS	As per FAA	< 10 W
OFC-RI-240	113790RI-240	100-240Vac	red				< 10 W



OBSTAFLASH OFI360

L-865/864 FAA (AC 150/5345-43J) ETL certified
ICAO white & red Medium intensity type A+B



Flashhead with integrated 48VDC power supply
Patent : EP 1966535B1 & US 7816843

Dual Color Flashhead

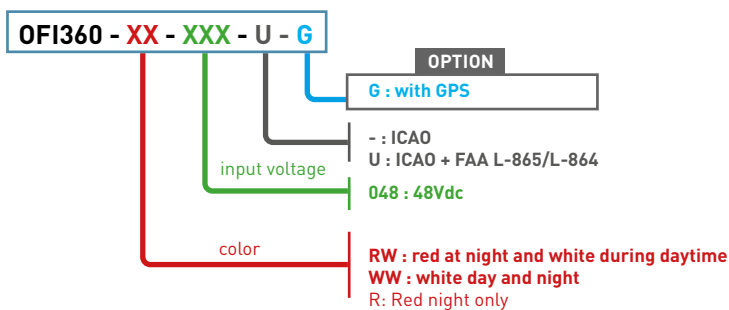
- 6 led replaceable projectors
- Aluminium and glass envelope
- Modular design
- Easy maintenance
- Precise optic , low led current for optimal lifetime
- Integrated 48 VDC power supply inside the flashhead
- Luminous indicator for each led circuits
- Captive parts
- 48 Vdc surge protection included
- Test button and luminous indicators



Night Vision Goggles compatible
according to FAA



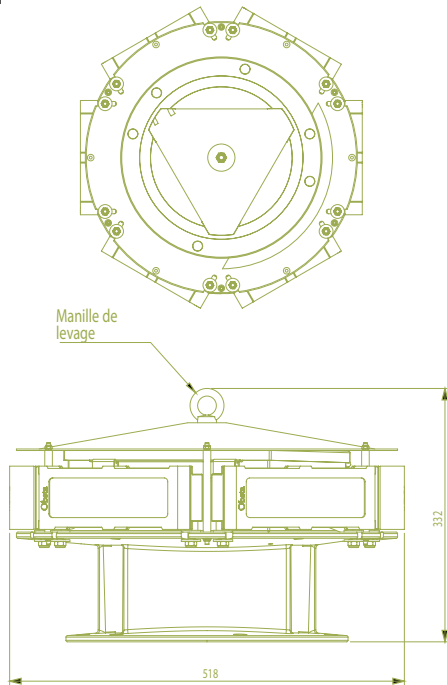
Product range OBSTAFLASH OFI360
Obstaflash Medium intensity with 48Vdc integrated power supply
ICAO White and Red Medium Intensity type A and B





WEIGHT & DIMENSIONS (IN MM)

Flashhead



IP degree for power cabinet	65 in vertical position
Operating temperature	-30° to +55°C
Input voltage	48 Vdc +/-15%/ -5%
Cable entry for flashhead, power supply, photocell and alarm	1 nickel plated brass

ACCESSORIES

- Option with GPS inside the light P/N 113752U-G for wireless synchronization
- 48vdc photocell part number 100755
- 48Vdc battery cabinet (input voltage 100-240VAC) for 12 hours back-up part number 113956

MAIN CHARACTERISTICS

Main characteristics	Effective Luminous output on site at 0°		Color		Beam Spread		Flashes per minute
	Day	Night	Day	Night	Vertical	Horizontal	
Red only (L864)	light off	2000 Cd	light off	Red	> 3°	360°	As per ICAO or FAA
White only (L865)	20 000 Cd	2000 Cd or off	White	White or off			
Dual color (L865/L864)	20 000 Cd	2000 Cd	White	Red			

MAIN REFERENCE

Designation	part number	input voltage	ICAO category	FAA category	Color
OFI360-RW-048-U	113792U	48Vdc	Medium intensity type A & B	L-865/L-864	dual color
OFI360-WW-048-U-G	113792U-G		Medium intensity type A	L-865	white
OFI360-R-048-U	113790		Medium intensity type B (or C, CAA)	L-864	red





KIT OBSTAFLASH OFI360 110-240 Vac

L-865/864 FAA (AC 150/5345-43J) ETL certified
ICAO white & red Medium intensity type A+B



