



Aviation Obstruction Light Product Line

International civil aviation authorities set requirements for lighting equipment used to increase conspicuous of structures early obstruction recognition by pilots.

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About us

Design, Quality and Value have made LANSING Lighting the partner of choice in the lighting industry over the past few years. LANSING products are built to last long, achieved through a high degree of craftsmanship, with lighting engineering experience. Established in the year 2009, at Shanghai China. We, LANSING are Specialized Manufacturer of Aviation Obstruction Lights conforming international standards (FAA, ICAO), to avoid Air accidents cause immense loss to human life and property. History is witness to innumerable air disasters. Accidents can be avoided by small precautions. Almost various measures, visual aids are of immense importance in creating a safer sky. Tall, man-made structures and other geographical obstructions pose threat to airplanes in poor visibility. Low flying aircraft, in spite of the modern navigational facilities on board, need prominent obstruction markings in their flight paths. These markings should be loud and clear to attract the pilot's attention we have a Complete Industrial LED Lighting Solutions, Our main product included Aviation Obstruction lights, Control Panel for aviation lights, Navigation Lights Portable Airfield Light, Helipad Light. Accessories, industrial Lighting.

The Entire product range is designed and fabricated by our expert team of professionals, who have strong technical and business skills. With the support of modern infrastructure and well qualified team, we are able to provide customized lighting products in the market. Satisfying the client's precise needs has been our foremost priority and we have formulated competitive price policy to meet this objective. We at LANSING Believe in strengthen our Team & resources and detail R&D engineering which enable us to know how to work with attention on the quality of details, customized solutions, customer care and support Our offered products are widely used in telecommunication network, harbor, wind turbine, production factories etc industries. There are many outstanding features that define LANSING brand: Customized solutions, reliability, Performance, Quality with Competitive price. This defines our USP (unique selling proposition).

Our goal

LANSING focus on R&D and dedicate to provide state-of-the-art product for our customer.

Our advantage

Deep understanding on technologies that our product require Absolutely following rules & regulations in the industry we are serving.

Our value

- Dedication
- Candor
- Eager for action
- Continuous change



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Introduction

Aviation Obstruction light is a product to warn aircraft potential danger from above ground-level structures like tower, smokestack, tall building, etc. In some cases, it's also called Aircraft Warning Light (AWL). When it comes with controller to realize extra functions like alarm signal sending, Flash synchronizing, and auto switch on at night, etc, it can also be called Aircraft Warning Light System (AWLS).



ICAO

Regulations

- ICAO & FAA are two major international authorities that regulate obstruction light industry.
- ICAO – International Civil Aviation Organization
- FAA – Federal Aviation Authority

Some quote from ICAO Annex 14, chap. 6

6.1 The marking and/or lighting of obstacles is intended to reduce hazards to aircraft by indicating the presence of the obstacles. It does not necessarily reduce operating limitations which may be imposed by an obstacle.

6.3.1 The presence of objects which must be lighted, as specified in 6.1, shall be indicated low-, medium- or high-intensity obstacle lights, or a combination of such lights.

6.3.2 Recommendation. — low-intensity obstacle lights, type A or B, should be used where the objects is a less extensive one and its height above the surrounding ground is less than 45m.

6.3.7 Recommendation.— medium-intensity obstacle light, type A, B or C, should be used where the object is an extensive one or its height above the level of the surrounding ground is greater than 45 m. medium-intensity obstacle lights, Types A and C, should be used alone, whereas medium-intensity obstacle lights, Type B, should be used either alone or in combination with low-intensity obstacle lights, Type B.

ICAO Annex 14, chap. 6, Table6-3. Characteristics of obstacle lights

Light Type	Color	Signal type (Flash rate)	Peak intensity (cd) at given Background Luminance			
			Above 500cd / m ²	50-500cd / m ²	Below 50 cd / m ²	Vertical Beam Spread (c)
Low-intensity, Type A (fixed obstacle)	Red	Fixed	N/A	10 mnm	10 mnm	N/A
Low-intensity, Type B (fixed obstacle)	Red	Fixed	N/A	32 mnm	32 mnm	N/A
Low-intensity, Type C (mobile obstacle)	Yellow	Flashing	N/A	40 mnm (b) 400 max	40 mnm (b) 400 max	N/A
Low-intensity, Type D Follow-me Vehicle	Blue (a)	(60-90 fpm)	N/A	200 mnm (b) 400 max	200 mnm (b) 400 ma x	N/A
Medium-intensity, Type A	Yellow	Flashing	20 000 (b) ± 25%	20 000 (b) ± 25%	2 000 (b) ± 25%	20 000 (b)
Medium-intensity, Type B	White	(60-90 fpm)	N/A	N/A	2 000 (b) ± 25%	± 25%
Medium-intensity, Type C	Red	Flashing	N/A	N/A	2 000 (b) ± 25%	N/A
High-intensity, Type A	Red	(20-60 fpm)	200 000 (b) ± 25%	20 000 (b) ± 25%	2 000 (b) ± 25%	N/A
High-intensity, Type B	White	Flashing	100 000 (b) ± 25%	20 000 (b) ± 25%	2 000 (b) ± 25%	200 000 (b)



FAA

Applicable FAA Advisory Circulars

- AC 150/5345-43E Specification for Obstruction Lighting equipment
- AC 70/7460-1 Obstruction Marking and Lighting
- AC 150/5345-53 Airport Lighting Equipment Certification Program

Some quote from FAA AC 150/5345-43E

1.2 Equipment Classification

Type	Description
L-810	Steady-burning red obstruction light
L-856	High intensity flashing white obstruction light, 40 Flashes Per Minute
L-857	High intensity flashing white obstruction light, 60 FPM
L-864	Flashing red obstruction light, 20-40 FPM
L-865	Medium intensity flashing white obstruction light, 40 FPM
L-866	Medium intensity flashing white obstruction light, 60 FPM
L-885	Flashing red obstruction light, 60 FPM

3.3.5.2.2 Monitoring.

Each separate L-864 light unit and each tier of L-810 light units shall be monitored for FLASH/FAIL status. FAIL is defined as outage of any lamp in an L-864 light unit, outage of any one lamp in a tier of L-810 light units, or failure of a flasher (steady on and/or total) for an L-864 light unit. Monitor signals shall be fail safe (i.e., active signals for FLASH and absence of signals for FAIL). There shall be a provision to permit connection to a remote alarm device, (supplied by others or as an option) to indicate FLASH/FAIL status.

Some quote from FAA AC 70/7460-1K

Chapter 5, 51.b.

Double Obstruction Light. A double (L-810) light should be installed when used as a top light, at each end of a row of single obstruction lights, and in areas or locations where the failure of a single unit could because an obstruction to be totally unlighted.

Chapter 5, 52. CONTROL DEVICE

Red obstruction lights should be operated by a satisfactory control device (e.g., photo cell, timer, etc.) adjusted so the lights will be turned on when the northern sky illuminance reaching a vertical surface falls below a level of 60 foot-candles (645.8 lux) but before reaching a level of 35 foot-candles (367.7 lux). The control device should turn the lights off when the northern sky illuminance rises to a level of not more than 60 foot-candles (645.8 lux). The lights may also remain on continuously. The sensing device should, if practical, face the northern sky in the Northern Hemisphere. (See AC 150/5345-43.)



ICAO Recommendation And Practice Over Various Applications

Tower



Height	Night only operation	Day and Night
Below 45 meters	Plan A: 2 low intensity type A or B at the top Plan B: 2 low intensity type B at the top 3 low intensity type B at intermediate level(s) every 45 meters on the periphery of the tower	
45 m. up to 105 meters	Plan A: 2 low intensity type B at the top 3 low intensity type B at intermediate level(s) every 45 meters on the periphery of the tower. Plan B: 1 or 2 medium intensity lights type B at the top. 3 low intensity lights type B at intermediate levels at 120° Plan C: medium intensity type A or C, use alone	1 or 2 white medium intensity type A at the top.
Above 105 meters	1 or 2 medium intensity lights type B at the top. 3 low intensity lights type B at intermediate levels at 120°.	1 or 2 white medium intensity type A (white) at the top. 3 medium intensity type A at intermediate levels.
Above 150 meters	3 high intensity lights at 120° every 150 meters.	

Tall buildings



Height	Night only operation	Day and Night
Below 45 meters	Low intensity type A or B lights at each edge of Low intensity type A or B lights at each edge of	
Above 45 meters	Plan A: Low intensity type A or B lights at each edge of building and at regular interval every 45. Plan B: medium intensity type B lights at each edge of building and at regular interval every 45 meters. Low intensity light at intermediate level, every 45 meters.	1 or 2 white medium intensity type A (white) at the top. In case of a building exceeding 900 m. length, additional lights should be installed at the edge of the building.

Wind turbines



Night only operation	Day and Night
1 or 2 medium intensity type B (red) located on the top of the turbine. In case of a group of windmills, additional lights at the circumference of the farm every 450m and synchronized.	1 or 2 medium intensity type A (white) located on the top of the turbine. In case of group of windmills, additional lights at the circumference of the farm every 900m and be synchronized.

Cranes



Height	Night only operation	Day and Night
Below 45 meters	3 low intensity type A or B lights on the jib, counter jib and crane-top.	
45 meters up to 105 meters	3 medium intensity lights type B at the top on the jib, counter jib and crane-top. 3 low intensity lights type B at the intermediate levels.	1 or 2 white medium intensity type A (white) on the crane-top. In case of more than one crane, additional lights should be installed and synchronized.
Above 105 meters	1 or 2 red medium intensity type B on the crane-top. In case of more than one crane additional lights should be installed and synchronized	1 or 2 red medium intensity type A on the crane-top. In case of more than one crane, additional lights should be installed and synchronized.
Above 150 meters	3 high intensity lights on the crane top	

Chimney



Height	Night only operation	Day and Night
Below 45 meters	3 up to 4 low intensity type A lights placed 1,5 meters up to 3 meters below the top to avoid smokes to hide the lights.	
45 meters up to 105 meters	3 up to 4 medium intensity type B lights placed 1.5 meters up to 3 meters below the top. 3 up to 4 low intensity type B lights at intermediate level(s) 45m.	3 up to 4 white medium intensity lights type A placed 1.5 meters up to 3 meters below the top.
Above 105 meters	3 up to 4 medium intensity type B (red) placed 1.5 meters up to 3 meters below the top. 3 up to 4 low intensity type B every 45m.	3 up to 4 white medium intensity lights type A placed 1.5 meters up to 3 meters below the top. 3 up to 4 white medium intensity lights type A at intermediate levels.
Above 150 meters	3 high intensity lights at 120° every 150 meters.	

Transmission lines



	Night only operation	Day and Night
Tower light	2 low intensity type A or B lights at the top of each tower.	



Low Intensity

- **DL10 Series**
- **DL32 Series**
- **DL50 Series**
- **DL100 Series**
- **DL200 Series**

DL10S & DL10D Low Intensity Obstruction Light (TYPE A)

Description:

LANSING DL10 series is typically a standard LED Obstruction light designed for marking any obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE A.

Features:

- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- With dry contact alarm, it will give an alarm in case of power and light failure
- Available both in single and double type
- With GPS function, can work with other lights synchronously(optional).

Compliance:

- ICAO Annex 14, 4th Edition, July 2004
- ICAO low intensity type A



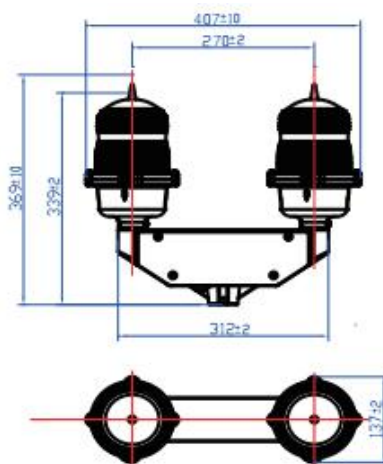
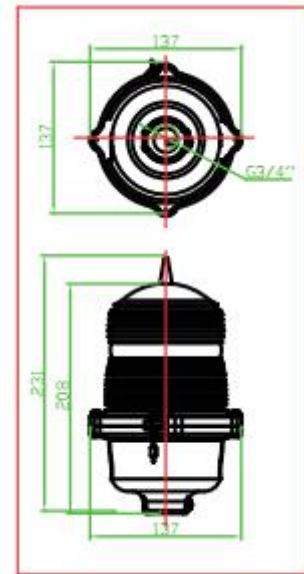
DL10S



DL10D

Specifications:

LIGHT OUT-PUT	DL10S(Single)	DL10DST(Double)	DL10DSS(Double)
Effective Intensity	10 Candela	10 Candela	10 Candela
Vertical Divergence	10 Degree		
Horizontal Divergence	360 Degree		
LED Color	Red		
LED Lifespan	100,000 Hours		
OPERATION			
Flash Pattern	Steady burning(default) or flashing mode(20-60 times/min)		
Power consumption	5W (Steady burning)		
POWER SUPPLY			
Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;		
MECHANICAL STRUCTURE			
Lens	Polycarbonate, UV Stabilize		
Body	Die-casting Aluminum		
Water-proof	IP67		
Weight	0.9KG	3.5KG	3.5KG
Dimensions (mm)	159x245	340x413x140	340x413x140
Mounting Size	Threaded 3/4" bottom hub		
Temperature Range	-40℃ ~ +70℃		
Relative humidity	100% with condensation		
Wind speed	Up to 150mph(240kph)		
Warranty	5 years		
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts		



Order Codes:

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay	Pattern(For double light only)
DL10	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, DL10SD24R means a single, DC24V power supply, with built in alarm relay,etc.

DL10S-F Low Intensity Obstruction Light (Type A)

Description:

LANSING DL10 series is typically a standard LED Obstruction light designed for marking any obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE A.

Features:

- Based on Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- Self-contained compartment-eliminates additional box
- Flashing rate adjustable
- With dry contact alarm, it will give an alarm in case of power and light failure
- Available both in single and double type
- 5 years warranty
- With GPS function, can work with other lights synchronously(optional).

Compliance:

- ICAO Annex 14, 4th Edition, July 2004
- ICAO low intensity type A



DL10S-F

Specifications:

LIGHT OUT-PUT	DL10S-F(Single)
Effective Intensity	10 Candela
Vertical Divergence	10 Degree
Horizontal Divergence	360 Degree
LED Color	Green,Yellow,Red etc
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Steady burning(default)/flashing type
Power consumption	≤5W
POWER SUPPLY	
Input voltage	110-220VAC, 50/60 Hz;12VDC;24VDC;48VDC;
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	3.5KG
Temperature Range	-40℃ ~ +60℃
Relative humidity	100% with condensation
Wind speed	Up to 150mph(240kph)
Warranty	5 years
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts-potential free contact

Order Codes

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay	Pattern(For double light only)
DL10	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, DL10SD24R means a single, DC24V power supply, with built in alarm relay, etc.

DL32S & DL32D L-810 Low Intensity Obstruction Light(Type B)

Description:

LANSING DL32 series is typically a Infrared red LED Obstruction light designed for marking any obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE B. GPS or GPRS functions also available if required.

Features:

- Based on infrared red Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- With dry contact alarm, it will give an alarm in case of power and light failure
- Available both in single and double type
- With GPS function, can work with other lights synchronously(optional).

Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico



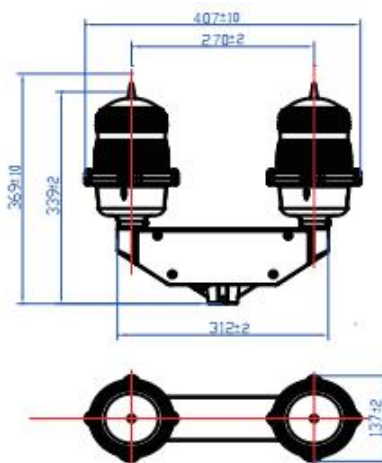
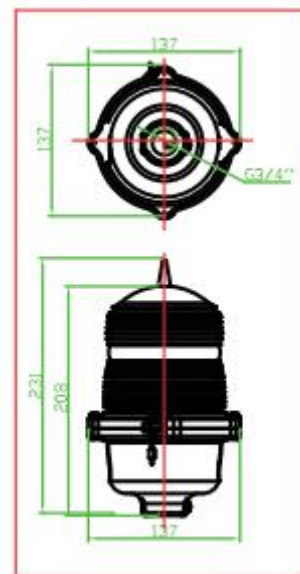
DL32S



DL32D

Specifications:

LIGHT OUT-PUT	DL32S(Single)	DL32DST(Double)	DL32DSS(Double)
Effective Intensity	32.5 Candela	32.5 Candela	32.5 Candela
Vertical Divergence	10 Degree		
Horizontal Divergence	360 Degree		
LED Color	Infrared Red		
LED Lifespan	100,000 Hours		
OPERATION			
Flash Pattern	Steady burning(default) or flashing mode(20-60 times/min)		
Power consumption	5W (Steady burning)		
POWER SUPPLY			
Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;		
MECHANICAL STRUCTURE			
Lens	Polycarbonate, UV Stabilize		
Body	Die-casting Aluminum		
Water-proof	IP67		
Weight	0.9KG	3.5KG	3.5KG
Dimensions(mm)	159x245	340x413x140	340x413x140
Mounting Size	Threaded 3/4" bottom hub		
Temperature Range	-40℃ ~ +70℃		
Relative humidity	100% with condensation		
Wind speed	Up to 150mph(240kph)		
Warranty	5 years		
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts		



Order Codes:

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay	Pattern(For double light only)
DL32	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, LS32RSD24R means a single, DC24V power supply, with built in alarm relay, etc.

DL32S-F L-810 Low Intensity Obstruction Light (Type B)

Description:

LANSING DL32 series is typically a standard LED Obstruction light designed for marking any Obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE A.

Features:

- Based on Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- Self-contained compartment-eliminates additional box
- Flashing rate adjustable
- With dry contact alarm, it will give an alarm in case of power and light failure
- Available both in single and double type
- 5 years warranty
- With GPS function, can work with other lights synchronously(optional).

Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico



DL32S-F

Specifications:

LIGHT OUT-PUT	DL32S-F(Single)
Effective Intensity	32.5 Candela
Vertical Divergence	10 Degree
Horizontal Divergence	360 Degree
LED Color	Green,Yellow,Red etc
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Steady burning(default)/flashing type
Power consumption	5W
POWER SUPPLY	
Input voltage	85-265VAC, 50/60 Hz;12VDC; 24VDC;30-60VDC;
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	3.5KG
Temperature Range	-40℃ ~ +60℃
Relative humidity	100% with condensation
Wind speed	Up to 150mph(240kph)
Warranty	5 years
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts-potential free contact

Order Codes:

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay	Pattern(For double light only)
DL32	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, LS32RSD24R means a single, DC24V power supply, with built in alarm relay, etc.

