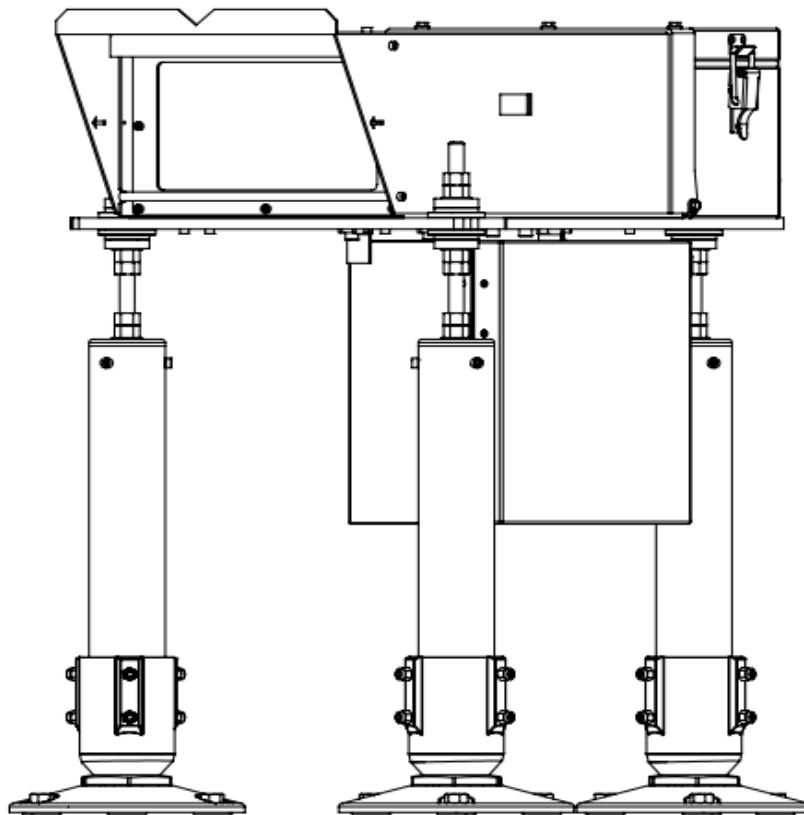


LED AIRFIELD LIGHTING



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Disclaimer/Standard Warranty

All products manufactured by Hangdakang mechanical & electrical technology (Wuhan) co. LTD, hereinafter referred to as HDK, meet the requirements of CAAC, ICAO and IEC. All warranties provided by HDK exclude all cases of gross negligence and handling of all products.

In case of avoidable defects or failure caused by mechanical, electrical or physical defects, the company will provide the necessary spare parts for repair.

The replacement and delivery of spare parts shall meet the requirements of proper storage, installation, and maintenance of the products, and shall submit the spare parts requirements to the Company in writing.

Hangdakang mechanical & electrical technology (Wuhan) co. LTD reserves the right to inspect the avoidable defective or damaged products in its own company facilities.

The obligations of Hangdakang Mechanical & Electrical technology (Wuhan) Co. LTD are limited to the labor cost required for disassembly and assembly of the product and the delivery of the corresponding products.

Hangdakang Mechanical & Electrical technology (Wuhan) co. LTD assumes no liability for injury or damage resulting from any incorrect use of the equipment. All products and their equipment are explicitly designed for their intended use only. Any other use outside the scope of the instructions is considered incorrect and excluded from the warranty.

Included are:

- ✓ Use HDK products outside of their intended operating use.
- ✓ Any changes or modifications to products that are not explicitly approved.
- ✓ Use of unauthorized, incompatible or unapproved tools by HDK or local regulations.

Local regulations on labour safety must always be followed in addition to those of HDK.

HDK reserves the right of interpretation within the scope permitted by law.

1. Safety

Airfield Ground Lighting is installed in high voltage series circuits, where the primary voltage is usually from several hundred to thousand volts and can be fatal if operated improperly. International or national standards referring to the electrical safety and safety of electrical operations should be strictly implemented during the operation and at any stage where powered lighting products are handled or maintained. Correct safety code must be followed during any operation in lighting circuit On and Off state conditions.

Pay attention to all safety instructions in this user manual. Negligence in following safety practices and instructions can result in serious injury, accident, or death. Safety instructions are categorized following the IEC standard and accompanied by an icon accordingly. Safety instructions and icons are listed and explained below:

**DANGER:**

Risk of electrical shock or flashover. Before any operations disconnect the equipment from line voltage, never connect or disconnect live circuits. Failure to observe "Danger" may result in severe injury, death, or equipment damage.

**WARNING:**

Failure to observe "Warning" may result in personal injury, death or equipment damage.

**CAUTION:**

Ignoring or violating "Caution" may cause damage to equipment.

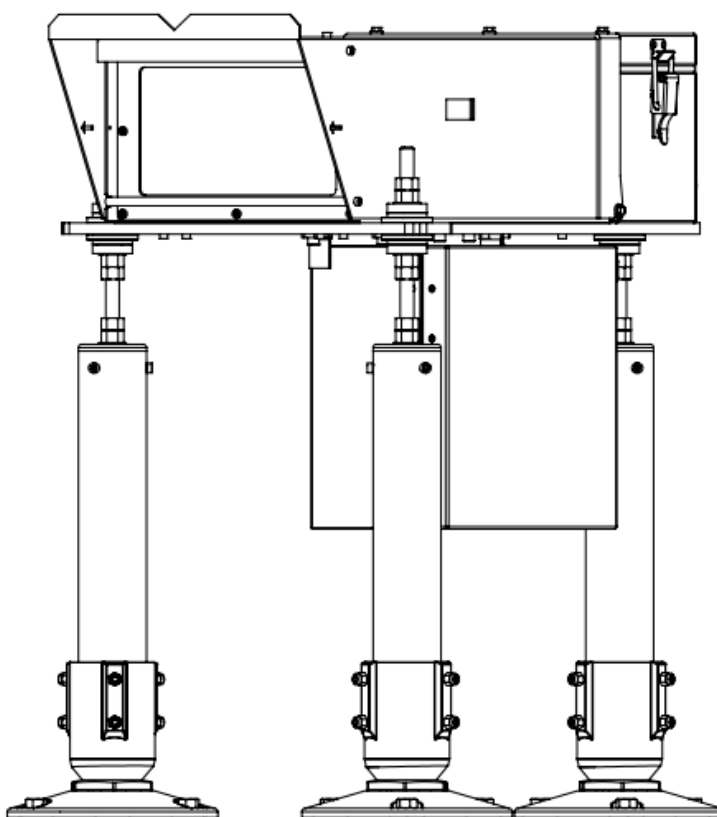
**Note:**

Explanations and supplements to some of the text description.