Flashhead with integrated 48VDC power supply
Patent : EP 1966535B1 & US 7816843

Flashhead

- 6 led replaceable projectors
- Aluminium and glass envelope
- Modular design
- Easy maintenance
- Precise optic , low led current for optimal lifetime
- Integrated 48 VDC power supply inside the flashhead
- Luminous indicator for each led circuits
- Captive parts
- 48 Vdc surge protection included
- Test button and luminous indicators



Night Vision Goggles compatible
according to FAA

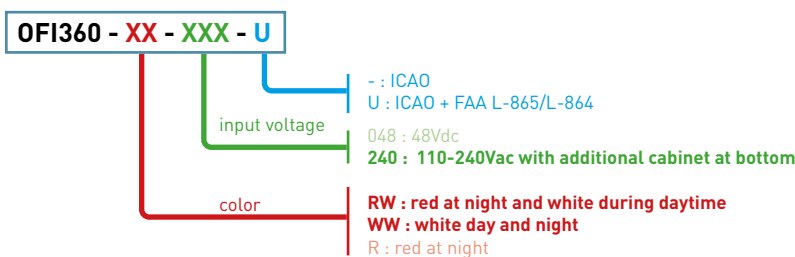


120-230 VAC Power cabinet

- Available in 120 /230 Vac
- Surge protection
- Automatic day/night switch with photocell
- Test button for day and night
- Modular design
- side lights in option
- Alarm contact
- Master/slave configuration for multiple lights synchronization

Product range OBSTAFLASH OFI360

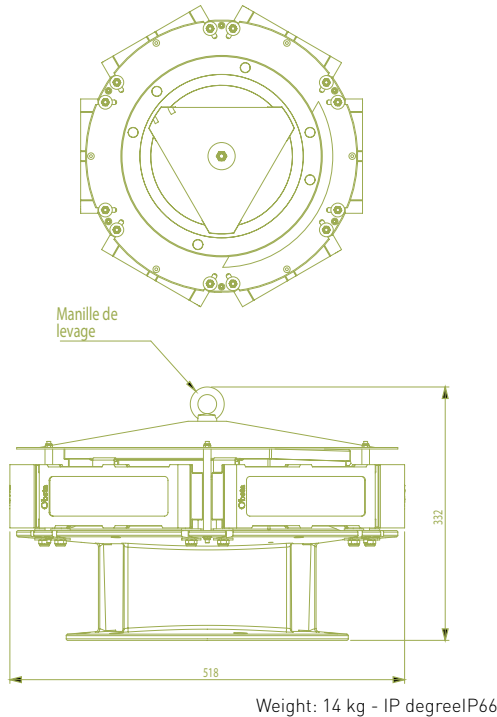
Obstaflash Medium intensity with 48Vdc integrated power supply
ICAO White and Red Medium Intensity type A and B





WEIGHT & DIMENSIONS (IN MM)

Flashhead



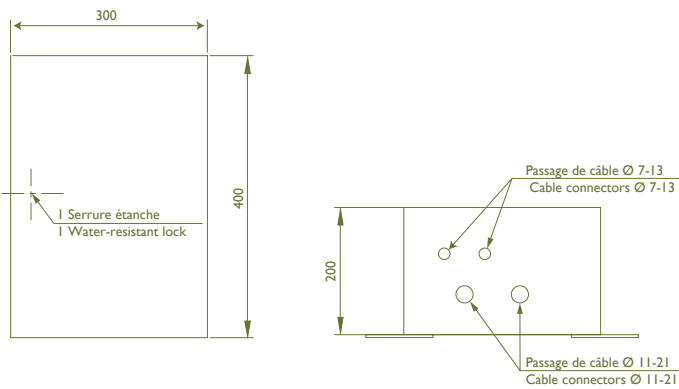
SETS COMPOSTION

IP degree for power cabinet	65 in vertical position
Operating temperature	-30° to +55°C
Input voltage	110 VAC to 240 VAC +/-10% 50 to 60 Hz
Cable entry for flashhead, power supply, photocell and alarm	4 nickel plated brass

ACCESSORIES

- GPS module for wireless synchronization in case it is not possible to connect the lights by wires.
- Photocell part number 100755.