DL50S & DL50D Low Intensity Obstruction Light (Type C)

Description:

LANSING DL50 series is typically a standard LED Obstruction light designed for marking any obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE C.

Features& Benefits:

- Based on Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- The visible distance is more than 10KM
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electroplate impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- With dry contact alarm, it will give an alarm in case of power and light failure
- Available both in single and double type
- With GPS function, can work with other lights synchronously(optional).

Compliance:

- ICAO Annex 14, 4th Edition, July 2004
Obstruction Light Low Intensity Type C
- FAA AC No. 150/5345-43
- DGAC Mexico



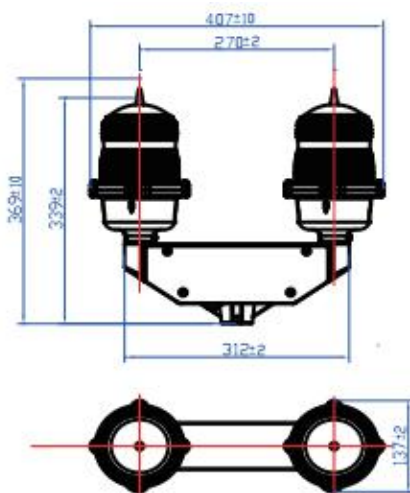
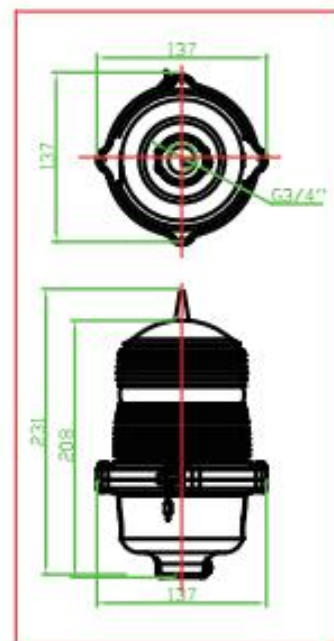
DL50S



DL50D

Specifications:

LIGHT OUT-PUT	DL50S(Single)	DL50DST(Double)	DL50DSS(Double)
Effective Intensity	50 Candela	50 Candela	50 Candela
Vertical Divergence	10 Degree		
Horizontal out-put	360 Degree		
LED Color	Yellow/blue/red/green		
LED Lifespan	100,000 Hours		
OPERATION			
Flash Pattern	Steady burning/Flashing(flashing rate can be customized)		
POWER SUPPLY			
Input voltage	110-220VAC, 50/60 Hz;12VDC;24VDC;48VDC;220VDC		
Frequency	50Hz ~ 60Hz		
MECHANICAL STRUCTURE			
Lens	Polycarbonate, UV Stabilize		
Body	Die-casting Aluminum		
Water-proof	IP67		
Weight	0.9KG	3.5KG	3.5KG
Dimensions(mm)	159x245	340x413x140	340x413x140
Mounting Size	Threaded 3/4" bottom hub		
Temperature Range	-40℃ ~ +70℃		
Relative humidity	100% with condensation		
Wind speed	Up to 150mph(240kph)		
Warranty	5 years		
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts		



Order Codes

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm-relay	Pattern(For double light only)
DL50	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, LS50SD24R means a single, DC24V power supply, with built in alarm relay, steady-burning light ,etc.

DL100S & DL100D Low Intensity Obstruction Light (Type C)

Description:

LANSING DL100 series is typically a standard LED Obstruction light designed for marking any obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE C.

Features:

- Customize for both AC and DC conditions.
- Customize for steady burning or flashing mode
- The visible distance is more than 12.5KM
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electroplate impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- With dry contact alarm, it will give an alarm in case of power and light failure
- Available both in single and double type
- With GPS function, can work with other lights synchronously(optional).

Compliant:

- Australia CASA Mos Part 139
- UK CAP168 Low Intensity Obstacle(Group B)
- NFL 197-107/03, Neues feuer W-ROT



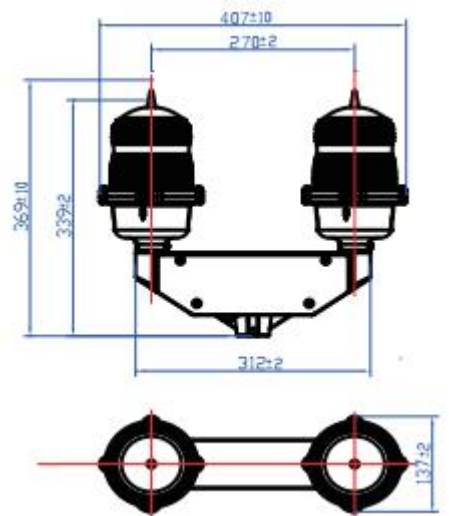
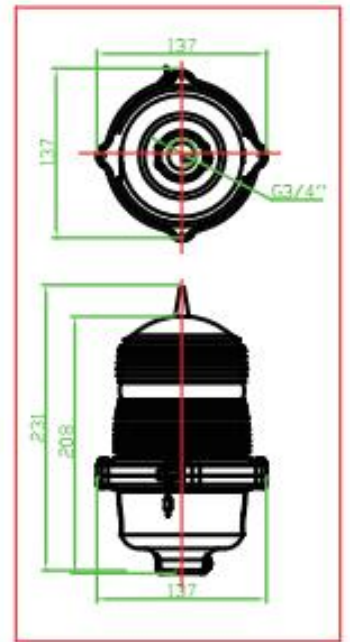
DL100S



DL100D

Specifications:

LIGHT OUT-PUT	DL100S(Single)	DL100DST(Double)	DL100DSS(Double)
Effective Intensity	100 Candela	100 Candela	100 Candela
Vertical Divergence	10 Degree		
Horizontal out-put	360 Degree		
LED Color	Yellow/blue/red/green		
LED Lifespan	100,000 Hours		
OPERATION			
Flash Pattern	Steady burning/Flashing(flashing rate can be customized)		
POWER SUPPLY			
Input voltage	110-220VAC, 50/60 Hz;12VDC;24VDC;48VDC;220VDC		
Frequency	50Hz ~ 60Hz		
MECHANICAL STRUCTURE			
Lens	Polycarbonate, UV Stabilize		
Body	Die-casting Aluminum		
Water-proof	IP67		
Weight	0.9KG	3.5KG	3.5KG
Dimensions(mm)	159x245	340x413x140	340x413x140
Mounting Size	Threaded 3/4" bottom hub		
Temperature Range	-40℃ ~ +70℃		
Relative humidity	100% with condensation		
Wind speed	Up to 150mph(240kph)		
Warranty	5 years		
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts		



Order Codes

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay	Pattern (For double light only)
DL100	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, LS100SD24R means a single, DC24V power supply, with built in alarm relay, steady-burning light, etc.

DL200S&DL200D Low Intensity Obstruction Light (Type D)

Description:

LANSING DL200 series is typically a standard LED Obstruction light designed for marking any obstacle that may present hazards to aircraft navigation. It made of die-cast aluminum alloy housing with polycarbonate dome and complies with ICAO regulation, low intensity TYPE D

Features:

- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable).
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional).
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free.
- Built-in anti electrophoresis impact module, with lightning/surge protection.
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant.
- Corrosion resistant lamp & housing-suitable for off-shore use.
- Bottom cable entry-ease of mount, mount accessories available.
- Self-contained compartment-eliminates additional box.
- With dry contact alarm, it will give an alarm in case of power and light failure.
- Available both in single and double type.
- With GPS function, can work with other lights synchronously(optional).
- 5 years warranty.



DL200S



DL200D

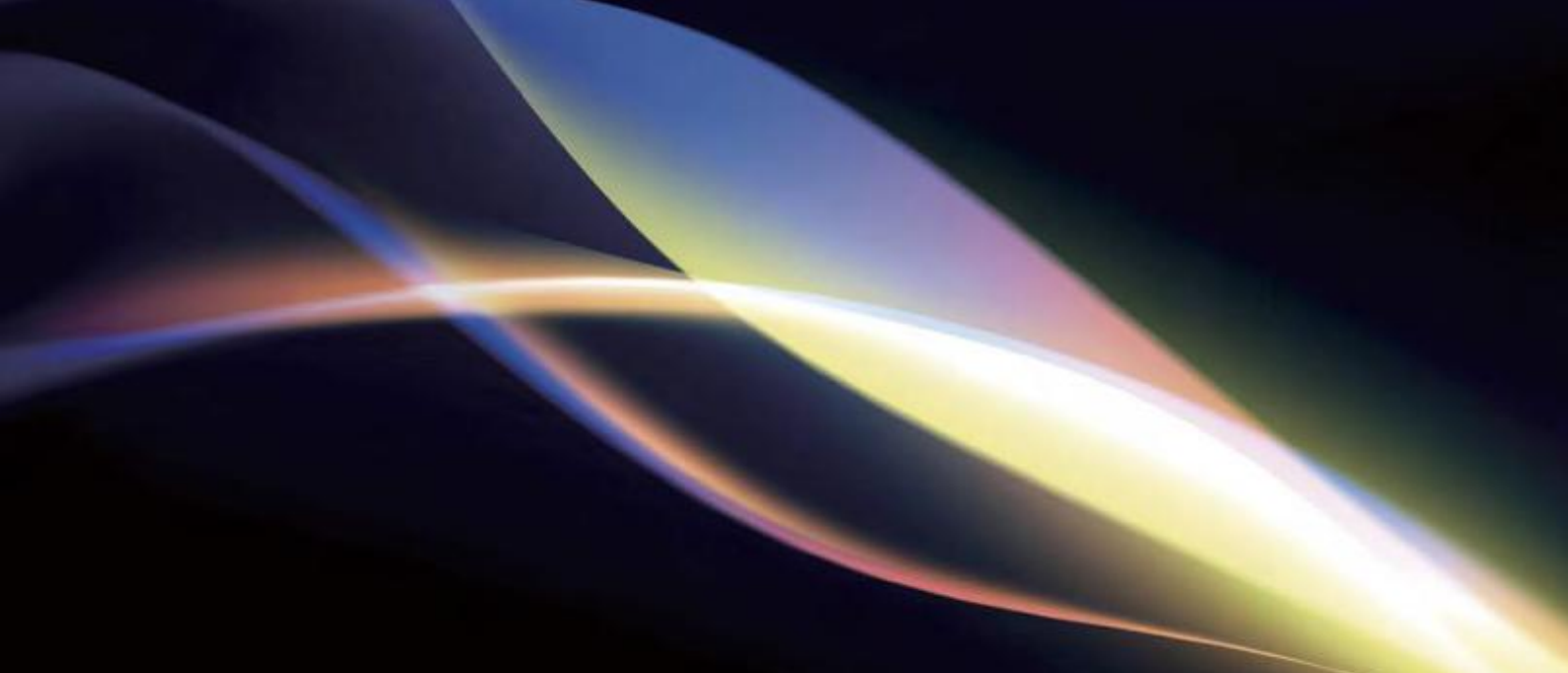
Specifications:

LIGHT OUT-PUT	DL200S(Single)	DL200DST(Double)	DL200DSS(Double)
Effective Intensity	200 Candela	200 Candela	200 Candela
Vertical Divergence	10 Degree		
Horizontal out-put	360 Degree		
LED Color	Yellow/blue/red/green		
LED Lifespan	100,000 Hours		
OPERATION			
Flash Pattern	Steady burning/flashing(flashing rate can be customized)		
POWER SUPPLY			
Input voltage	110-220VAC, 50/60 Hz;12VDC;24VDC;30-60VDC;		
Frequency	50Hz ~ 60Hz		
MECHANICAL STRUCTURE			
Lens	Polycarbonate, UV Stabilize		
Body	Die-casting Aluminum		
Water-proof	IP67		
Weight	1.5KG	4KG	4KG
Dimensions(mm)	159x245	340x413x140	340x413x140
Mounting Size	Threaded 3/4" bottom hub		
Temperature Range	-40℃ ~ +70℃		
Relative humidity	100% with condensation		
Wind speed	Up to 150mph(240kph)		
Warranty	5 years		
Optional	Available in flashing pattern(40FPM) Available with built-in photocell Available with built-in alarm relay contacts		

Order Codes:

Series	Single /Double	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay	Pattern(For double light only)
DL200	S	A	12	F	P	R	ST
	D	D	24				SS
			48				
			110				
			220				

For example, DLS200SD24R means a single, DC24V power supply, with built in alarm relay, steady-burning light,etc.



Medium Intensity Series

- ZG2K/ZG2KD Aviation Light
- ZG2RS Aviation Light
- ZG2AS Aviation Light
- ZG2KC Aviation Light
- ZG2AT Aviation Light
- ZG2KE Aviation Light

ZG2K Single Medium Intensity Obstruction Light (L-864 Type B & C)

Description:

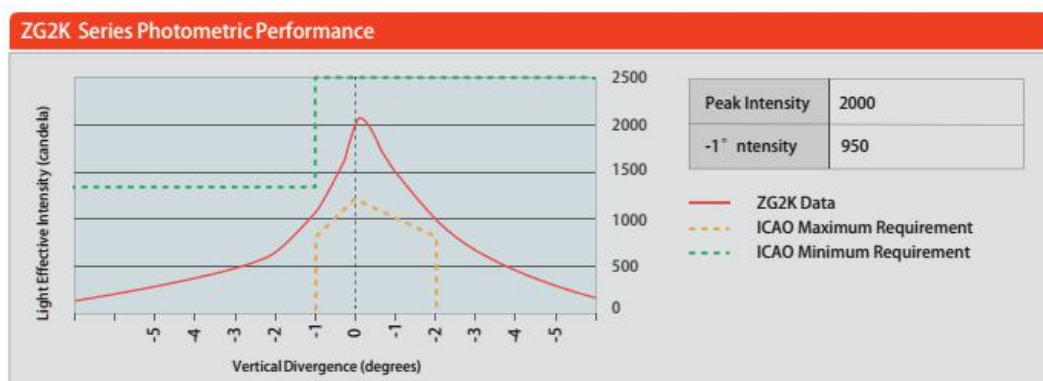
ZG2K is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if required. Medium intensity light ZG2K is designed for tower higher than 45m. It should be used either alone, or in combination with low-intensity light type B (our D32 series)

Features& Benefits:

- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection which can with stand more than 15KA
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- With GPS function, can work with other lights synchronously(optional).

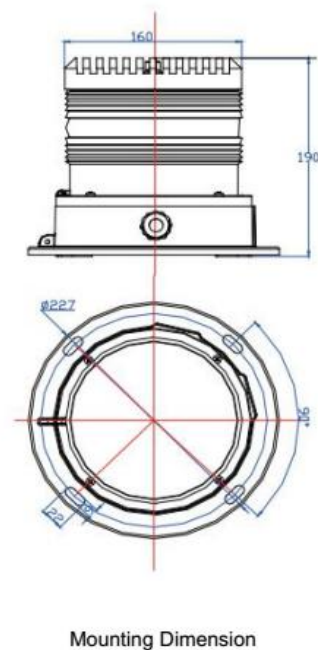
Compliant:

- Steady ICAO : Medium intensity type C
- Flashing ICAO : Medium intensity type B
- FAA Type L864



Specifications:

LIGHT OUT-PUT	
Peak Intensity	2000 Candela
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	Red
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Steady-burning or flashing
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	40W with steady mode; 5W with flashing
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	4KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Dimensions	210mm H, 226mm Diameter
Warranty	5 years
Optional	Available with built-in photocell Available with built-in Faulty Alarm contact



Order Codes:

Series	Steady or Flashing	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay
ZG2K	C(steady)	A	12	F	P	R
	B(flashing)	D	24			
			48			
			110			
			220			

For example, ZG2KBA means AC24V power supply, Flashing light,etc.

ZG2RS L-864 Single NVG Type Medium Intensity Obstruction Light(with Infrared Led)Type B&C)

Description:

ZG2RS is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if required. Medium intensity light ZG2RS is designed for tower higher than 45m. It should be used either alone, or in combination with low-intensity light type B (our D32 series)

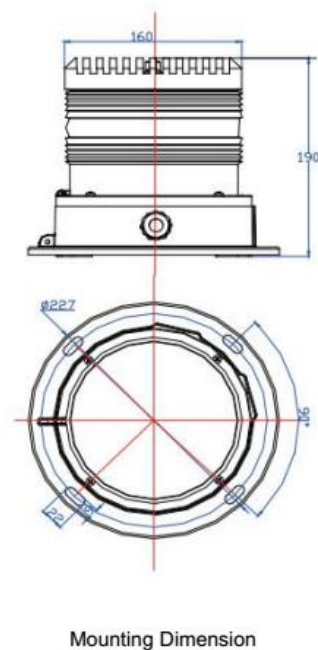
Features& Benefits:

- Based on Infrared Red Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection which can with stand more than 15KA
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- With GPS function, can work with other lights synchronously(optional).



Specifications:

LIGHT OUT-PUT	
Peak Intensity	2000 Candela
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	Infrared Red
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Steady-burning or flashing
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	40W with steady mode; 5W with flashing
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	4KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Dimensions	210mm H, 226mm Diameter
Warranty	5 years
Optional	Available with built-in photocell Available with built-in Faulty Alarm contact



Order Codes:

Series	Steady or Flashing	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay
ZG2RS	C(steady)	A	12	F	P	R
	B(flashing)	D	24			
			48			
			110			
			220			

For example, ZG2RSBA means AC24V power supply, Flashing light,etc.

ZG2KD L-864 Dual Medium Intensity Obstruction Light (Type B & C)

Description:

ZG2KD is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation job nice & easy.

The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small Specific angel. Fresnel lens is often used to design obstruction light.

The light's ingress protection level is IP67, assures the light is well sealed to stand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if needed.

Medium intensity light ZG2KD is for tower taller than 45m. It should be used either alone, or in combination with low-intensity light type B (our DL32).

The light comes with a plug type connection, which makes installation nice & easy. When the light has a built-in alarm relay, one more plug will be added to the base (alarm function needs 2 core shielded cable). A junction box that mounted on the double bracket has a PCB who can auto transfer to the standby light in case of failure of the service light, in "service+standby" mode.