2. Introduction

The Precision Approach Path Indicator produced by HDK adopts a single channel structure design, with three adjustable mounting legs to ensure the elevation Angle of beam can be easily adjusted. It has advantages of strong durable structure , compact size, and simple replacement of light source. The product is designed to meet the requirements and guidelines of ICAO, FAA, IEC and CAAC.

Figure 1 - Precision Approach Path Indicator



2.1. Models & Variants

This manual presents essential information for handling, installation and maintenance operations of the precision approach path indicator. The series can be divided into different models according to the number of luminous units and power supply type of the system. All models are shown in Table 1:

Table 1 – List of the Light Series

Application	Model	Power supply/ units	CAAC Type	ICAO Type	FAA Type
PAPI	ELG-PAPI-V	Constant voltage power supply / 4	L-880A	A2-23	L-880 Style A
PAPI	ELG-PAPI-C	Constant current power supply / 4	L-880B	A2-23	L-880 Style B
APAPI	ELG-APAPI-V	Constant voltage power supply / 2	L-881A	A2-23	L-881 Style A
APAPI	ELG-APAPI-C	Constant current power supply / 2	L-881B	A2-23	L-881 Style B

2.2. Product Features

The series of lights use a high precision optical system, the red and white light boundary is straight and clear. Built-in high precision electronic inclinometer with resolution up to 0.01°.

The entire light includes: light Chamber, light source system, control module, tilt angle display module, adjustable mounting legs and so on. The front cover is made of high-strength scratch-proof glass, all fasteners are made of type 316 stainless steel having a superior corrosion resistance and the silicone rubber sealing has an outstanding resistance against temperatures and aging.

The light source is imported halogen lamp of original brand, and fixed by snap mounting, which is easily replaced without any tools. It can be used on existing AC series circuits. Equipped with corresponding power isolation transformer, it can carry out dimming control of 5 light intensity levels..

The light fixture is fitted with secondary cables and an L-823 electrical connection plug-in which meets the FAA standards.

The light portfolio complies with the following standards and regulations:

- MH5001 Technical Standards for airfield area of civil airports
- CAAC AC-137-CA-2015-07 Technical requirements for Precision Approach Path Indicator
- ICAO Annex 14, Volume 1 and Airport Design Manual Part 4
- EASA CS-ADR-DSN Issue 6 Certification Specifications and Guidance Material for Aerodromes Design
- FAA AC150/5345-28H Precision Approach Path Indicator (PAPI) Systems
- IEC TS 61 827 Electrical installations for lighting and beaconing of aerodromes – Characteristics of inset and elevated luminaires used on aerodromes and heliports

2.3. Electrical Properties

Input Cable

- FAA L823 Class A, Type II, Style 1 ; 3 or 4 plugs

Input Current

- 2.8A-6.6A_{eff AC}

Sinusoidal CCR

- $I_{\text{peak max}} = 9.88\text{A}$

Thyristor CCR

- $I_{\text{peak max}} = 12.60\text{A}$, $j_{\text{min}} = 45^\circ$

Inclinometer

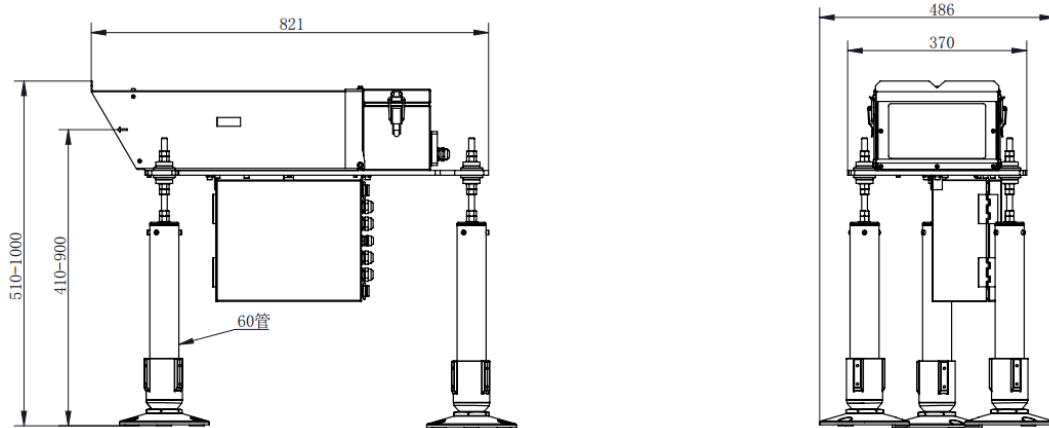
- Range : $-9.99^\circ \sim +10.00^\circ$, Resolution: 0.01° , Precision: $\pm 0.02^\circ$

Table 2 - Rated Power of Light Fixture

Application	Model	Rated power
PAPI Single light emitting unit	ELG-PAPI	100W×3
PAPI master control light emitting unit	ELG-PAPI	100W×3+100W
APAPI Single light emitting unit	ELG-APAPI	100W×3
APAPI master control light emitting unit	ELG-APAPI	100W×3+100W

2.4. Mechanical Properties

Figure 2 – Major Dimensions of the Light Fixture



Degree of Protection

- IP65 (IEC60598-1)