Control cabinet



MAIN CHARACTERISTICS

Main characteristics	Effective Luminous output on site at 0°		Color		Beam Spread		Flashes per minute
	Day	Night	Day	Night	Vertical	Horizontal	
Red only (L864)	light off	2000 Cd	light off	Red	> 3°	360°	As per FAA
White only (L865)	20 000 Cd	2000 Cd or off	White	White or off			
Dual color (L865/L864)	20 000 Cd	2000 Cd	White	Red			

MAIN REFERENCE

Designation	part number	input voltage	ICAO category	FAA category	Color
OFI360-RW-240-U	113725UI	110-240Vdc	Medium intensity type A & B	L-865/L-864	dual color
OFI360-WW-240-U	113723UI		Medium intensity type A	L-865	white
OFI360-R-240-U	113724I		Medium intensity type B (or C, CAA)	L-864	red

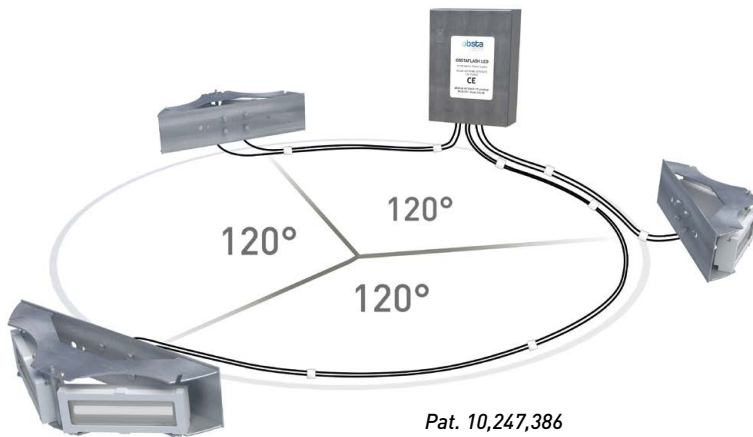


KIT OBSTAFLASH OFI120

L-865/864 FAA (AC 150/5345-43J) Certified
ICAO white & red Medium intensity type A+B



Night Vision Goggles compatible according to FAA



Kit including 3 Obstaflash120

- 2 led projectors with 10 meters cable
- Aluminium and glass envelope
- Connection with connectors for dual color and gland for red only
- Precise optic for optimal power consumption,
- Electronic deported in external cabinet



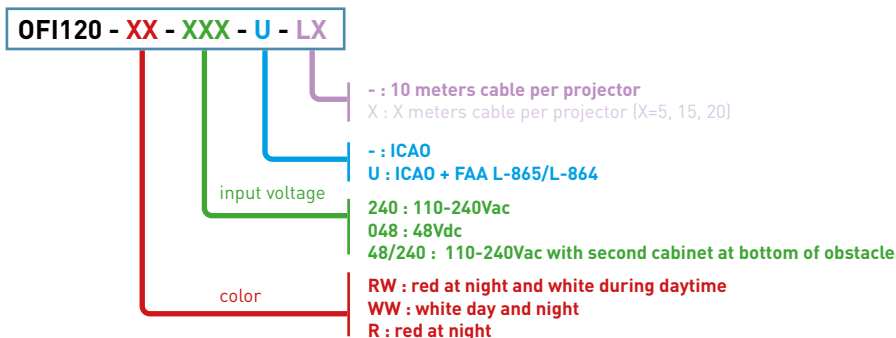
Power cabinet

- Stainless enclosure
- Surge protection
- Test button for day and night, 1 luminous indicator per white led projector,
- Modular design,
- Alarm contact
- Master/slave configuration for multiple cabinet
- Connection terminal for 48V low intensity at intermediale level working at night only
- Available with or without back-up power supply



Product range OBSTAFLASH OF120

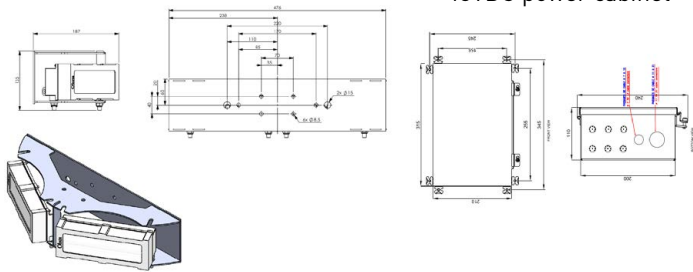
Kit including 3 Obstaflash120 medium intensity flashheads + power supply at same level,
ICAO White and Red Medium intensity type A and B & C / CAA / STAC