Features& Benefits:

- Based on Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available



Specifications:

LIGHT OUT-PUT	
Peak Intensity	2000 Candela
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	Red
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Steady-burning or flashing
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	40W with steady mode; 5W with flashing
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	11KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Dimensions	210mm H, 226mm Diameter
Warranty	5 years
Optional	Available with built-in photocell Available with built-in Alarm relay--potential free contact

Order Codes:

Series	Steady or Flashing	AC/DC	Voltage	Flashing	Photo sensor	Alarm relay
ZG2KD	C(steady)	A	12	F	P	R
	B(flashing)	D	24			
			48			
			110			
			220			

For example, ZG2KDBA means AC24V power supply, Flashing light,etc.

ZG2AS L-865&L-864 Medium Intensity Obstruction Light(Type A&B)

Description:

ZG2AS is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if required.

Widely used in various fields of the Air Force, civilian airports and obstacle free airspace, helipads, iron tower, chimney, ports, wind power plants, bridge and city high-rise buildings where require aviation warning.

Usually used above 45m and less than 150m buildings, could use alone, also could use with Medium OBL type B and Low intensity OBL type B together.

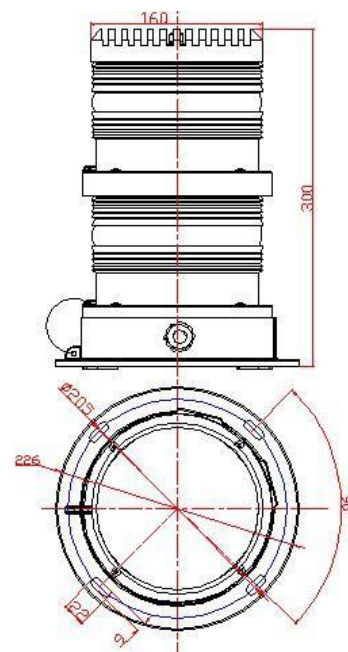
Features:

- Based on Led Technologies.
- Customized for both AC or DC conditions.
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional).
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free.
- With GPS function, which can make several lights working at the same time (optional)
- With volt-free alarm contact, it will give an alarm in case of light failure.
- Built-in lightning/surge protection(can withstand strike 7.5KV/5times, I_{max} 15KV).
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant.
- Reversed Polarity Protected(DC Type).
- Corrosion resistant lamp & housing-suitable for off-shore use.
- Self-contained compartment-eliminates additional box.



Specifications:

LIGHT OUT-PUT	
Peak Intensity	(Night,Red) 2000cd (±25%),(Daytime)20000cd (±25%)
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	White in the daytime and red at night
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Flashing(20-60 times/min available)
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	30W
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Net Weight:	5.1KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Overall size(mm)	160×300×226
Lightning protection lever	10KA
Wind load	80m/s



Compliant:

- ICAO Standard: ICAO medium intensity type A Annex 14, 4th Edition, July 2004
- FAA Standard: FAA L865,AC No. 150/5345-43F,2006

ZG2AT L-865 Medium Intensity Obstruction Light (Type A)

Description:

ZG2AT is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if required.

Widely used in various fields of the Air Force, civilian airports and obstacle free airspace, helipads, iron tower, chimney, ports, wind power plants, bridge and city high-rise buildings where require aviation warning. Usually used above 45m and less than 150m buildings, could use alone, also could use with Medium OBL type B and Low intensity OBL type B together.

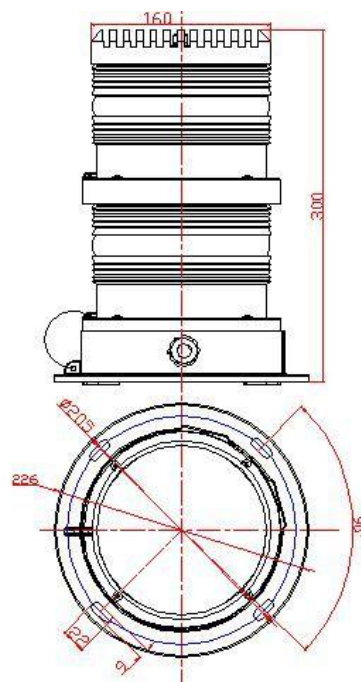
Features:

- Compliance to FAA, ICAO standard
- Based on Led Technologies
- Customized for both AC or DC conditions.
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- With GPS function, which can make several lights working at the same time (optional)
- With volt-free alarm contact, it will give an alarm in case of light failure (optional)
- Built-in lightning/surge protection(can withstand strike 7.5KV/5times, I_{max} 15KV)
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use



Specifications:

LIGHT OUT-PUT	
Peak Intensity	(Night,White)2000cd(±25%),(Daytime)20000cd (±25%)
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	White in the daytime and at night
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Flashing(20-60 times/min available)
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	30W
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Net Weight:	5.1KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Overall size(mm)	160×300×226
Lightning protection lever	10KA
Wind load	80m/s



Compliant:

- ICAO Standard: ICAO medium intensity type A Annex 14, 4th Edition, July 2004
- FAA Standard: FAA L865, AC No. 150/5345-43F, 2006

ZG2KC L-864 Battery Powered Single Medium Intensity Obstruction Light(Type B&C)

Description:

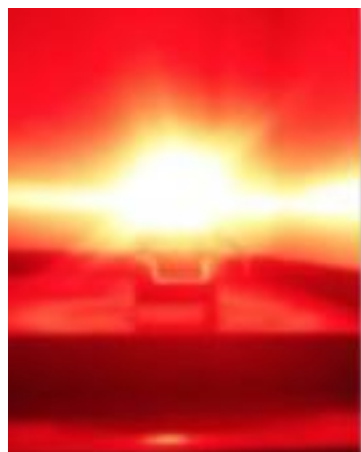
ZG2KC LED medium intensity obstruction light with battery is robust body built and surface coating provides good protection against harsh environments. ZG2KC is equipped with a Charging unit and 12V12AH VRLA (Vole-Regulated Lead Acid) rechargeable battery which could power the light up to 5 days once charge.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Maximum visibility distance 20KM
- Once fully charged, it can work for up to 5 days
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- Nice & easy installation
- With GPS function, can work with other lights synchronously(optional).

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	2000 Candela
LED Color Available	Red
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	5 days
On & Off Level	70/100 Lux
Flash Pattern	40 times/min(other flashing pattern also available)
POWER SUPPLY	
Battery Type	Lead acid type. 12V/7AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	11KG
Temperature Range	-40 ~ +70℃
Light Dimensions	200mm H, 178mm Diameter
Solar panel Dimensions	420mm*600mm(bracket not included)
Warranty	5 years for light 2 years for Lead acid battery

ZG2KE L-864 Single Medium Intensity Obstruction Light (Type B)

Description:

ZG2KE is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS and GPRS functions are available. Medium intensity light ZG2KE is designed for tower higher than 45m. It should be used either alone, or in combination with low-intensity light type B (our D32 series)

Features& Benefits:

- Based on Led Technologies
- Customizable for both AC and DC conditions.
- Customizable for steady burning or flashing mode(Flashing rate adjustable)
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Built-in anti electrophoresis impact module, with lightning/surge protection which can withstand more than 15KA
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use
- Bottom cable entry-ease of mount, mount accessories available
- with GPS function, can work with other lights synchronously(optional).

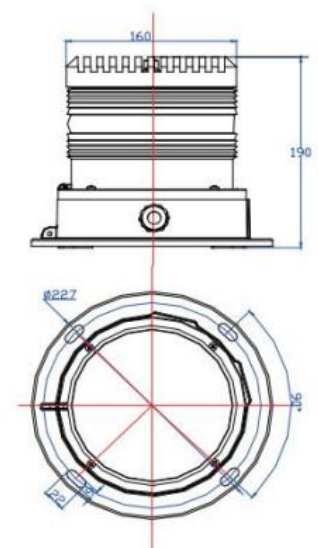
Applications:

- | | |
|-------------------------------|-------------------------|
| • High rise building marking | • Telecom tower marking |
| • Road obstruction marking | • Wind-turbine |
| • Port, dock entrance&walkway | • Bridge cranes |
| • Offshore gas&oil platform | |



Specifications:

LIGHT OUT-PUT	
Peak Intensity	2000 Candela
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	Red
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Steady-burning or flashing
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	40W with steady mode; 5W with flashing
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	4KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Dimensions	210mm H, 226mm Diameter
Warranty	5 years
Optional	Available with built-in photocell Available with built-in Faulty Alarm contact



Mounting Dimension

Compliance:

- Steady ICAO : Medium intensity type C
- Flashing ICAO: Medium intensity type B
- FAA Type L864



High Intensity

- ZG2H Series
- ZG2HB Series

ZG2H L-856 High Intensity Obstruction Light (Type A)

Description:

ZG2H is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if required.

Widely used in various fields of the Air Force, civilian airports and obstacle free airspace, helipads, iron tower, chimney, ports, wind power plants, bridge and city high-rise buildings where require aviation warning.

Features:

- Based on Led Technologies
- Customized for both AC or DC conditions.
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- With GPS function, which can make several lights working at the same time (optional)
- With volt-free alarm contact, it will give an alarm in case of light failure
- Built-in lightning/surge protection(can withstand strike 7.5KV/5times, I_{max} 15KV)
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use

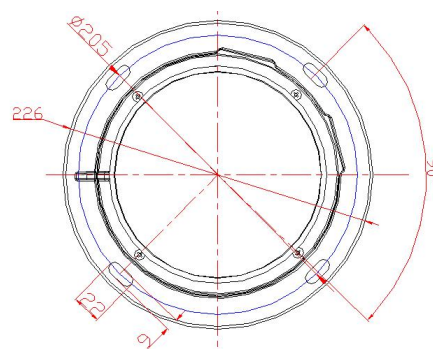
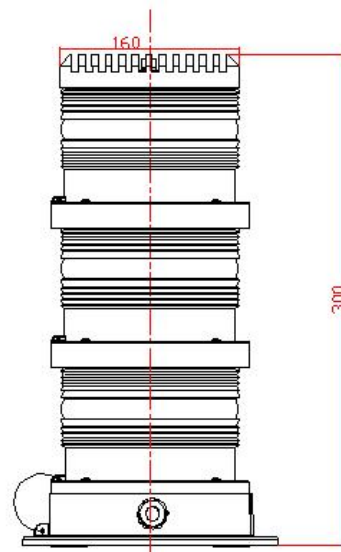
Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform



Specifications:

LIGHT OUT-PUT	
Peak Intensity	(Night) 2000cd (±25%),(dusk)20000cd (±25%) (in the daytime)20,000cd (±25%)
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	White in the daytime and red at night
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Flashing(20-60 times/min available)
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	50W
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Net Weight:	7.5KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Lightning protection lever	10KA
Wind load	80m/s



Caution:

- All the connections must be correct, otherwise it will damage the lights, please check the mark and instruction carefully.
- The power supply is AC220, can't use other powers, otherwise it will damage the lights.
- The obstruction light needs to be installed below lightning conductor or lightning protection zone, in case light be struck by lightning.
- It's normal if temperature rise while operating.
- Please do not open any part of lights while operating.
- The light is fully sealed, please do not install or dismantle unless you are professional. Once operated inappropriately, our company will not guarantee the warranty.

ZG2HB L-856 High Intensity Obstruction Light (Type B)

Description:

ZG2HB is a new generation medium intensity OB light. It comes with compact-size and light-weight, which makes installation more convenience. The optical part is based on Fresnel lens, a transformed convex lens which can concentrate light to a small specific angel to meet with ICAO requirements. Fresnel lens is often used to design obstruction light. The light's ingress protection level is IP67, assures the light is well sealed to withstand harsh environment include the ocean. If work with control box, more functions like synchronization could be realized. GPS or GPRS functions also available if required.

Widely used in various fields of the Air Force, civilian airports and obstacle free airspace, helipads, iron tower, chimney, ports, wind power plants, bridge and city high-rise buildings where require aviation warning.

Major functions & features:

- Based on Led Technologies
- Customized for both AC or DC conditions.
- Multiple light elements in the source reduce the chances of a complete blackout which could be caused in case of a single source failure.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Built in photocell, which can switch ON/OFF the lights automatically at dawn and dusk (optional)
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- With GPS function, which can make several lights working at the same time (optional)
- With volt-free alarm contact, it will give an alarm in case of light failure
- Built-in lightning/surge protection(can withstand strike 7.5KV/5times, I_{max} 15KV)
- Resistant to shock and vibration.
- No RF Radiations, EMC Compliant
- Reversed Polarity Protected(DC Type)
- Corrosion resistant lamp & housing-suitable for off-shore use

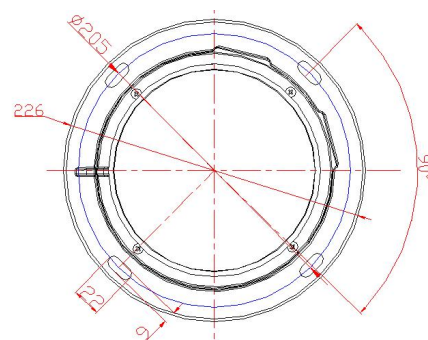
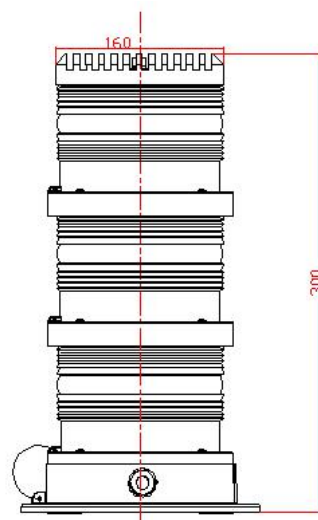
Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform



Specifications:

LIGHT OUT-PUT	
Peak Intensity	(Night) 2000cd (±25%),(dusk)10,000cd (±25%) (in the daytime)100,000cd (±25%)
Vertical Divergence	-1° :950cd, Centering at 0.5°
Horizontal out-put	360 Degree
LED Color	White in the daytime and red at night
LED Lifespan	100,000 Hours
OPERATION	
Flash Pattern	Flashing(20-60 times/min available)
POWER SUPPLY	
Input voltage	110VAC ~ 220VAC, 24VDC, 48VDC
Frequency	50Hz ~ 60Hz
Power consumption	50W
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Net Weight:	7.5KG
Temperature Range	-40℃ ~ +70℃
Relative humidity	100% with condensation
Lightning protection lever	10KA
Wind load	80m/s



Caution:

- All the connections must be correct, otherwise it will damage the lights, please check the mark and instruction carefully.
- The power supply is AC220, can't use other powers, otherwise it will damage the lights.
- The obstruction light needs to be installed below lightning conductor or lightning protection zone, in case light be struck by lightning.
- It's normal if temperature rise while operating.
- Please do not open any part of lights while operating.
- The light is fully sealed, please do not install or dismantle unless you are professional. Once operated inappropriately, our company will not guarantee the warranty.

Compliance:

- ICAO : High intensity type A
- FAA Type L856



Explosion proof

- **FB10 Explosion Proof Series**
- **FB20 Explosion Proof Series**
- **FB40 Explosion Proof Series**
- **FB2KS Explosion Proof Solar
Powered**

FB10 Explosion Proof Low Intensity Obstruction Light (Type A)

Description:

The explosion-proof aviation Obstruction Light adopts aluminum alloy die-casting shell with high-voltage electrostatic spray on the surface;

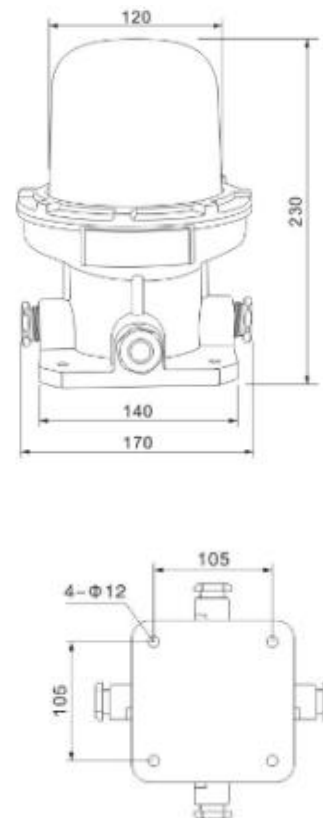
Features& Benefits:

- High quality optics for excellent beam spread control
- Steel glass transparent cover, can work normally in various harsh environments such as exposure, rain, snow and hail;
- Explosion-proof aviation flashing Obstruction Light has three kinds of low light intensity, medium intensity light and high intensity light;
- Equipped with long-life and high-brightness LED light source, low power consumption, high brightness, long life of 100,000 hours, and meet the requirements of energy saving and environmental protection;
- With integrated chip, it has multiple protection circuits, which can realize synchronous flashing of multiple lights through synchronous signal line connection or adding GPS wireless synchronization module.
- It can be made into wireless synchronization mode according to requirements, which is convenient to use and install. Please specify when ordering;
- Highly protective structural design, equipped with anti-aging silicone rubber gasket, to achieve P66 protection level requirements;
- It can be equipped with solar panels and is powered by solar energy. It can be used for more than 15 hours on a single charge. Please indicate when ordering if necessary.
- Steel pipe or cable wiring can be used.
- With built in Photocell(optional)Installation Drawing:



Specifications:

Mode	FB10	Dimensions(mm)	170x170x230
Rated power	AC220V	Packing size(mm)	360×250×200
Power frequency	50HZ ~ 60HZ	Production level	IP66
Power consumption	10W	Environment temperature	-40℃ ~ 70℃
Light source	LED	Explosion-proof mark	ExdIICT6Gb
Led color	red	Peak light intensity	≥32.5cd- ≥20000cd
Flashing frequency	20-60 times/min	Anti-corrosion level	WF1 *WF2
Introduction device	G3/4" inlet specification, suitable for ∅ 10mm-∅ 14mm cable.	Access terminal	≤2.5mm 2 wire reliable connection

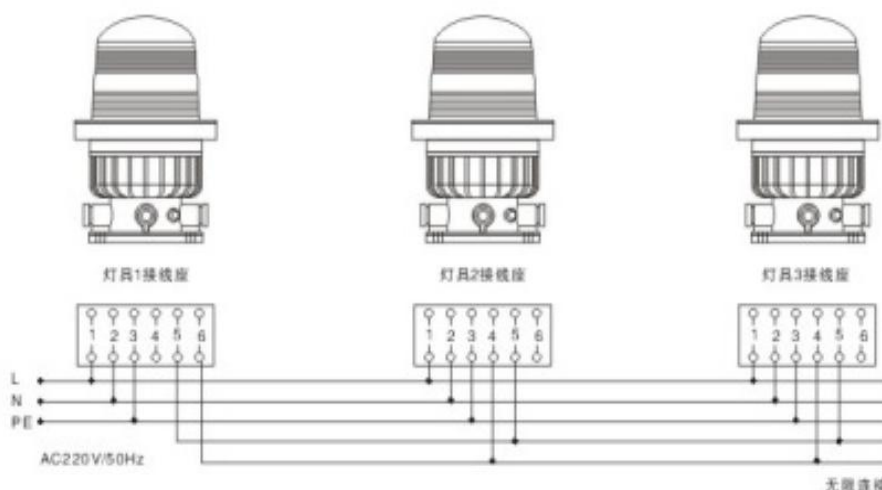


Outline Dimension

Applications:

- Widely used in oil, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for general lighting and operational lighting;
- Applicable to high-rise buildings, drilling platforms, high-rise facilities and buildings with high oil storage facilities for aviation obstacle indication;
- Suitable for high-protection, wet places;
- Applicable to: IIA, IIB, IIC; explosive gas environment;
- temperature group: T1 ~ T6 group temperature level;

Synchronous wiring diagram



FB20 L-810 Explosion Proof Low Intensity Obstruction Light (Type B)

Description:

The explosion-proof aviation Obstruction Light adopts aluminum alloy die-casting shell with high-voltage electrostatic spray on the surface;

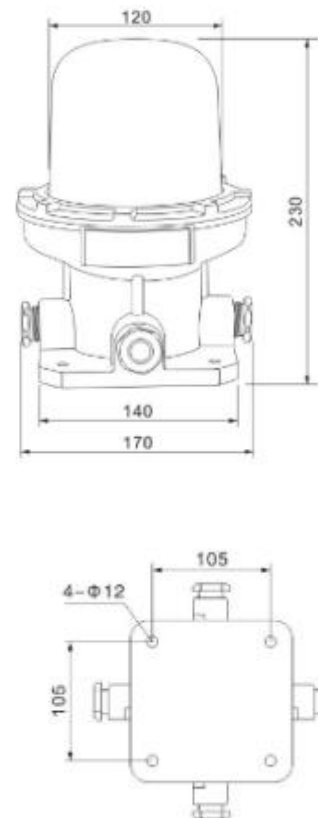
Features& Benefits:

- High quality optics for excellent beam spread control
- Steel glass transparent cover, can work normally in various harsh environments such as exposure, rain, snow and hail;
- Explosion-proof aviation flashing Obstruction Light has three kinds of low light intensity, medium intensity light and high intensity light;
- Equipped with long-life and high-brightness LED light source, low power consumption, high brightness, long life of 100,000 hours, and meet the requirements of energy saving and environmental protection;
- With integrated chip, it has multiple protection circuits, which can realize synchronous flashing of multiple lights through synchronous signal line connection or adding GPS wireless synchronization module.
- It can be made into wireless synchronization mode according to requirements, which is convenient to use and install. Please specify when ordering;
- Highly protective structural design, equipped with anti-aging silicone rubber gasket, to achieve P66 protection level requirements;
- It can be equipped with solar panels and is powered by solar energy. It can be used for more than 15 hours on a single charge. Please indicate when ordering if necessary.
- Steel pipe or cable wiring can be used.
- With built in Photocell(optional)Installation Drawing:



Specifications:

Mode	FB20	Dimensions(mm)	170x170x230
Rated power	AC220V	Packing size(mm)	360×250×200
Power frequency	50HZ ~ 60HZ	Production level	IP66
Power consumption	20W	Environment temperature	-40℃ ~ 70℃
Light source	LED	Explosion-proof mark	ExdIICT6Gb
Led color	red	Peak light intensity	≥32.5cd- ≥20000cd
Flashing frequency	20-60 times/min	Anti-corrosion level	WF1 *WF2
Introduction device	G3/4" inlet suitable for ∅ 10mm-∅ 14mm cable.	Access terminal	≤2.5mm 2 wire reliable connection

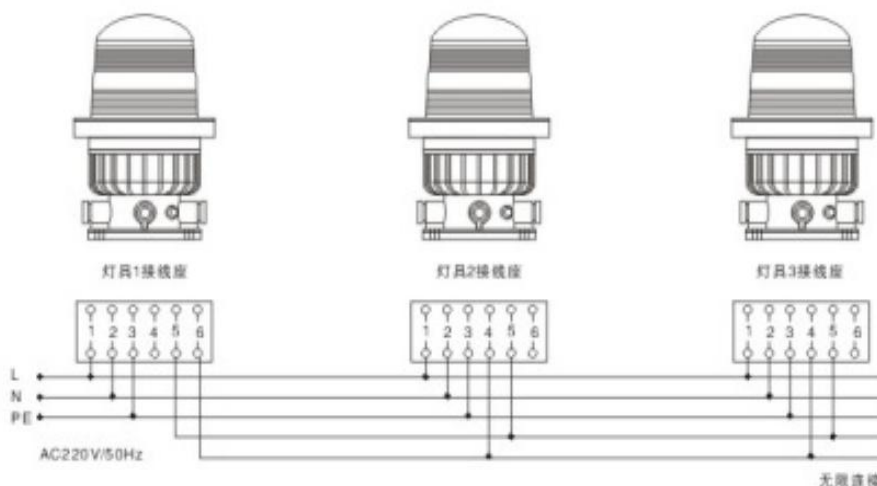


Outline Dimension

Applications:

- Widely used in oil, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for general lighting and operational lighting;
- Applicable to high-rise buildings, drilling platforms, high-rise facilities and buildings with high oil storage facilities for aviation obstacle indication;
- Suitable for high-protection, wet places;
- Applicable to: IIA, IIB, IIC; explosive gas environment;
- temperature group: T1 ~ T6 group temperature level;

Synchronous wiring diagram



FB40 L-864 Explosion Proof Medium Intensity Obstruction Light (Type B)

Description:

The explosion-proof aviation Obstruction Light adopts aluminum alloy die-casting shell with high-voltage electrostatic spray on the surface;

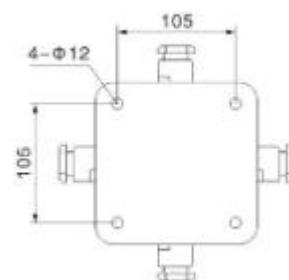
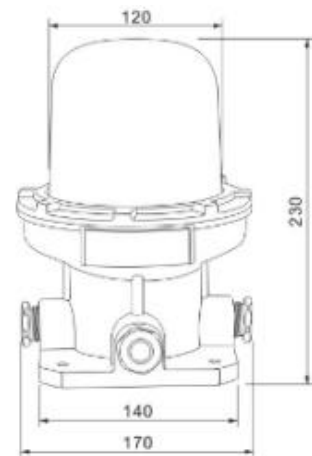
Features& Benefits:

- High quality optics for excellent beam spread control
- Steel glass transparent cover, can work normally in various harsh environments such as exposure, rain, snow and hail;
- Explosion-proof aviation flashing Obstruction Light has three kinds of low light intensity, medium intensity light and high intensity light;
- Equipped with long-life and high-brightness LED light source, low power consumption, high brightness, long life of 100,000 hours, and meet the requirements of energy saving and environmental protection;
- With integrated chip, it has multiple protection circuits, which can realize synchronous flashing of multiple lights through synchronous signal line connection or adding GPS wireless synchronization module.
- It can be made into wireless synchronization mode according to requirements, which is convenient to use and install. Please specify when ordering;
- Highly protective structural design, equipped with anti-aging silicone rubber gasket, to achieve P66 protection level requirements;
- It can be equipped with solar panels and is powered by solar energy. It can be used for more than 15 hours on a single charge. Please indicate when ordering if necessary.
- Steel pipe or cable wiring can be used.
- With built in Photocell(optional)Installation Drawing:



Specifications:

Mode	FB40	Dimensions(mm)	170x170x230
Rated power	AC220V	Packing size(mm)	360×250×200
Power frequency	50HZ ~ 60HZ	Production level	IP66
Power consumption	40W	Environment temperature	-40℃ ~ 70℃
Light source	LED	Explosion-proof mark	ExdIICT6Gb
Led color	red	Peak light intensity	≥32.5cd- ≥20000cd
Flashing frequency	20-60 times/min	Anti-corrosion level	WF1 *WF2
Introduction device	G3/4" inlet specification, suitable for ∅ 10mm-∅ 14mm cable.	Access terminal	≤2.5mm 2 wire reliable connection

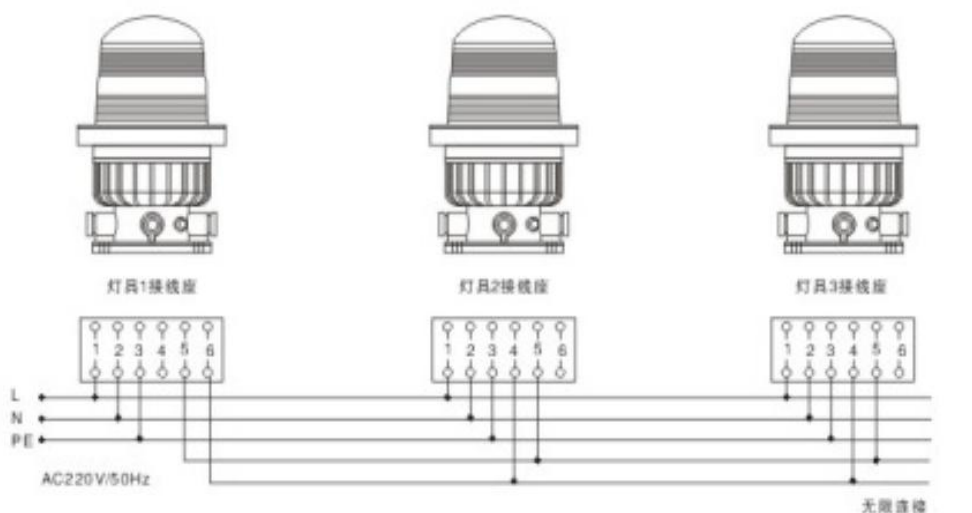


Outline Dimension

Applications:

- Widely used in oil, oil refining, chemical, military and other hazardous environments and offshore oil platforms, oil tankers and other places for general lighting and operational lighting;
- Applicable to high-rise buildings, drilling platforms, high-rise facilities and buildings with high oil storage facilities for aviation obstacle indication;
- Suitable for high-protection, wet places;
- Applicable to: IIA, IIB, IIC; explosive gas environment;
- temperature group: T1 ~ T6 group temperature level;

Synchronous wiring diagram



FB2KS L-864 Explosion Proof Medium Intensity Solar Powered Obstruction Light(Type B)

Description:

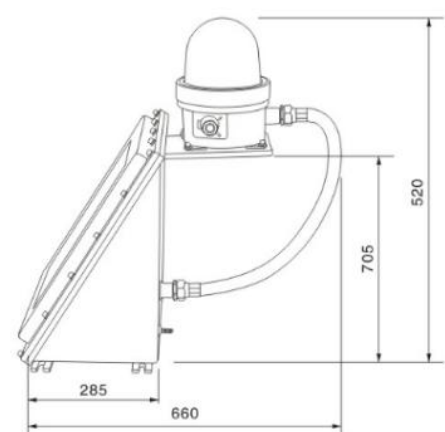
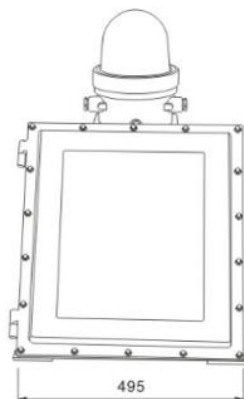
FB2KS Explosion proof solar powered LED medium intensity red obstruction light, solar self-contained design makes it easy to install any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

FB2KS is equipped with a 18W solar panel and 12Ah VRLA (Valve-Regulated Lead Acid) rechargeable battery which could power the light up to 8 days when the weather is cloudy & rainy. It has built in GPS, can work with other lights synchronously.

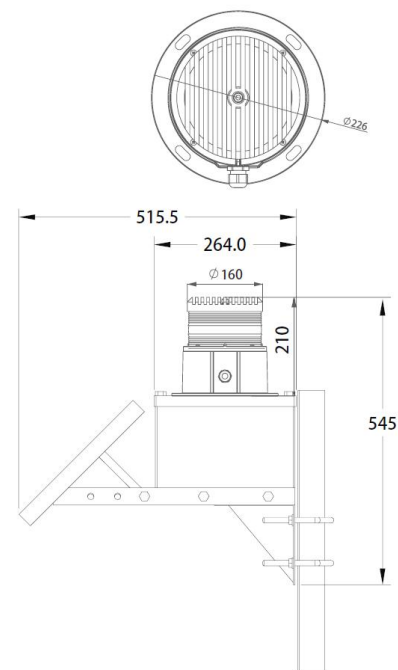
Features& Benefits:

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Self-contained without outside power supply.
- Maximum visibility distance 15KM.
- Once fully charged, it can work for up to 8 days.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- No wiring job, nice & easy installation.
- with GPS function, can work with other lights synchronously.
- Corrosion resistant lamp& housing-suitable for off-shore use.



Specifications:

Light source	LED
Rated power	40W
Explosion-proof marks	ExudeIICT6/DIP A20, TA, T6
Protection level	IP65
The anti-corrosion level	WF2
Light shell material	Aluminum alloy
lampshade	Tempered glass
LED color	Red,blue,yellow,green
voltage	Can be customized 12V (conventional), 24V, 36V, 110V, 127V, 220V
Light range	>5Km(T=0.95)
Light control sensitivity	200LX(optional)
Maintenance free battery capacity	12V7AH
working environment	-40℃ ~ +70℃
Chassis mounting size	Maximum circle Φ180, uniformly distributed in the pitch circle Φ150mm 4-Φ10mm hole
Warranty	1 year



Outline Dimension

Execution standard:

GB3836.1、GB3836.2、GB3836.3、GB12476.1、JT7003 EC60079-0、|EC60079-1、EC60079-7、|EC61241-0、c61241-1、EN60079-0、EN60079-1、EN60079-7、EN61241-0、EN61241-1



Solar Series

- DLT10S Series
- TY10S/TY10D Series
- TY15S Series
- TY60 Series
- TY2KS/TY2KD Series
- TY4W Series
- DLT32S Series
- TY32S/TY32D Series
- TY80 Series
- TY2AS/TY2AD Series

DLT10S LED Low Intensity Solar Powered Obstruction Light (Type A)

Description:

DLT10S Series is solar powered obstruction light. Solar function make it a self-contained and almost car-free light unit.

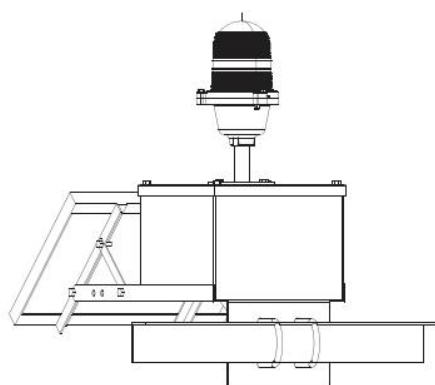
The light system is composed of 3 parts: light, battery box and solar panel. When the light and solar panel connected to the battery box, the whole system can be mounted on a tower. Both vertical mounting and horizontal mounting are available.

DLT10S is equipped with a 8Ah VRLA(voltage regulated lead acid) rechargeable battery which could power the light up to 7 days when the weather is cloudy&rainy. The 8Ah VRLA battery is also easy to find almost anywhere.

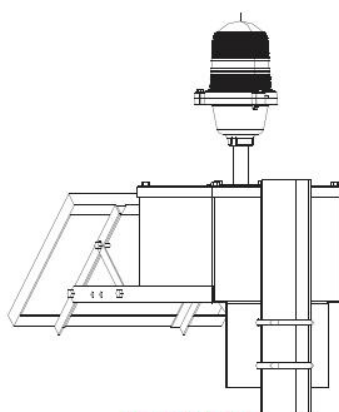
Features& Benefits:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 3.6 KM
- Once fully charged, it can work for up to 7 days
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available

Installation Drawing:



Horizontal Mount

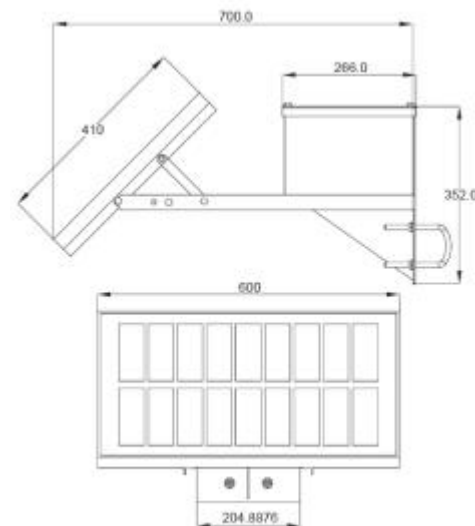


Vertical Mount



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	10 Candela
Nominal Night Range	>3.6 KM
LED Color Available	Red, blue, green or white
Vertical Divergence	10 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	>7 days
On & Off Level	70/100 Lux
Flash Pattern	Steady burning、Flashing(20-60times/min)
POWER SUPPLY	
Power Source	15V/6W Solar module, mono-crystalline silicon
Solar Efficiency	13.5%
Battery Capacity	VRLA, 12V/8Ah
Battery Replacement	Yes, replaceable
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP67
Weight	7.5 kg
Temperature Range	-40℃ ~ +70℃
Warranty	5 years for light 2 years for VRLA battery



Applications:

- High rise building marking
- Road obstruction marking
- Port, dock entrance&walkway
- Offshore gas&oil platform
- Telecom tower marking
- Wind-turbine
- Bridge cranes

DLT32S L-810 LED Low Intensity Solar Powered Obstruction Light (Type B)

Description:

DLT32S Series is solar powered obstruction light. Solar function make it a self-contained and almost car-free light unit. The light system is composed of 3 parts: light, battery box and solar panel. When the light and solar panel connected to the battery box, the whole system can be mounted on a tower. Both vertical mounting and horizontal mounting are available.