Operating Temperature

- -55°C ~ +55°C

Storage Temperature

- -55°C ~ +85°C

Weight

- Net Weight: 27 kg
- Gross Weight: 40kg

Package Dimensions

- 1100mmx550mmx500mm;

2.5. Main Components

HDK Halogen Precision Approach Path Indicator light is equipped with the following main components:

Light Chamber

- Light fixture cover
- Light chamber plate
- Silicone rubber sealing

Optical Component

- Halogen bulbs with a reflective bowl
- Color filter module
- Lens module

Electronic Module

- Inclinometer detection module
- Control board
- Power board

Electric Box

- Stainless steel box- spray anti-corrosive treatment
- Power cord- Plug: FAA L-823, Secondary cable: FAA150/5345-26D standard
- Power cord sealing head

Light Support Module

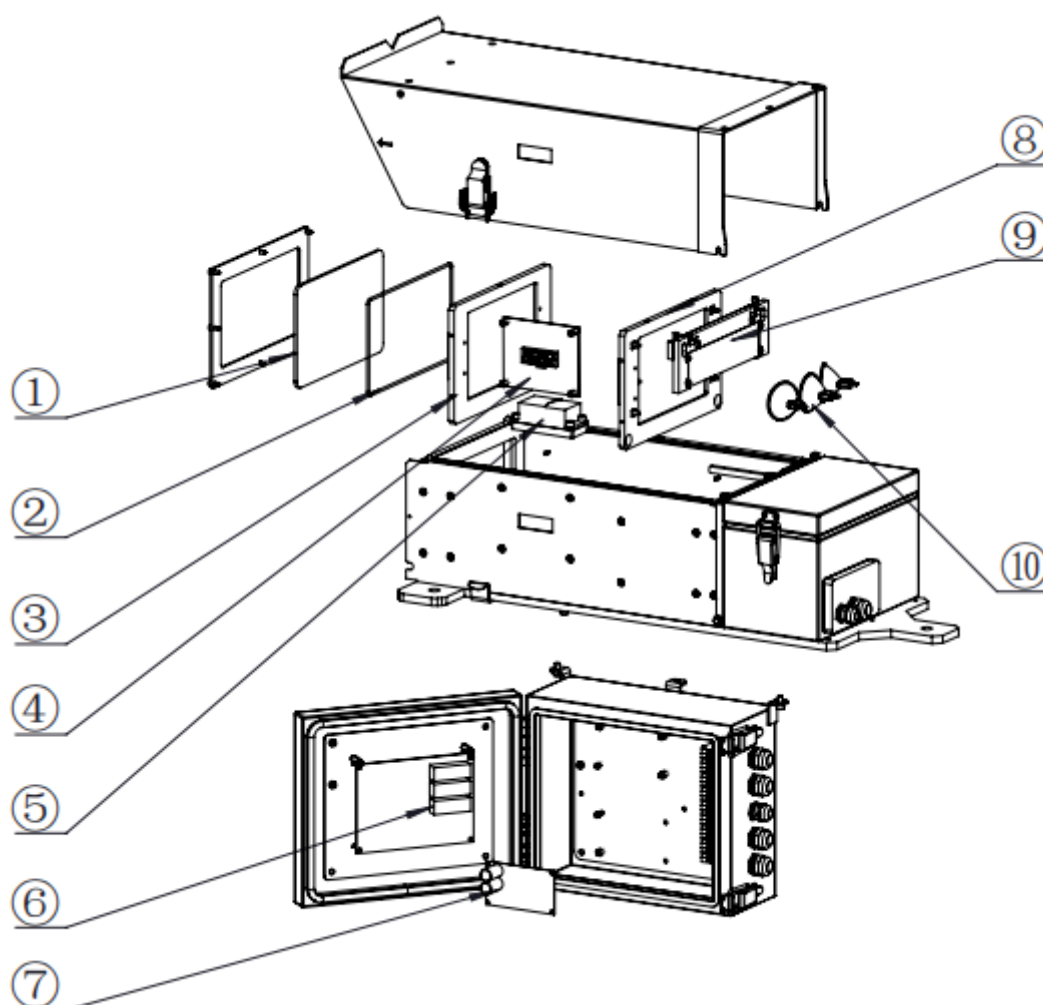
- Flange
- Breakable coupling

- Height adjusting parts

Others

- stainless steel buckle
- Fastener - Anti-corrosion 316 stainless steel

Figure 3 – Exploded View of the Light Structure



1 Front protective glass

2 Sealed Strip

3 Front lens module

4 Tilt angle display

5 Inclinator

6 Control board

7 Power Board

8 Rear lens module

9 color filter

10 Halogen bulbs with a
reflective bowl

2.6. Nameplate

Precision Approach Path Indicator

Model: ELG-PAPI-C

Type: 5.3.5 A2-23 (ICAO)

L-880 Style B (FAA) U-26(EASA)

