

## User manual

**FCC ID: 2AA551105B6105B100;**  
**For Model: SBD1105B-YQL100;**  
**SBF6105B-YQL100;**

### 1. use

Shanghai Senben Lighting Technology Incorporated Company's SBD1105B-YQL100/SBF6105B-YQL100 Maintenance-free, Energy-saving, Waterproof, Dustproof and Corrosion-proof Factory Lamp, the light source is induction lamp, and has the high Luminous Efficiency, longer lifespan etc features, the luminaire adopts the integrated structure, aluminum alloy die-casted ballast box and incoming line cover with the surface painted with polyester powder, This product is applicable for the common lighting or emergency lighting of such indoor and outdoor place with mech dust or damp such as factory ,airport,tunnel,especially power plant and its boiler unit,iron& steel plant and so on.

### 2. Feature

1. This product is of flame-proof and increased safety structure, O type sealing rings are adopted in the flame proof joints to make this product fulfill the dust-proof structural requirements. The flameproof electrical box, increased safety illuminant chamber and junction box are casted from aluminum alloy and painted with polyester on the outer surface.
2. The tensile strength of the aluminum alloy enclosure is no less than 120MPa and content of magnesium and titanium of the enclosure is no more than 7.5% of the total content, the enclosure is anti-corrosion. See Figure 2 for the light structure.
3. The flame proof electrical box shall subjected to specified internal explosion without any damage, the flame proof threads will provide a flame path to cooldown the enclosure in case of internal explosion.
4. Increased safety chamber is used as a reflector, it's casted by aluminum plate with anodizing on the internal surface and polycarbonate coated on the external surface. Light with 120W and 150W illuminant has assistant reflectors.
5. The maximum surface temperature of the enclosure shall be less than 80℃ without dust layer.
6. Flat toughed glass or polycarbonate prisma can be adopted as transparent plate.
7. Transparent plate and illuminant enclosure are fixed with aluminum alloy made hoop, it's endurable and reliable with good oxidation resistance.
8. Rubber sealing rings are adopted between flame proof electrical box and increased safety chamber, these will ensure the good ingress protection performance.
9. Electromagnetic induction illuminant equipped special ballast with high steady frequency and high steady power, make the light is available to work under a wide range of voltage with long service life, it will also ease visual fatigue.
10. The light is provided with cable entries(compression nut type) with rubber sealing rings inside for user's convenience to wiring and cable sealing.

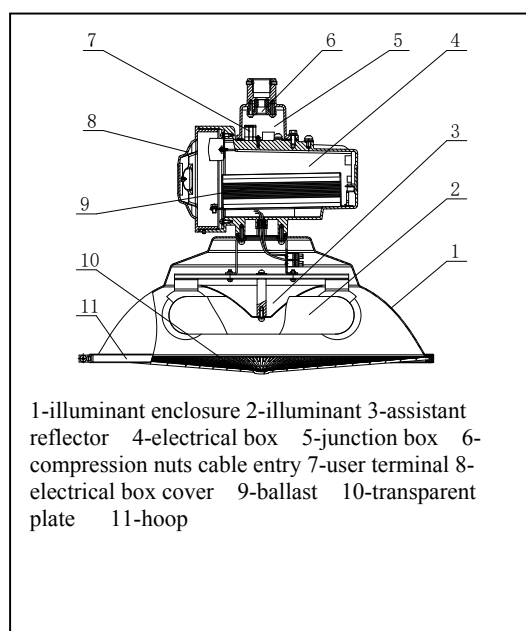
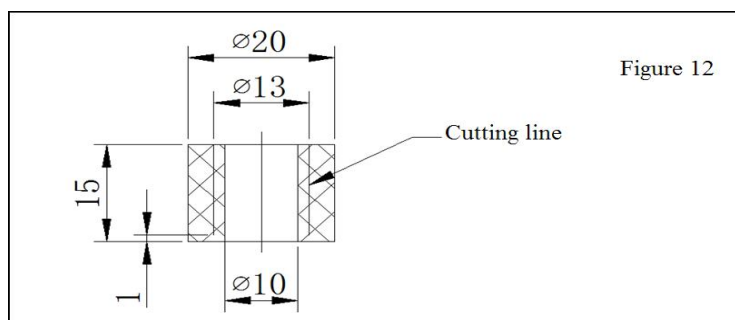


Figure2

11. Bulk type terminals make wiring reliable.
12. The light can be installed in pipe suspending type, ceiling type, wall mounting type, guard pole type and flange pole type. See Figure 2 for installation instructions.

### 3. Directions

1. In order to ensure the safety service of this Ex light, it shall be installed and maintained by trained personnel. Unauthorized people shall not open or disassembly the fasteners.
2. Since polyester transparent cover is adopted, there is a warning label: *Warning - Potential electrostatic charge - see Instruction Manual*. The installation height shall no less than 2.5m, user shall pay attention to the electrostatic charge. Avoid ignition risks caused by normal service, maintenance and cleaning; do not touch or wipe the light in hazardous areas. Necessary replacement, wiping and touch shall be carried out in non-hazardous area.
3. Installation and maintenance procedures shall meet associate national standards, do not operate when energized. Do not open when energized in maintenance or replacement and waiting for the illuminant to cooldown.
4. There must be a designated person to in charge of the maintenance work specially.
  - a) Special operational platform, ladder, safety belt and other necessary equipment shall be equipped to ensure personnel safety;
  - b) Inspect the light periodically, any component damage, loss shall be fixed in time; replace the aged sealing ring or other plastic part to ensure the explosion proof performance.
5. Take care of the disassembled components to avoid loss or drop from high cause casualties.
6. Aged sealing rings shall be replaced by one of the same specifications to ensure the explosion proof performance. See Figure 12 for the detailed specifications.



7. Ensure *Do not open when energized* is strictly followed, cut off the power if the top cover is required to open in maintenance.
8. The internal and external earthing shall be reliable.
9. Unauthorized personnel is not allowed to disassemble the light.
10. Do not replace the components or change the structure of the qualified product at will, these activities may affect the explosion proof performance.
11. Protect the flameproof joint from damage or rust, lubricate with 204-1 anti-rust oil.
12. **DO NOT OPEN WHEN ENERGIZED!**
13. Check the voltage of the power, make sure that it is in the service range of the light to avoid the light being damaged by improper voltage.

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#### **4. Warning:**

This equipment is fit for FCC 18th regulation.

Any change and modification have not been allowed will cause the equipment's using permission failure.

This product may cause radio interference, can not be mounted at the place near marine Safety communications equipment, and other navigation and communications equipment operating frequency between 0.45 -30 MHz. If this happens, please change the output and move the luminaire, and away from other electrical appliances if this is happening.

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This device complies with Part 18 of the FCC Rules.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45–30 MHz. If this occurs, please change outlet or move the lamp far away from other appliance.