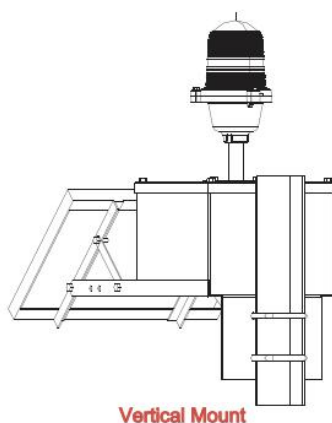
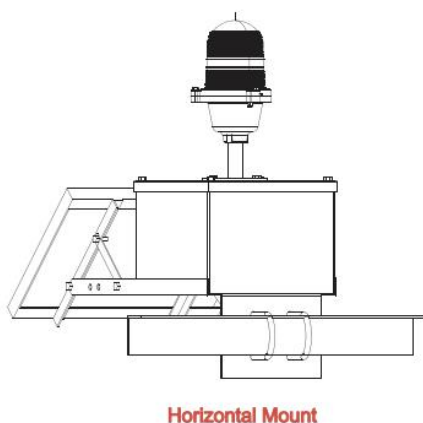
DLT32S is equipped with a 12Ah VRLA(valve regulated lead acid) rechargeable battery which could power the light up to 5 days when the weather is cloudy&rainy. The 12Ah VRLA battery is also easy to find almost anywhere.

Both single light & double light are available in this series.

Features:

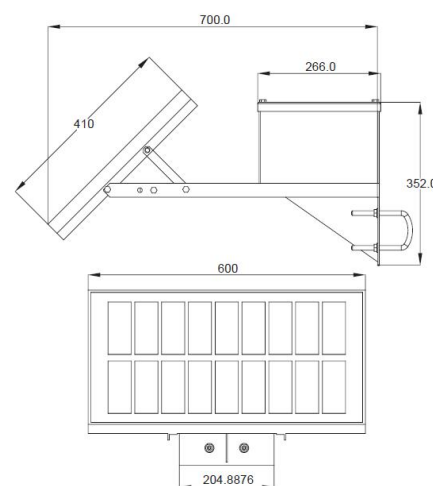
- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 7.6 KM
- Once fully charged, it can work for up to 5 days
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available

Installation Drawing:



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	32.5 Candela
Nominal Night Range	>7.6 KM
LED Color Available	Red
Vertical Divergence	10 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	5 days
On & Off Level	70/100 Lux
Flash Pattern	Steady burning
POWER SUPPLY	
Power Source	Solar module, mono-crystalline silicon
Solar Efficiency	13.5%
Battery Capacity	VRLA, 12V/12Ah
Battery Replacement	Yes, replaceable
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Polycarbonate or Die-casting Aluminum
Water-proof	IP67
Weight	12 kg
Temperature Range	-40℃ ~ +70℃
Warranty	5 years for light 2 years for VRLA battery



Applications:

- High rise building marking
- Road obstruction marking
- Port, dock entrance&walkway
- Offshore gas&oil platform
- Telecom tower marking
- Wind turbine
- Bridge cranes

Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B and Type E
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico

TY10S LED Single Low Intensity Solar Powered Obstruction Light(Type A)

Description:

The solar panel comes with TY10S provides power supply to the light, which makes TY10S a self-contained and care-free light unit. Also, with the solar function, the light is easy to deploy to almost any condition and any emergency case. Robust body built and surface coating provides good protection against harsh environments. TY10S is equipped with an 8Ah NiMH rechargeable battery which could power the light up to 20 days when the weather is cloudy & rainy. NiMH battery is also a clean power source with no pollution. The NiMH battery is also easy to find almost anywhere. TY10S is also available with an optional on/off switch for storing and protect battery from over-discharging.

Features:

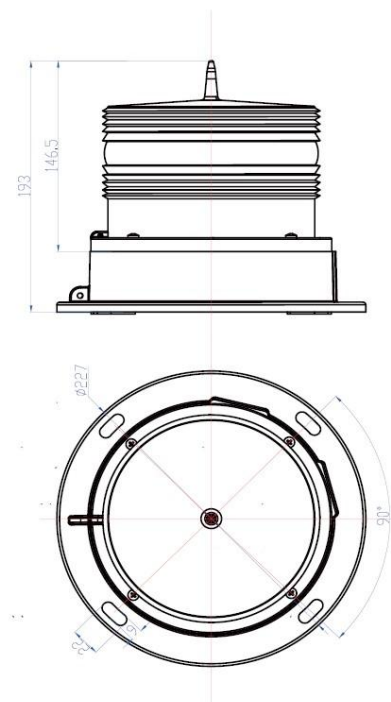
- High quality optics for excellent beam spread control
- Ultra-light LEDs or Infrared led, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 3.6KM
- Once fully charged, it can work for up to 200hrs
- Auto-off after being packed for 18 hours
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation
- Dip switch for fixed type to flashing changeable
- Dry contact alarm, it will give an alarm in case of light failure, battery failure, power failure etc(optional)

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform

Specifications:

LIGHT OUT-PUT	
Intensity(cd)	Steady-on: Blue-2.8 Red-6 Green-8.0 White-7.0 Yellow-6.5 Flashing: Blue-5.5 Red-10 Green-15 White-12.1 Yellow-11.2
Nominal Night Range	>3.6 KM
LED Color Available	Red, Green, White, Yellow, Blue
Vertical Divergence	10 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs or Infrared led
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	>20 days
On & Off Level	70/100 Lux
Flash Pattern	40FPM (20-60FPM available) or steady burning type
POWER SUPPLY	
Power Source	Solar module, mono-crystalline silicon
Solar Efficiency	13.5%
Max. Power Out-put	1.8 Watts
Battery Type	High-efficiency NiMH rechargeable battery
Battery Capacity	8 AH
Battery Replacement	Yes, replaceable
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Polycarbonate or Die-casting Aluminum
Water-proof	IP67
Weight	1.65 kg (Polycarbonate) or 2.5kg (Die-casting Aluminum)
Temperature Range	-40℃ ~ +70℃
Dimensions	215.5mm H, 226mm Diameter
Warranty	5 years for light 2 years for NiMH battery



TY10D LED Dual Low Intensity Solar Powered Obstruction Light(Type A)

Descriptions:

Based on LANSING TY10, TY10D is a “twin” model which can be working synchronization. An internal solar panel comes with each single light of TY10D, provides power supply to the light, which makes TY10D a self-contained and care-free light unit. Also, with the solar function, the light is easy to deploy to almost any condition and any emergency case. Robust body built and surface coating provides good protection against harsh environments.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 3.6 KM
- Once fully charged, it can work for up to 200 hours
- Auto-off after being packed for 18 hours
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- With GPS function, can work with other lights synchronously(optional).

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Wind turbine
- Port, dock entrance & walkway
- Bridge cranes
- Offshore gas & oil platform



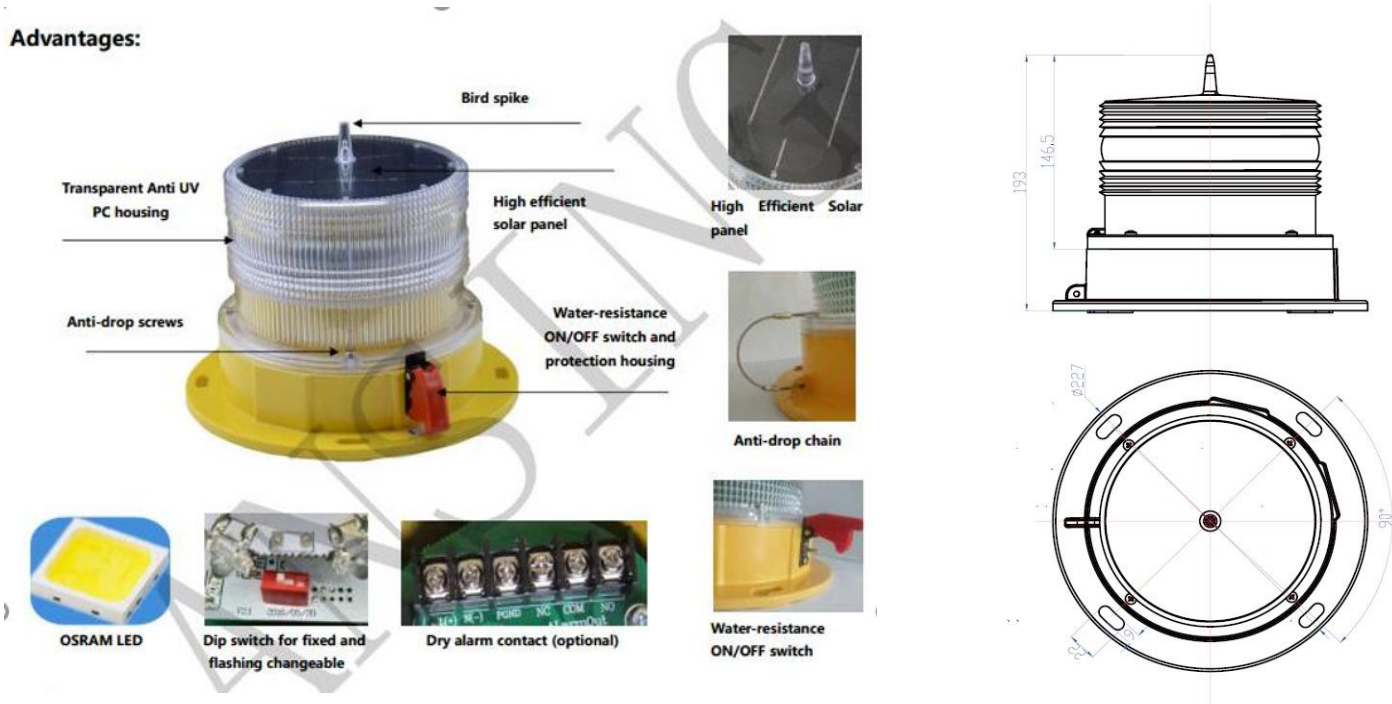
Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B and Type E
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico

Specifications:

Peak Intensity(cd)	Steady burning: Blue-2.8 Red-6.8 Green-9.0 White-7.0 Yellow-6.5 Flashing: Blue-5.5 Red-18.2 Green-21.9
Available colors	Red, Green, White, Yellow, Amber, Blue
Nominal Night Range	>3.6KM
Horizontal Output(degree)	360
Vertical Divergence	0 to +7
Reflector Type	Omnidirectional 360° LED Reflector
Led life Expectancy(hours)	>100,000
Operating Voltage(V)	3.6
Temperature Range	-40 to 70°C
Solar module Type	Multi-crystalline
Output(watts)	1.8(watt)
Charging regulation	17
Power supply	Microprocessor controlled
Battery type	High grade NiMH Environmentally Friendly
Battery Capacity(Ah)	8
Nominal Voltage(V)	3.6
Autonomy(nights)	Steady on: >14 days
Flashing:	20 days (14 hours darkness, 12.5% duty cycle)
Body material	Polycarbonate or Die casting Aluminum
Lens Material	Polycarbonate (UV stabilized)
Weight	3.5kg (polycarbonate) or 5kg (die casting aluminum)
Humidity	0 to 100%
Product life Expectancy	Up to 8 years
Warranty	5 years on the light, and 2 years on the battery

Advantages:



TY15S LED Single Low Intensity Solar Powered Obstruction Light(Type A)

Description:

TY15S is a heavy duty solar navigation light providing 360 degrees of lighting, for identifying docks, navigation aides or obstructions at night. It is also can be used as warning light to control traffic. TY15S is with 18pcs SMD and double optics shells, anti-UV polycarbonate, so that it gives out bright light to be seen from over 2NM far away during nighttime. Benefit by the special design, SNL-HD is with IP65 water and dust-proof and strong.

Features:

- Maintenance-free by solar powered.
- 18pcs SMD with optics shells, super bright.
- Visibility over 2000m.
- White, Yellow, Red, Green LED are customized.
- Strong body with IP65 water and dust-proof.
- Always on over 24hours after fully charged.
- Flash rate changes according to battery voltage.

ITEM NO.	WORKING MODE
SNL-HD-1:	Steady (Always on) - OFF
SNL-HD-2:	Double Flash - OFF
SNL-HD-3:	Steady - Single Flash -OFF
INSTALLATION	
Flat mounted:	By 4-M6 screws (included)
Pole mounted:	M27x1.75 25mm thread

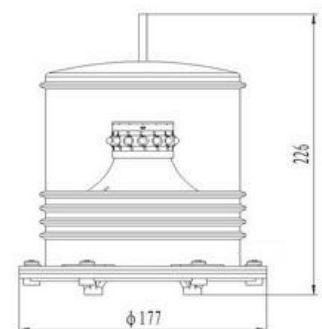
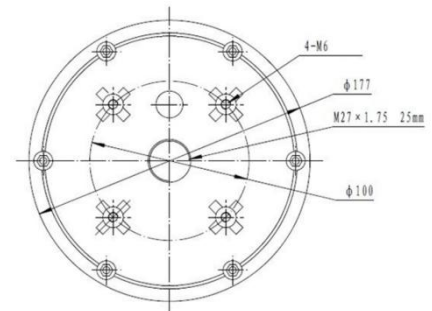
Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	10cd
LED Color Available	Red
Vertical Divergence	10 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	10 days
On & Off Level	70/100 Lux
Flash Pattern	40FPM(other flashing pattern are available)
POWER SUPPLY	
Power Source	Solar module, mono-crystalline silicon
Solar Efficiency	13.5%
Max. Power Out-put	1.5 Watts
Light source	18pcs SMD
Battery Capacity	3.7V 4000mAh lithium 18650 cell
Battery Replacement	Yes, replaceable
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Anti-UV PC shells + ABS base
Water-proof	IP67
Weight	1.28KG
Temperature Range	-10℃ ~ +50℃
Dimensions	Diameter 117 x 180mm (226mm with spike)
Warranty	5 years for light 1 year for Li-ion battery



TY32S L-810 LED Single Low Intensity Solar Powered Obstruction Light (Type B)

Description:

The solar panel comes with TY32S provides power supply to the light, which makes TY32S a self-contained and care-free light unit. Also, with the solar function, the light is easy to deploy to almost any condition and any emergency case. Robust body built and surface coating provides good protection against harsh environments. TY32S is equipped with an 8Ah NiMH rechargeable battery which could power the light up to 10 days when the weather is cloudy & rainy. NiMH battery is also a clean power source with no pollution. The NiMH battery is also easy to find almost anywhere. TY32S is also available with an optional on/off switch for storing and protect battery from over-discharging.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 7.6KM
- Once fully charged, it can work for up to 100hrs
- Auto-off after being packed for 18 hours
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation

Applications:

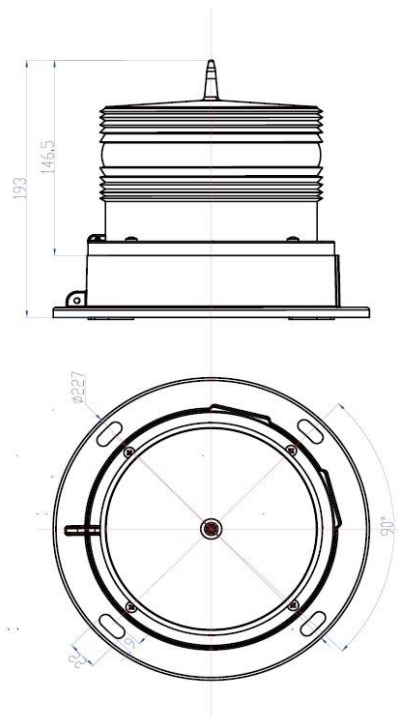
- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance & walkway
- Buoy marking
- Offshore gas & oil platform

Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B and Type E
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico

Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	32.5 Candela
Nominal Night Range	>7.6 KM
LED Color Available	Red
Vertical Divergence	10 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	100 Hours
On & Off Level	70/100 Lux
Flash Pattern	20-60FPM (optional)
POWER SUPPLY	
Power Source	Solar module, mono-crystalline silicon
Solar Efficiency	13.5%
Max. Power Out-put	4.8 Watts
Battery Type	High-efficiency NiMH rechargeable battery
Battery Capacity	8 AH
Battery Replacement	Yes, replaceable
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Polycarbonate or Die-casting Aluminum
Water-proof	IP67
Weight	1.65 kg (Polycarbonate) or 2.5kg (Die-casting Aluminum)
Temperature Range	-40℃ ~ +70℃
Dimensions	215.5mm H, 226mm Diameter
Warranty	5 years for light, 2 years for NIMH battery



TY32D L-810 LED Dual Low Intensity Solar Powered Obstruction Light (Type B)

Descriptions:

Based on LANSING TY32, TY32D is a “twin” model which can be working synchronization. An internal solar panel comes with each single light of TY32D, provides power supply to the light, which makes TY32D a self-contained and care-free light unit. Also, with the solar function, the light is easy to deploy to almost any condition and any emergency case. Robust body built and surface coating provides good protection against harsh environments.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 7.6 KM
- Once fully charged, it can work for up to 100 hours
- Auto-off after being packed for 18 hours
- All hardware of obstruction lights are made of corrosion resistant metals.
- Bird spikes for protection against droppings.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- Low power consumption, which leads to huge savings on electricity bills.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- With GPS function, can work with other lights synchronously(optional).