Input: AC 2.8A-6.6A

Color: White/Red

Power: 100W*3

SN: 4HJ1009

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3. Installation

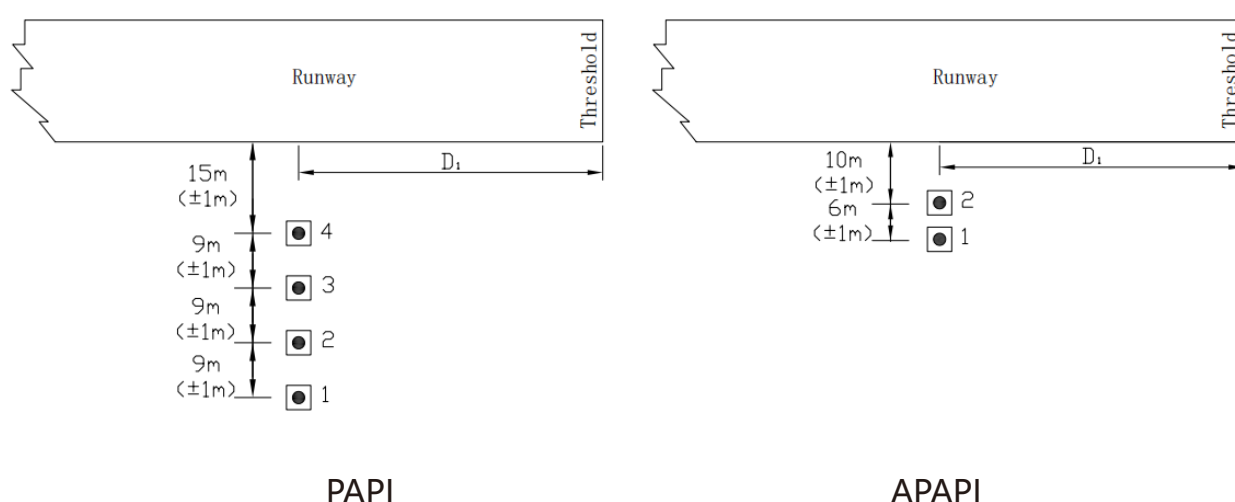


WARNING: Before any operations, make sure that circuit is disconnected from the voltage supply, switch off the Constant Current Regulator to power off the circuit and never connect or disconnect live circuits.

The PAPI or APAPI system should be installed on the left side of the runway looking from the pilot on approach, but on the right side of the runway when it is not practicable. The PAPI system consists of four lights, while the APAPI system includes two lights. The projection of the optical axis of each light on the horizontal plane should be parallel to the center line of the runway and toward the approaching aircraft. The distance between PAPI and the runway threshold (D_1) is determined by the largest aircraft that can take off and land on the runway, the height of aircraft wheels above the threshold, possible obstacles in the approach area, and the cooperation with ILS instrument landing system.

Refer to ICAO 《Airport Design Manual》 Part IV, Chapter 8.4 for more details on calculations.

Figure 4 – Position of the PAPI System



The light is mounted on three legs, and each consisting of a flange base, a breakable coupling and an aluminum tube, the length of which is determined at site installation. The final length of the aluminum tube depends on the required height

of each PAPI light unit, and the height of the light unit is based on the ground installation conditions on site, etc. The center of each PAPI unit light body has a reference point that can be used to determine that all units are at the same horizontal height. Note that PAPI units should be installed as low as possible.

The standard size of aluminum tube is 60mm in diameter and 360mm in length.

3.1. Tools Required

Following tools and materials are recommended for installation:

- Open-end Wrench: 10mm/18mm/55mm
- Allen wrench: Metric 5
- Small flat-head screwdriver
- Cable seam sealing material and insulating tape
- Impact electric drill and accessories
- Clean cloth
- Gradienter

3.2. Unpacking Unit

Please carefully check whether the package is in good condition. If the product or accessories are damaged during delivery, demand compensation from the carrier immediately.

Upon receipt of delivery, please confirm and check that the information in the delivery documents is inline with the project requirements and construction design. Check that quantity, type, specification, color and other characteristics of the light fixtures are consistent with the actual delivery. If you have any doubts, please contact the supplier as soon as possible.

CAUTION: The packaging of this product can be used for various purposes such as future maintenance, uninstallation and transportation of the light fixture. Please keep the product packaging properly after receiving the cargo.



3.3. Installation

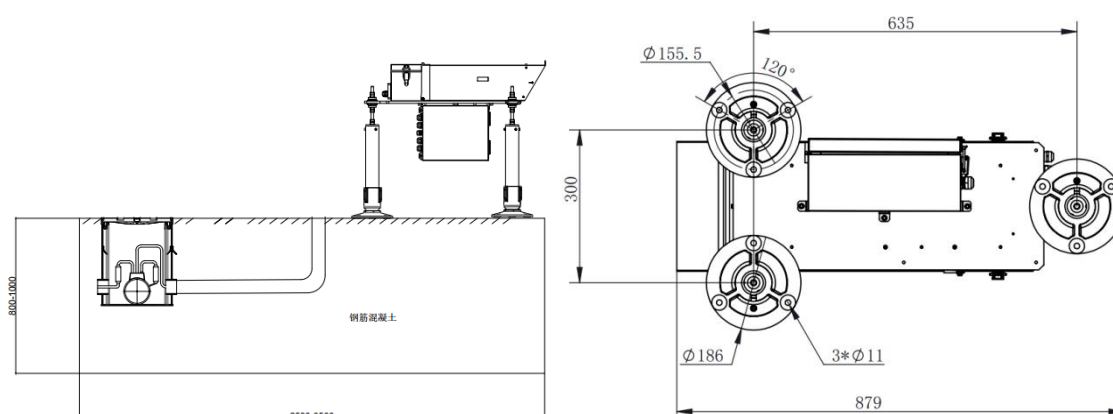
A concrete base is required for each light fixture and dimensions are suggested as shown in Figure 5/6.

3 sets of 3 bolts with M10 threads (1 set for each flange) shall be prefabricated in the concrete base before hardened. Another method is using expansion bolts. Embedded elbow pipes are recommended to use in concrete base for secondary circuit wiring.

