

The instruction of the lifebuoy self-igniting light (Intrinsic safety)

1. General Introduction

The lifebuoy self-igniting light (FBQD2) is such a kind of nature-safety life buoy light which was used for the dangerous place of zone 0, zone 1, zone 2, and equipped for offshore oil rig platform and the combustible and explosive transportation ship of petroleum and compressed petroleum gas etc. which is of easy installation and safety usage.

This product is in accordance with: Electrical apparatus for explosive gas atmospheres- IEC60079-0: 2004 Part 0: general requirement; Electrical apparatus for explosive gas atmospheres- IEC60079-11: 2007 Part 11: Intrinsic Safety "i"; the 1996 Amendment to SOLAS 1974 and MSC.81 (70).

2. Structure

1) The crust is made of PC which has been altered, the material of the lampshade is PC which is anti-corrosion and anti-concussion, it will not bring spark when fall down or impact with other objects.

2) The lamp-house is special white LED of high efficiency and stable performance. The control of the power consists of reed switches and magnetism materials. It is turnoff when the light is downward, it will give off the flash signal when the light is upward.

3. Main parameter

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| 1. Power source: | two alkaline batteries (approved battery: Energizer: E95L Duracell: MN1300) |
| 2. lamp-house: | 1W/ LED with white light |
| 3. environment temperature: | -30°C ~ 65°C |
| 4. working temperature: | -1°C ~ 30°C |
| 5. Working Duration: | ≥ 2 hours |
| 6. Luminous intensity: | ≥ 2 cd |
| 7. Light type: | flash |
| 8. Explosion-proof class: | Ex ia II CT4 |
| 9. Explosion-proof certificate No. : | IECEX CQM 10.0022 |
| 10. Period of validity: | Five years |
| 11. size: | φ 100 × 295 |

4. Usage and attention

1. Special warning: Light already equipped with battery shall be downward; the site must be safe when opening the cover to replace the battery.

2. Installation of battery: Screw off the lamp shade, take out the set of battery support rack and install new battery (use 2 pieces of 1# alkali dry battery, the brand is Energizer: E95 or Duracell: MN1300, pay attention not to mix usage of battery, the polarity see the icon in the battery holder), then install the battery rack, and check whether seal ring and silicone grease are in good condition. Otherwise change the spare ring and screw down the lamp shade to make sure if it is waterproof. Then find out whether it can be ignited in upward position.

3. Installation of the life buoy light: install the fixing rack to the suitable site with two M5×12 bolts; make sure the light is downward when installing the fixing rack to release with the life buoy successfully. To be advised the height of installation is no more than 30 meters.

4. It should be stopped being used when these conditions occur: lampshade distorts and cracks or the seal ring ruins.

5. It is equipped with two M5×12 bolts and one spare seal ring and 2 pieces of 1# alkali dry battery (Energizer E95). Make sure the battery is in the period of validity.