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance & walkway
- Buoy marking
- Offshore gas & oil platform



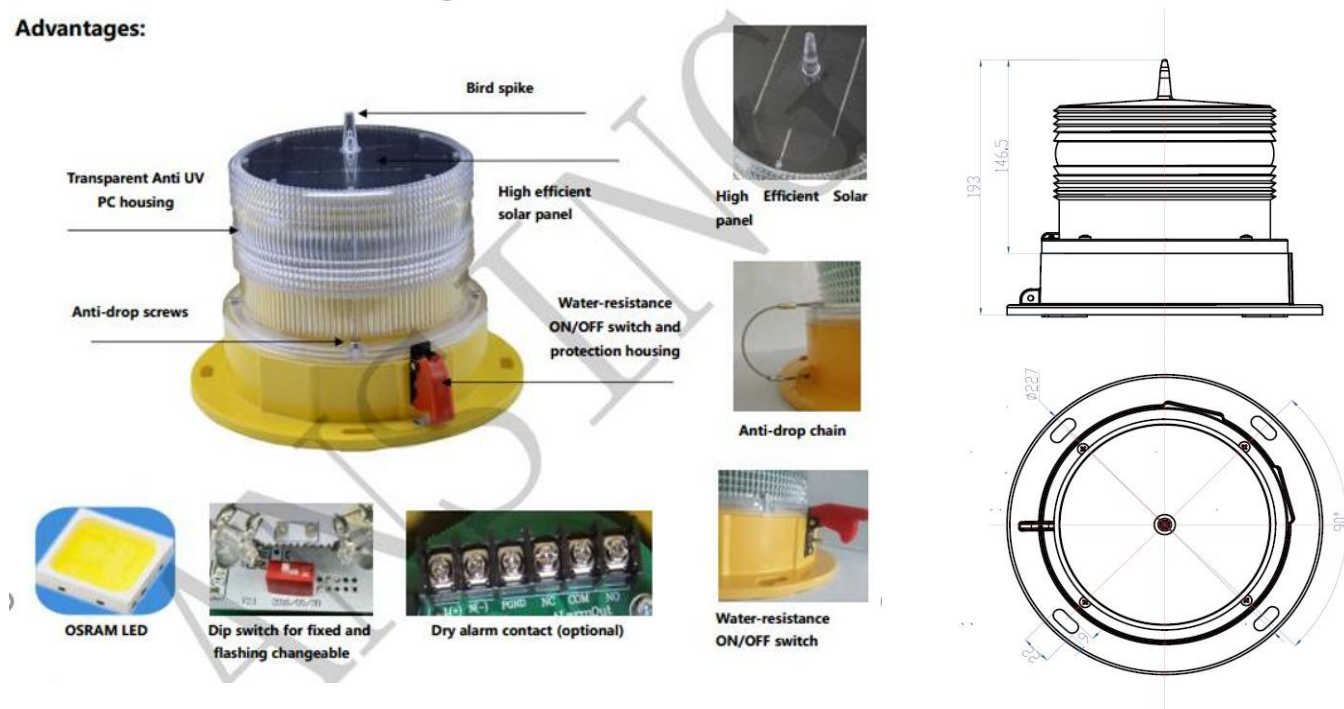
Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B and Type E
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico

Specifications:

Peak Intensity(cd)	Steady burning: Blue-2.8 Red-6.8 Green-9.0 White-7.0 Yellow-6.5 Flashing: Blue-5.5 Red-18.2 Green-21.9 White-19.1 Yellow-15.1
Available colors	Red, Green, White, Yellow, Amber, Blue
Nominal Night Range	>3.6KM
Horizontal Output(degree)	360
Vertical Divergence	0 to +7
Reflector Type	Omnidirectional 360° LED Reflector
Led life Expectancy(hours)	>100,000
Operating Voltage(V)	3.6
Temperature Range	-40 to 70℃
Solar module Type	Multi-crystalline
Output(watts)	1.8(watt)
Charging regulation	17
Power supply	Microprocessor controlled
Battery type	High grade NiMH- Environmentally Friendly
Battery Capacity (Ah)	8
Nominal Voltage(V)	3.6
Autonomy(nights)	Steady-on: >14 days Flashing: 20 days (14 hours darkness, 12.5% duty cycle)
Body material	Polycarbonate or Die casting Aluminum
Lens Material	Polycarbonate (UV stabilized)
Weight	3.5kg (polycarbonate) or 5kg (die casting aluminum)
Humidity	0 to 100%
Product life Expectancy	Up to 8 years
Warranty	5 years on the light, and 2 years on the battery

Advantages:



TY60S L-810 LED Single Low Intensity Solar Powered Obstruction Light (Type B)

Description:

The solar panel comes with TY60S provides power supply to the light, which makes TY60S a self-contained and care-free light unit. Also, with the solar function, the light is easy to deploy to almost any condition and any emergency case. Robust body built and surface coating provides good protection against harsh environments. TY60S is equipped with an 8.8Ah Lithium rechargeable battery which could power the light up to 15 days when the weather is cloudy & rainy. Lithium battery is also a clean power source with no pollution. The Lithium battery is also easy to find almost anywhere. TY60S is also available with an optional on/off switch for storing and protect battery from over-discharging.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs or Infrared led, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 7.6KM
- Once fully charged, it can work for up to 15 days
- Auto-off after being packed for 18 hours
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation
- Dip switch for fixed type to flashing changeable
- Dry contact alarm, it will give an alarm in case of light failure, battery failure, power failure etc.(optional)

Applications:

- High rise building marking
- Road obstruction marking
- Port, dock entrance walkway
- Offshore gas & oil platform
- Telecom tower marking
- Navigation aid
- Buoy marking

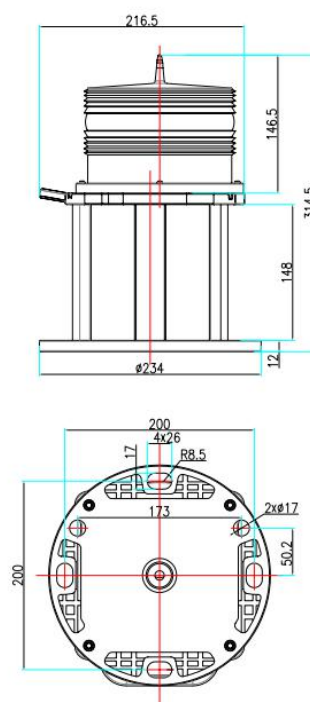
Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B and Type E
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico



Specifications:

SPECIFICATIONS	
LIGHT OUTPUT	TY60S
Effective Intensity	>32.5cd
Visibility	>7.6km
Minimum Autonomy	>15 days
Vertical Divergence	10 Degree
Horizontal	360 Degree
Power source	Solar module, mono-crystalline silicon
LED color	Red, green, blue, yellow, or white
On & Off Level	70/100 Lux
LED lifespan	100,000 Hours
Flash Pattern	20-90FPM (Preprogrammed default 40FPM) or steady burning
Solar Panel	10W Solar module, mono-crystalline silicon with 14% efficiency
Storage battery	8.8AH/3.7V , replaceable Lithium battery
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP68
Net Weight	4.6KG
Gross Weight	6.5KG
Temperature Range	-40C° ~ +55C°
Warranty	5 years for light 2 years for NiMH battery



TY80S L-864 LED Single Medium Intensity Solar Powered Obstruction Light (Type B)

Description:

The solar panel comes with TY80S provides power supply to the light, which makes TY80S a self-contained and care-free light unit. Also, with the solar function, the light is easy to deploy to almost any condition and any emergency case. Robust body built and surface coating provides good protection against harsh environments. TY80S is equipped with an 12V12Ah Lithium rechargeable battery which could power the light up to 25 days when the weather is cloudy & rainy. Lithium battery is also a clean power source with no pollution. The Lithium battery is also easy to find almost anywhere. TY80S is also available with an optional on/off switch for storing and protect battery from over-discharging.

Features& Benefits:

- High quality optics for excellent beam spreads control.
- Ultra-light LEDs or Infrared led, energy saving.
- Self-contained without outside power supply.
- Maximum visibility distance 10KM.
- Once fully charged, it can work for up to 25 days.
- Auto-off after being packed for 18 hours
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- No wiring job, nice & easy installation.
- Dip switch for fixed type to flashing changeable.
- Dry contact alarm, it will give an alarm in case of light failure, battery failure, power failure etc.(optional)

Applications:

- High rise building marking
- Road obstruction marking
- Port, dock entrance & walkway
- Offshore gas & oil platform
- Telecom tower marking
- Navigation aid
- Buoy marking

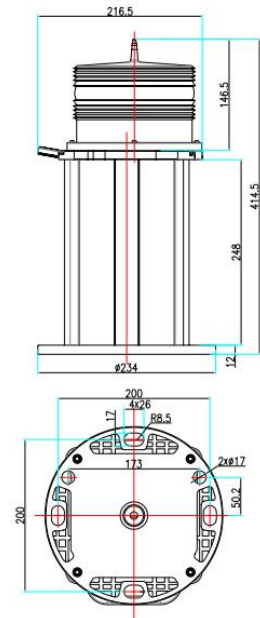


Compliance:

- ICAO Annex 14, Volume I, Obstruction Light Low Intensity Type B and Type E
- FAA AC No. 150/5345-43, L-810
- DGAC Mexico

Specifications:

SPECIFICATIONS	
LIGHT OUTPUT	TY80S
Effective Intensity	>50cd
Visibility	10KM
Minimum Autonomy	25 days (flashing), 8 days(steady on)
Vertical Divergence	10 Degree
Horizontal	360 Degree
Power source	Solar module, mono-crystalline silicon
LED color	Red,other color can be customized
On & Off Level	70/100 Lux
LED lifespan	100,000 Hours
Flash Pattern	20-90FPM (Preprogrammed default 40FPM)
Solar Panel	18V/4*5W Solar module,mono-crystalline silicon with 14%efficiency
Storage battery	12V12AH, replaceable High-efficiency Lithium rechargeable battery
MACHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP68
Net Weight	6.8KG
Gross Weight	7.6KG
Temperature Range	-40C° ~ +55C°
Warranty	5 years for light 2 years for lithium battery



TY2KS L-864 LED Single Medium Intensity Solar Powered Obstruction Light (Type B)

Description:

TY2KS solar powered LED medium intensity red obstruction light, solar self-contained design makes it easy to install any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

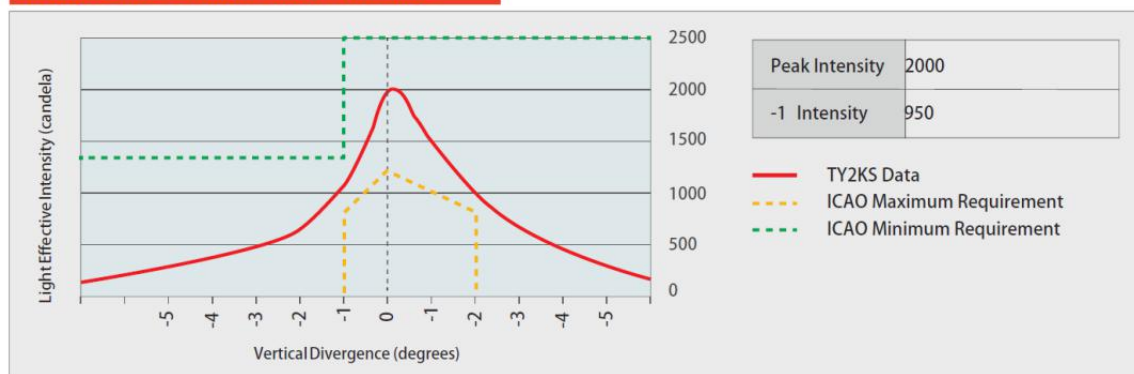
TY2KS equipped with a 18W solar panel and 12Ah VRLA (Valve-Regulated Lead Acid) rechargeable battery which could power the light up to 8 days when the weather is cloudy & rainy. It has built in GPS, can work with other lights synchronously.

Features:

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Self-contained without outside power supply.
- Maximum visibility distance 15KM.
- Once fully charged, it can work for up to 8 days.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- No wiring job, nice & easy installation.
- with GPS function, can work with other lights synchronously(optional).

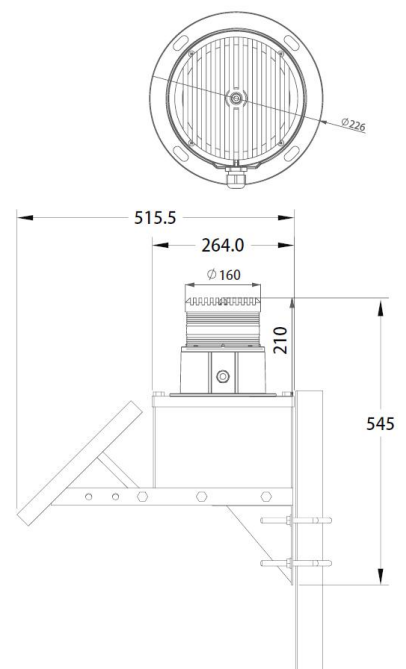


TY2KS Series Photometric Performance



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	2000 Candela
LED Color Available	Red, white, green, blue or yellow
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	8 days (in cloudy & rainy days)
On & Off Level	70/100 Lux
Flash Pattern	40 times/min(other flashing pattern also available)
POWER SUPPLY	
Power Source	17.5V/18W solar module
Battery Type	Lead acid type. 12V/12AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	11KG
Temperature Range	-40℃ ~ +70℃
Light Dimensions	200mm H, 178mm Diameter
Solar panel Dimension	420mm*600mm(bracket not included)
Warranty	5 years for light 2 years for Lead acid battery 10 years for solar panel



Compliance:

- FAA : Medium intensity L864
- Flashing ICAO: Medium intensity type B
- FAA Type L864

TY2KD L-864 LED Dual Medium Intensity Solar Powered Obstruction Light(Type B)

Description:

TY2KD solar powered LED medium intensity red obstruction light, solar self-contained design makes it easy to install any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

TY2KD is equipped with a 18W solar panel and 12Ah VRLA (Solve-Regulated Lead Acid) rechargeable battery which could power the light up to 8 days when the weather is cloudy & rainy.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 15KM
- Once fully charged, it can work for up to 8 days
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Normally one light works, it will auto transfer to the standby light in case of failure of the service light.
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation
- with GPS function, can work with other lights synchronously(optional).

Compliance:

- FAA : Medium intensity L864
- Flashing ICAO:Medium intensity type B
- FAA Type L864



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	2000 Candela
LED Color Available	Red
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	5 days (in cloudy & rainy days)
On & Off Level	70/100 Lux
Flash Pattern	40 times/min(other flashing pattern also available)
POWER SUPPLY	
Power Source	17.5V/18W solar module
Battery Type	Lead acid type. 12V/12AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	18KG
Temperature Range	-40℃ ~ +70℃
Warranty	5 years for light;2 years for Lead acid battery;10 years for solar panel

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform

TY2AS L-865 LED Single Medium Intensity Solar Powered Obstruction Light(Type A&B)

Description:

TY2AS solar powered LED medium intensity red obstruction light, solar self-contained design makes it easy to install any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

TY2AS is equipped with a 18W solar panel and 12Ah VRLA (Voltage-Regulated Lead Acid) rechargeable battery which could power the light up to 3-4 days when the weather is cloudy & rainy.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 20KM
- Once fully charged, it can work for up to 3-4 days
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation.
- With GPS function, can work with other lights synchronously(optional).

Compliance:

- FAA : Medium intensity L864
- Flashing ICAO:Medium intensity type B
- FAA Type L864



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	(Night,red)2000cd (±25%),(Daytime,white)20000cd (±25%)
LED Color Available	Red and white
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	3-4 days (in cloudy & rainy days)
On & Off Level	70/100 Lux
Flash Pattern	Flashing (20-60 times/min available)
POWER SUPPLY	
Solar panel	45W25V
Battery Type	Lead acid type. 24V/12AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	14KG
Temperature Range	-40℃ ~ +70℃
Warranty	5 years for light;2 years for Lead acid battery;10 years for solar panel

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform

TY2AS-R L-865 LED Single Medium Intensity Solar Powered Obstruction Light(Type A&B)

Description:

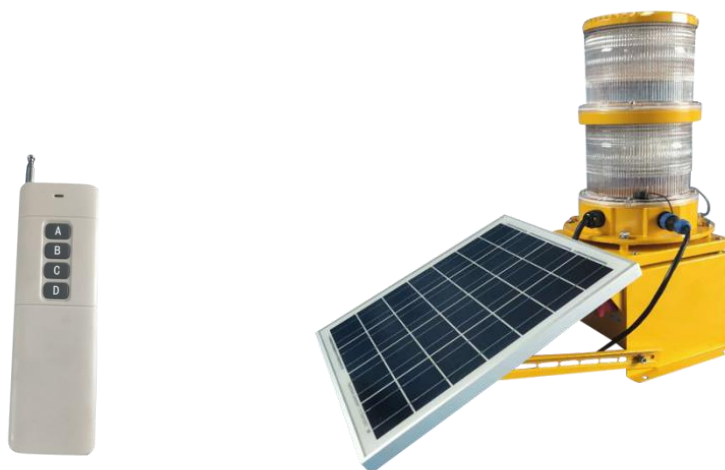
TY2AS-R solar powered LED medium intensity red obstruction light, solar self-contained design makes it easy to install any emergency case. Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking. TY2AS-R is equipped with a 18W solar panel and 12Ah VRLA (Voltage-Regulated Lead Acid) rechargeable battery which could power the light up to 3-4 days when the weather is cloudy & rainy.

Features:

- High quality optics for excellent beam spread control.
- Ultra-light LEDs, energy saving.
- Self-contained without outside power supply.
- Maximum visibility distance 20KM.
- Once fully charged, it can work for up to 3-4 days.
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free.
- Shock and vibration resistant.
- Corrosion resistant and UV stable polycarbonate housing.
- Ease of mount, mount accessories available.
- No wiring job, nice & easy installation.
- With GPS function, can work with other lights synchronously(optional).
- Corrosion resistant lamp& housing-suitable for off-shore use.
- Remote controller will control the light ON/OFF, and also control the red light at night from steady burning to flashing mode.

Compliance:

- FAA : Medium intensity L864
- Flashing ICAO: Medium intensity type B
- FAA Type L864



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	(Night,red)2000cd (±25%),(Daytime,white)20000cd (±25%)
LED Color Available	Red and white
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	3-4 days (in cloudy & rainy days)
On & Off Level	70/100 Lux
Flash Pattern	Flashing (20-60 times/min available)
POWER SUPPLY	
Solar panel	45W25V
Battery Type	Lead acid type. 24V/12AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	14KG
Temperature Range	-40℃ ~ +55℃
Warranty	5 years for light;2 years for Lead acid battery;10 years for solar panel

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance&walkway
- Buoy marking
- Offshore gas&oil platform

TY2AD L-865 LED Dual Medium Intensity Solar Powered Obstruction Light (Type A)

Description:

TY2AD solar powered LED medium intensity red obstruction light, solar self-contained design makes it easy to install any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

TY2AD is equipped with a 18W solar panel and 12Ah VRLA (Solve-Regulated Lead Acid) rechargeable battery which could power the light up to 8 days when the weather is cloudy & rainy.

Features:

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 21KM
- Once fully charged, it can work for up to 3-4 days
- All hardware of obstruction lights are made of corrosion resistant metals.
- Normally one light works, it will auto transfer to the standby light in case of failure of the service light.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation
- with GPS function, can work with other lights synchronously(optional).

Compliance:

- FAA : Medium intensity L864
- Flashing ICAO:Medium intensity type B
- FAA Type L864



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	(Night) 2000cd (±25%),(Daytime)20000cd (±25%)
LED Color Available	Red
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	3-4 days (in cloudy & rainy days)
On & Off Level	70/100 Lux
Flash Pattern	40 times/min(other flashing pattern also available)
POWER SUPPLY	
Power Source	17.5V/18W solar module
Battery Type	Lead acid type. 12V/12AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	21KG
Temperature Range	-40℃ ~ +70℃
Warranty	5 years for light;2 years for Lead acid battery;10 years for solar panel

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance & walkway
- Buoy marking
- Offshore gas & oil platform

TY4W L-856 LED Dual High Intensity Solar Powered Obstruction Light (Type A)

Description:

TY4W solar powered LED high intensity red obstruction light, solar self-contained design makes it easy to install in any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

TY4W is equipped with a 60W solar panel and 24Ah VRLA (Voltage-Regulated Lead Acid) rechargeable battery which could power the light up to 3-4 days when the weather is cloudy & rainy.