Note: Before installation, confirm the following:

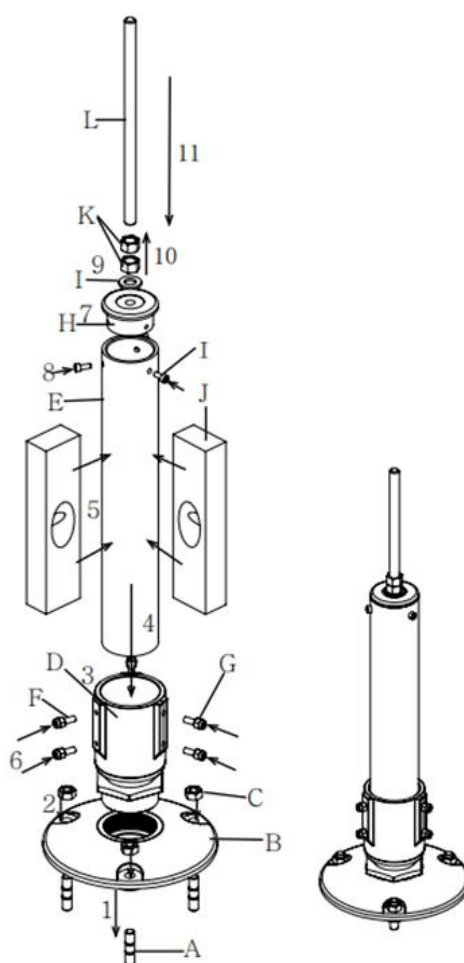
- (1) Verify that the Angle of the chassis conforms to the design requirements and construction specifications;
- (2) Confirm that the breakable couplings meet the lighting installation requirements;

Figure 5/6 – Installation on the light fixture base



3.4. Installation of Mounting Legs

Figure 7 – Assembling & Disassembling of Mounting Legs



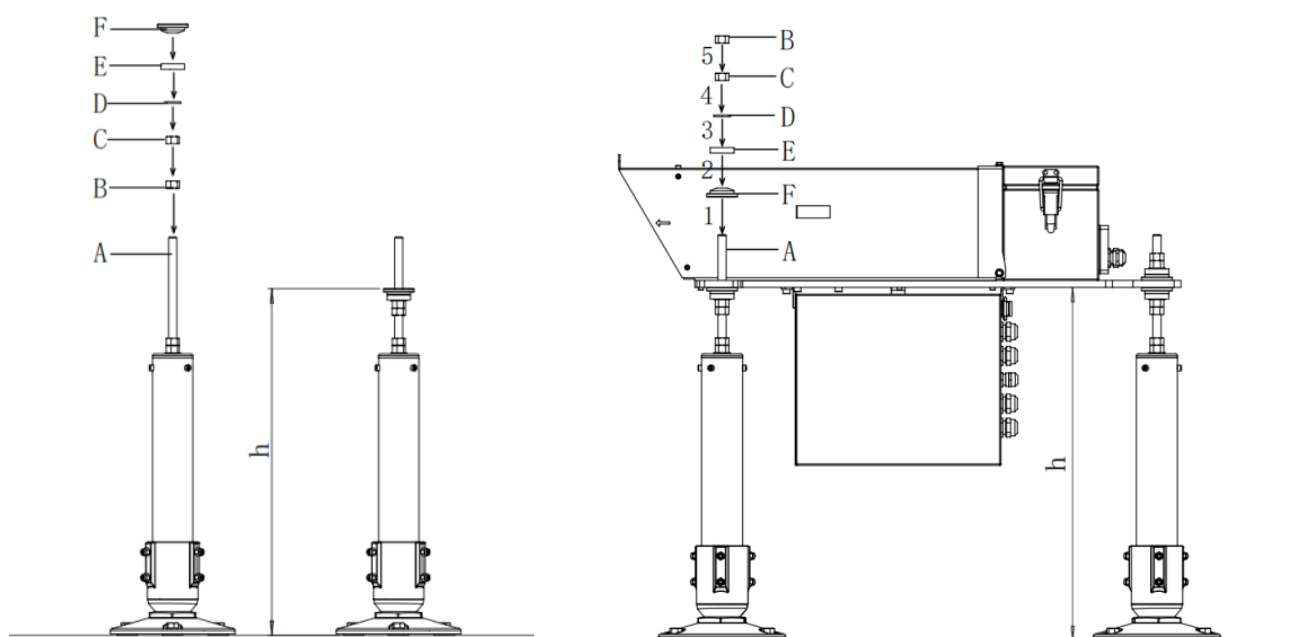
Steps for Mounting legs installation:

- a) Install flange B on prefabricated bolt A;
- b) Tighten the three M10 nuts C on the prefabricated bolt A with a 10mm wrench to fix flange B;
- c) Fix the breakable coupling D to flange B with an 55mm open wrench.
- d) Install the aluminum tube E on the breakable coupling D (the length of the aluminum tube should be cut in accordance with the required height). The maximum distance of screw L adjustment is 55mm;
- e) Using a level J and a 10mm wrench, adjust the 6 fastening screws F to adjust the verticality and fixation so that the aluminum tube E is vertically installed in the breakable coupling D.
- f) Tighten the 6 locking nuts G with a No.5 inner hexagon wrench;
- g) Install threaded head H on aluminum tube E and fix it with 3 fastening bolts I;
- h) Two locking nuts K and gasket I are installed on the screw L;

- i) Screw the screw L into the threaded head H, at least 25mm;
- j) Tighten the lock nut K when the screw L is properly screwed in;
- k) Other Mounting legs are installed in the same way

3.5. Light Fixture Installed On Mounting Legs

Figure 8/9 – Light Fixture Installed On Mounting Legs



Steps for installation on mounting legs:

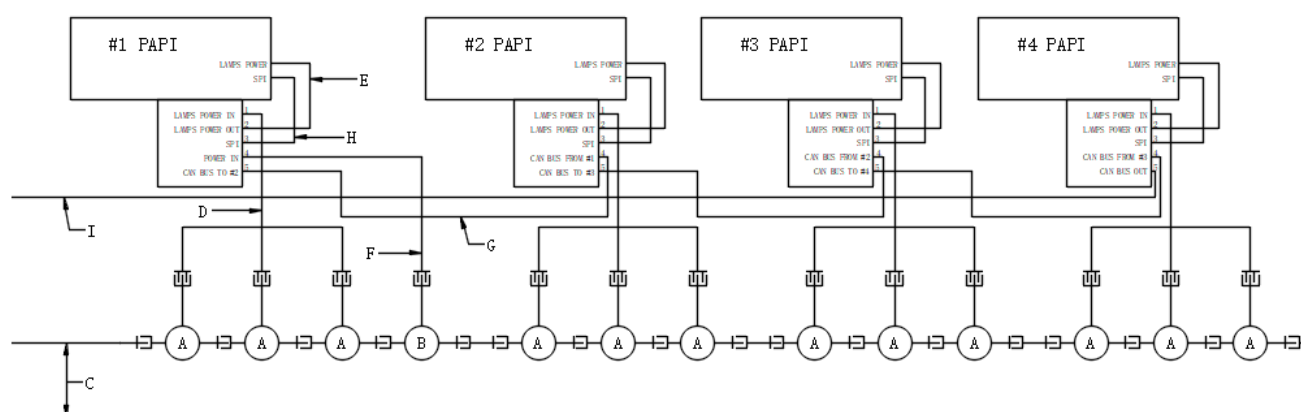
- a) Install nut B to screw A;
- b) Install fastening nut C to screw A as well;
- c) Place the bottom washer D on the screw A;
- d) Attach bottom connector-bend E to screw A;
- e) Attach bottom connector-bend F to screw A;
- f) Install the light chamber on the mounting legs;
- g) Connect upper connector-bend F to the screw A;
- h) Attach upper connector-bend E to screw A;
- i) Place upper washer D on screw A;
- j) Attach fastening nut C to screw A;
- k) Attach fastening nut B to screw A as well;
- l) Adjust the nuts to the height required for light fixture.

3.6. Circuit Connection of Light Fixture

WARNING: Before starting circuit connection of the light fixture, confirm that the primary circuit of the light is disconnected, i.e. turn off the power supply of CCR.



Figure 10 – Cable Connections Between Light Units



A. Isolation Transformer 100W

B. Isolation Transformer 100W

C. Primary Cable

D. Light Source Cable - 6*2.5mm²

E. Light Source Cable - 6*2.5mm²

F. Secondary Cable - 2*2.5mm²

G. Communication cable - 2*2*2.5mm² Shielded twisted pair

H. Inclinometer Cable - 5*1mm²

I. Alarm feedback cable - 2*2*2.5mm² Shielded twisted pair

Cables of the #1 light electric box from top to bottom are:

1. Light source power input (connected to 100W×3 isolation transformer)
2. Light source power output (connected to light source of light fixture)
3. Serial peripheral interface (connected to Inclinometer panel of light fixture)
4. Input power (connected to 100W isolation transformer)
5. CAN Bus to #2 (connected to #2 light unit)

Cables of the #2 light electric box from top to bottom are:

1. Light source power input (connected to 100W×3 isolation transformer)
2. Light source power output (connected to light source of light fixture)
3. Serial peripheral interface (connected to Inclinator panel of light fixture)
4. CAN Bus to #1 (connected to #1 light unit)
5. CAN Bus to #3 (connected to #3 light unit)

Cables of the #3 light electric box from top to bottom are:

1. Light source power input (connected to 100W×3 isolation transformer)
2. Light source power output (connected to light source of light fixture)
3. Serial peripheral interface (connected to Inclinator panel of light fixture)
4. CAN Bus to #2 (connected to #2 light unit)
5. CAN Bus to #4 (connected to #4 light unit)

Cables of the #4 light electric box from top to bottom are:

1. Light source power input (connected to 100W×3 isolation transformer)
2. Light source power output (connected to light source of light fixture)
3. Serial peripheral interface (connected to Inclinator panel of light fixture)
4. CAN Bus to #3 (connected to #3 light unit)
5. CAN Bus output

Table 3 - Description of Wiring Terminals of #1 Light Electric Box

Terminal serial number	Function	Description	Color	Cable export number
1	TX1 IN	Transformer1 N	Red	1
2	TX1 OUT	Transformer1 L	Black	
3	LAMP1 IN	To Lamp1 N	Red	2
4	LAMP1 OUT	To Lamp1 L	Black	
5	TX2 IN	Transformer2 N	Yellow	1
6	TX2 OUT	Transformer2 L	Green	
7	LAMP2 IN	To Lamp2 N	Yellow	2
8	LAMP2 OUT	To Lamp2 L	Green	
9	TX3 IN	Transformer3 N	Blue	1
10	TX3 OUT	Transformer3 L	White	
11	LAMP3 IN	To Lamp3 N	Blue	2
12	LAMP3 OUT	To Lamp3 L	White	
13	SPI SCK	Display board interface signal	Yellow	3
14	SPI MISO		White	
15	SPI MISI		Blue	
16	GND		Black	
17	ISOLATED +12V		Red	
18	—	—	—	—
19	15V	15V +	Red	5
20	—	—	—	—
21	15VGND	15V GND	Black	5
22	CANL OUT	CANL OUT	White	5
23	CANH OUT	CANH OUT	Blue	5
24	TX4 IN	Transformer4 N	Brown	4
25	TX4 OUT	Transformer4 L	Blue	

Table 4 - Description of Wiring Terminals of #2/#3 Light Electric Box

Terminal serial number	Function	Description	Color	Cable export number
1	TX1 IN	Transformer1 N	Red	1

Halogen Precision Approach Path Indicator User's Manual

2	TX1 OUT	Transformer1 L	Black	
3	LAMP1 IN	To Lamp1 N	Red	2
4	LAMP1 OUT	To Lamp1 L	Black	
5	TX2 IN	Transformer2 N	Yellow	1
6	TX2 OUT	Transformer2 L	Green	
7	LAMP2 IN	To Lamp2 N	Yellow	2
8	LAMP2 OUT	To Lamp2 L	Green	
9	TX3 IN	Transformer3 N	Blue	1
10	TX3 OUT	Transformer3 L	White	
11	LAMP3 IN	To Lamp3 N	Blue	2
12	LAMP3 OUT	To Lamp3 L	White	
13	SPI SCK	Display board interface signal	Yellow	3
14	SPI MISO		White	
15	SPI MISI		Blue	
16	GND		Black	
17	ISOLATED +12V		Red	
18	15V (Short)	15V IN	Red	4
19		15V OUT	Red	5
20	15VGND (Short)	15V GND IN	Black	4
21		15V GND OUT	Black	5
22	CAN L (Short)	CANL IN	White	4
23		CANL OUT	White	5
24	CAN H (Short)	CANH IN	Blue	4
25		CANH OUT	Blue	5