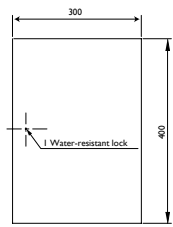
COMPOSITION PER ITEMS

OFFP-120

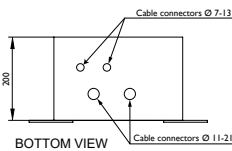


- 48VDC power cabinet

IP degree for power cabinet	65 in vertical position
Operating temperature	-30° to +55°C
Input voltage	110 VAC to 240 VAC 50 to 60 Hz or 48VDC +/-15% / -5%
Cable entry for flashhead, power supply, photocell and alarm	4 nickel plated brass



- 110-240 AC power cabinet



ACCESSORIES

- GPS part number 113746 for wireless synchronization
- 48vdc photocell part number 100755
- 48Vdc battery cabinet (input voltage 100-240VAC) for 12 hours back-up part number 11395.

MAIN CHARACTERISTICS

Main characteristics	Effective Luminous output on site at 0°		Color		Beam Spread		Flashes per minute
	Day	Night	Day	Night	Vertical	Horizontal	
Red only (L864)	light off	2000 Cd	light off	Red	> 3°	360°	As per ICAO or FAA
White only (L865)	20 000 Cd	2000 Cd or off	White	White or off			
Dual color (L865/L864)	20 000 Cd	2000 Cd	White	Red			

	Designation	part number	Power supply	ICAO category	FAA category	System components
	OFI120-RW-48/240-U	113758U	110-230 VAC	Medium intensity type A and B	L-865/L-864, dual color medium intensity	3 x OFFP-120-RW-10L-U + OFFP-CAB-6P-L-RW-048 + OFI-CAB-1E-RW-240-U
	OFI120-WW-48/240-U	113757U		Medium intensity type A	L-865 white medium intensity	
	OFI120-R-048/240	113756U		Medium intensity type B	L-864 red medium intensity	
	OFI120-RW-048-U	113712U	48VDC	Medium intensity type A and B	L-865/L-864, dual color medium intensity	3 x OFFP-120-RW-10L-U + OFFP-CAB-6P-L-RW-048
	OFI120-WW-048-U	113711U		Medium intensity type A	L-865 white medium intensity	
	OFI120-R-048	113710U		Medium intensity type B	L-864 red medium intensity	
	OFI120-RW-240-U	113715U	110-230 VAC	Medium intensity type A and B	L-865/L-864, dual color medium intensity	3 x OFFP-120-RW-10L-U + OFFP-CAB-6P-L-RW-240-U
	OFI120-WW-240-U	113713U		Medium intensity type A	L-865 white medium intensity	
	OFI120-R-240	113714U		Medium intensity type B	L-864 red medium intensity	



LED OBSTAFLASH HI L-856

The OFH270K high intensity is a white color flashing obstruction light L-856. FAA certification pending



Flashhead

- 12 led projectors
- Aluminium and glass envelope
- Modular design
- Precise optic, low power consumption

Description

- 270 000 candelas during day time in white
- 20 000 candelas during twilight in white,
- 2000 candelas during the night white
- Rugged design
- Easy installation

Power cabinet per flashead

- Weathertight stainless steel enclosures (in vertical position),
- Surge protection
- Alarm monitoring
- Automatic day/twilight/night switch by photocell
- Luminous indicator for each projector
- Test button for day, twilight and night mode
- Modular design
- Low power consumption

Patent : EP 1966535B1 & US 7816843

Product range OBSTAFLASH OFH ICAO High Intensity type A / FAA

OFH-120 - XX - XXX-U

input voltage 240 : 110-240Vac

color

WW : white day twilight and night

RW : red at night and white during daytime & twilight

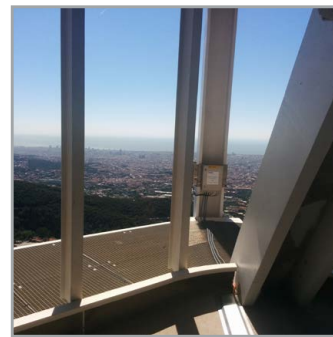


COMPOSITION

Obstruction lighting system 230 V - 50Hz	Part Number
Flashead + power cabinet	113780U
Photocell day/twilight/night	113135
HI controller	113625L