Major functions & features

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 40KM
- Once fully charged, it can work for up to 6 days in flashing mode and 3 days in fixed mode
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	(Night, white) 2000cd ($\pm 25\%$),(at dusk, white)20,000cd ($\pm 25\%$),(daytime, white)200,000cd
LED Color Available	White
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	6 days (in cloudy&rainy days) in flashing mode, 3 days in steady mode
On & Off Level	70/100 Lux
Flash Pattern	Flashing (20-60 times/min available)
POWER SUPPLY	
Solar panel	60W18V
Battery Type	Lead acid type. 24V/24AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	17KG
Temperature Range	-40℃ ~ +55℃
Warranty	5 years for light 2 years for Lead acid battery 10 years for solar panel

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance & walkway

TY4W-B L-856 LED Dual High Intensity Solar Powered Obstruction Light (Type A)

Description:

TY4W-B solar powered LED high intensity red obstruction light, solar self-contained design makes it easy to install any emergency case.

Robust body built and surface coating provides good protection against harsh environments. Other advantages like energy saving and cable saving make the solar powered light a good option on obstruction marking.

TY4W is equipped with a 60W solar panel and 24Ah VRLA (Voltage-Regulated Lead Acid) rechargeable battery which could power the light up to 3-4 days when the weather is cloudy & rainy.

Major functions & features

- High quality optics for excellent beam spread control
- Ultra-light LEDs, energy saving
- Self-contained without outside power supply
- Maximum visibility distance 40KM
- Once fully charged, it can work for up to 6 days in flashing mode and 3 days in fixed mode
- All hardware of obstruction lights are made of corrosion resistant metals.
- Use of quality components and sophisticated technology reduce chances of maintenance and replacement.
- LED light source ensures long lifetime, maintenance free
- Shock and vibration resistant
- Corrosion resistant and UV stable polycarbonate housing
- Ease of mount, mount accessories available
- No wiring job, nice & easy installation



Specifications:

LIGHT OUT-PUT	
SPECIFICATIONS	(Night, white) 2000cd ($\pm 25\%$), (at dusk, white) 20,000cd ($\pm 25\%$), (daytime, white) 200,000cd
LED Color Available	White
Vertical Divergence	Peak intensity at 1 Degree
Horizontal Out-put	360 Degree
Illumination	Ultra-bright LEDs
LED Lifespan	100,000 Hours
OPERATION	
Autonomy	6 days (in cloudy&rainy days) in flashing mode, 3 days in steady mode
On & Off Level	70/100 Lux
Flash Pattern	Flashing (20-60 times/min available)
POWER SUPPLY	
Solar panel	45W25V
Battery Type	Lead acid type. 24V/24AH(VRLA)
MECHANICAL STRUCTURE	
Lens	Polycarbonate, UV Stabilize
Body	Die-casting Aluminum
Water-proof	IP65
Weight	17KG
Temperature Range	-40℃ ~ +55℃
Warranty	5 years for light 2 years for Lead acid battery 10 years for solar panel

Applications:

- High rise building marking
- Telecom tower marking
- Road obstruction marking
- Navigation aid
- Port, dock entrance & walkway



Control Box

Series

- CBL02A Control panel
- CBL04A&CBL04B Control Panel
- CBL08A&CBL08B Control Panel
- JB0X Junction Box
- JB25 Junction Box

CBL02A Control Box

Application:

CBL02A Control panel for monitor lighting operation system for the following failures: burned out lamp, photocell, power failure. & flashing rate control

Features:

- Switch on / off several lights synchronously
- The alarm signal is relay contact, inactive. Detect the working status of aviation light and give an alarm in case of failure.
- With override manual switch—can switch ON/OFF the light when the photocell is not available (optional)
- With external photocell, in case of photocell failure, the control will give an alarm
- With LED indicators, to indicate the AWL system working status
- With service and standby function, when the service fails, the control panel will switch on the standby light automatically. Additionally the lamps will alternate operation in 24 hours cycles to ensure the housing does not overheat (optional)

Specification:

Supply voltage	DC48V/AC220V	Alarm output ways	2 way
Control circuit branch	2 way	Flash frequency	Based on the aviation light
Photocell sensitivity	70~100Lux(ON/OFF)	Alarm output	One way dry connect(relay) output
Control method	Steady burning	IP Protection	IP65
Ambient temperature	-30°C ~ +70°C	Material	ABS, Aluminum alloy (Optional)
Humidity	10% ~ 95% (no coagulation)	Weight	1.5kg

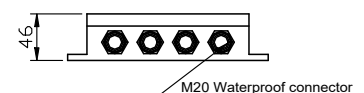


Note:

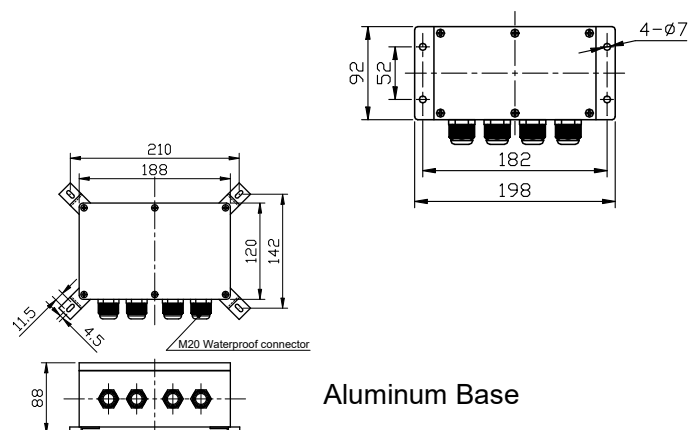
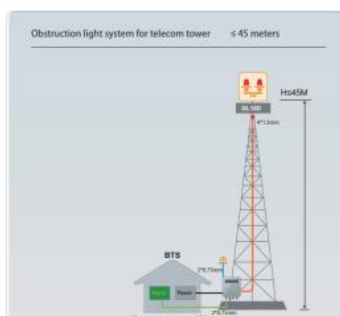
- Please read the instruction carefully before operation.
- Be sure not to connect polarity reversed.

Installation dimension (mm)

common



Application:



Aluminum Base

CBL04A Control Box

Applications:

Control panel for monitor lighting operation system for the following failures: burned out lamp, photocell, power failure, control panel failure & flashing rate control

Features:

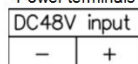
- Control several lights flashing synchronously
- Led indicator, in case of light failure, the control panel will give an alarm, at the same time, led indicator will show.
- The alarm signal is relay contact, inactive.
- With override manual switch—can switch ON/OFF the light when the photocell is not available
- With external photocell, in case of photocell failure, the control will give an alarm
- With service and standby function, when the service fails, the control panel will switch on the standby light automatically. Additionally, the lamps will alternate operation in 24 hours cycles to ensure the housing does not overheat

Specification:

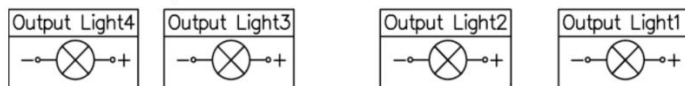
Operating voltage	DC48V/AC110V-240V	Alarm output	4 channels
Control sub channel	4 channels	Flashing rate	20~60times/mins
On/off level	70~100Lux	Alarm	Dry contact alarm
Steady burning and flashing mode available			
Operating	-30°C ~ +70°C	IP Protection	IP65
Relative humidity	10% ~ 95% (No coagulation)	Weight	Outdoor: 5.5Kg
Material	Cold rolled steel/Stainless steel (optional)		

Wiring

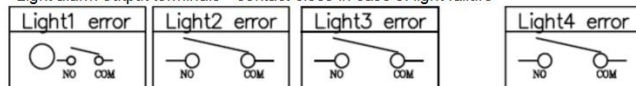
•Power terminals—to connect DC48V power supply(pay attention to positive and negative polarity)



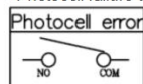
•Aviation light terminals—to connect aviation light (note: Output Light1 and Output Light 2 can switch each other in case of failure) .



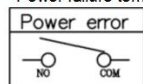
•Light alarm output terminals—contact close in case of light failure



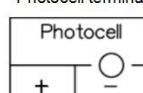
•Photocell failure terminals—Contact close in case of photocell failure



•Power failure terminals—Contact close in case of power failure



•Photocell terminals—to connect external photocell



Photocell

Installation and operation:

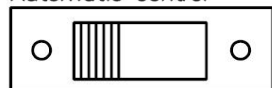
• Installation:

Fix the control panel using 4 nos M10 screws on a smooth place where have enough mechanical strength

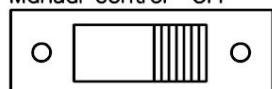
• Auto/manual switch:

Set the dip switch to the left side, the control panel is in auto status, in this case, the control panel will switch on/off the light at dawn and dusk automatically; set the dip switch to the middle, the control panel is in manual status, in this case, the aviation light works; set the dip switch to the right side, the control panel is in auto status, in this case, the aviation light is off. Details see follows:

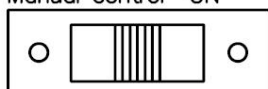
Automatic control



Manual control OFF



Manual control ON



• Steady burning/flashing mode alternate, and flashing rate setting:

When the 2 dip switch is in on status, the aviation light works, in this case, the other settings, the aviation light flashing and the flashing rate is optional among 20 times/40 times or 60 times. See follows: (FPM = FLASH PER MINUTE)



1=ON,2=ON
Steady Burning



1=ON,2=OFF
20 FPM



1=OFF,2=ON
40 FPM



1=OFF,2=OFF
60 FPM



Indicator instruction

• Power on, manual on, and auto on(green), see follows:

Power Manual Auto



• Aviation light ok (green) ; aviation light error(red) , see follows:

Light1 error   Light1 ok

Light2 error   Light2 ok

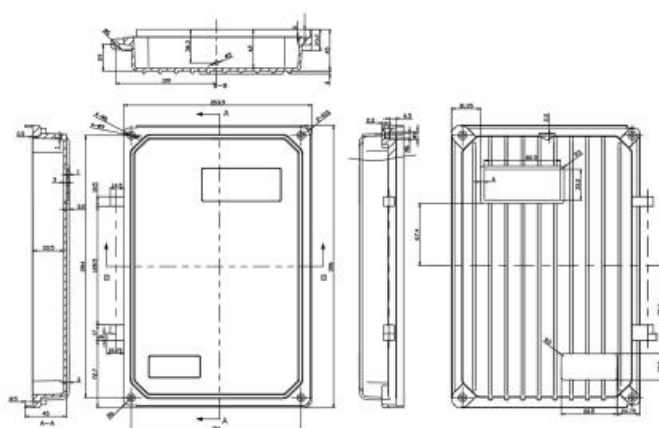
Light3 error   Light3 ok

Light4 error   Light4 ok

• Photocell ok (green) ; Photocell error (red) , see follows:

Photocell error   Photocell ok

Mounting dimension (unit: mm)



CBL08A Control Box

Applications:

Control panel for monitor lighting operation system for the following failures: burned out lamp, photocell, power failure, control panel failure & flashing rate control

Features:

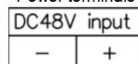
- Control several lights flashing synchronously
- Led indicator, in case of light failure, the control panel will give an alarm, at the same time, led indicator will show.
- The alarm signal is relay contact, inactive.
- With override manual switch—can switch ON/OFF the light when the photocell is not available
- With external photocell, in case of photocell failure, the control will give an alarm
- With service and standby function, when the service fails, the control panel will switch on the standby light automatically. Additionally, the lamps will alternate operation in 24 hours cycles to ensure the housing does not overheat

Specification:

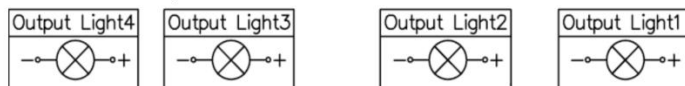
Operating voltage	DC48V/AC110V-240V	Alarm output	8 channels
Control sub channel	8 channels	Flashing rate	20~60times/mins
On/off level	70~100Lux	Alarm	Dry contact alarm
Steady burning and flashing mode available			
Operating	-30°C ~ +70°C	IP Protection	IP65
Relative humidity	10%~95%(No coagulation)	Weight	Indoor: 6.5Kg
Material	Cold rolled steel/Stainless steel (optional)		

Wiring

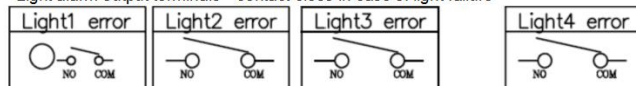
•Power terminals—to connect DC48V power supply(pay attention to positive and negative polarity)



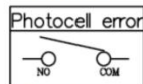
•Aviation light terminals—to connect aviation light (note: Output Light1 and Output Light 2 can switch each other in case of failure) .



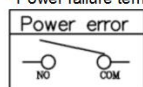
•Light alarm output terminals—contact close in case of light failure



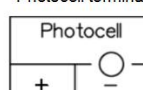
•Photocell failure terminals—Contact close in case of photocell failure



•Power failure terminals—Contact close in case of power failure



•Photocell terminals—to connect external photocell



Photocell

Installation and operation:

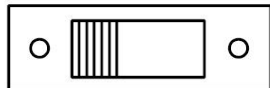
• Installation:

Fix the control panel using 4 nos M10 screws on a smooth place where have enough mechanical strength

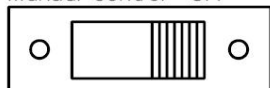
• Auto/manual switch:

Set the dip switch to the left side, the control panel is in auto status, in this case, the control panel will switch on/off the light at dawn and dusk automatically; set the dip switch to the middle, the control panel is in manual status, in this case, the aviation light works; set the dip switch to the right side, the control panel is in auto status, in this case, the aviation light is off. Details see follows:

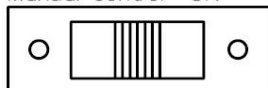
Automatic control



Manual control OFF

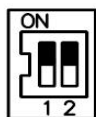


Manual control ON

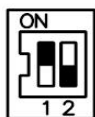


• Steady burning/flashing mode alternate, and flashing rate setting:

When the 2 dip switch is in on status, the aviation light works, in this case, the other settings, the aviation light flashing and the flashing rate is optional among 20 times/40 times or 60 times. See follows: (FPM = FLASH PER MINUTE)



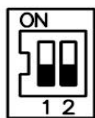
1=ON, 2=ON
Steady Burning



1=ON, 2=OFF
20 FPM



1=OFF, 2=ON
40 FPM



1=OFF, 2=OFF
60 FPM



Indicator instruction

- Power on, manual on, and auto on(green), see follows:

Power Manual Auto



- Aviation light ok (green) ; aviation light error(red) , see follows:

Light1 error



Light1 ok



Light2 error



Light2 ok



Light3 error



Light3 ok



Light4 error



Light4 ok



- Photocell ok (green) ; Photocell error (red) , see follows:

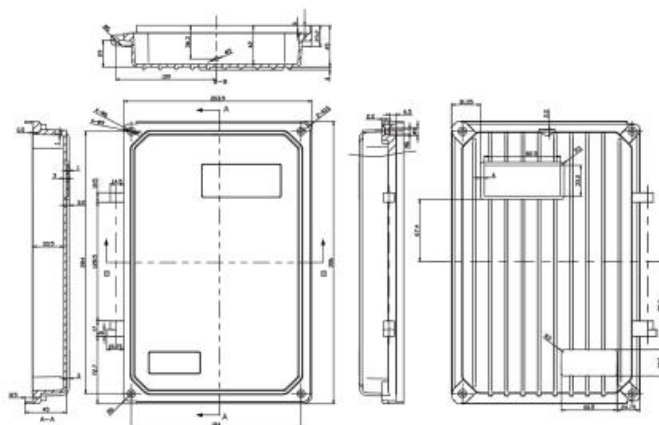
Photocell error



Photocell ok



Mounting dimension (unit: mm)



CBL04B Control Box

Applications:

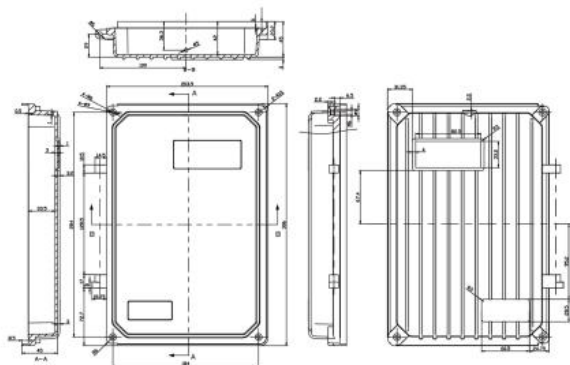
The user-friendly interface is intuitive for users to monitor operation status and easily configure functions and for monitor lighting operation system for the following failures: burned out lamp, photocell, power failure. & flashing rate control.

Features:

- Control several lights flashing synchronously
- LED indicators for lights, power and photocell.
- Each light output load maximum 1A
- Bypass I switch—can switch ON/OFF the light when the photocell is not available
- Up to 10 dry contact relays(NO&NC) for eight light outputs, power and photocell
- External photocell with prewired shielded cable easy for maintain, in case of photocell failure, the control will give an alarm
- Surge protector(up to 20KV) against voltage fluctuation and lighting strikes.
- "Service+Service"/"Service+Standby" adjustable when double lights used.

Specification:

Operating voltage	DC48V/AC110V-265V	Alarm output	4 channels
Number of light output	Up to 4	Flashing rate	20~60times/mins (Adjustable)
On/off level	70~100Lux	Alarm	NO&NC,Dry contact alarm(adjustable)
Steady burning and flashing mode available			
Operating temperature	-30°C ~ +70°C	IP Protection	IP65
Relative humidity	0~95%(Non condensing)	Weight	Indoor: 9Kg
Material	Cold rolled steel/Stainless steel (optional)		



Mounting dimension(mm)



Photocell

Installation and operation:

• Installation:

Fix the control panel using 4 nos M10 screws on a smooth place where have enough mechanical strength.

