

diagram (unit: mm)

**Description:**

ZS120 Wind cone is used for indicating final approach and taking off wind direction. According to ICAO requirement, every helipad field must have at least one wind cone.

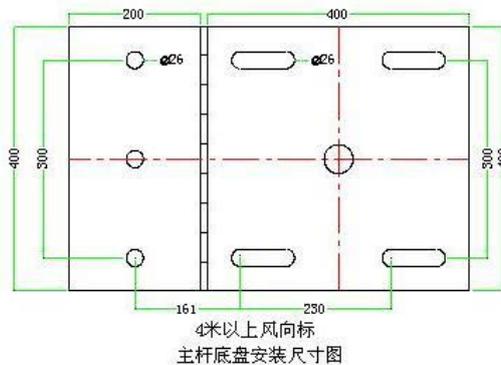
Installation position must be not interfered by around object and airflow formed by helipad wing and make pilot recognize wind cone at 200 meters away. ZS120 illumination wind cone is one sign for all kinds of airports and helipad fields and can work all day. Product standard is compliance with requirement FAA, AC150/5345-27C,L-806 of U.S. Federal Aviation Administration (FAA), Appendix 14-Airport of International Civil Aviation Organization (ICAO) and the specifications in Part Four of Airport Design drafted by ICAO.

**Features:**

- Compliance to FAA and ICAO standard
- Use oil bearing as a centre of rotation, and seal the oil bearing into the stainless steel tube, which make sure the wind cone to work normally under bad environment.
- Stainless steel tube can rotate at 360 degree freely.
- Dis-mountable windsock and support pole, convenient for transportation and storage.
- Dismantling: a dismantling device on the top of the base, to prevent the damage to the aircraft in case of accident hit to the aircraft.
- Toppling structure design, easy to maintain
- Height of wind cone: 1.5meters,2.5meters,3.5meters,4meters,5meters,6meters,7meters,etc
- Bearing assembly with a sealing cover, rotating freely and can show wind direction in real time
- Operating voltage:AC220V,50/60 Hz(Option voltage,eg.AC120V,DC48V)
- Three kind of wind sock:
  - 1# wind sock 1.2 meters length, big diameter is 300mm,small one is 150mm(Height of Wind Cone is less than 4 meters)
  - 2# wind sock 2.4 meters length, big diameter is 600mm,small one is 300mm.(Height of Wind Cone is between 4meters and 6meters)
  - 3# wind sock 3.6 meters length, big diameter is 900mm, small one is 450mm.(Height of Wind Cone is more than 6meters)
- 1# wind sock is used for those below 4 meters; 2# wind sock is generally used for 4 to 6 meters, and 3# wind sock can be used for wind vanes with a height of more than 6 meters.
- Bench marking bracket and basic parts: all made of SUS304 stainless steel. The total height of the wind direction sign can be 1.5m, 2.5m, 3.5m, 4m, 5m, 6m, 7m or as required; when the total height is greater than 9 meters, a cable can be installed in order to increase the stability. When the height of the wind vane is greater than 4 meters, the hinged chassis can be selected for easy installation and erection. Refer to the product list for model selection.
- The power supply of this product adopts AC220V/50HZ. (The 6.6A power supply mode can also be used according to needs).
- Color: Red and white or orange and white or orange 4.Max wind load :260km/h.
- LED light source, with low power consumption and external long life
- Integrated circuit as power drive, reliable operation and convenient maintenance
- Use light, high strength and waterproof cloth as air bag, which is flexible
- External long life

**Installation method:**

1. At the selected mounting position place concrete foundation of 1m\*1m\*1,pre-embedded 7pcs M20\*800MM screws, 70mm higher than the ground;
2. Put the windsack into the frame, use the Velcro to fix it, and check if it is fastness between the frame and rotation device, make sure bolt-on and that two fixed jaw of the frame are fastness.(Windsack need to replace per year)
3. Connect the wind vane as the installation diagram, checking the rotating of the windsack, if it is rotating not smoothly, add some lubricant into the swivel bearing.
4. Then link the wires of the lights, check if the obstruction light on the top and the spot light in the frame is working normal. Confirm all is ok, align the wind vane' s foundation and the pre-embed M20 screws, then tighten up. Then check the installation support' s perpendicularity, if have the incline, adjust it.
5. Connect the null line, fire wire, ground wire with electric supply.
6. Wind vane have the rotational structure, could put down, is easy to install and maintain



