Airsafe

SFLS-LED

LED Sequenced Flashing Lighting System

Compliance with Standards

IEC:TS 61827
ICAO: Annex14, Volume1
ICAO: Doc 9157, Part 4
FAA:E-2628
FAA: EB67
SAC: GB-T 7256
CAAC: AC-137-CA-2015-01-R1
CAAC: AC-137-CA-2015-09

Application/Use

Installed in the runway approach lighting system, it flashes one-way or omnidirectionally from far to near in dynamic rolling mode to indicate the approach course.

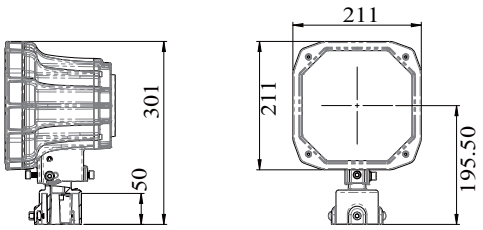
Features

- Light distribution and color comply with the requirements of FAA-E-2628E and consultation announcement of CAAC.
- LED lighting is featured by long working life, energy conversation, maintenance-free, which brings enormous economic benefits to customers.
- Unit control is integrated into light, which has compact structure and more reliable operation.
- Main body of the lighting fixtures is made of aluminum alloy material with anti-corrosion surface treatment, and all fasteners are made of stainless steel, thus being applicable to all kinds of harsh environment.
- The prisms of in-pavement lighting fixtures are made of tempered glass, the surface of which can resist to wind and sand erosion.
- The upper cover of in-pavement lighting fixtures uses equal-strength design and forging process, which has good mechanical properties, strong bearing capacity and impact resistance.
- The overall protection grade of elevated lighting fixtures reaches IP67, and that of in-pavement lighting fixtures reaches IP68 and can withstand the internal pressure of 138kpa or the water pressure formed by the aircraft impact window.
- The main control cabinets and lamp head have CPU, which works independently and collaborative cooperation is achieved through the bus communication.
- Compared with traditional xenon flash, LED flash has low power consumption and high power factor.
- High voltage integrated constant current driver circuit ensures stable current output.
- The cable layout inside the lighting fixtures is simple and compact.
- Unique system reliability design ensures that Fault of any components of the lighting fixtures will not result in system paralysis.
- The system has flash missing detection, times accounting and online detection, etc.
- The LCD panel of the main control cabinet displays, accounts and records the operation state of the system.
- The monitoring system can achieve remote monitoring, operation state upload, and local control.
- The anti-thunder measures are provided for the circuit, power source and communication cable and the anti-thunder class complies with the standard of FAA.
- The elevated lighting fixtures can be connected with 1 inch or 2 inches frangible pipe, easy installation, firm and reliable.
- With precision machining, the forged frangible components comply with the requirements of FAA, which have steady and reliable performance.

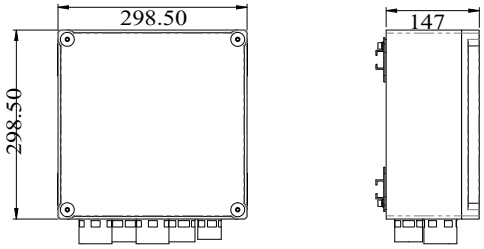
Ordering Information

* Please provide detailed installation info while ordering, parts and accessories should be ordered separately specific with order no.

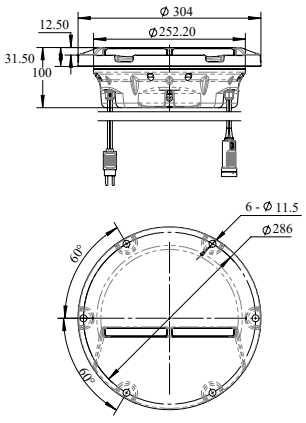
Dimensions



Dimension of Elevated Flashing light



Dimension of the unit wiring box



Dimension of In-pavement Flashing light

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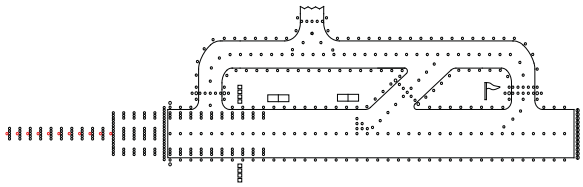

Installation

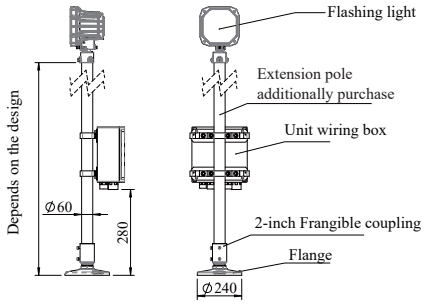

Figure 1-1.
Elevated flashing light with upright pole installation
Unit wiring box with backpack type installation