Table 5 - Description of Wiring Terminals of #4 Light Electric Box

Terminal serial number	Function	Description	Color	Cable export number
1	TX1 IN	Transformer1 N	Red	1
2	TX1 OUT	Transformer1 L	Black	
3	LAMP1 IN	To Lamp1 N	Red	2
4	LAMP1 OUT	To Lamp1 L	Black	
5	TX2 IN	Transformer2 N	Yellow	1
6	TX2 OUT	Transformer2 L	Green	
7	LAMP2 IN	To Lamp2 N	Yellow	2
8	LAMP2 OUT	To Lamp2 L	Green	
9	TX3 IN	Transformer3 N	Blue	1
10	TX3 OUT	Transformer3 L	White	
11	LAMP3 IN	To Lamp3 N	Blue	2

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12	LAMP3 OUT	To Lamp3 L	White	
13	SPI SCK	Display board interface signal	Yellow	3
14	SPI MISO		White	
15	SPI MISI		Blue	
16	GND		Black	
17	ISOLATED +12V		Red	
18	15V	15V IN	Red	4
19	15VGND	15V GND IN	Black	
20	CAN L	CANL IN	White	
21	CAN H	CANH IN	Blue	
22	485A	485A OUT		5
23	485B	485B OUT		

3.7 Adjustment of horizontal and pitch angle

Please refer to Chapter 4 in this manual to perform following steps:

- A) Loosen the upper & bottom connector-bend parts on the three mounting legs.
- B) After turning on the power supply, turn the code switch of the light fixture controlling board 1-4 bits to the "ON" position (See 4.1). At this time, the light fixture will display 5 seconds pitch angle value and 2 seconds "111". Pressing the horizontal/pitch switch on the controlling board, the horizontal angle value will be displayed. (See 4.3)
- C) Adjust the upper & bottom connector-bend parts on the left front leg to make the horizontal angle value become zero. Pressing the horizontal/pitch switch on the controlling board, $0.00^{\circ} \pm 0.02^{\circ}$ will be displayed.
- D) Tighten the upper & bottom connector-bend parts at the same time.
- E) The pitch angle is set by adjusting the upper and bottom connector-bend parts of the back leg
- F) After adjusting the horizontal and pitch angle, tighten the hexagon nuts above and below the connector-bend parts on the mounting leg.

3.8 Save pitch angle settings

- A) According to the pitch Angle requirements of PAPI lighting units at the airport, adjust the pitch angle to the required angle. After all adjustments are completed, turn the dip switch No.1 on the controlling board to the "OFF" position and wait for at least 30 seconds, at which time the LED will display the 5-second pitch Angle value and

2-second "-111" in turn. The current pitch Angle is stored in memory. When the pitch Angle exceeds this set point of $+0.75^{\circ}$ or -0.35° , the light fixture system will be extinguished.

B) Repeat the above procedure for each light fixture unit

4. Operation

4.1. Light Unit Mode and Address Setting

The ID and mode of the control board are set according to the different needs of the position and debugging content. Dip switch position shows in Figure 11.

Figure 11 – Dip Switch

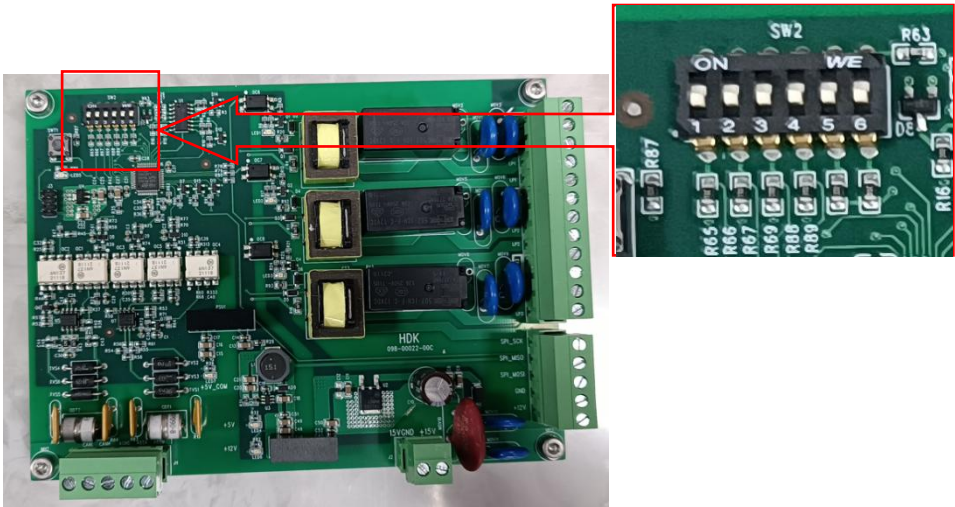


Table 6 The functions of the 1 to 4 bit DIP switch.

Table 6 1 to 4 Bit DIP Switch Functions

DIP			Default
Switch	"ON"	"OFF"	Value
SW2-1	Disable "Inclination	Enable "Inclination	ON

	Angle Failure" alarm	Angle Failure" alarm	
SW2-2	Disable "Communication Failure" alarm	Enable "Communication Failure" alarm	ON
SW2-3	Disable "Local Light Source Failure" alarm	Enable "Local Light Source Failure" alarm	ON
SW2-4	Disable "Remote Failure" alarm	Enable "Remote Failure" alarm	ON

Setting DIP Switch Address Bit see table 7.

Table 7 - Setting of DIP Switch Address Bit

Light Unit	SW2-5	SW2-6
#1	OFF	OFF
#2	OFF	ON
#3	ON	OFF
#4	ON	ON

4.2. LED Digital Tube Display

The LED digital tubes on the display board will display angle information or light status in working conditions.