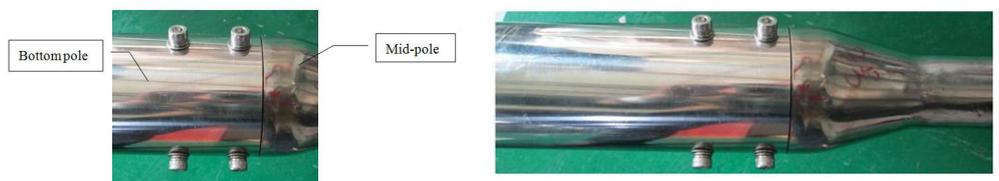
**A. The bottom pole and mid-pole assembly:**

- 1.Put the cables through to the mid-pole;
- 2.Put the bottom of the mid-pole into the bottom pole, align the installation holes, then tighten up.

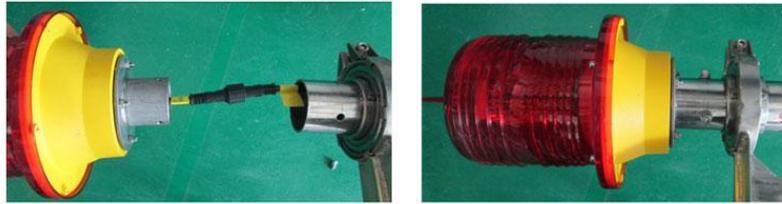


**B. Mid-pole and top pole assembly:**

- 1.Put the obstruction light and spot light cables connected;
- 2.Put the bottom of the top pole into the top of the mid-pole, align the holes, tighten up.



**C. Obstruction light installation:**

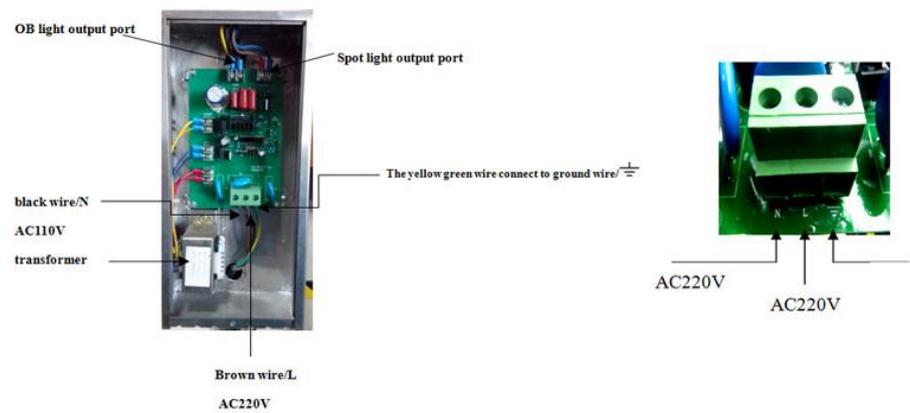


**D. Frame assembly:**



**D. Control box:**

Need to use a 3 \* 1.0 square cable connected to the wind vane control box with a green three -core cable ,the brown wire is the live wire (L), the black wire the null line (N), the yellow-green wire is the ground wire.



**Attention:**

- All the lines must be connected correctly, otherwise may damage the light. Please look at the mark and introduction carefully.
- The power supply of this type of light is AC110V、50HZ/60HZ. Do not use other power supply, such as 380V, otherwise the light will be quickly damaged.
- It is normal situation there will be a temperature rise when the lamps working.
- When the light working, in order to avoid the dangerous, pls don' t open any part of the light body
- Non-professional workers do not disassemble , once discovered ,shall not guarantee.