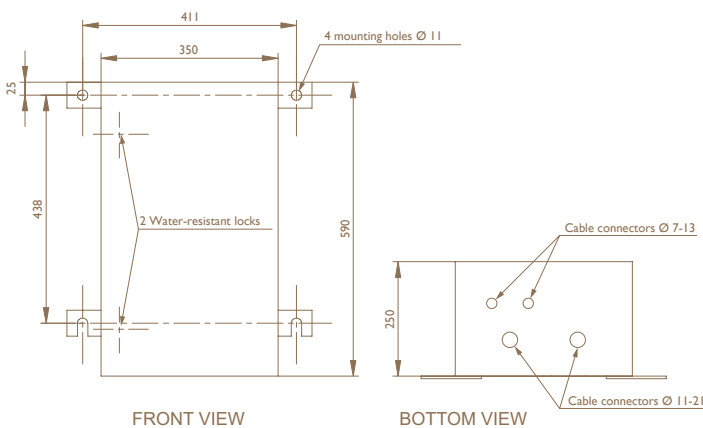
OTHER CHARACTERISTICS

- IP degree: 66 for the projectors and 65 for the stainless cabinet in vertical position,
- Weight per cabinet: 15kg,
- Weight per flashhead: 18kg (1kg per projector and 10kg for the stainless bracket),
- Temperature -30°C to +55°C,
- day/twilight/night automatic switch by external photocell
- Autonomous synchronisation (master/slave configuration) or with external controller
- GSM modem with optical network for remote diagnostic.



ICAO model

POWER CABINET



Main supply	Frequency	Wattage during day time
110V up to 240V	50/60 Hz	300 W

MAIN REFERENCE

Designation	part number	Luminous Intensity			Beam spread		Flashes/mi- nute
		Day	Twilight	Night	Vertical	Horizontal	
OFH-120-WW-240	113780U	270 000 Cd	20 000 Cd	2000 Cd	> 3°	120°	40



WARNING SPHERES

Those spherical markers are compliant with International Civil Aviation Organization (ICAO) recommendations annex 14 chapter 6 :

Paragraph 6.2.10: A marker should be of one color. When installed, white and red, or white and orange markers should be displayed alternately. The color selected should contrast with the background against it will be seen.



Plastic spheres

- diameter: 610 mm
- material: polyethylene
- weight: 4 kg
- colors : orange aviation or white
- clamps: adapted to the diameter of the cable
- quick assembly with 6 nuts only (no bolts)

MAIN CHARACTERISTICS

OBSTA part number	Material	Color *	Clamp diameter *	Armor rod *
13655	Plastic	Red aviation, orange aviation, white	From 9.3 mm to 54.8 mm	Optional

* to be defined when ordering

OBSTA part number	Material	Color *	Diameter of clamps *
113655AL	Aluminium	Red, orange or white	from 9 mm up to 67 mm

* to be specified at time order



Photocell for night only operation or dual color light



- plug-in modular construction with plated contact surfaces
- automatic control of the obstruction lighting according to ambient light
- timer to prevent the functioning of the cell at inopportunes times (eg lightning)