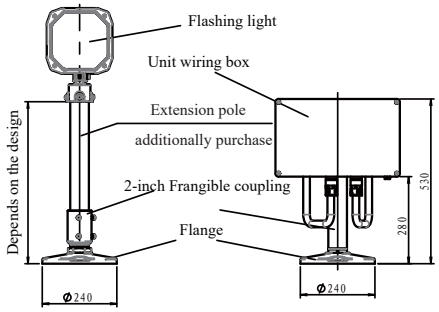

Figure 1-2.
Elevated flash light with upright pole installation
Unit wiring box with supporting pole installation

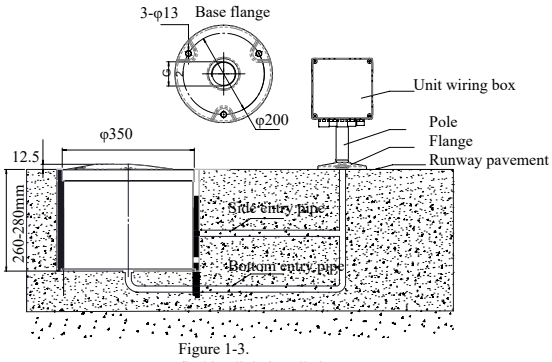

Figure 1-3.
In-pavement flashing light installation

Photometric Data

Name	LED Sequence Flash Light System		LED Runway Threshold Identification Light	
Type	SFLS-LED		RTIL-LED	
Form	Elevated	In-pavement	Elevated	In-pavement
Flash Frequency	2Hz / 1Hz			
Beam Distribution	Horizontal ±15° Vertical 0°-10°	Horizontal ±15° Vertical 2°-12°	Horizontal ±15° Vertical 0°-10°	Horizontal ±15° Vertical 2°-12°
Adjustable Range of Elevation	0°-13°	/	0°-13°	/
Power	44VA	64VA	44VA	64VA
Brightness Level 1	150cd—450cd	150cd—600cd	150cd—450cd	150cd—600cd
Brightness Level 2	300cd—2000cd	300cd—2000cd	300cd—2000cd	300cd—2000cd
Brightness Level 3	3000cd—20000cd	3000cd—20000cd	300cd—20000cd	300cd—20000cd
Flash duration	<5.5ms			
Service Life of Light Source (times)	>10^7			
Ground resistance	≤4Ω			

Spare Parts

Component order

No	Name	Order Number	Description
1	Main control cabinet	979302	Main control cabinet assembly
2	LED Elevated flashing light	66280	
3	LED In-pavement flashing light	66440	
4	Unit wiring box	79308-D	with frangible coupling and flange
5	Frangible coupling	924252	2-inch frangible coupling (sleeve)
6	Flange	FL-10	Flange 240(G2-H35)
7	Shallow base	927402	12-inch base - ISFL

Spare articles order

Component	Spare Articles	Order N0.	Description
Main control cabinet	Touch main control screen	791A7	
	Main control driver	7911W	
Elevated flashing light	Optical cover gasket	41186	Gasket
	LED assembly	979248	LED175×175（with lens）
	Optical cover	31159	Front glass (192×192×C43)
	Light body gasket	41188	O-ring gasket
	Rear cover assembly	924D11	Rear cover LED 140 (with circ
In-pavement flashing light	Prism gasket sleeve	43112	
	Prism	31162	ISFL glass - right
	Prism	31161	ISFL glass - left
	LED light source	7927D	Heat dissipation paste 62.5*33
	Prism gasket	43315	Prism gasket (14°)
	Prism pressing bracket	4642K-01	Prism pressing bracket (14°)
	Inner cover assembly	921441	
	Light body gasket	41135	O-ring gasket 228.72*2.62

Accessories

No.	Order No.	Description
1	FC-02	Frangible coupling (2-inch)
2	954211	Calibrator assembly
3	REC7	Molded secondary cable connector style 7
4	PLG6	Molded secondary cable connector style 6

Packing Data

Packing	Dimension	Gross weight
1×main control cabinet	550 x 550 x 1400 mm3	55 kg
1×in-pavement flashing light	320 x 320 x 150 mm3	9 kg
1×elevated flashing light	262×302×380 mm3	6.5 kg
1×unit wiring box	440 x 350 x 550 mm3	9.5 kg
6× flange	240 x 240 x 180 mm3	8.4 kg
16×frangible coupling joint	340 x 340 x 190 mm3	12.3 kg

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