• Auto/manual switch:

Set the dip switch to the left side, the control panel is in auto status, in this case, the control panel will switch on/off the light at dawn and dusk automatically; set the dip switch to the middle, the control panel is in manual status, in this case, the aviation light works; set the dip switch to the right side, the control panel is in auto status, in this case, the aviation light is off. Details see follows:

Automatic control



Manual control OFF



Manual control ON

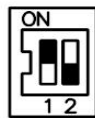


• Steady burning/flashing mode alternate, and flashing rate setting:

When the 2 dip switch is in on status, the aviation light works, in this case, the other settings, the aviation light flashing and the flashing rate is optional among 20 times/40 times or 60 times. See follows: (FPM = FLASH PER MINUTE)



1=ON,2=ON
Steady Burning



1=ON,2=OFF
20 FPM



1=OFF,2=ON
40 FPM



1=OFF,2=OFF
60 FPM

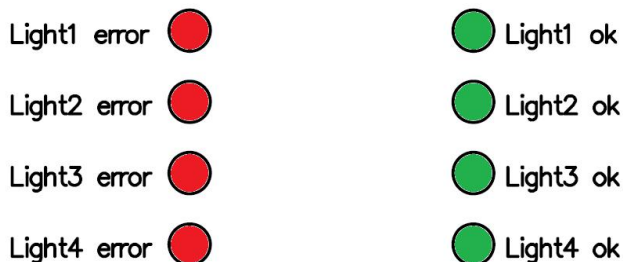


Indicator instruction

- Power on, manual on, and auto on(green), see follows:



- Aviation light ok (green) ; aviation light error(red) , see follows:



- Photocell ok (green) ; Photocell error (red) , see follows:



CBL08B Control Box

Applications:

The user-friendly interface is intuitive for users to monitor operation status and easily configure functions and for monitor lighting operation system for the following failures: burned out lamp, photocell, power failure. & flashing rate control.

Features:

- Control several lights flashing synchronously
- LED indicators for lights, power and photocell.
- Each light output load maximum 1A
- Bypass I switch—can switch ON/OFF the light when the photocell is not available
- Up to 10 dry contact relays(NO&NC) for eight light outputs, power and photocell
- External photocell with prewired shielded cable easy for maintain, in case of photocell failure, the control will give an alarm
- Surge protector(up to 20KV) against voltage fluctuation and lighting strikes.
- "Service+Service"/"Service+Standby" adjustable when double lights used.

Specification:

Operating voltage	DC48V/AC110V-240V	Alarm output	8 channels
Number of light output	Up to 8	Flashing rate	20~60times/mins (Adjustable)
On/off level	70~100Lux	Alarm	NO&NC,Dry contact alarm(adjustable)
Steady burning and flashing mode available			
Operating temperature	-30℃ ~ +70℃	IP Protection	IP65
Relative humidity	0~95%(Non condensing)	Weight	Indoor: 5.5Kg
Material	Cold rolled steel/Stainless steel (optional)		



Mounting dimension(mm)



Photocell

Installation and operation:

• Installation:

Fix the control panel using 4 nos M10 screws on a smooth place where have enough mechanical strength.

• Auto/manual switch:

Set the dip switch to the left side, the control panel is in auto status, in this case, the control panel will switch on/off the light at dawn and dusk automatically; set the dip switch to the middle, the control panel is in manual status, in this case, the aviation light works; set the dip switch to the right side, the control panel is in auto status, in this case, the aviation light is off. Details see follows:

Automatic control



Manual control OFF

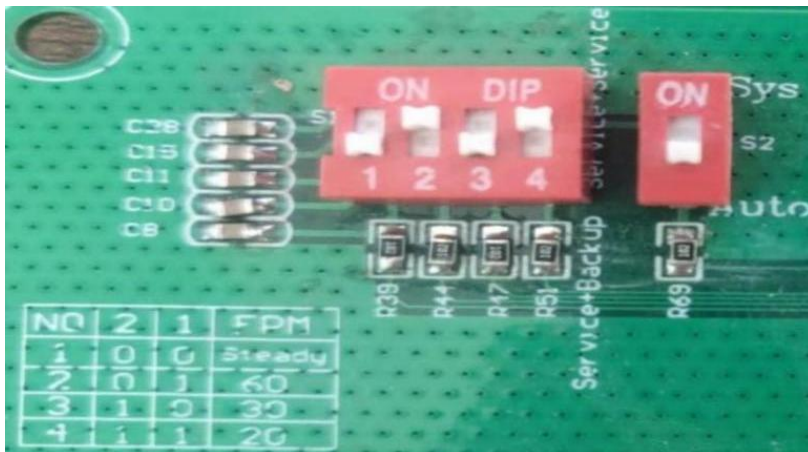


Manual control ON



• Steady burning/flashing mode alternate, and flashing rate setting:

When the 2 dip switch is in on status, the aviation light works, in this case, the other settings, the aviation light flashing and the flashing rate is optional among 20 times/40 times or 60 times. See follows: (FPM = FLASH PER MINUTE)

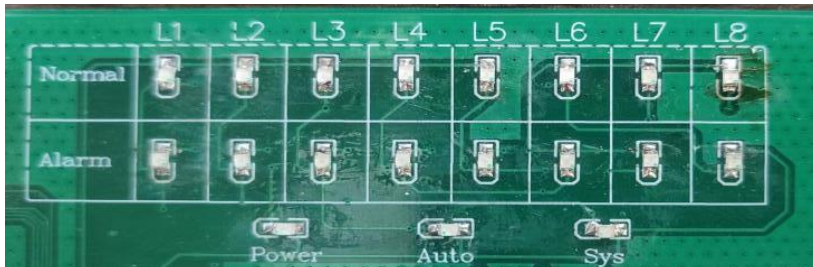


Indicator instruction

- Power on, manual on, and auto on(green), see follows:



- Aviation light ok (green) ; aviation light error(red) , see follows:



- Photocell ok (green) ; Photocell error (red) , see follows:



Notice

- This product is voltage detecting type control panel, when and if the power completely fails, the control panel can give an alarm.
- Please do not open any components inside by yourself.

JB0X Junction Box

Description:

Lansing JB0X series junction box is specially designed for integration of aviation obstruction light. 1 way input and up to 4 ways output, the junction box can connect lights in parallel to one way.

Main functions and features:

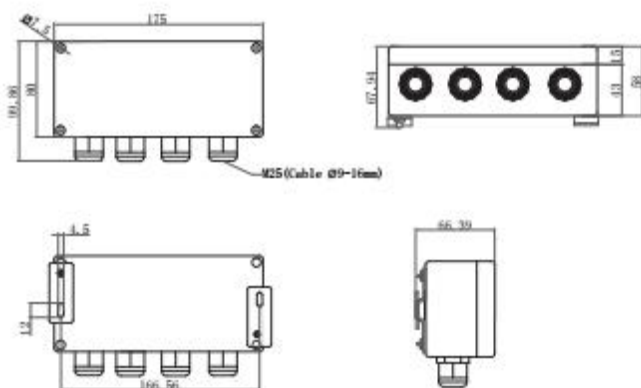
- Aluminum alloy enclosure and epoxy coated provide good weather and corrosion resistance
- Better waterproof with IP68 nylon cable glands
- Lightweight and compact design
- Built-in terminal block and unique PCB board design, no need to jump wires during wiring job
- Built-in earthing terminal

Specification:

Model	JB02	JB03	JB04
Input and output			
Output numbers	2	3	4
Input numbers	1		
Cable gland			
Material	Nylon		
Numbers	3	4	5
Size	M20/M25(for cable diameter. 9-16mm)		
Mechanical Structure			
Enclosure	Aluminum alloy		
Protection	IP65		
Size(cm)	175x100x68		



Mounting dimension (unit: mm)



JB25 Junction Box

Description:

Lansing JB25 series junction box is specially designed for integration of aviation obstruction light. 1 way input and up to 8 ways output, the junction box can connect lights in parallel to one way.

Main functions and features:

- Aluminum alloy enclosure and epoxy coated provide good weather and corrosion resistance
- Better waterproof with IP65 nylon cable glands
- Lightweight and compact design
- All input and output cable entries have UV protected glands (A2 compression gland 1) that are positioned on the bottom most facia of the junction box when installed.
- The junction box has a single DIN rail carrier with 6 mm² terminal blocks for power connections and 2.5 mm² terminal blocks for alarm/signal connections laid out from left to right (as depicted in the figure below):
 - 3 x 6 mm² terminal blocks with bridge piece for positive DC distribution or Live on an AC input.
 - 3 x 6 mm² terminal blocks with bridge piece for negative DC distribution or Neutral on an AC input.
 - 3 x 6 mm² earth terminal blocks DIN rail earthed for bonding connection to earth.
 - 10 x 2.5 mm² terminal blocks bridged as shown below for the RMS alarm input connection.

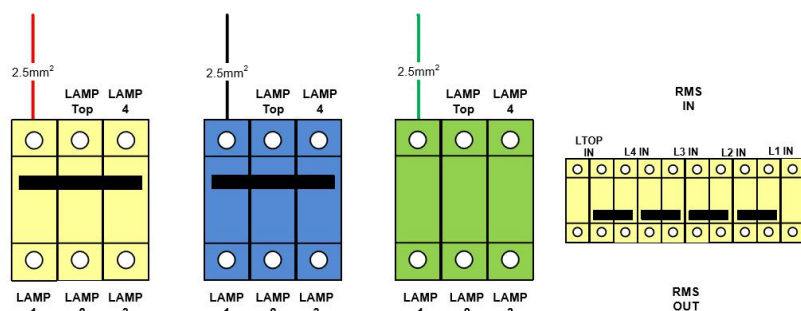


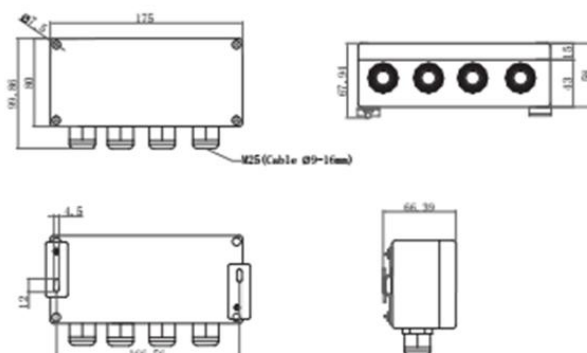
Figure 4: Junction box layout

Specification:

Model	JB22	JB23	JB25
Input and output			
Output numbers	2	3	5
Input numbers	1		
Cable gland			
Material	Nylon		
Numbers	3	4	5
Size	M20/M25(for cable diameter. 9-16mm)		
Mechanical Structure			
Enclosure	Aluminum alloy		
Protection	IP65		
Size(cm)	175x100x68		



Mounting dimension (unit: mm)





Other

- **BZ01 Aircraft Warning Sphere**
- **BZ03 Conductor Marking Lights**

BZ01 Aircraft Warning Sphere

Description:

BZ01 Aircraft warning sphere is designed to provide daytime visual warning or nighttime visual warning if comes with reflective tape, for electricity transmission line and overhead wire for aircraft pilots, especially Cross River high voltage transmission lines. Lansing power line marker ball is made of high-grade Fiberglass Reinforced Plastics (FRP), diameter of 600mm and 800mm are available to meet different customers' needs.

A warning sphere should be of one color such as aviation orange, white and red. Generally, the marking spheres are placed on the highest line. Where there is more than one line at the highest level, white and red, or white and orange spheres should be displayed alternately. This alternating color scheme provides the most conspicuous against all back ground.

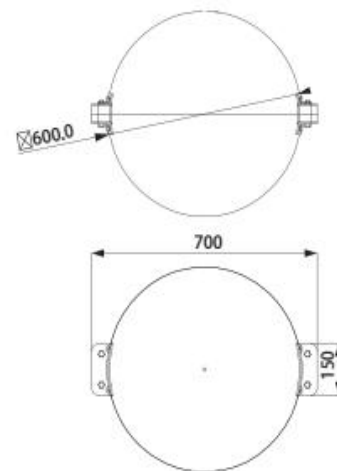
Features:

- Fiberglass Reinforced Polymer durable material with better weather resistant
- Super corrosion resistant character, stainless steel bolts and nuts
- Aluminum alloy cable clamp guarantees good corrosion resistance
- various size of cable clamps are available to fit for customers' cable conductor
- Drain holes structure can prevent accumulated rain water inside the spheres
- Stacking compatible design, save storage space and freight charge
- Optional Preformed Armor Rods provide better protection against vibration and abrasion
- Optional Reflective tape is more durable and economical solution for night visibility
- Both sphere diameters of 600mm and 800mm are available



Specifications:

Operation	
Visible Distance	1200m
Voltage Range	35KV-1000KV
Conductor Diameter	6.5-55mm
Mechanical Structure	
Color	Orange, Red, White, Orange/White, Red/White
Sphere body	FRP(Fiberglass Reinforced Polyester)
Cable Clamp	Aluminum alloy
Bolts/Nuts/Washers	Stainless steel 304
Diameter	• 400mm • 600mm • 800mm
Weight	4.5KG/6.9KG/9.0KG
Thickness	3mm
Drain Holes	Yes
Optional	• Preformed Armor Rods • Reflective Strip
Warranty	2 years



Mounting Dimension

Ordering Code:

Series	Diameter (mm)	Color	Cable Diameter (mm)	Armor Rods	Reflective Strip
BZ01	600	O(Orange)	____.____	AR	RS
	800	R(Red)			
		W(White)			
		O/W(Orange/White)			
		R/W(Red/White)			

For Example, BZ600O13.1AR means a 600mm diameter warning sphere, orange color, with preformed armor rods, suitable for diameter 13.1mm cable conductor.

Note:

For guarantee the spheres can fit for cable conductor well, customers need to provide cable diameter, cable material and code.

FRP aircraft warning sphere

Power line marker for overhead wire

Application:

- Power transmission Line
- Overhead line
- Guyed wire for self-supported guyed tower



Compliance:

- ICAO Annex 14, 4th Edition, July 2004
- FAAAC 70/7460-1K, obstruction Marking and Lighting



BZ03 Conductor Marking Lights

Description:

- Conductor marking lights are a particular type of aircraft warning lights designed for overhead power lines. They are visible at night, unlike overhead wire markers which rely on daylight.
- Conductor marking lights increase night conspicuous of transmission line catenary wires near airports, heliports, across rivers. Lamps mark and light overhead power lines support structures (towers) as well as high voltage transmission line catenary wires. It is one assembly light with multi-LEDs technology. Dedicated to the beaconing of high voltage lines, it is a long life system (100,000 hours). Its compact design and light weight allow the quickest and easiest installation on the market.

Features:

- LED light source adopts CREE lamp beads, which has high luminous efficiency, long life and low energy consumption.
- The lampshade adopts imported anti-UV PC material, which is resistant to high temperature, impact and environmental applicability.
- The frame of the clamp is made of 304 stainless steel. The wire is made of aluminum alloy and the interface is corrugated to prevent pinching of the high voltage wire.
- The lamp body is designed separately from the mounting bracket, and the installation operation is simple and convenient. Maintenance free.
- Suitable for high-voltage wire diameter range, from 15mm-40mm in diameter.

Advantages:

- Multi-LEDs
- Compact design
- Corona Extinction
- Internal Photo sensor
- Easy way for mounting
- Natural stability based on specific nut
- Easy way for bulb replacement
- Light weight
- No maintenance
- 3 years warranty
- Product completely filled with high voltage resin to avoid vibration effects
- Only 1 reference for all line voltage



Warranty Policy

LANSING products are warranted to be free from manufacturing defects in materials and workmanship starting from the date of delivery. The actual warranty period of the product depends on the product category.

Limitation of Liability

The provisions of the warranty are in lieu of any other warranty, whether expressed or implied, written or oral. LANSING's liability arising out of the manufacture, sale, or supplying of the product and its use, whether based on warranty, contract, negligence, product liability, or otherwise, shall not exceed the original cost of the product. In no event shall LANSING be liable for unintended or consequential damages, including, but not limited to, a loss of profits or use damages arising out of the manufacture, sale, or supplying of the product.

Replacement

- Due to the high rate of international air transportation and custom clearance paper works, we may not require customers to return products as long as the customer could provide enough materials of the incorrect product. In that case, LANSING will send out replacement cement product once our QC approved the application.
- Before returning a LANSING product, please provide information like model, quantity, your region, and product photo or situation statement of the product in order to get quicker service. Please contact info@lansinglight.com, or contact with individual sales person.

Warranty Periods

Products Category	Warranty Period
Light & control device	5 Years
Solar panel	10 Years
Rechargeable battery	2 Years
Accessory	1 Years

Note

- Please make sure connect the product according to the wiring diagram on the category.
- For products containing rechargeable battery,LANSING normally give 2 years warranty on the battery unless there is specific stating on the product'
- For products containing solar panel & rechargeable battery, the battery' insufficient level during storage and transit. In this case, please first put the product under sunlight at daytime for several days for battery charging purpose.
- Product warranties remain valid provided the product was properly installed and used. Defects,malfunctions, or failures of the warranted product caused by damage resulting from acts of God (such as floods, fire, etc.), environmental and atmospheric disturbances, other external forces such as power line disturbances, host computer malfunction, plugging the board in under power, or incorrect cabling,and damage caused by misuse, abuse, and unauthorized alteration or repair, are not warranted.
- For large order projects, customers may purchase an extended maintenance contract. Some parts may have a limited warranty from the original supplier of the parts. Please contact LANSING's sales department if you would like to extend the maintenance period of a LANSING product.

Warranty Policy

s category.s power may reduce to

For customers

Thank you for taking the time to read our products!

If you are interested on any LANSING product, please don't hesitate to contact us. Our sales people will come back to you at first time.

For better understanding for the right product you are looking for, or the type of solution you will need, we recommend that you state your situation as much as possible, for example :

- Which industry the product will be applied to, telecom industry, tall building, etc
- Which position the product will be applied to, a 60 meters telecom tower, etc
- Any key functions must be included in the product, relay type alarm output, etc
- Any special industrial regulations that must be followed, Transport Canada rules, Australia CASA rules, etc
- Others like the region you are from, your project budget, your project dead-line, etc

In some region, we have distributor already. In such case, we will forward your request to our distributor. Our distributor can support you better locally.

Any other questions please don't hesitate to contact us, we will be more than happy to assist!

For distributors

LANSING welcome distributors that have expertise knowledge to sell our product. If you are interested on distributing LANSING product in your region, please send email to us for further discussion. You can state your interest, together with background information like:

- Concentrating industry
- Interested areas
- Interested products
- preferred commercial terms, etc