- The value of the angle displayed by the LED ranges from -9.99° to 10.00° . When the pitch angle is between -9.99° and -1.00° , the LED display 5 seconds angle value and 2 seconds error code "Er: 05" in turn.

- The LED displays a step value of 0.01°.
- The angle accuracy of LED display is $\pm 0.02^\circ$.

Figure 12 - LED Display

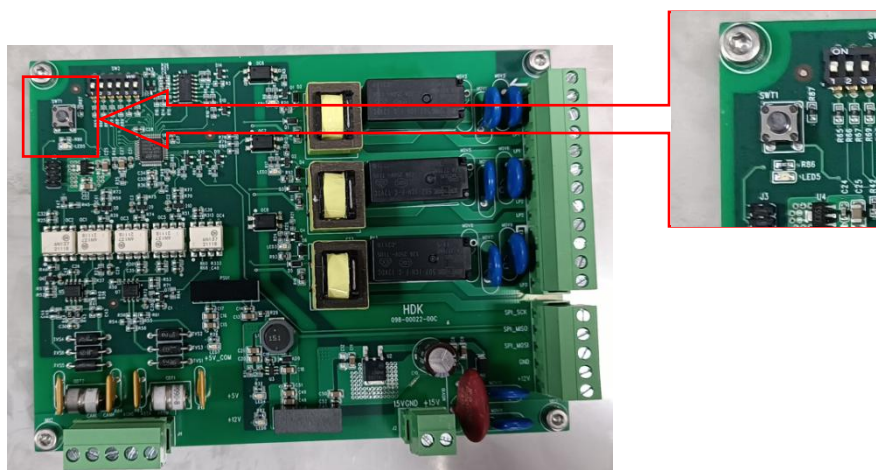


4.3. Horizontal/pitch switch on the controlling board

Holding the Horizontal/pitch button on the control PCB will display the horizontal angle of the light.

Release the Horizontal/pitch button on the control PCB will display the pitch angle.

Figure 13 - Horizontal/Pitch Angle Button



5. Maintenance

5.1. Basic Maintenance Program

Suggested basic maintenance program is presented in table 8. The program follows requirements and regulations of CCAR-1 40-R1 , AP-1 40-CA-2009-1 , ICAO, Airport Services Manual Part 9, Airport Maintenance Practice and FAAAC 1 50/5340-26A, Maintenance of airport visual aids facilities.

Table 8 - Basic Maintenance Program of PAPI System

Maintenance Frequency	Maintenance Task
Daily	Check if the light is emitted/illuminated.
Monthly	Check if there is any damage to the light fixture body.
	Clean the dust and dirt on the light fixture surface.
	Check the fixing condition and the bolt torque of the light fixture.
Annual/Biennial	Check the Mounting Legs
	Clean the optical component (If necessary).
	Clean breathable filter cotton inside the light fixture(can be replaced if necessary)

5.2. Maintenance Procedures

Following maintenance procedures can be performed on the installed Light Fixtures:

Table 9 - Maintenance Items for Light

Maintenance Task	Method/Steps
Check if the light is emitted/illuminated.	Visual inspection
Check if there is any damage on the cover	Visual inspection
Clean the dust and dirt on the light fixture surface	Use a clean cloth or brush
Check the fixing condition	Visual inspection
Check the bolt torque	Using torque wrench to confirm the torque

CAUTION:  When cleaning the dirt on the surface of the light fixture, do not use a cloth covered with dirt and sand, or a hard brush to rub the surface of the transparent front cover to avoid scratching the transparent front cover (as it may reduce the luminous performance of the light fixture). A clean soft cloth should be used to gently wipe the glass surface. Optical lens cleaner can be used if necessary.

When elevated light fixtures are not in use, please avoid outdoor storage. They should be stored in a dry and clean indoor environment. Also, keep the storage temperature in accordance with the requirements.

5.3. Trouble Shooting

Table 10 - Trouble Shooting

Error Code	Problems	Solutions
Er: 01	Local inclination angle failure	Inclination Angle beyond the threshold range of a preset value, check the preset value, or reconfigure the preset value
Er: 02	The local CAN communication fails	Check whether the local CAN wire is connected properly.
Er: 03	Failure of 2 or more local bulbs	Check that the bulb circuit is connected properly. Whether the halogen bulbs fails
Er: 05	Local inclination angle is less than -1°	The actual tilt angle range of the light is 2°~8°. Check whether the light angle needs to be adjusted
Er: 06	The communication between the local control board and digital display board fails	Check whether the 5pin terminal between the control board and digital display board is connected properly .
Er: 07	Local inclinometer communication failure	Check whether the 4pin terminal between the digital display board and the

		inclinometer is connected properly .
Er: 08	Failure of 1 local bulb	Check that the bulb circuit is connected properly. Whether the halogen bulbs fails
Er: 1x	Remote light failure, Light number x	Check remote lights, Light number x
Er: 2x	Remote light CAN communication failure, Light number x	Check CAN wire of the remote lights is connected properly, Light number x

6. Support

6.1. Customer Service

If you need after-sales service, please contact us through the after-sales service hotline or sales consultant.

After-sales service hotline

China: +86-27-63498449

Please prepare the following information in advance in order to get the service quickly:

- Product name and serial number
- Airport code or company name
- Your phone and email address

6.2. Recycling

Improper disposal of scrapped electronic equipment may have a negative impact on the environment and human health. Regarding the recycling of electronic products, please follow the local laws and regulations.

6.3. About HDK

Handakang Electrical & Mechanical Technology Corp. Ltd., established in 2003 in Wuhan/China is an already professional known provider of Airfield Lighting, Navigation Aids, Frangible Mast Systems and Heavy Duty Support Equipment. In 2017 HDK started to create a new LED Airfield Lighting Portfolio supported by known capacities from Europe, to become the supplier for Airfield Customers in China, Asia, Europe and all over the World for reliable, efficient and innovative Airfield Lighting Products at highest quality.

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