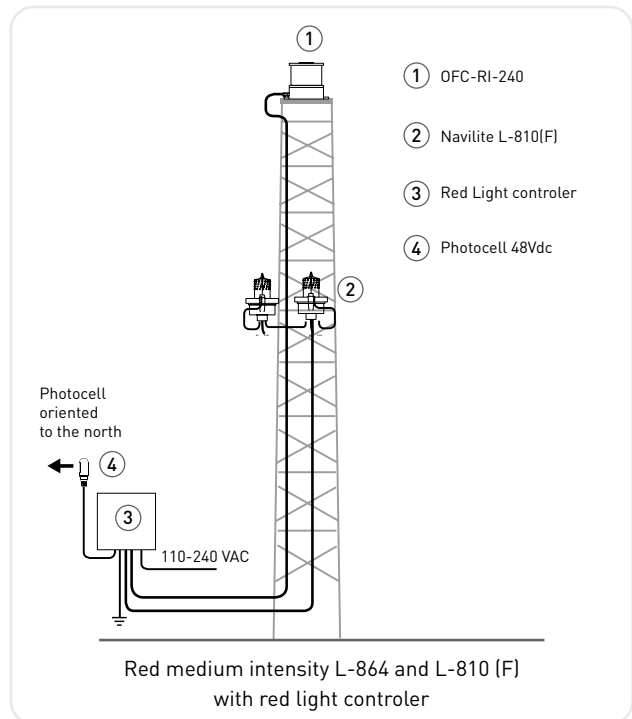
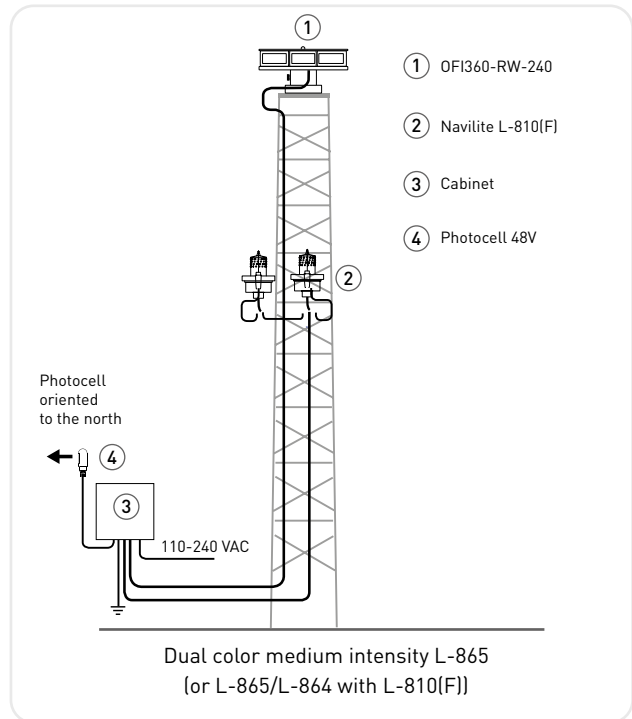
Part number	Power supply	Switching threshold of the cell
100756	110 to 240 VAC 50/60 Hz	2 output signals: - red only operation at night - white/red change for day & night operation
100757	10 Vdc to 60 Vdc	

RED LIGHT CONTROLLER

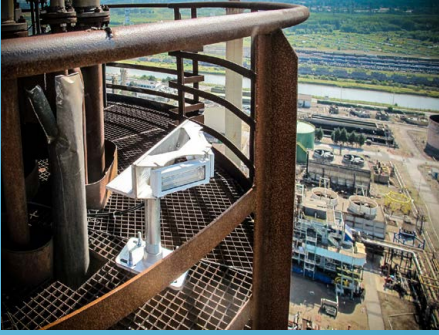


Part Number	Power supply
113176-240	110 to 240 Vac

- cable inputs by gland nickel plated brass
- 1 to 6 terminal connections for red lights L-810 (F) and L-864
- surge protection
- connection of the photocell, default information of lights
- on/off switch and remote/manual switch to bypass the photocell



FRANCE, Oil and Gas Chimney



MALAYSIA, Kuala Lumpur



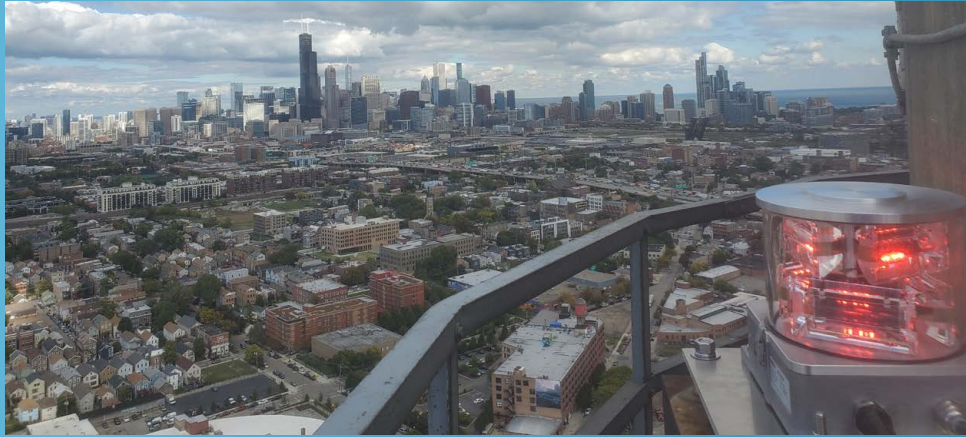
PARIS, Eiffel Tower



Broadcast tower



USA, Chicago



USA, Texas



BEIRUT, Damac Vercase Tower



FRANCE, Millau



CRANE IN MONACO



ABU DHABI, Four Seasons Hotel



USA



BRUXELLES, Diegem





RELIABILITY IN
OBSTRUCTION
LIGHTING

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RELIABILITY IN
OBSTRUCTION
LIGHTING



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