

# User manual

**FCC ID: 2AA55HUNHE50  
For Model: SBD1103-YQL50;  
SBF6103-YQL50;  
SBD1110-YQL50;  
SBF6107-YQL50;**

## 1. use

Shanghai Senben Lighting Technology Incorporated Company's SBD1103 SBF6103/SBD1110/SBF6107 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.Electrical parameters:

1. Rated Vol.: **120VAC 60Hz**
  2. Illuminant: Electromagnetic induction illuminant
  3. Power: 40 or 50W
  4. Ex marking:  
Ex d e II CT4 Gb  
Ex tb III C T80°C Db
  5. IP code: IP66
  6. Corrosion-proof grade: WF2
  7. Applicable cable outer diameter:  
φ 9~12.5mm
  8. Outline and installation size see I

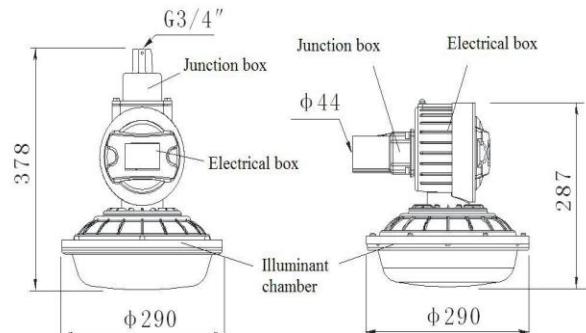


Figure 1

### 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 waning label: *Warning - Potential electrostatic charge - see Instruction Manual*. The installation hight 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.

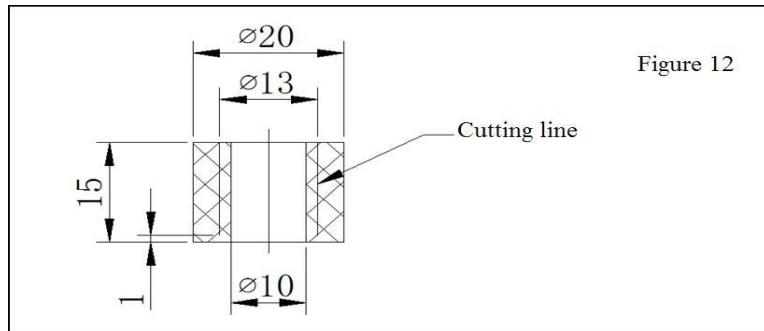


Figure 12

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.

#### 4. Warning:

This equipment is fit fr FCC 18th regulatin.

Any change and modify have not been allowed will case 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 happen, pls 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**

##### (a) **The interference potential of device or system:**

“Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

**(b) Simple measures that can be taken by the user to correct interference:**

*"NOTE: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help."*